



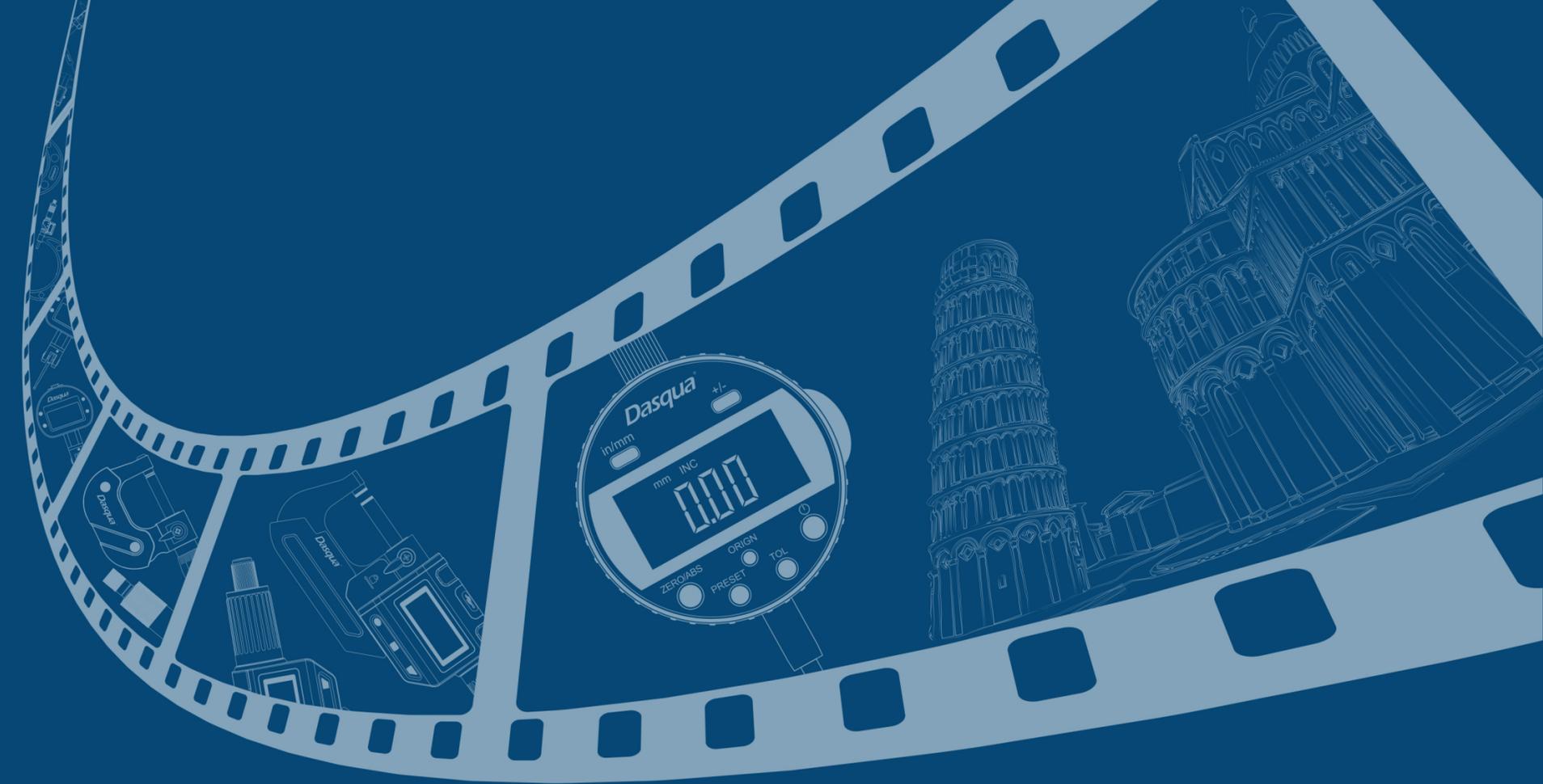
**Dasqua**<sup>®</sup>

E-mail: [service@dasquatools.com](mailto:service@dasquatools.com)

Headquarters Italy : Dasqua S.R.L.  
Via Codognino No. 4, 26854 Cornegliano Laudense ( LO ),Italy

America Branch: Dasqua USA Ltd.  
14758 Yorba Court,Chino,CA 91710 USA

China Branch : Dasqua Technology Ltd.  
No.99,West Section of Hupan Road,Chengdu,Sichuan Pilot Free Trade Zone,China



**Dasqua**<sup>®</sup>

**2023-2024**

# Forza Blu!

The color of the year 2020 is classic blue. According to pantone institute, it is the color of traditional blue Jeans, fresh blueberries and the timeless consistency and reassurance presented by DASQUA.

Long ago in the early 1980s, when Dasqua embarked on supplying machinist calipers in Nord Italy, most of us looked at 2020 as the future. But today we are here! The blue Dasqua are now deemed to be the symbol of reliability in our field. Combining both the tradition and spirit, with headquarters in Lodi, Italy, and two additional fulfillment facility strategically located in Los Angeles.(for Pan-America), and Shanghai(For Asia area),Dasqua is currently serving customers in more than 50 countries globally.

The past decades have witnessed a significant change at Dasqua. And the results were driven by an array of tiny improvements. In 2008, we launched the first rechargeable digital caliper in the World, granted global patent. Last year, we changed to a latest carbide material for micrometer anvils. This new carbide replaces the traditional YG6 carbide which would naturally wear off, so now we have long-lasting accuracy assured. We also started making precision ground STAINLESS STEEL threading rod this year to instead the alloy steel or carbon steel rods used for transmission of measurement. This change is a substantive innovation for movement in worksites where water or oil is a problem. These small improvements are sending ripples across the ocean of our industry. And now we are working on a wireless data transmission system covering major measuring tools, optimizing manufacturing and QC management.

Above all, no matter it is a marble-material plate sourced from China or a 100% European made 0.001mm resolution dial test indicator, we deliver you with pride and confidence----when it comes to precision measurement, Dasqua makes the difference in the lineup.

Our statement of core value as well as our long cultivated common culture at Dasqua is:  
Honest; Reliability; Responsibility. -----H.R.R

Facing with the keen competition and continuing requirement of customers, we quite understand that even we have gained all these achievement, the decline is always in the offing. We can never stop our step.

If you have any suggestions, or comments, please feel free to advise us. We value that as the most pivotal impulse for our pace forward. We, at Dasqua, will keep striving to ensure our blue products are the best for you as before, and always into the future!

Yours truly  
The Dasqua team

## ABOUT US



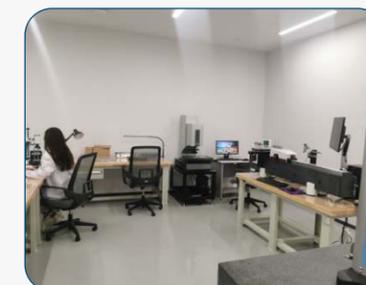
### MANUFACTURING

We are now still keeping exact procedure combined with state-of-the-art machinery for our precision machining process while improving product by using latest material and applying new engineering procedure.



### TRACEABLE QC SYSTEM

Every piece of Dasqua measuring tools is tested for approval by international in-door CNAS-qualified Labs, which are equipped with inspection system and devices from ZEISS, HAIMER, and MARPOS. Calibration certificate attached with product is traceable with respective DIN and ANSI standards. Strict visual inspection is applied to avoid any slight scratch even on non-measuring surface.



### FAST DELIVERY

We owned fast delivery from - stock (Europe, America, Asia) And we also have set the target of 90% fulfillment rate in our distributions by the end of 2020,covering 800+ most popular used sizes/specifications in stock to meet the daily requirement of customers globally.

### WARRANTY AND SERVICE/TRAINING COURSE

Warranty is an indication of manufacturers confidence for the product they supplied. All Dasqua measuring tools are guaranteed for TWO years(Starting from invoice date) on accuracy and workmanship. We provide all spare parts and training - courses for our national agents and distributors worldwide. All final customers can obtain technical support from local distributor or online ( www.Dasquatools.com).



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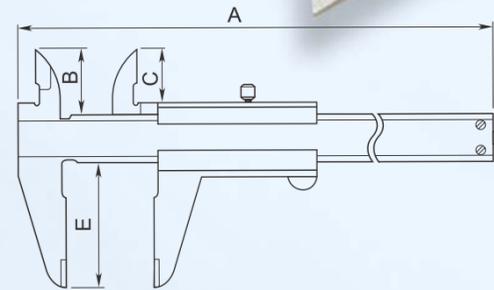
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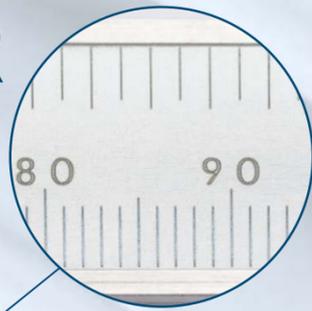
**CALIPER**  
BORN IN ITALY, RAISED BY THE WORLD

# MONOBLOCK VERNIER CALIPER

- Strictly made in accordance with DIN862
- Supplied in fitted solid ABS case and warranty card in it

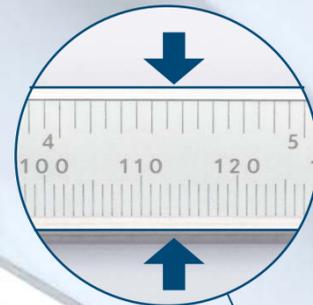


Code	Range	Graduation	A	B	C	D	E	Accuracy
1120-3115	0-150/0-6"	0.05/1/128"	235	21	16.5	16	40	0.05
1120-3116	0-160/0-6.3"	0.05/1/128"	238	23	17.5	15.5	40	0.05
1120-3120	0-200/0-8"	0.05/1/128"	298	24	19.5	16	50	0.05
1120-3130	0-300/0-12"	0.05/1/128"	410	28	22	20	64	0.05
1380-3005	0-150/0-6"	0.02/0.001"	235	21	16.5	16	40	0.03
1380-3006	0-160/0-6.3"	0.02/0.001"	238	23	17.5	15.5	40	0.03
1380-3010	0-200/0-8"	0.02/0.001"	298	24	19.5	16	50	0.03
1380-3015	0-300/0-12"	0.02/0.001"	410	28	22	20	64	0.03



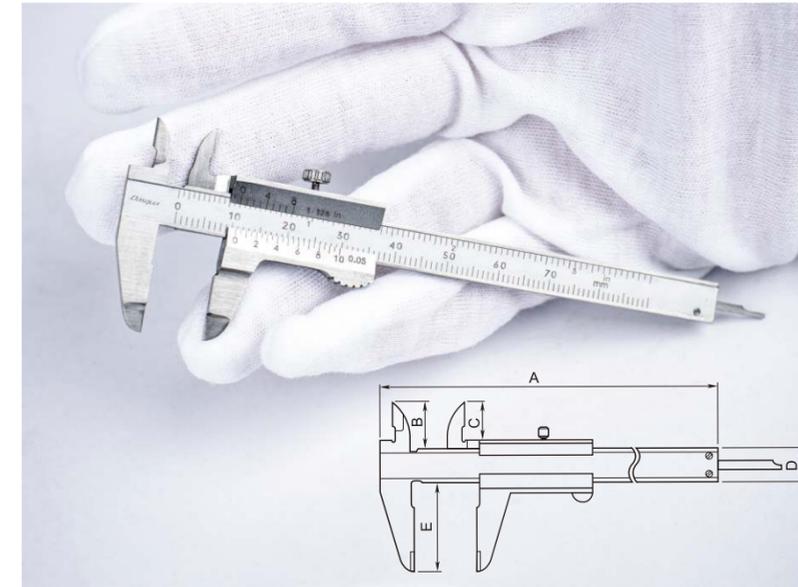
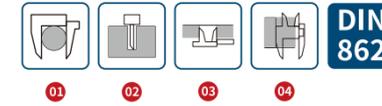
- Distinct lines and figures laser etched on satin chrome finish beam

- Surfaces of beam ground (Parallelism less than 0.015, 20% better than normal) to ensure smooth movement throughout



- Jaws ground to raise the accuracy of measurement

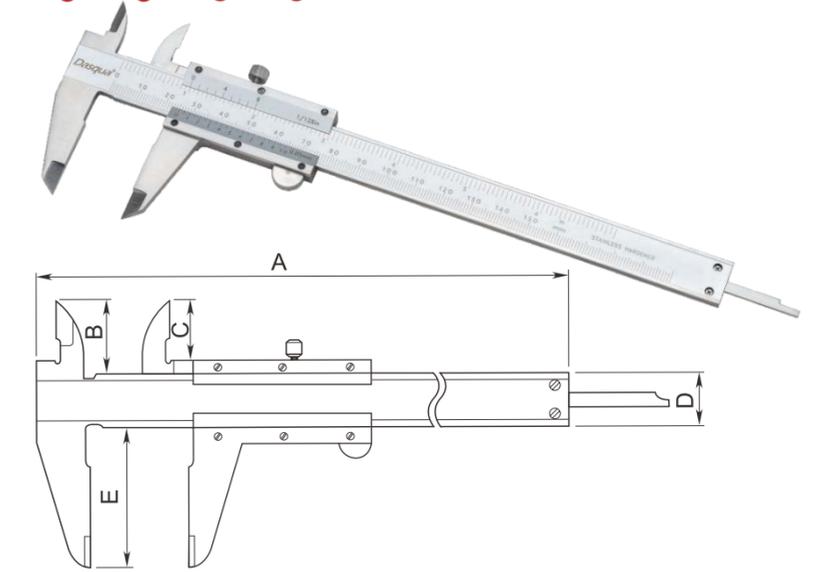
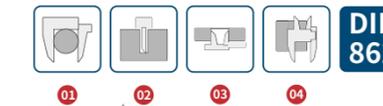
# MINI VERNIER CALIPER



- 4 usages for measuring outside diameter, inside diameter, step and depth
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- With locking screw for stable reading
- Monoblock structure
- Distinct lines and figures etched against satin chrome finish

Code	Range	Graduation	A	B	C	D	E	Accuracy
1120-3113	0-70/0-3"	0.05/1/128"	113	11	8	8	19	±0.05
1380-3004	0-100/0-4"	0.02/0.001"	160	17.5	13	12	30	±0.03
1120-3114	0-100/0-4"	0.05/1/128"	160	17.5	13	12	30	±0.05

# VERNIER CALIPER

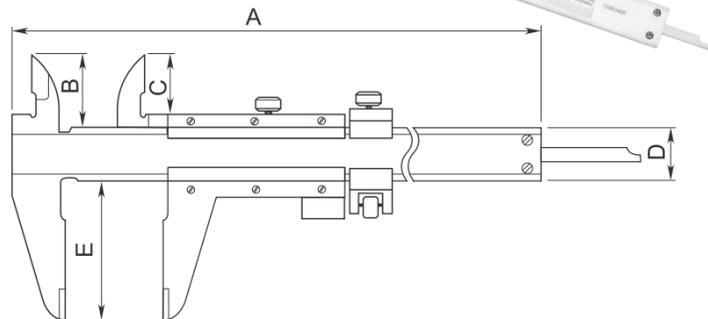
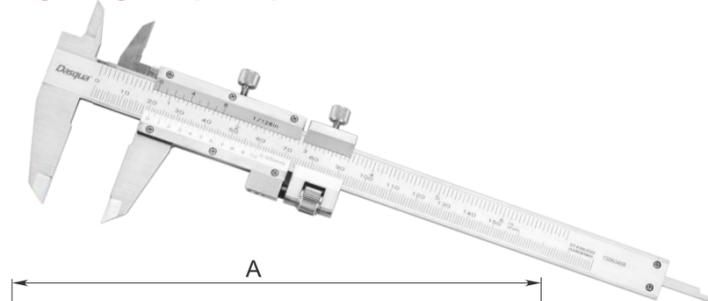


- 4 usages for measuring outside diameter, inside diameter, step and depth
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Distinct lines and figures etched against satin chrome finish
- With locking screw for stable reading

Code	Range	Graduation	A	B	C	D	E	Accuracy
1110-3114	0-100/0-4"	0.05/1/128"	160	18	13.5	12	30	0.05
1110-3115	0-150/0-6"	0.05/1/128"	235	21	16.5	16	40	0.05
1110-3120	0-200/0-8"	0.05/1/128"	298	24	19.5	16	50	0.05
1110-3130	0-300/0-12"	0.05/1/128"	410	26	20	18	55	0.05
1550-2004	0-100/0-4"	0.02/0.001"	160	18	13.5	12	30	0.03
1550-2005	0-150/0-6"	0.02/0.001"	235	21	16.5	16	40	0.03
1550-2010	0-200/0-8"	0.02/0.001"	298	24	19.5	16	50	0.03
1550-2015	0-300/0-12"	0.02/0.001"	410	26	20	18	55	0.03

## VERNIER CALIPER

WITH FINE ADJUSTMENT



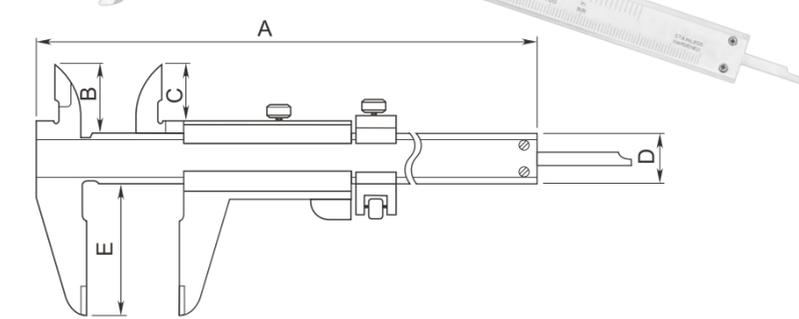
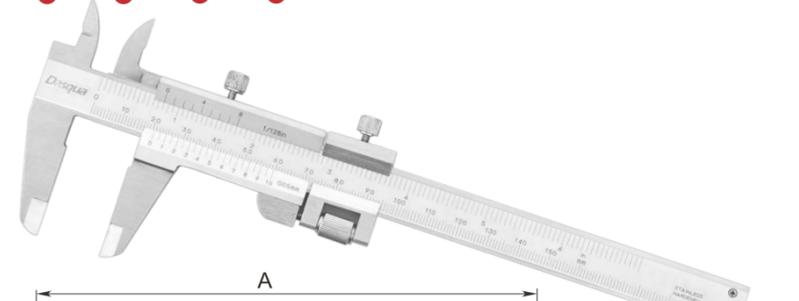
- 4 usages for measuring outside diameter, inside diameter, step and depth
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Distinct lines and figures etched against satin chrome finish
- With locking screw for stable reading
- With fine adjustment

Unit:mm

Code	Range	Graduation	A	B	C	D	E	Accuracy
1210-3105	0-150/0-6"	0.05/1/128"	235	21	16.5	16	40	0.05
1210-3110	0-200/0-8"	0.05/1/128"	298	24	19.5	16	50	0.05
1210-3115	0-300/0-12"	0.05/1/128"	410	26	20	18	55	0.05
1490-7005	0-150/0-6"	0.02/0.001"	235	21	16.5	16	40	0.03
1490-7010	0-200/0-8"	0.02/0.001"	298	24	19.5	16	50	0.03
1490-7015	0-300/0-12"	0.02/0.001"	410	26	20	18	55	0.03

## MONOBLOCK VERNIER CALIPER

WITH FINE ADJUSTMENT



- 4 usages for measuring outside diameter, inside diameter, step and depth
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Distinct lines and figures etched against satin chrome finish
- With locking screw for stable reading
- With fine adjustment

Unit:mm

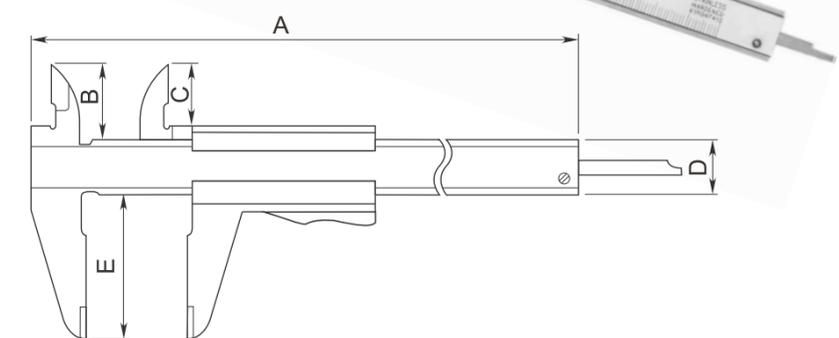
Code	Range	Graduation	A	B	C	D	E	Accuracy
1220-3105	0-150/0-6"	0.05/1/128"	235	21	16.5	16	40	0.05
1220-3110	0-200/0-8"	0.05/1/128"	298	24	19.5	16	50	0.05
1220-3115	0-300/0-12"	0.05/1/128"	410	28	22	20	64	0.05
1560-7005	0-150/0-6"	0.02/0.001"	235	21	16.5	16	40	0.03
1560-7010	0-200/0-8"	0.02/0.001"	298	24	19.5	16	50	0.03
1560-7015	0-300/0-12"	0.02/0.001"	410	28	22	20	64	0.03

## MONOBLOCK VERNIER CALIPER

WITH AUTO-LOCKING



- 1801-0806 Auto-Locking Caliper With Large Number



- The whole blade of the beam is vacuum hardened with uniform hardness, guaranteeing wear-resistance and longer service life
- The upper and lower parts of the ruler are precisely ground to ensure smooth use
- Strictly in accordance with DIN862 standard
- Made of high quality stainless steel

Unit:mm

Code	Range	Graduation	A	B	C	D	E	Accuracy
1801-0810	0-150/0-6"	0.05/1/128"	235	21	16.5	16	40	0.05
1801-0809	0-150/0-6"	0.02/0.001"	235	21	16.5	16	40	0.03
1801-0806	0-150	0.05	235	21	16.5	16	40	0.05

## CALIPER CALIBRATION GAUGE BLOCK SET

MADE OF STEEL

- Gauge block calibration set for calipers
- Made of steel
- Extremely wear resistance and corrosion resistance

DIN 861

Unit:mm

Code	Grade	Contents
6111-1204	1	1 each of gauge block 41.3,131.4; Setting ring Dia. 20.0,4.0
6112-1204	2	1 each of gauge block 41.3,131.4; Setting ring Dia. 20.0,4.0





## CALIPER CALIBRATION GAUGE BLOCK SET

MADE OF CERAMIC

- Gauge block calibration set for calipers
- Extremely wear resistance and corrosion resistance

**DIN 861**

Unit:mm

Code	Grade	Contents
6201-3505	1	1 each of gauge block 41.3,131.4;



## DEPTH BASE ATTACHMENT

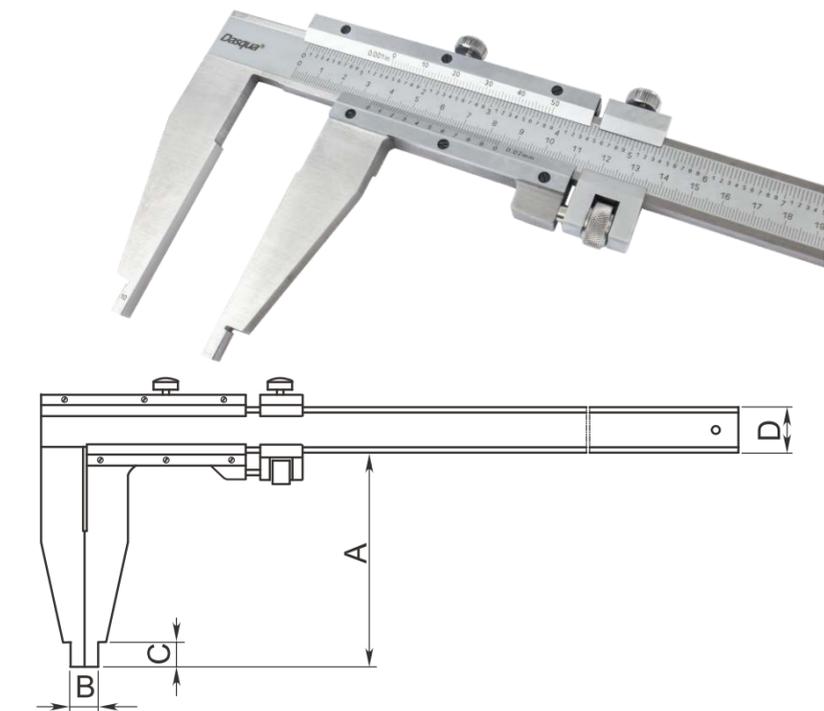


- Increasing the stability of caliper measurement
- Made of solid stainless steel
- Measuring surfaces ground for ultimate accuracy

Unit:mm

Code	A	B	C	D	E	Application
3001-1001	16.5	9	75	18	30	Base Length 75mm,for width of the beam 16mm

## VERNIER CALIPER WITH NIB STYLE JAWS

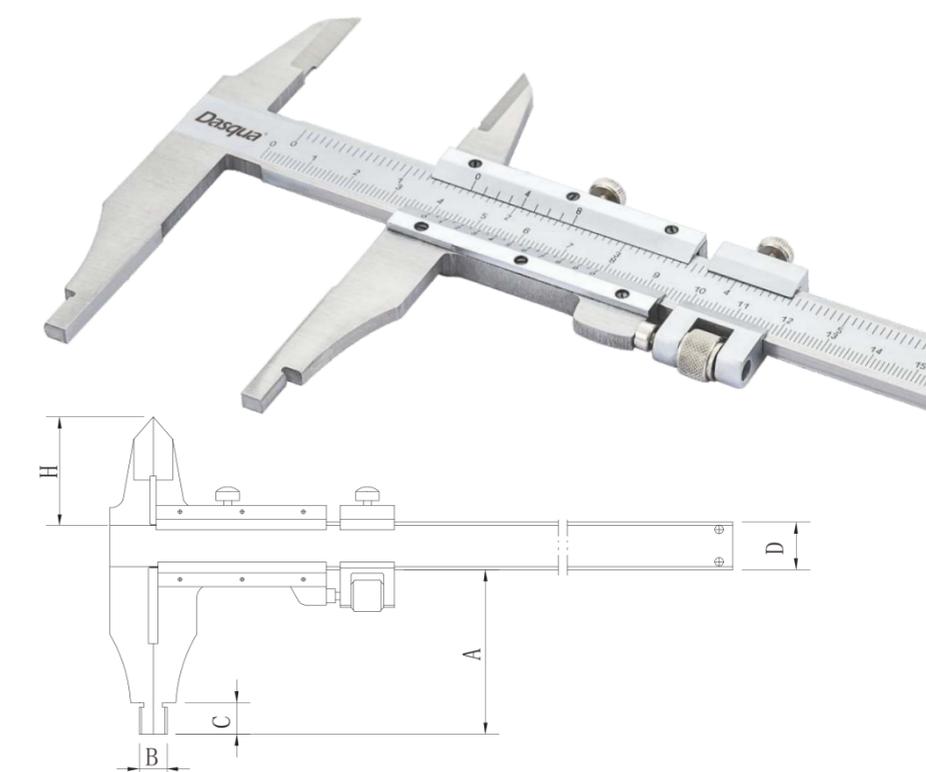


- With fine adjustment
- Hardened ground jaws with precision lapped measuring faces
- Satin chrome finish,hardened stainless steel throughout for longer life
- Distinct lines and figures etched against satin chrome finish

Unit:mm

Code	Range	Graduation	A	B	C	D	Accuracy
1300-0005	0-500/0-20"	0.02/0.001"	100	10	12	25	±0.05
1300-0006	0-500/0-20"	0.02/0.001"	150	10	12	32	±0.05
1300-0010	0-600/0-24"	0.02/0.001"	100	10	12	25	±0.05
1300-0011	0-600/0-24"	0.02/0.001"	150	10	12	32	±0.05
1300-0015	0-1000/0-40"	0.02/0.001"	125	20	18	32	±0.07
1300-0016	0-1000/0-40"	0.02/0.001"	200	20	18	32	±0.07
1300-0020	0-1500/0-60"	0.02/0.001"	150	30	20	41.5	±0.11
1300-0025	0-2000/0-80"	0.02/0.001"	200	30	20	52	±0.14

## VERNIER CALIPER WITH NIB STYLE & STANDARD JAWS



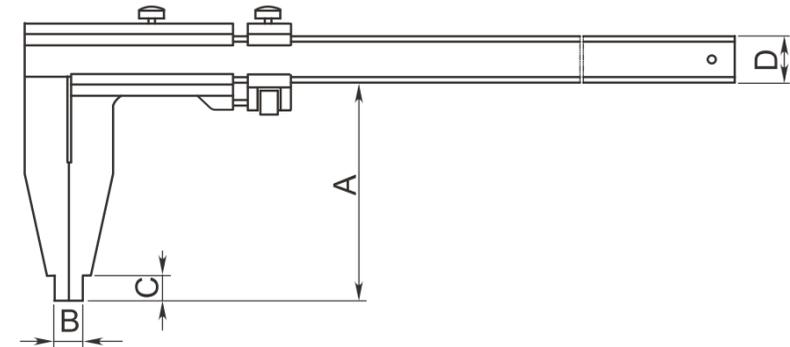
- With fine adjustment
- Hardened ground jaws with precision lapped measuring faces
- Satin chrome finish,hardened stainless steel throughout for longer life
- Distinct lines and figures etched against satin chrome finish

Unit:mm

Code	Range	Graduation	A	B	C	D	H	Accuracy
1300-0001	0-300/0-12"	0.02/0.001"	60	10	10	17	36.5	±0.04
1300-0002	0-500/0-20"	0.02/0.001"	100	10	12	25	55	±0.05
1300-0003	0-600/0-24"	0.02/0.001"	100	10	12	25	55	±0.05
1300-0004	0-1000/0-40"	0.02/0.001"	125	20	18	32	64	±0.07

## MONOBLOCK VERNIER CALIPER

WITH NIB STYLE JAWS



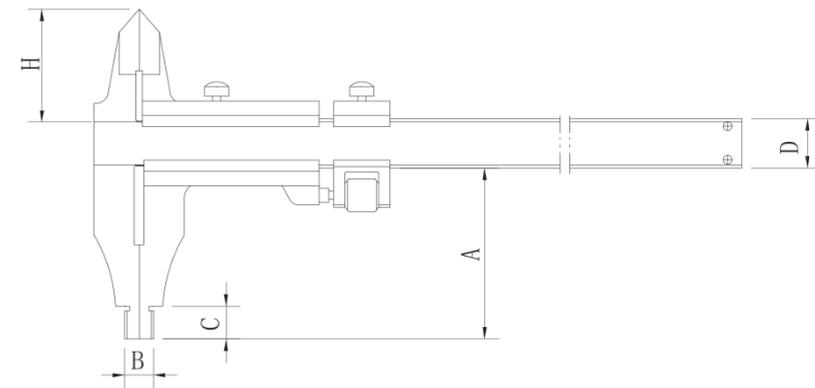
- With fine adjustment
- Hardened ground jaws with precision lapped measuring faces
- Satin chrome finish, hardened stainless steel throughout for longer life
- Distinct lines and figures etched against satin chrome finish

Unit:mm

Code	Range	Graduation	A	B	C	D	Accuracy
1310-0005	0-500/0-20"	0.02/0.001"	100	10	12	25	±0.05
1310-0006	0-500/0-20"	0.02/0.001"	150	10	12	32	±0.05
1310-0010	0-600/0-24"	0.02/0.001"	100	10	12	25	±0.05
1310-0011	0-600/0-24"	0.02/0.001"	150	10	12	32	±0.05
1310-0015	0-1000/0-40"	0.02/0.001"	125	20	18	32	±0.07
1310-0016	0-1000/0-40"	0.02/0.001"	200	20	18	32	±0.07
1310-0020	0-1500/0-60"	0.02/0.001"	150	20/30	20	32/41.5	±0.11
1310-0025	0-2000/0-80"	0.02/0.001"	200	20/30	20	52	±0.14

## MONOBLOCK VERNIER CALIPER

WITH NIB STYLE & STANDARD JAWS



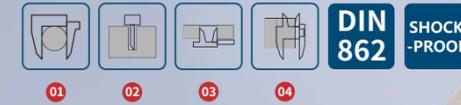
- With fine adjustment
- Hardened ground jaws with precision lapped measuring faces
- Satin chrome finish, hardened stainless steel throughout for longer life
- Distinct lines and figures etched against satin chrome finish

Unit:mm

Code	Range	Graduation	A	B	C	D	H	Accuracy
1305-0001	0-300/0-12"	0.02/0.001"	60	10	10	17	36.5	±0.04
1305-0002	0-500/0-20"	0.02/0.001"	100	10	12	25	55	±0.05
1305-0003	0-600/0-24"	0.02/0.001"	100	10	12	25	55	±0.05
1305-0004	0-1000/0-40"	0.02/0.001"	125	20	18	32	64	±0.07



**Made in Europe**



## DIAL CALIPER PRIME

**Dasqua Blu**

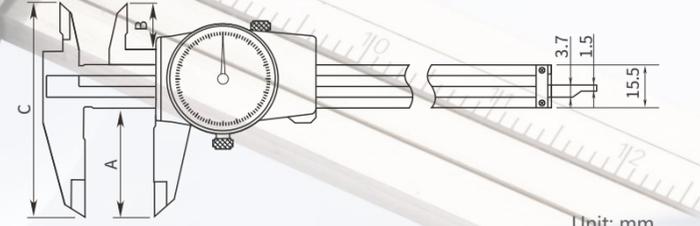
- Precision ground racks  
Top quality inner works with unique precision ground racks

- Metal housing improving its shock-proof ability



- Jaws ground to raise the accuracy of measurement

- Dial is entirely sealed and chrome-plated, improving protective ability.

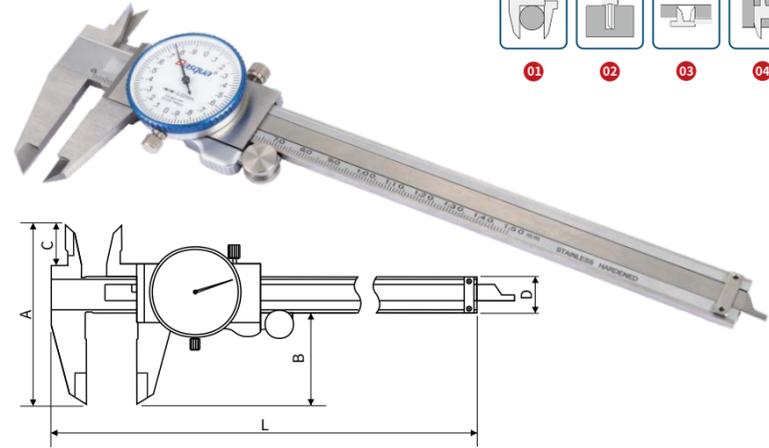


Unit: mm

Code	Range	Graduation	A	B	C	Accuracy
1360-3005 -A	0-150	0.01	40	13	74	0.02
1360-3010 -A	0-200	0.01	50	18.6	89.5	0.03
1360-3015 -A	0-300	0.01	64	20.6	105.5	0.03
1360-3205 -A	0-150	0.02	40	13	74	0.02
1360-3210 -A	0-200	0.02	50	18.6	89.5	0.03
1360-3215 -A	0-300	0.02	64	20.6	105.5	0.03

## DIAL CALIPER

**GREAT RELIABILITY**  
50% HIGHER ACCURACY THAN  
DIN862 STANDARD



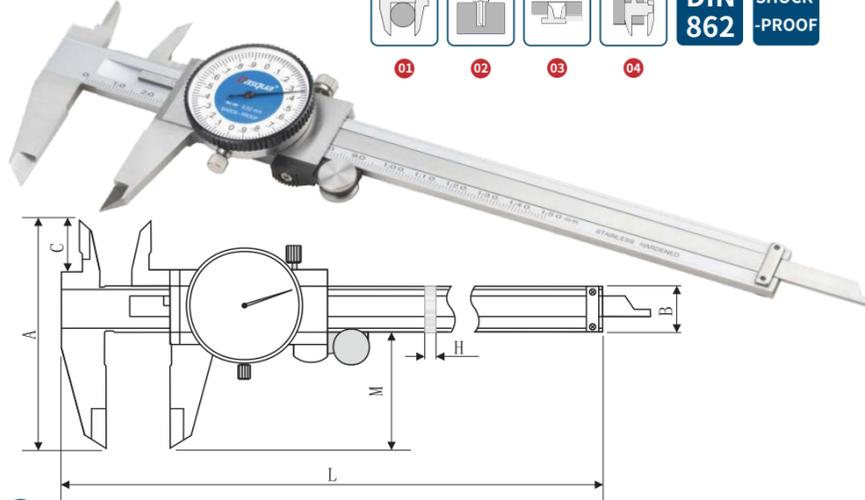
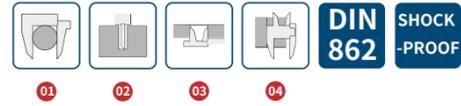
- Tough shock-proof gearing
- Made according to ISO13385-1 (DIN 862)
- Made of solid stainless steel
- 4 usages for measuring outside diameter, inside diameter, step and depth
- Vacuum quenched caliper, provides wear resistance, longer service life
- With locking screw for stable reading
- Measuring force strictly controlled in 2.5N-3.5N
- The parallelism of the measuring surface  $\leq 0.007\text{mm}$
- Distinct lines and figures laser etched against satin chrome finish
- With locking screw for stable reading

Unit:mm

Code	Range	Graduation	L	A	B	C	D	Accuracy
1331-2115-A	0-150	0.02	236	77	40	16.5	16	$\pm 0.015$
1331-2120-A	0-200	0.02	285	88	48	19.5	16	$\pm 0.02$
1331-2130-A	0-300	0.02	410	110	62	22.5	20	$\pm 0.025$
1350-5005-A	0-150	0.01	236	77	40	16.5	16	$\pm 0.01$
1350-5010-A	0-200	0.01	285	88	48	19.5	16	$\pm 0.015$
1350-5015-A	0-300	0.01	410	110	62	22.5	20	$\pm 0.02$
1332-4110-A	0-6"	0.001"	236	77	40	16.5	16	$\pm 0.00065$ "
1332-4115-A	0-8"	0.001"	285	88	48	19.5	16	$\pm 0.00085$ "
1332-4120-A	0-12"	0.001"	410	110	62	22.5	20	$\pm 0.001$ "

## DIAL CALIPER

**DOUBLE SHOCK-PROOF**



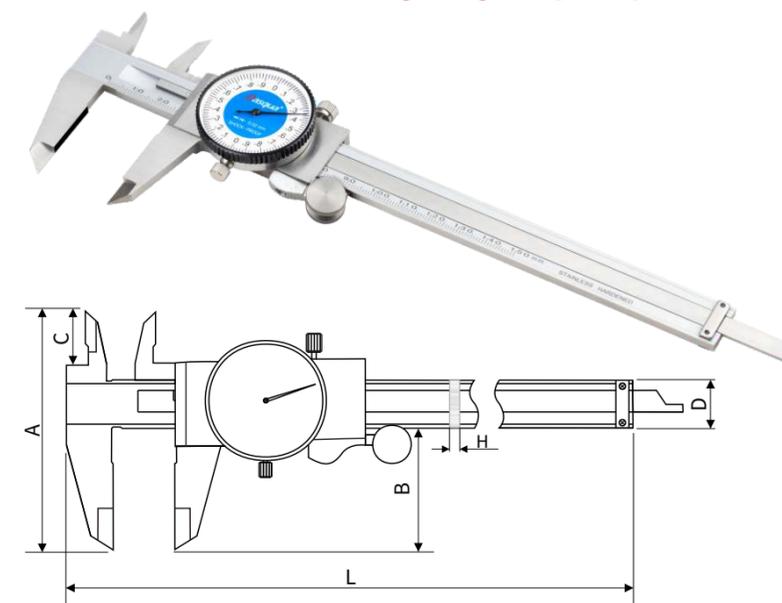
- Tough shock-proof gearing
- 4 usages for measuring outside diameter, inside diameter, step and depth
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Distinct lines and figures laser etched against satin chrome finish
- With locking screw for stable reading
- Large dial for easy and clear reading

Unit:mm

Code	Range	Graduation	L	A	B	C	H	M	Accuracy
1331-2110	0-100	0.02	166.5	62	13.5	13.8	3.3	30	$\pm 0.02$
1331-2115	0-150	0.02	236	77	16	16.5	3.5	40	$\pm 0.03$
1331-2120	0-200	0.02	285	88	16	19.5	3.5	48	$\pm 0.03$
1331-2130	0-300	0.02	410	110	20	22.5	4.0	62	$\pm 0.04$
1350-5004	0-100	0.01	166.5	62	13.5	13.8	3.3	30	$\pm 0.02$
1350-5005	0-150	0.01	236	77	16	16.5	3.5	40	$\pm 0.03$
1350-5010	0-200	0.01	285	88	16	19.5	3.5	48	$\pm 0.03$
1350-5015	0-300	0.01	410	110	20	22.5	4.0	62	$\pm 0.04$
1332-4105	0-4"	0.001"	166.5	62	13.5	13.8	3.3	30	$\pm 0.001$ "
1332-4110	0-6"	0.001"	236	77	16	16.5	3.5	40	$\pm 0.001$ "
1332-4115	0-8"	0.001"	285	88	16	19.5	3.5	48	$\pm 0.001$ "
1332-4120	0-12"	0.001"	410	110	20	22.5	4.0	62	$\pm 0.0015$ "

## DIAL CALIPER

**CARBIDE TIPPED**



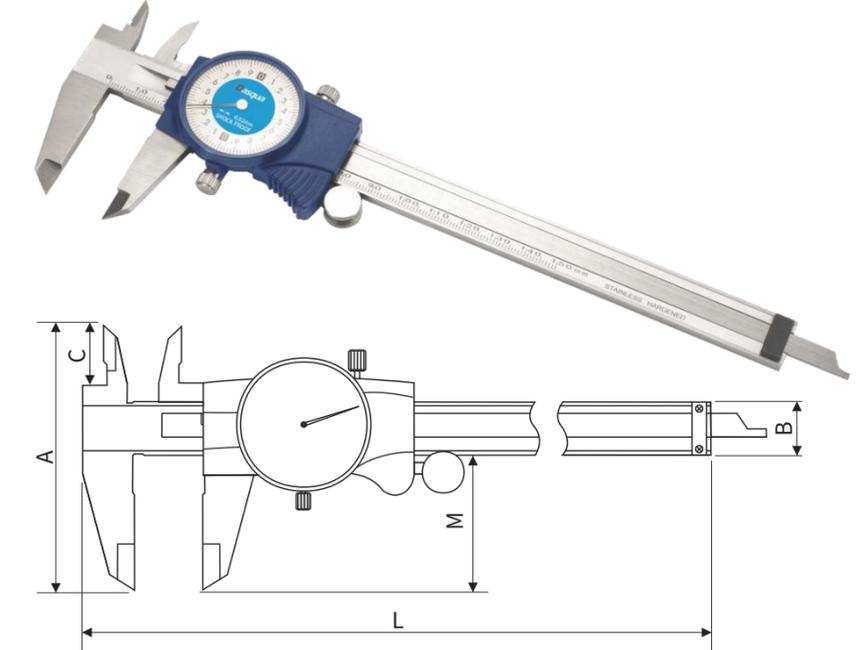
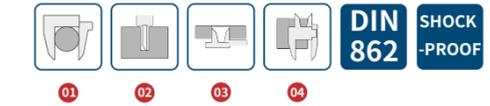
- Special carbide measuring surface which has a 5 times longer service life than common calipers, surfaces are hardened and ground by special hardness process
- Made according to ISO13385-1 (DIN 862)
- With locking screw for stable reading
- 4 usages for measuring outside diameter, inside diameter, step and depth
- Made of solid stainless steel
- Vacuum quenched caliper, provides wear resistance, longer service life
- Distinct lines and figures laser etched against satin chrome finish

Unit:mm

Code	Range	Graduation	L	A	B	C	D	Accuracy
1362-0005	0-150	0.02	236	77	42	16.5	16	0.02
1362-0010	0-200	0.02	285	88	50	19.5	16	0.03
1362-0015	0-300	0.02	410	110	64	22.5	20	0.03

## DIAL CALIPER

**WITH DUSTPROOF SHIELD**

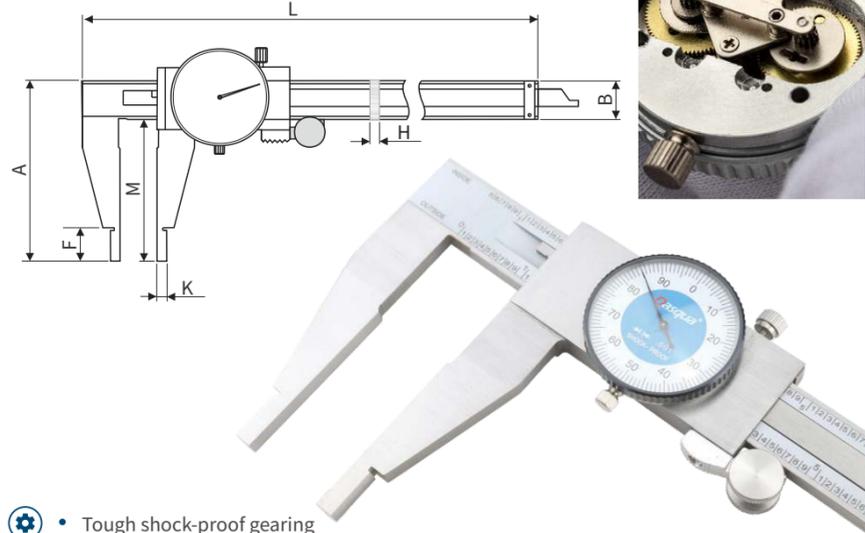


- 4 usages for measuring outside diameter, inside diameter, step and depth
- Strictly made in accordance with DIN862
- With locking screw for stable reading
- Large dial for easy and clear reading
- With dustproof shield for easy holding

Unit:mm

Code	Range	Graduation	L	A	B	C	M	Accuracy
1345-0105	0-150	0.02	236	77	16	16.5	40	$\pm 0.03$
1345-0110	0-200	0.02	285	88	16	19.5	48	$\pm 0.03$
1345-0115	0-300	0.02	410	110	20	22.5	62	$\pm 0.04$

## HEAVY DUTY DIAL CALIPER



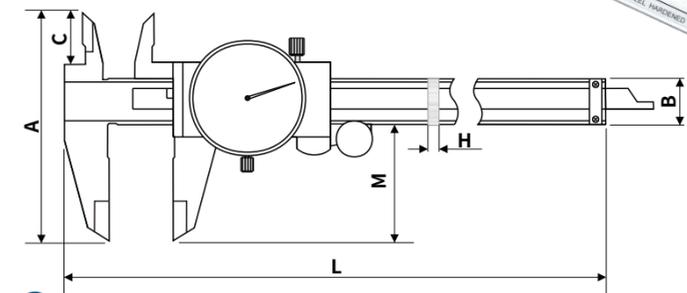
- Tough shock-proof gearing
- 4 usages for measuring outside diameter, inside diameter, step and depth
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Distinct lines and figures laser etched against satin chrome finish
  - With locking screw for stable reading
  - Extra rigid beam for high stability

Unit:mm

Code	Range	Graduation	L	A	B	F	H	K	M	Accuracy
1431-2105	0-450	0.02	580	108	22	20	6.0	5	86	±0.05
1431-2110	0-500	0.02	630	108	22	20	6.0	5	86	±0.05
1431-2115	0-600	0.02	730	108	22	20	6.0	5	86	±0.05
1431-2120	0-1000	0.02	1200	168	28	22	8.0	10	140	±0.07
1432-4105	0-18"	0.001"	580	108	22	20	6.0	5	86	±0.002"
1432-4110	0-20"	0.001"	630	108	22	20	6.0	5	86	±0.002"
1432-4115	0-24"	0.001"	730	108	22	20	6.0	5	86	±0.002"
1432-4120	0-40"	0.001"	1200	168	28	22	8.0	10	140	±0.0025"

## DIAL CALIPER

METRIC / INCH COMBINED



- Tough shock-proof gearing
- 4 usages for measuring outside diameter, inside diameter step and depth
- Made of solid stainless steel
- Distinct lines and figures laser etched against satin chrome finish
- With locking screw for stable reading
  - Large dial for easy and clear reading

Unit:mm

Code	Range	Graduation	L	A	B	C	H	M	Accuracy
3002-1901	0-150/6"	0.02/0.001"	236	77	16	16.5	3.5	40	±0.03/0.001"

# OIL & WATER PROOF DIGITAL CALIPER

Dasqua Blu



- Not only IP67 against water and dust, but also good oil proof ability



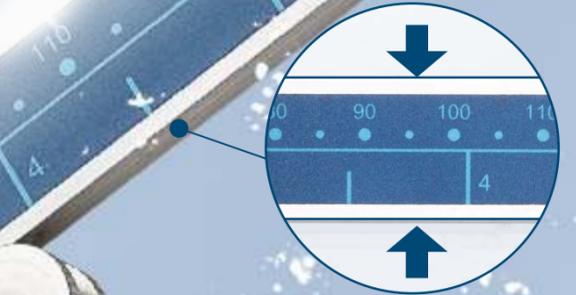
Digit Size:11.5mm

- 20% larger than normal screens; Larger size digital screen for easy reading

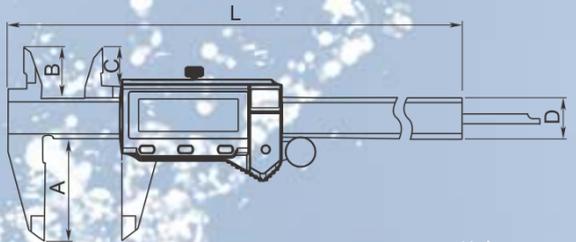
- Electronic components sealed to improve its anti-liquid ability



- Jaws ground to raise the accuracy of measurement



- Surfaces of beam ground (Parallelism less than 0.015, 20% better than normal) to ensure smooth movement throughout



Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2015-1005-A	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.02/0.001"
2015-1010-A	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
2015-1015-A	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	0.03/0.0015"

# PRO DIGITAL CALIPER

WITH ACCURACY 0.01MM



**Data Output**

Both cable and wireless for option



- Flatness of measuring surface is 0.003mm to ensure high precision
- Accuracy: 0.01mm, more excellent



01 02 03 04

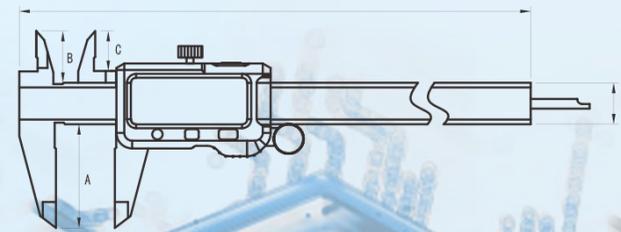


Certificate No.	UML2023	NO. 000048
Customer	DASQUA TECHNOLOGY LTD	
Address	23rd Floor, Unit 1, Building 5, No. 99 Xianglong Lakeside Road, Tianjin New District, Chengde, China	
Name of Instrument	DIGITAL CALIPER	
Type/Specification	(0-150)mm/0.01mm	
Serial No.	1B8060004	
Manufacturer	DASQUA	
Calibration Regulation	JJG 30-2012	
Approved by	Edward	
Checked by	Robert	
Calibrated by	David	
Date of Sample arrive	2023	Year 02 Month 23 Day
Date of Calibration	2023	Year 02 Month 24 Day
Date of Report	2023	Year 02 Month 24 Day
Address	Floor 23, Building 5, No.99 Xianglong Road, Chengde, China	
P. Code	612000	
Telephone	0086-28-81267118	

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- Large screen for easy reading



Code	Range	Resolution	A	B	C	D	L	Accuracy
2000-0005-A	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.01/0.0005"
2000-0010-A	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.01/0.0005"
2000-0015-A	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	0.02/0.001"

**Dasqua Blu**  
BORN IN ITALY, RAISED BY THE WORLD

# COMBINED DIAL & DIGITAL CALIPER

- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth throughout
- IP67 protection against liquid
- With inductive measurement system
- Tolerance set & tolerance alarm are optional
- Product built-in wireless system is optional (Code: 3004-0010)



01 02 03 04



- Surfaces of beam ground to ensure smooth movement throughout



- Large OLED color screen with both Dial and Digital reading



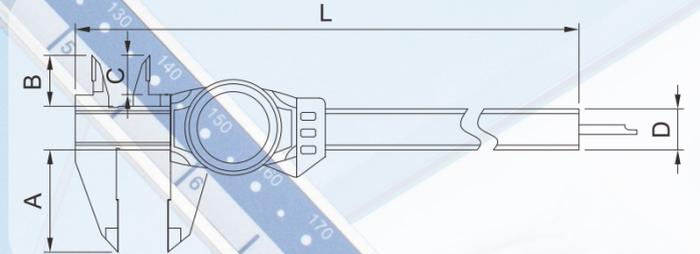
- High-capacity lithium battery With magnetic charging

- Sturdy Zinc Alloy casing for better protection and longer service life

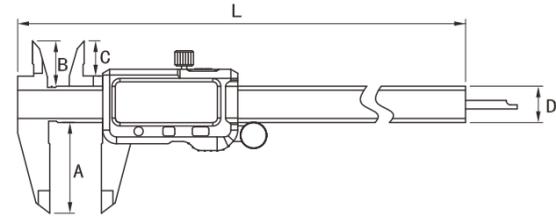
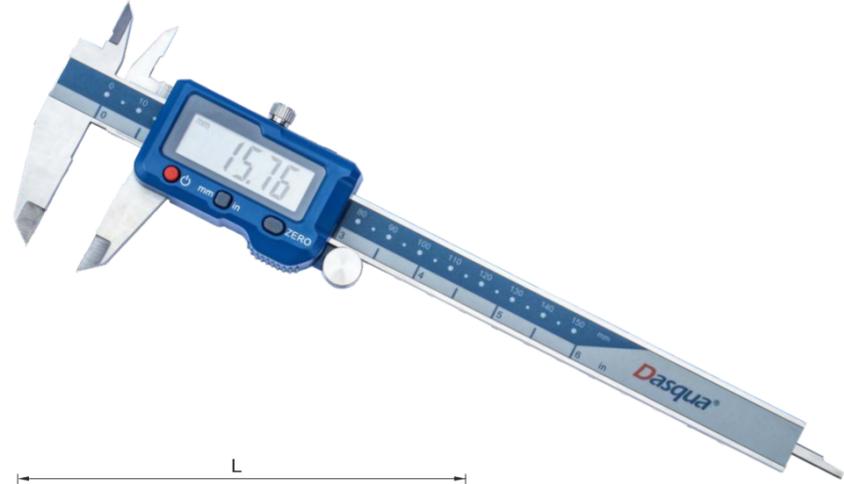


Code	Range	Resolution	A	B	C	D	L	Accuracy	Type
3004-0005	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	±0.02	/
3004-1005	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	±0.03	/
3004-2005	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	±0.03	/
3004-0010	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	±0.02	Built-in wireless system
3004-1010	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	±0.03	Built-in wireless system
3004-2010	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	±0.03	Built-in wireless system

Unit:mm



## DIGITAL CALIPER

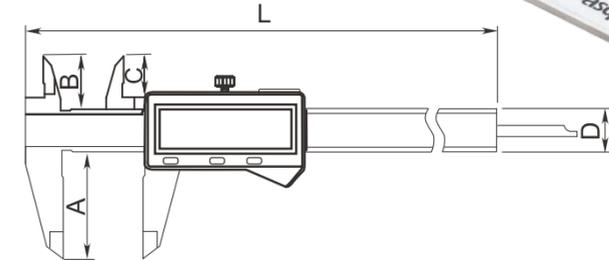
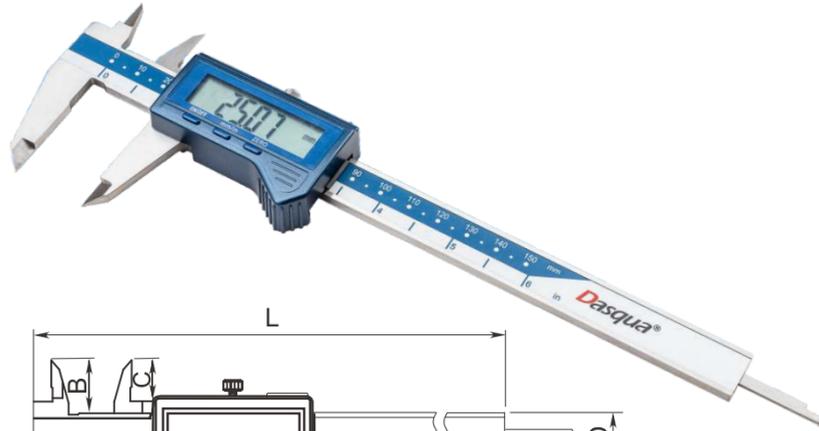


- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth throughout
- With data output

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2000-2005	0-150/0-6"	0.01/0.0005"	40	20	15.5	16	235	0.02/0.001"
2000-2010	0-200/0-8"	0.01/0.0005"	50	24	19.5	16	287	0.03/0.0015"
2000-2015	0-300/0-12"	0.01/0.0005"	60	26	21.5	16	390	0.03/0.0015"

## DIGITAL CALIPER



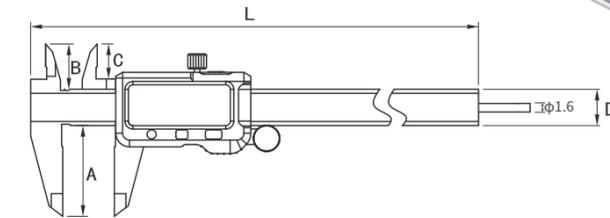
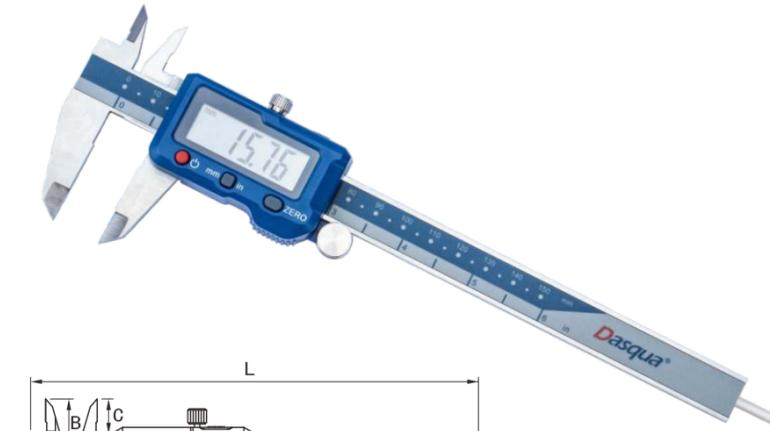
- Bigger screen with larger digits for easy reading
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth throughout
- With data output
- With fraction function

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
1804-1065	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.02/0.001"
1804-1070	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
1804-1075	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	0.03/0.0015"

## DIGITAL CALIPER

WITH ROUND DEPTH BAR

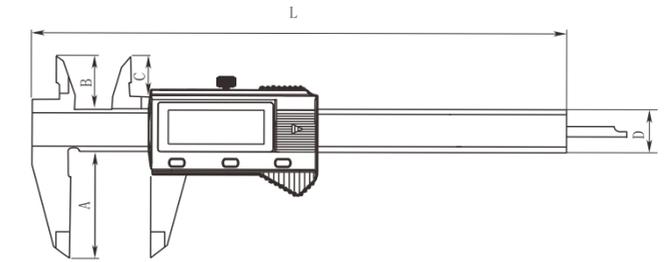
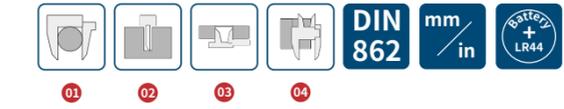


- Bigger screen with larger digits for easy reading
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth throughout
- With data output
- With fraction function

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2000-1605	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.02/0.001"
2000-1610	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
2000-1615	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	0.03/0.0015"

## MINI DIGITAL CALIPER



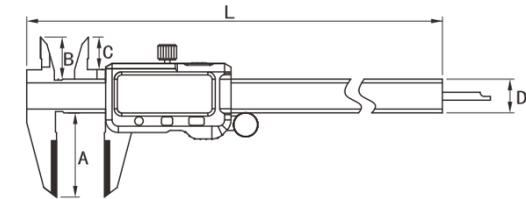
- Mini model for great portability
- Made of solid stainless steel
- Strictly made in accordance with DIN862

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2050-0005	0-100/0-4"	0.01/0.0005"	30	17	12	13	170	0.02/0.001"

## DIGITAL CALIPER WITH CARBIDE-TIPPED JAW

- DIN 862
- Battery + CR2032
- mm/in
- Data output



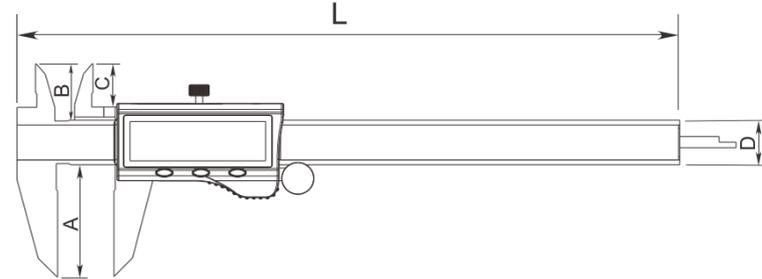
- Used to measure outside diameter, inside diameter, step and depth measurement and also for scribing
- Carbide tipped measuring faces making scribing clear and ensuring abrasive resistance
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth throughout

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2406-1005	0-150/0-6"	0.01/0.0005"	40	21	16.5	16	236	±0.03
2406-1010	0-200/0-8"	0.01/0.0005"	50	24	19.5	16	286	±0.03
2406-1015	0-300/0-12"	0.01/0.0005"	60	26	21.5	16	400	±0.04

## METAL HOUSING DIGITAL CALIPER

- DIN 862
- mm/in
- Battery + CR2032



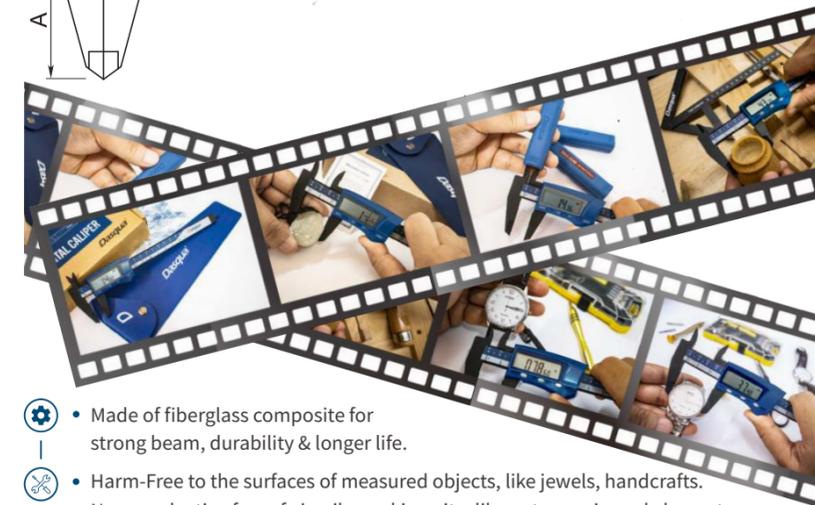
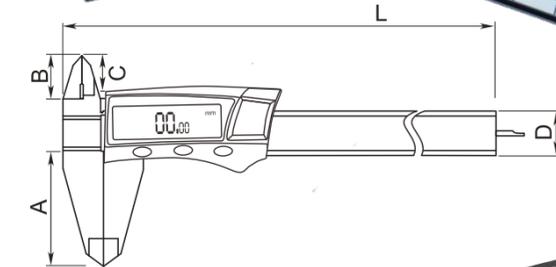
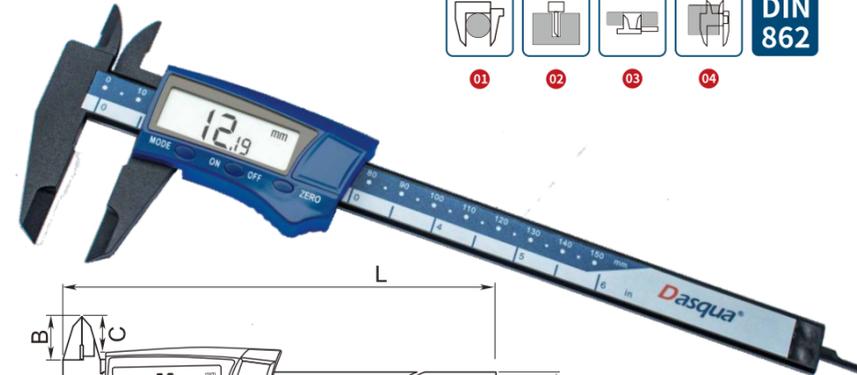
- With sturdy metal housing for high stability
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2115-2305	0-150/0-6"	0.01/0.0005"	40	20	15.5	16	235	0.02/0.001"
2115-2310	0-200/0-8"	0.01/0.0005"	50	24	19.5	16	287	0.03/0.0015"
2115-2315	0-300/0-12"	0.01/0.0005"	60	26	21.5	16	390	0.03/0.0015"

## PLASTIC CALIPER MADE OF FIBERGLASS

- DIN 862



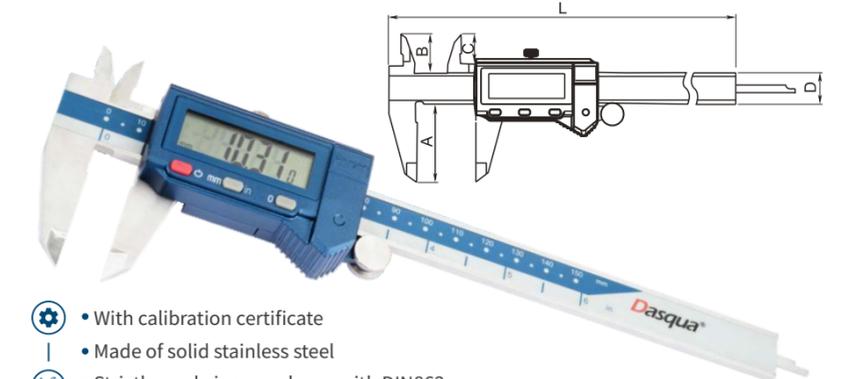
- Made of fiberglass composite for strong beam, durability & longer life.
- Harm-Free to the surfaces of measured objects, like jewels, handcrafts.
- Non conductive for safe in oily working-site, like auto repair workshop, etc.

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2035-0004	0-75/0-3"	0.01/0.0005"	25.5	14	9.5	13	138	±0.2
2035-0005	0-150/0-6"	0.01/0.0005"	39.5	21	16	16	236	±0.2
2035-0006	0-150/0-6"	0.01/0.0005"/1/64"	39.5	21	16	16	236	±0.2

## DIGITAL CALIPER

- Battery + CR2032
- IP54 COOLANT & LUBR RESISTANT
- DIN 862
- mm/in/F



- With calibration certificate
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2000-1005	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.02/0.001"
2000-1010	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
2000-1015	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	0.03/0.0015"

### WITH IP54 WATER PROOF AND ABSOLUTE FUNCTION

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2040-1005	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.02/0.001"
2040-1010	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
2040-1015	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	0.03/0.0015"

### WITH WIRELESS SYSTEM

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2025-1005-A	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.02/0.001"
2025-1010-A	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
2025-1015-A	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	0.03/0.0015"

## IP67 WATER PROOF DIGITAL CALIPER



- With calibration certificate
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- With inductive measurement system
- Large easy-to-read LCD screen
- Glass grating adapted
- IP67 protection against liquid

### WITH OIL PROOF ABILITY



Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2015-2405	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.02/0.001"
2015-2410	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
2015-2415	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	0.03/0.0015"

### WITH WIRELESS SYSTEM

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2020-1005-A	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.02/0.001"
2020-1010-A	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
2020-1015-A	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	0.03/0.0015"

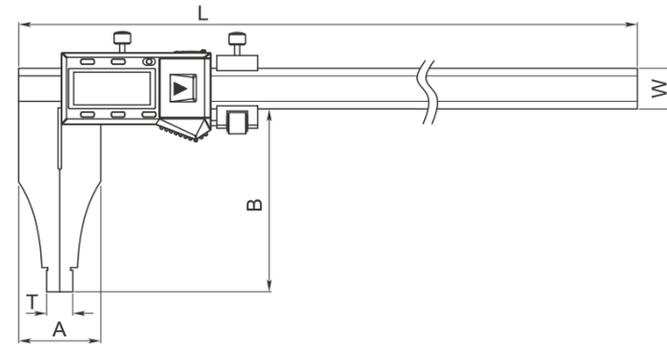
## IP54 WATER PROOF HEAVY DUTY DIGITAL CALIPER



### EUROPEAN STYLE

Unit:mm

Code	Range	Resolution	L	A	B	W	T	Accuracy
2220-8105	0-300/0-12"	0.01/0.0005"	445	40	90	20	10	0.04/0.002"
2220-8110	0-500/0-20"	0.01/0.0005"	670	52	150	24	20	0.05/0.002"
2220-8115	0-1000/0-40"	0.01/0.0005"	1210	60	150	30	20	0.06/0.0025"



- With sturdy frame and big size for high stability
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- With fine adjustment
- With Data-Output and Metric-Inch-Fraction Conversion function

### AMERICAN STYLE

Unit:mm

Code	Range	Resolution	L	A	B	W	T	Accuracy
2220-8113	0-300/0-12"	0.01/0.0005"	445	40	90	20	10(0.5")	0.04/0.002"
2220-8116	0-600/0-24"	0.01/0.0005"	770	44	100	24	20(0.8")	0.05/0.002"
2220-8119	0-1000/0-40"	0.01/0.0005"	1210	46	125	30	20(0.8")	0.06/0.0025"

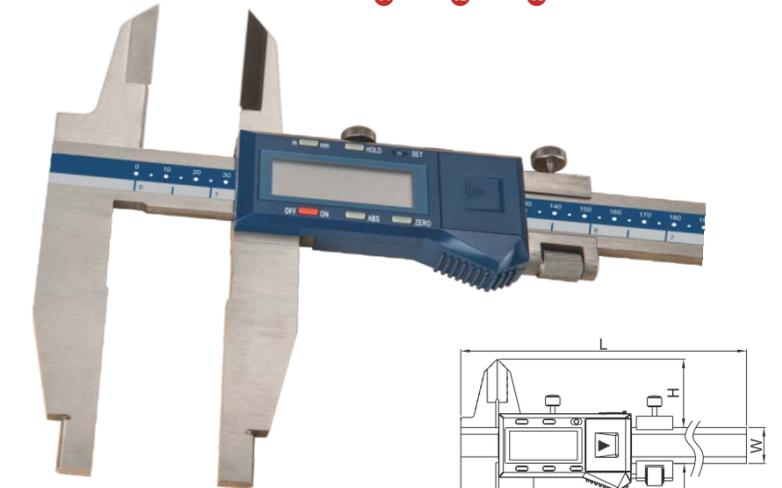
### WITH LARGE RANGE

Unit:mm

Code	Range	Resolution	L	A	B	W	T	Accuracy
2220-3575	0-1500/0-60"	0.01/0.0005"	1800	80	125	41.5/52	20	0.11/0.0045"
2220-3580	0-2000/0-80"	0.01/0.0005"	2300	80	150	41.5/52	20	0.14/0.0055"



## IP54 WATER PROOF HEAVY DUTY DIGITAL CALIPER WITH UPPER JAWS



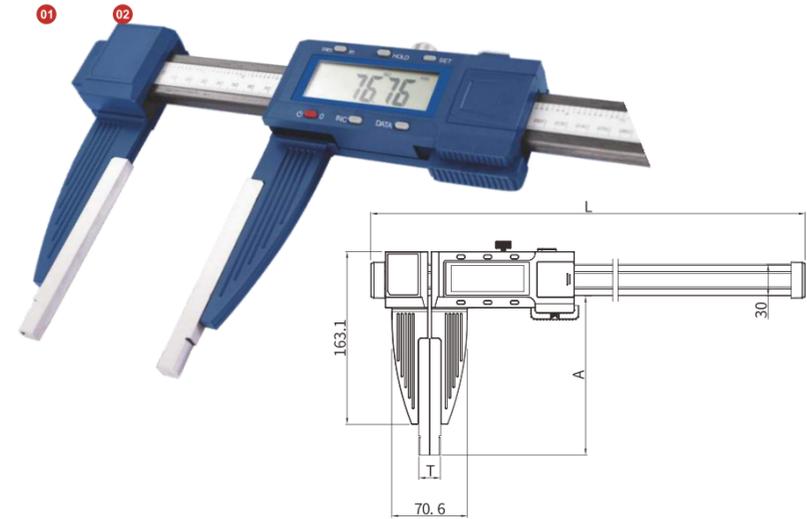
- With sturdy frame and big size for high stability
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- With fine adjustment
- With Data-Output and Metric-Inch Conversion function

Unit:mm

Code	Range	Resolution	L	A	B	W	T	H	Accuracy
2710-1105	0-300/0-12"	0.01/0.0005"	445	40	90	20	10	38	0.04/0.002"
2710-1110	0-500/0-20"	0.01/0.0005"	670	52	150	24	20	60	0.05/0.002"
2710-1113	0-600/0-24"	0.01/0.0005"	770	54	150	24	20	60	0.05/0.002"
2710-1115	0-1000/0-40"	0.01/0.0005"	1210	60	150	30	20	63	0.06/0.0025"

# IP65 WATER PROOF ULTRA-LIGHT GIANT CALIPER

MADE OF CARBON FIBER & WITH WIRELESS SYSTEM



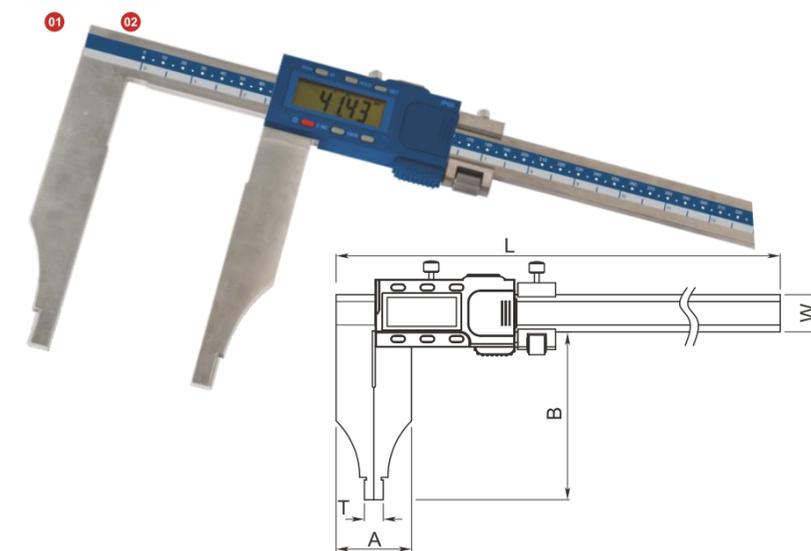
- Light weight digital calipers employing Carbon Fiber Reinforced Plastics in the beam and jaws
- Non-conductive and especially made for the electronic and sensitive purposes
- Made of carbon fiber, guaranteeing lower weight and portability
- Made of carbon fiber, the results rarely affected by temperature
- With Inductive measurement system
- IP65 protection against water
- With data output and wireless transmission function

Unit:mm

Code	Range	Resolution	A	T	L	Accuracy
2810-0003	0-600/0-24"	0.01/0.0005"	100	20(0.8")	770	0.05/0.002"
2810-0004	0-800/0-32"	0.01/0.0005"	150	20(0.8")	970	0.06/0.0025"
2810-0005	0-1000/0-40"	0.01/0.0005"	150	20(0.8")	1226	0.06/0.0025"
2810-0010	0-1500/0-60"	0.01/0.0005"	200	20(0.8")	1736	0.09/0.0035"
2810-0015	0-2000/0-80"	0.01/0.0005"	300	20(0.8")	2246	0.012/0.005"

# IP65 WATER PROOF HEAVY DUTY DIGITAL CALIPER

EUROPEAN STYLE

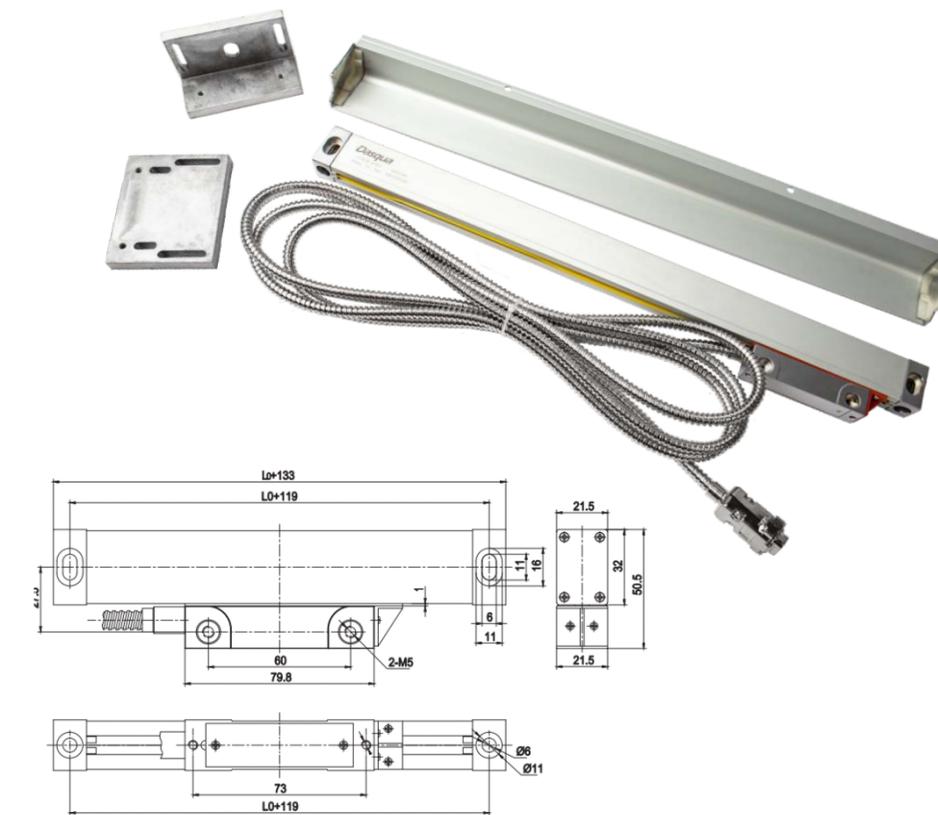


- With sturdy frame and big size for high stability
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- With fine adjustment
- With Data-Output and Metric-Inch-Fraction Conversion function
- IP65 protection against liquid
- **Product built-in wireless system is optional (Code: 2510-3115)**

Unit:mm

Code	Range	Resolution	L	A	B	W	T	Accuracy
2320-1105	0-300/0-12"	0.01/0.0005"	445	40	90	20	10	0.03/0.0015"
2320-1106	0-500/0-20"	0.01/0.0005"	670	52	150	24	20	0.05/0.002"
2320-1110	0-600/0-24"	0.01/0.0005"	770	44	100	24	20	0.05/0.002"
2320-1115	0-1000/0-40"	0.01/0.0005"	1210	60	150	30	20	0.06/0.0025"
2510-3115	0-1000/0-40"	0.01/0.0005"	1210	60	150	30	20	0.06/0.0025"

# LINEAR SCALES



- Vertical five bearings sliding system, smooth and accurate movement
- Calibrated by Laserinterferometer, accuracy guaranteed
- Full sealing structure, swarf and coolant proof
- Output Signal: 5VTTL, 5V Rs422
- Cross Section: 20.5\*31 mm
- Accuracy: ±5µ, ±10µm/M
- Working Temperature: -10°C-60°C
- Sealing Protection: Ip55
- Max. Moving Speed: 60M/Min
- Reference Point: Every 50mm

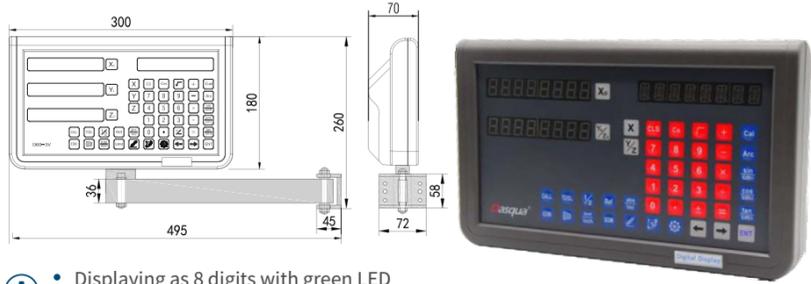
Unit:mm

Code	Range	Resolution	L0
5810-0150	150	0.005	150
5810-0200	200	0.005	200
5810-0250	250	0.005	250
5810-0300	300	0.005	300
5810-0350	350	0.005	350
5810-0400	400	0.005	400
5810-0450	450	0.005	450
5810-0500	500	0.005	500
5810-0550	550	0.005	550
5810-0600	600	0.005	600
5810-0650	650	0.005	650
5810-0700	700	0.005	700
5810-0750	750	0.005	750
5810-0800	800	0.005	800
5810-0850	850	0.005	850
5810-0900	900	0.005	900
5810-1000	1000	0.005	1000

Unit:mm

Standard Delivery		
Main unit		1pc
'L' shape suppor		1pc
tAnti-dust cover		1pc
Mounting accessories		1set

## DIGITAL READOUTS



- Displaying as 8 digits with green LED
- Aluminum casing with industrial quality
- Unique film makes covering on the Windows makes the displaying much more recognizable
- High integration makes the performance be stable
- Switching on& switching off can meet more than 100000 times
- Adopting the advanced digital filtering makes the counting be more accurate and stable

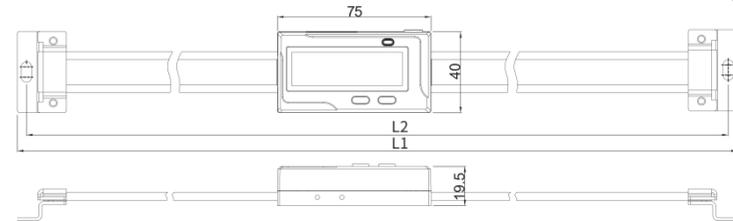
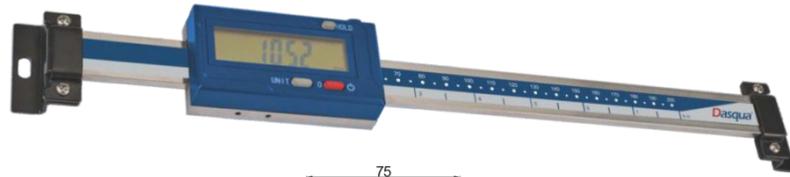
Unit:mm

Code	5810-0005	5810-0010
<b>Application</b>	Two axis	Three axis
<b>Scale input ports</b>	2	3
<b>Resolution</b>	0.1µm, 0.2µm, 0.5µm, 1µm, 2µm, 2.5µm, 5µm, 10µm	
<b>Function</b>	Zeroing, Data Recovery, Value Inputting, Metric and Imperial Switching, Power off memory, Encoder Selection(Rotary or Linear), Linear Compensation, Non-linear Compensation, Calculator, Counting Direction Setting, ABS/INC Coordinate, 200 sets of SDM Coordinates, REF Centering, PLD Function, PCD Function, Simple R function, Smooth R Function, Radius/Diameter switching, Axis summing, Digital Filtering Function, Taper Measuring Function, RS232 Interface, EDM Function, 200 sets of Tool Memory.	
<b>Power supply</b>	AC80V-260V/50HZ-60HZ	
<b>Working Temperature</b>	-10°C~60°C	
<b>Input Signal</b>	5V TTL/RS422	
<b>Input Frequency</b>	<4MHZ	

Unit:mm

Standard Delivery	
<b>Main Unit</b>	1pc
<b>Mounting bracket</b>	1pc
<b>Ground cable</b>	1pc

## IP67 WATER PROOF DIGITAL SCALE



- Used for improving the old-style machines
- Made of solid stainless steel, widened and thickened
- IP67 protection against liquid
- Super large LCD screen for easy reading
- With Hold and Metric-Inch-Fraction Conversion function, no need to set the reference point at every power-on

Unit:mm

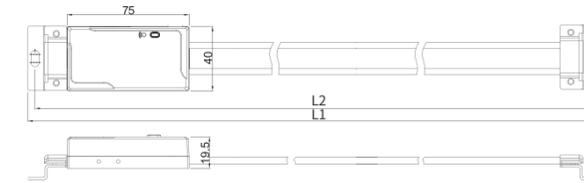
Code	Range	Resolution	L1	L2	Accuracy
5810-3105	0-150/0-6"	0.01/0.0005"	286	277	0.02/0.001"
5810-3110	0-200/0-8"	0.01/0.0005"	326	317	0.03/0.0015"
5810-3115	0-300/0-12"	0.01/0.0005"	426	417	0.03/0.0015"
5810-3120	0-600/0-24"	0.01/0.0005"	746	737	0.05/0.005"
5810-3125	0-1000/0-40"	0.01/0.0005"	1146	1137	0.05/0.0025"

### WITH WIRELESS SYSTEM

Unit:mm

Code	Range	Resolution	L1	L2	Accuracy
5810-7105	0-150/0-6"	0.01/0.0005"	286	277	0.02/0.001"
5810-7110	0-200/0-8"	0.01/0.0005"	326	317	0.03/0.0015"
5810-7115	0-300/0-12"	0.01/0.0005"	426	417	0.03/0.0015"
5810-7120	0-600/0-24"	0.01/0.0005"	746	737	0.05/0.005"
5810-7125	0-1000/0-40"	0.01/0.0005"	1146	1137	0.05/0.0025"

## IP54 WATER PROOF DIGITAL SCALE WITH SEPARATE READOUT

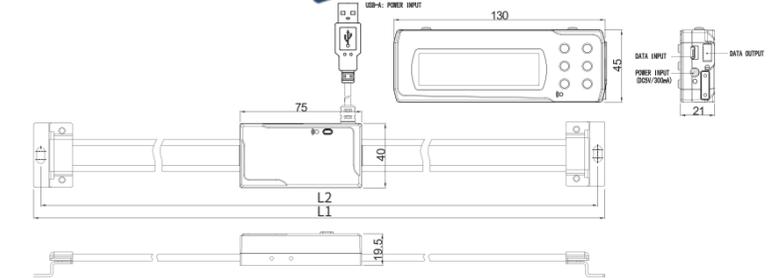


- Used for improving the old-style machine
- Made of solid stainless steel, widened and thickened
- IP54 protection against liquid
- Super large separate LCD screen for easy and clear reading
- With Hold, Metric-Inch-Fraction Conversion and Absolute function, no need to set the reference point at every power-on

Unit:mm

Code	Range	Resolution	L1	L2	Accuracy
5810-4405	0-150/0-6"	0.01/0.0005"	286	277	0.02/0.001"
5810-4410	0-200/0-8"	0.01/0.0005"	326	317	0.03/0.0015"
5810-4415	0-300/0-12"	0.01/0.0005"	426	417	0.03/0.0015"
5810-4420	0-600/0-24"	0.01/0.0005"	746	737	0.05/0.002"
5810-4425	0-1000/0-40"	0.01/0.0005"	1146	1137	0.06/0.0025"

## IP67 WATER PROOF DIGITAL SCALE WITH SEPARATE READOUT



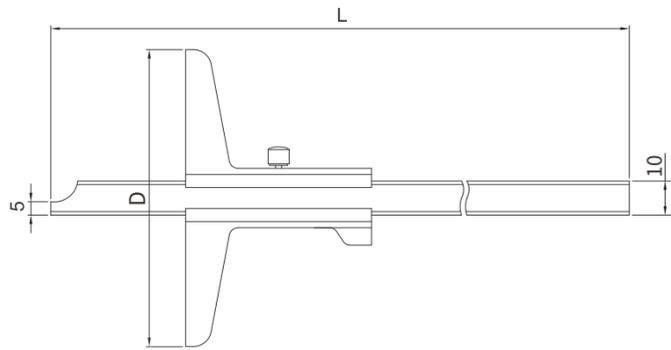
- Used for improving the old-style machine
- Made of solid stainless steel, widened and thickened
- IP67 protection against liquid
- Super large separate LCD screen for easy and clear reading
- With Hold, Metric-Inch-Fraction Conversion and Absolute function, no need to set the reference point at every power-on

Unit:mm

Code	Range	Resolution	L1	L2	Accuracy
5810-1105	0-150/0-6"	0.01/0.0005"	286	277	0.02/0.001"
5810-1110	0-200/0-8"	0.01/0.0005"	326	317	0.03/0.0015"
5810-1115	0-300/0-12"	0.01/0.0005"	426	417	0.03/0.0015"
5810-1120	0-600/0-24"	0.01/0.0005"	746	737	0.05/0.002"
5810-1125	0-1000/0-40"	0.01/0.0005"	1146	1137	0.06/0.0025"

# MONOBLOCK DEPTH VERNIER GAUGE

**DIN 862**



- Hardened ground jaws with precision lapped measuring faces
- Satin chrome finish, hardened stainless steel throughout for longer life
- Distinct lines and figures etched against satin chrome finish

Unit:mm

Code	Range	Graduation	L	D	Accuracy
3001-1901-A	0-150	0.02	250	100	±0.03
3001-1903-A	0-200	0.02	300	100	±0.03
3001-1905-A	0-300	0.02	400	100	±0.04
3001-2901-A	0-6"	0.0001"	250	100	±0.03
3001-2903-A	0-8"	0.0001"	300	100	±0.03
3001-2905-A	0-12"	0.0001"	400	100	±0.04

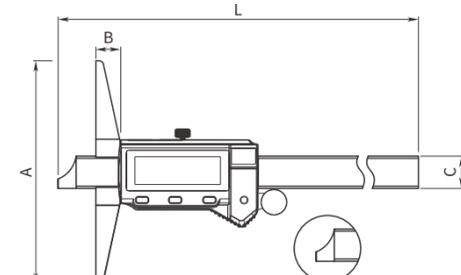
# DIGITAL DEPTH CALIPER

Battery + CR2032  
**DIN 862**  
mm/in/F



- 2103-1005  
IP54 Water Proof

- Used to measure step and depth
- Made of solid stainless steel, widened and thickened
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life



- 2001-2005

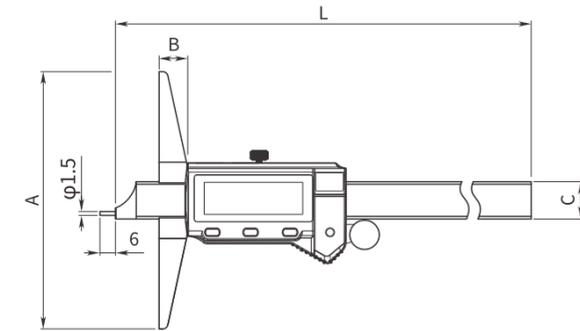
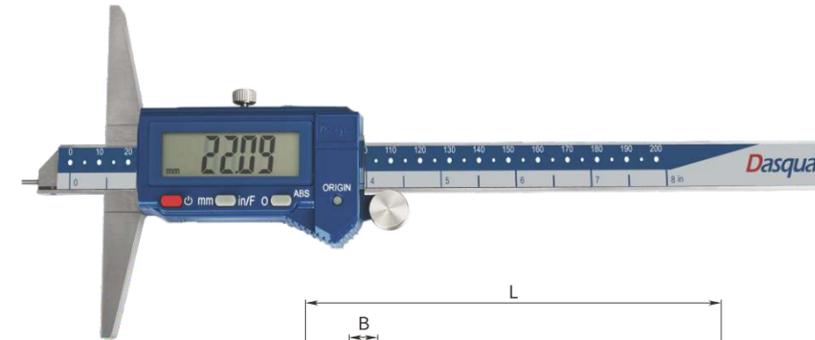
Unit:mm

Code	Range	Resolution	Style	Accuracy
2001-2005	0-150/0-6"	0.01/0.005"		±0.03
2001-2010	0-200/0-8"	0.01/0.005"		±0.03
2001-2015	0-300/0-12"	0.01/0.005"		±0.04
2103-1005	0-150/0-6"	0.01/0.005"	IP54 Water Proof	±0.03
2103-1010	0-200/0-8"	0.01/0.005"	IP54 Water Proof	±0.03
2103-1015	0-300/0-12"	0.01/0.005"	IP54 Water Proof	±0.04
2230-8105	0-150/0-6"	0.01/0.005"	Absolute & IP54 Water Proof	±0.03
2230-8115	0-200/0-8"	0.01/0.005"	Absolute & IP54 Water Proof	±0.03
2230-8125	0-300/0-12"	0.01/0.005"	Absolute & IP54 Water Proof	±0.04
2330-1105	0-150/0-6"	0.01/0.005"	IP67 Water Proof	±0.03
2330-1110	0-200/0-8"	0.01/0.005"	IP67 Water Proof	±0.03
2330-1115	0-300/0-12"	0.01/0.005"	IP67 Water Proof	±0.04
2330-3105	0-150/0-6"	0.01/0.005"	IP67 Water Proof & Wireless Data Transfer	±0.03
2330-3110	0-200/0-8"	0.01/0.005"	IP67 Water Proof & Wireless Data Transfer	±0.03
2330-3115	0-300/0-12"	0.01/0.005"	IP67 Water Proof & Wireless Data Transfer	±0.04

# DIGITAL DEPTH CALIPER

WITH BAR

Battery + CR2032  
**DIN 862**  
mm/in/F  
Data output



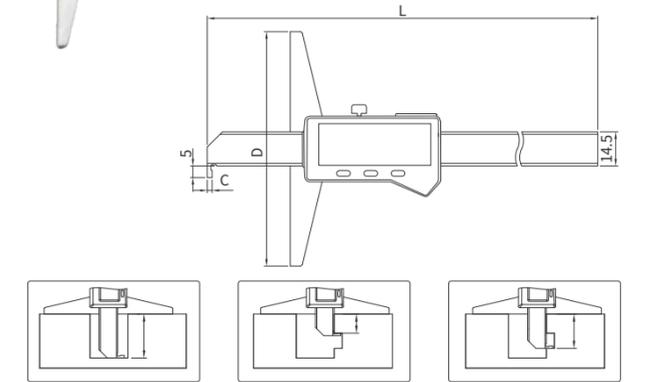
Unit:mm

Code	Range	Resolution	Style	Accuracy
2250-2105	0-150/0-6"	0.01/0.005"	Absolute & IP54 Water Proof	±0.03
2250-2110	0-200/0-8"	0.01/0.005"	Absolute & IP54 Water Proof	±0.03
2250-2115	0-300/0-12"	0.01/0.005"	Absolute & IP54 Water Proof	±0.04
2460-1105	0-150/0-6"	0.01/0.005"	IP67 Water Proof	±0.03
2460-1110	0-200/0-8"	0.01/0.005"	IP67 Water Proof	±0.03
2460-1115	0-300/0-12"	0.01/0.005"	IP67 Water Proof	±0.04
2460-3105	0-150/0-6"	0.01/0.005"	IP67 Water Proof & Wireless Data Transfer	±0.03
2460-3110	0-200/0-8"	0.01/0.005"	IP67 Water Proof & Wireless Data Transfer	±0.03
2460-3115	0-300/0-12"	0.01/0.005"	IP67 Water Proof & Wireless Data Transfer	±0.04

# DIGITAL DEPTH CALIPER

WITH HOOK

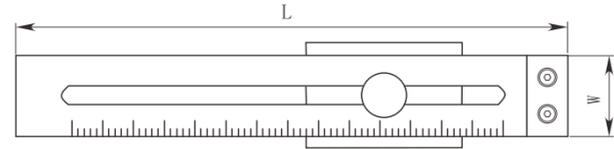
Battery + CR2032  
**DIN 862**  
mm/in/F  
Data output



Unit:mm

Code	Range	Resolution	Style	Accuracy
2001-1005	0-150/0-6"	0.01/0.005"		±0.03
2001-1010	0-200/0-8"	0.01/0.005"		±0.03
2001-1015	0-300/0-12"	0.01/0.005"		±0.04
2103-2005	0-150/0-6"	0.01/0.005"	IP65 Water Proof	±0.03
2103-2010	0-200/0-8"	0.01/0.005"	IP65 Water Proof	±0.03
2103-2015	0-300/0-12"	0.01/0.005"	IP65 Water Proof	±0.04

## MARKING GAUGE

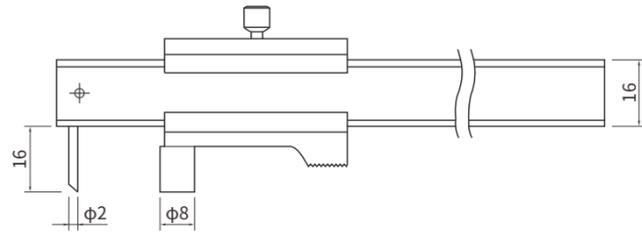


- Perfect tool for engineers, craft persons, model makers for a variety of marking out jobs
- Made of high quality steel
- Stress-relieved and precision ground in pairs
- Distinct lines and figures laser etched on beam

Unit:mm

Code	Range	Graduation	Accuracy	L	W
9241-3105	0-200	0.1	±0.1	250	40
9241-3110	0-250	0.1	±0.1	300	40
9241-3115	0-300	0.1	±0.1	350	40

## SCRIBING CALIPER

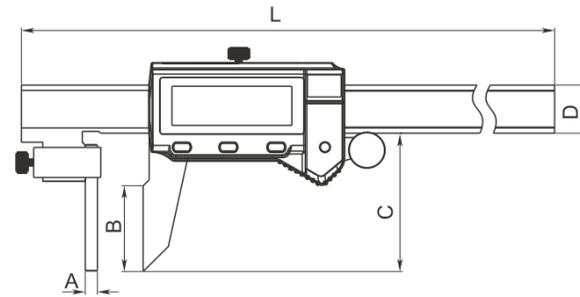


- Distinct lines and figures laser etched on beam
- Used to measure outside diameter, inside diameter, step, depth measurement and also for scribing
- Made of high quality stainless steel
- Carbide tipped measuring faces making scribing clear

Unit:mm

Code	Range	Graduation	Accuracy
2805-0005	0-200/0-8"	0.1/1/128"	±0.1

## DIGITAL TUBE THICKNESS CALIPER

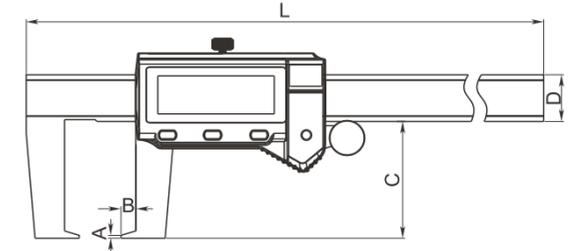


- Used to measure tube thickness
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- IP54 protection against liquid
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2060-1105	0-150/0-6"	0.01/0.0005"/ 1/128"	φ4	28.5	46	16	250	0.03/0.0015"
2060-1110	0-200/0-8"	0.01/0.0005"/ 1/128"	φ4	32.5	50	16	300	0.03/0.0015"
2060-1115	0-300/0-12"	0.01/0.0005"/ 1/128"	φ4	48.5	66	16	400	0.04/0.0015"

## DIGITAL OUTSIDE NECK CALIPER



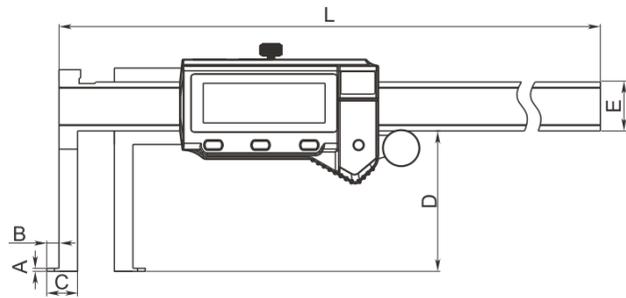
- Used to measure outside grooves
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- IP54 protection against liquid
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2065-1105	0-150/0-6"	0.01/0.0005"/ 1/128"	1	5	40	16	250	0.03/0.0015"
2065-1110	0-200/0-8"	0.01/0.0005"/ 1/128"	1	7	50	16	300	0.03/0.0015"
2065-1115	0-300/0-12"	0.01/0.0005"/ 1/128"	1.5	8	60	16	405	0.04/0.0015"

## DIGITAL INSIDE GROOVE MEASURING CALIPER

DIN 862 Battery + CR2032 mm/in IP67 COOLANT & FLUID RESISTANT



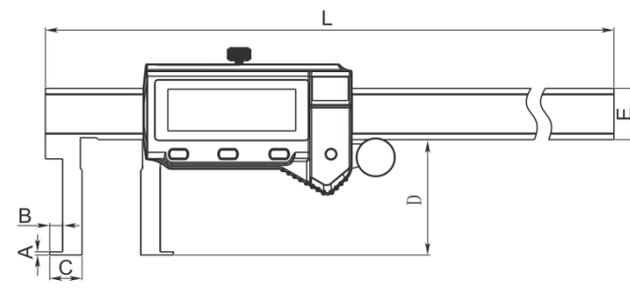
- Used to measure inside grooves
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- IP67 protection against liquid
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Unit:mm

Code	Range	Resolution	A	B	C	D	E	L	Accuracy
2570-5105	10-150/0.39-6"	0.01/0.0005"	1	4	10	46	16	235	0.03/0.0015"
2570-5110	11-200/0.43-8"	0.01/0.0005"	1	5	11	56	16	287	0.03/0.0015"
2570-5115	12-300/0.47-12"	0.01/0.0005"	1.5	5	12	66	16	390	0.04/0.0015"

## DIGITAL INSIDE NECK CALIPER

DIN 862 Battery + CR2032 mm/in IP67 COOLANT & FLUID RESISTANT



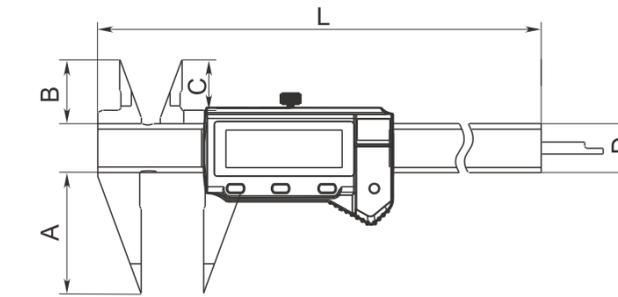
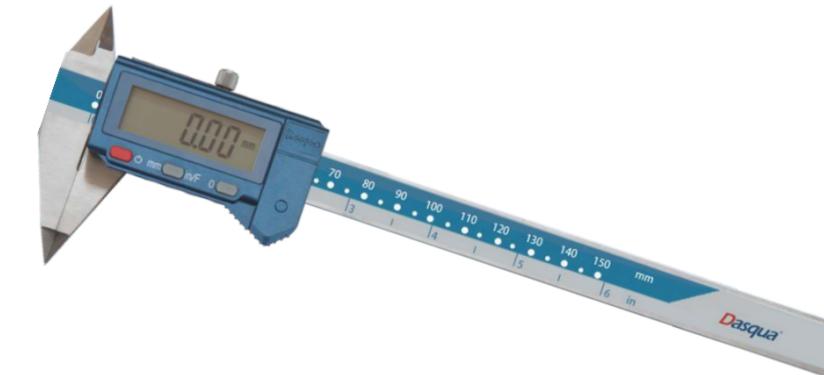
- Used to measure inside grooves
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- IP67 protection against liquid
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Unit:mm

Code	Range	Resolution	A	B	C	D	E	L	Accuracy
2580-5105	20-150/0.787-6"	0.01/0.0005"	1	4	10	36	16	235	0.03/0.0015"
2580-5110	25-200/0.984-8"	0.01/0.0005"	1	5	12.5	46	16	287	0.03/0.0015"
2580-5115	30-300/1.181-12"	0.01/0.0005"	1.5	5	15	56	16	390	0.04/0.0015"

## DIGITAL POINT CALIPER

DIN 862 Battery + CR2032 mm/in IP54 COOLANT & FLUID RESISTANT



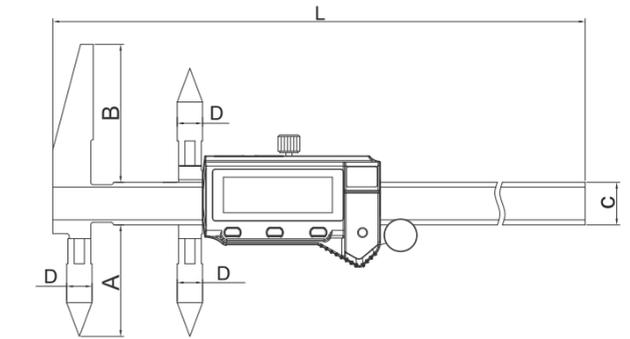
- The narrow pointed jaws fit into very small grooves and tracks, making many previously difficult outside measurements far easier to obtain
- Strictly made in accordance with DIN862
- With depth bar

Unit:mm

Code	Range	Resolution	A	B	C	D	L	Accuracy
2090-0010	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.4	16	235	0.03/0.0015"

## DIGITAL CENTERLINE & APOTHEM CALIPER

Battery + CR2032 mm/in IP67 COOLANT & FLUID RESISTANT

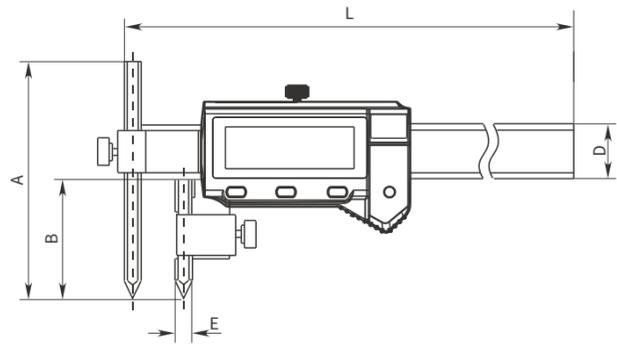


- Specially designed to measure distances between centers on the same and offset planes
- Can preset the size of measuring anvil

Unit:mm

Code	Apothem Range	Centerline Range	Resolution	A	B	C	D	L	Accuracy
2130-1005	5-300	10-300	0.01/0.0005"	44.5	55	17	φ10	410	±0.08
2130-1010	10-500	20-500	0.01/0.0005"	40	50	24	φ20	690	±0.09

## DIGITAL CENTERLINE CALIPER

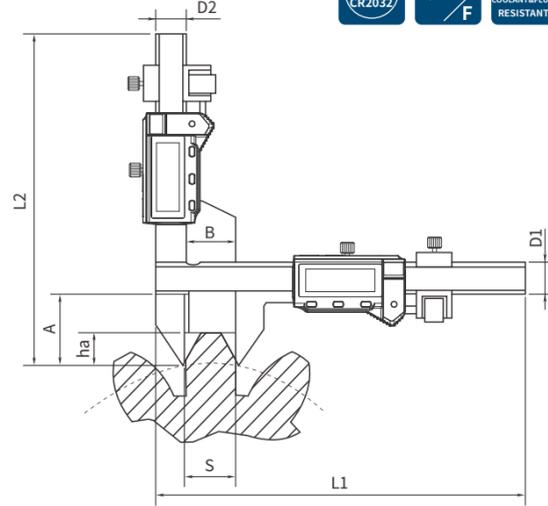
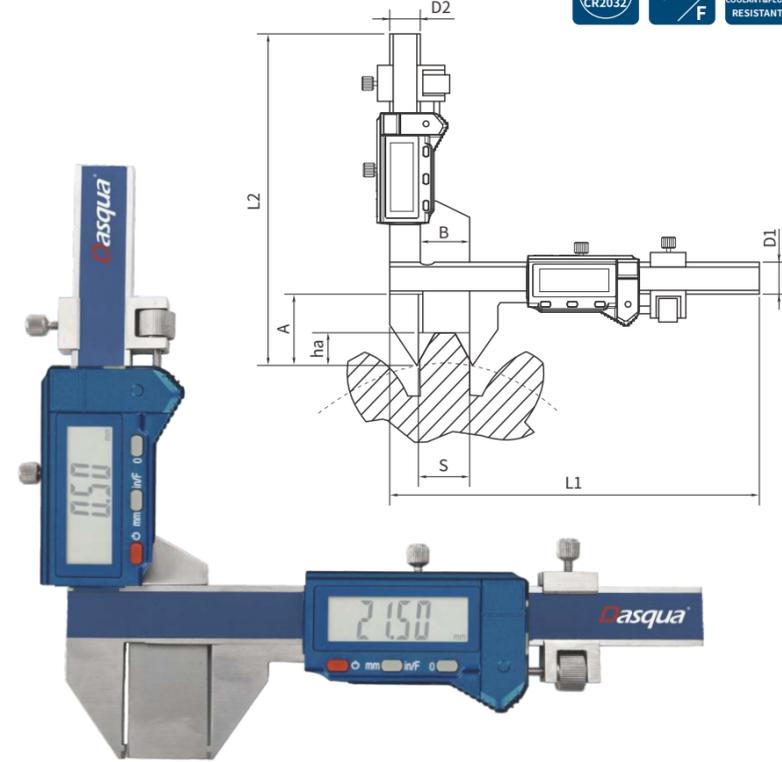


- Used to measure the center distance between two holes
- Can preset the size of measuring anvil
- The conical points can be adjusted up or down to measure the center distance between two holes on different heights.
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth throughout
- Made of high quality stainless steel

Unit:mm

Code	Range	Resolution	A	B	D	E	L	Accuracy
2730-3105	5-150	0.01/0.0005"	65	32	16	φ5	236	±0.05
2730-3110	5-200	0.01/0.0005"	65	32	16	φ5	286	±0.07
2730-3115	5-300	0.01/0.0005"	65	32	16	φ5	396	±0.09

## DIGITAL TOOTH-THICKNESS CALIPER

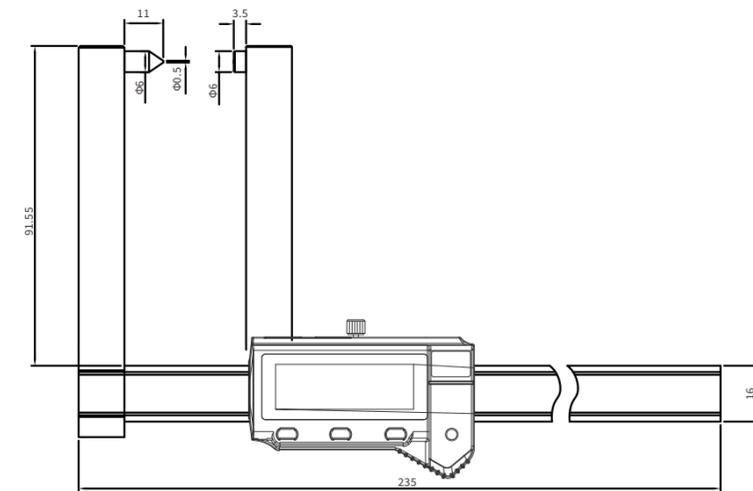


- Used for measuring gear thickness
- Made of high quality stainless steel
- LCD display with clear reading
- With fixing screw and fine adjustment on both sides
- Zero setting at any position

Unit:mm

Code	Range	Resolution	L1	L2	A	B	D1	D2	Accuracy
2075-1105	M1-25	0.01/0.0005"/1/128"	170	165	30.5	21	16	16	±0.04
2075-1110	M5-50	0.01/0.0005"/1/128"	220	190	55	50.5	16	16	±0.04

## DIGITAL DISK-BRAKE CALIPER

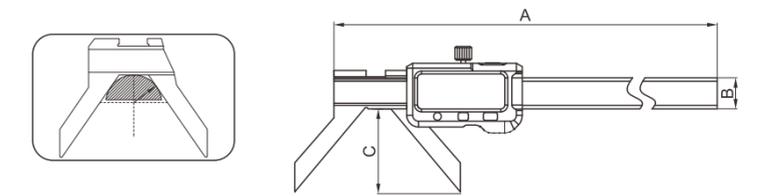


- Fast and easy measurement of the brake disc thickness
- Made of high quality stainless steel
- LCD display with clear reading
- Zero setting at any position, mm/inch conversion at any position

Unit:mm

Code	Range	Resolution	L(mm)	Accuracy
2240-0006	0-150/0-6"	0.01/0.0005"	235	0.05mm/0.002"

## DIGITAL ARC-RADIUS CALIPER



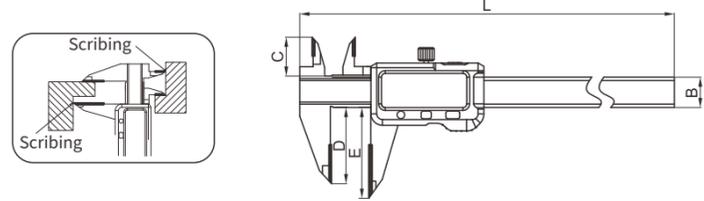
- Used to measure non-full-round arc
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Unit:mm

Code	Range	Resolution	A	B	C	Accuracy
2100-0215	3-150	0.01/0.0005	288	16	65	0.06/0.0025"

## DIGITAL CALIPER

WITH ROUND DEPTH BAR



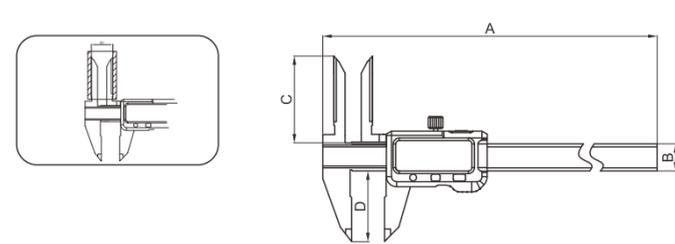
- Carbide tipped measuring faces for easier making scribing and ensuring a  
• brasive resistance
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- **Measuring surfaces ground for ultimate accuracy and smooth movement throughout**

Unit:mm

Code	Range	Resolution	A	B	C	D	E	Accuracy
2100-0015	0-150/0-6"	0.01/0.0005"	236	16	20	30	40	0.02/0.001"
2100-0020	0-200/0-8"	0.01/0.0005"	286	16	24	40	50	0.03/0.0015"
2100-0030	0-300/0-12"	0.01/0.0005"	400	17	26	50	60	0.04/0.0015"

## DIGITAL CALIPER

WITH LONG UPPER JAWS



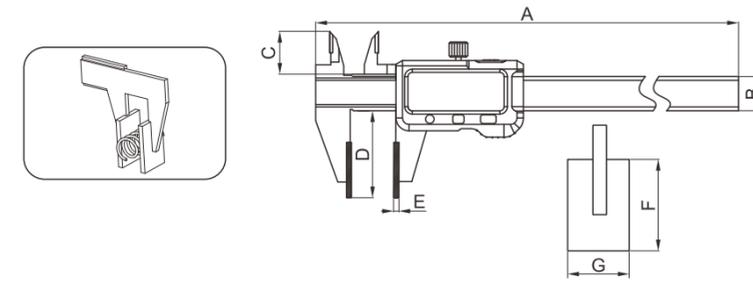
- Made of solid stainless steel
- Long upper jaws for measuring diameter of deep holes
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- **Measuring surfaces ground for ultimate accuracy and smooth movement throughout**

Unit:mm

Code	Range	Resolution	A	B	C	D	E	Accuracy
2100-0615	0-150/0-6"	0.01/0.0005"	235	16	44	30	40	0.04/0.0015"
2100-0620	0-200/0-8"	0.01/0.0005"	285	16	44	40	50	0.04/0.0015"
2100-0630	0-300/0-12"	0.01/0.0005"	400	17	44	50	60	0.05/0.002"

## DIGITAL CALIPER

WITH LARGE MEASURING FACE



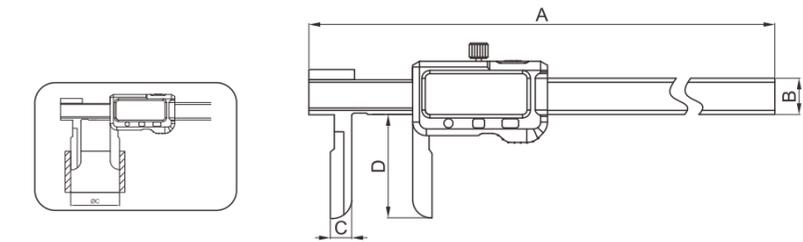
- Measure diameter of wire ropes and thickness of soft materials like rubbers, ponge, etc
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- **Measuring surfaces ground for ultimate accuracy and smooth movement throughout**

Unit:mm

Code	Range	Resolution	A	B	C	D	E	F	G	Accuracy
2100-0115	0-150/0-6"	0.01/0.0005"	236	16	20	40	4	30	20	0.03/0.0015"
2100-0120	0-200/0-8"	0.01/0.0005"	286	16	24	40	4	30	20	0.04/0.0015"
2100-0130	0-300/0-12"	0.01/0.0005"	400	17	26	40	4	30	20	0.05/0.002"

## DIGITAL CALIPER

WITH LONG LOWER JAWS



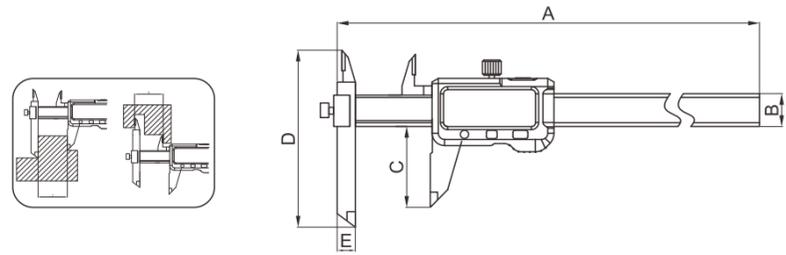
- Long jaws for measuring diameter of deep holes
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- **Measuring surfaces ground for ultimate accuracy and smooth movement throughout**

Unit:mm

Code	Range	Resolution	A	B	C	D	Accuracy
2100-1615	15-150	0.01/0.0005"	250	16	12	60	0.03/0.0015"
2100-1620	18-200	0.01/0.0005"	305	16	14	75	0.05/0.002"
2100-1630	20-300	0.01/0.0005"	410	16	14	90	0.06/0.0025"

## DIGITAL OFFSET CALIPER

Battery + CR2032  
**DIN 862**  
 mm / in  
 Data output



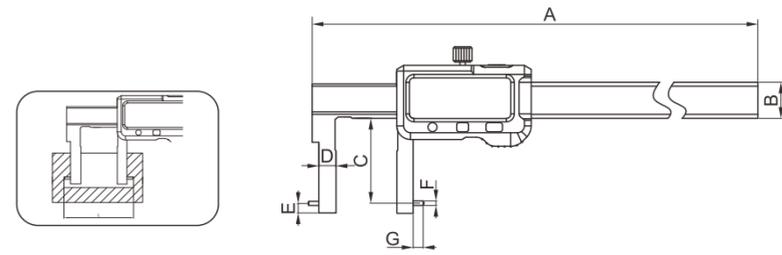
- The left jaw can slide up and down to facilitate measurement of stepped sections
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Unit:mm

Code	Range	Resolution	A	B	C	D	E	Accuracy
2100-1015	0-150/0-6"	0.01/0.0005"	239	16	40	110	10	0.04/0.0015"
2100-1020	0-200/0-8"	0.01/0.0005"	289	16	50	120	10	0.04/0.0015"
2100-1030	0-300/0-12"	0.01/0.0005"	389	16	60	130	10	0.05/0.002"

## DIGITAL INSIDE POINT CALIPER

Battery + CR2032  
**DIN 862**  
 mm / in  
 Data output



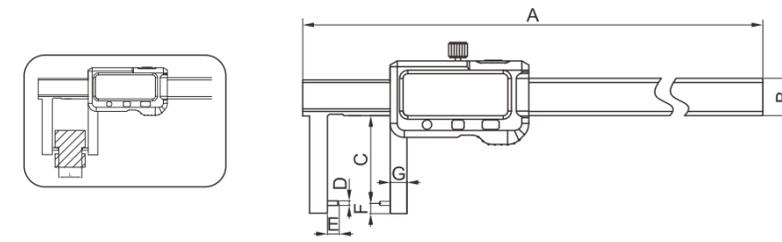
- Measure groove diameter
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Unit:mm

Code	Range	Resolution	A	B	C	D	E	F	G	Accuracy
2100-1115	24-150	0.01/0.0005"	250	16	40	7	3	2	5	0.04/0.0015"
2100-1120	25-200	0.01/0.0005"	310	16	50	7.5	3	2	5	0.04/0.0015"
2100-1130	30-300	0.01/0.0005"	410	16	60	10	3	2	5	0.05/0.002"

## DIGITAL OUTSIDE POINT CALIPER

Battery + CR2032  
**DIN 862**  
 mm / in  
 Data output



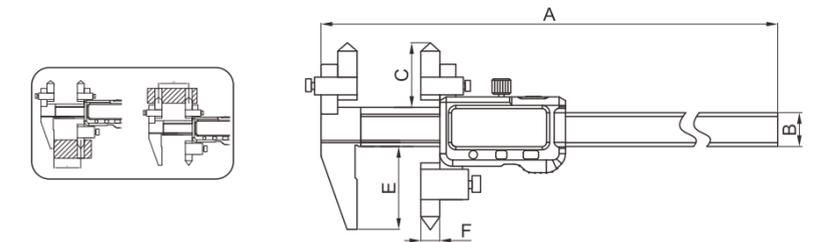
- Measure outside groove diameter
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Unit:mm

Code	Range	Resolution	A	B	C	D	E	F	G	Accuracy
2100-1215	0-150/0-6"	0.01/0.0005"	250	16	40	2	5	2	10	0.03/0.0015"
2100-1220	0-200/0-8"	0.01/0.0005"	310	16	50	2.5	8	2	12	0.04/0.0015"
2100-1230	0-300/0-12"	0.01/0.0005"	410	16	60	2.5	10	2	17	0.04/0.0015"

## DIGITAL APOTHEM CENTERLINE CALIPERS

Battery + CR2032  
**DIN 862**  
 mm / in  
 Data output

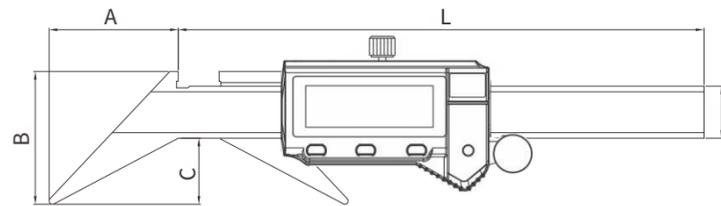


- Measure the distance between two holes or edge to hole
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Unit:mm

Code	Range	Resolution	A	B	C	E	F	Accuracy
2100-1315	5-150	0.01/0.0005"	236	16	29	50	5	0.03/0.0015"
2101-1315	10-150	0.01/0.0005"	236	16	35	50	10	0.03/0.0015"
2100-1320	5-200	0.01/0.0005"	285	16	29	50	5	0.04/0.0015"
2101-1320	10-200	0.01/0.0005"	285	16	35	50	10	0.04/0.0015"
2100-1330	5-300	0.01/0.0005"	385	16	29	50	5	0.05/0.002"
2101-1330	10-300	0.01/0.0005"	385	16	35	50	10	0.05/0.002"

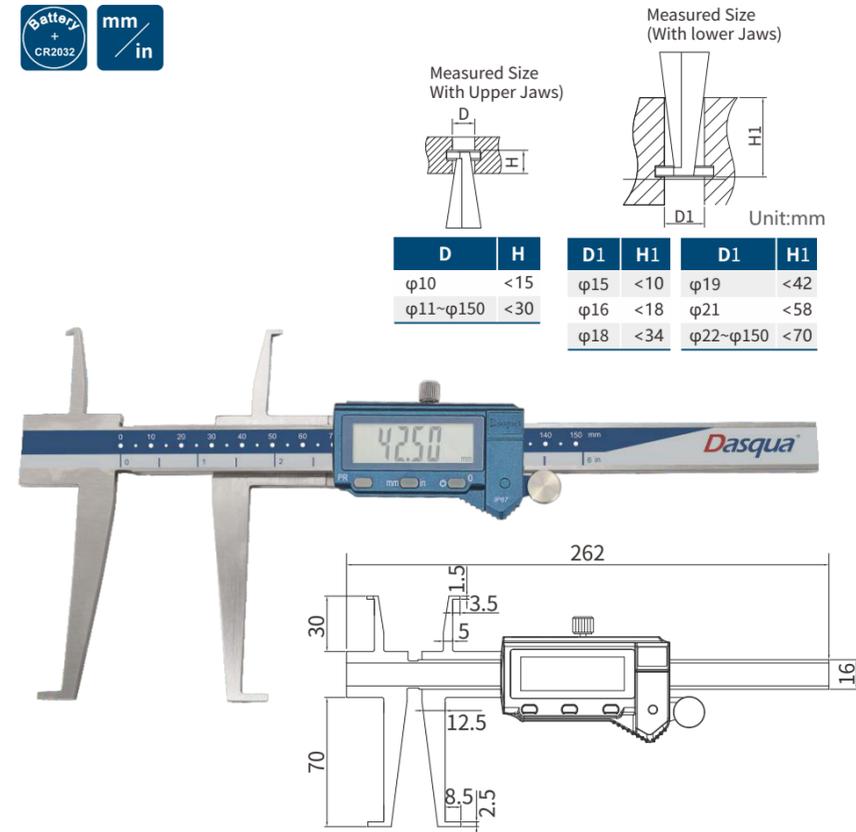
## DIGITAL ARC-RADIUS CALIPER



- Used to measure non-full-round arc
- Made of solid stainless steel
- IP54 protection against liquid
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Unit:mm							
Code	Range	Resolution	A	B	C	L	Accuracy
2240-4005	3-150	0.01/0.0005"/1/128"	39.3	40.8	20.3	160	±0.1
2240-4010	3-300	0.01/0.0005"/1/128"	76.8	60.8	40.3	242	±0.2

## DIGITAL INSIDE GROOVE MEASURING CALIPER



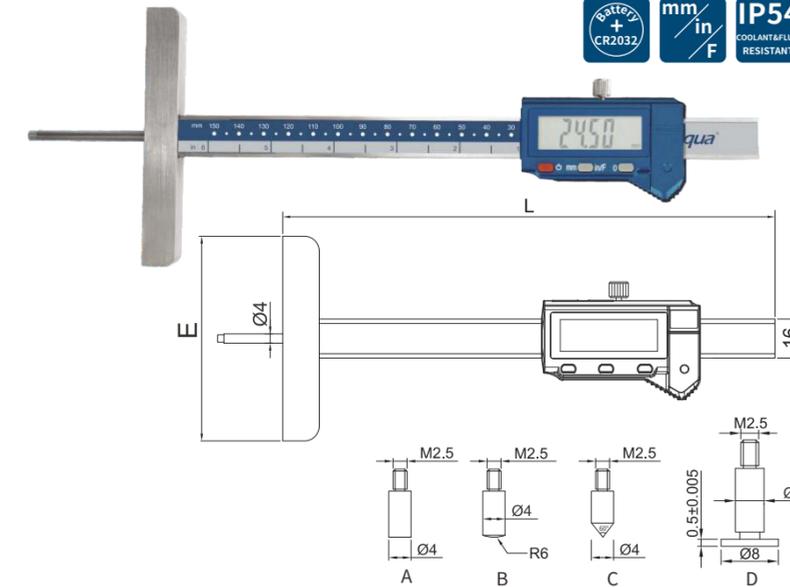
D	H	D1	H1	D1	H1
φ10	<15	φ15	<10	φ19	<42
φ11~φ150	<30	φ16	<18	φ21	<58
		φ18	<34	φ22~φ150	<70

Unit:mm

- Used for measuring diameter of grooves inside bores
- Automatic power off
- Made of high quality stainless steel

Unit:mm				
Code	Range of upper jaw	Range of lower jaw	Resolution	Accuracy
2240-0025	10-150/0.39-6"	15-150/0.59-6"	0.01/0.0005"	±0.04
2240-0026	10-200/0.39-8"	15-200/0.59-8"	0.01/0.0005"	±0.04
2240-0027	10-300/0.39-12"	15-300/0.59-12"	0.01/0.0005"	±0.05

## DIGITAL DEPTH GAUGE WITH ROUND DEPTH BAR



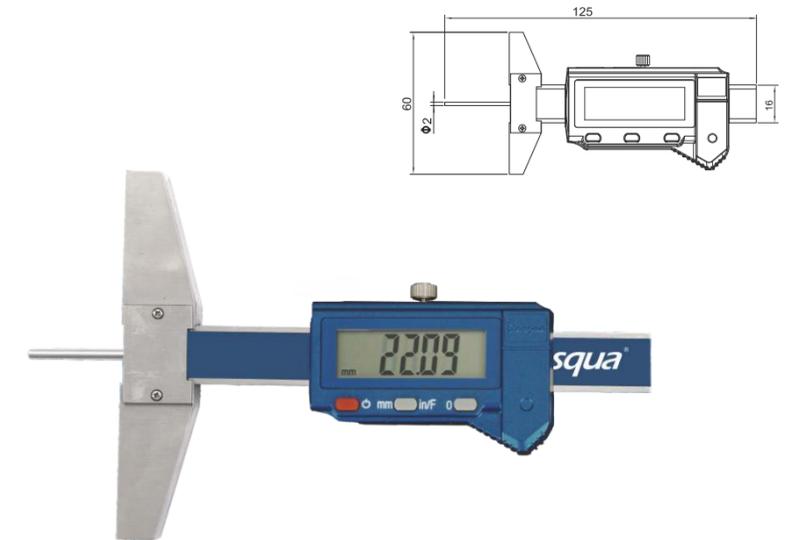
Remark: 4 types of contact points optional

Code	Description	Remark
2730-0050	Spare Parts for Digital Depth Gauge	Type D, Disc Type, Standard accessory
2730-0055	Spare Parts for Digital Depth Gauge	Type A, Flat Type
2730-0060	Spare Parts for Digital Depth Gauge	Type B, Spherical Type
2730-0065	Spare Parts for Digital Depth Gauge	Type C, point Type

- Specially designed for narrow bore depth
- With thin and long depth measuring bar
- Pointed contact, flat contact or spherical contact is optional.
- Made of high quality stainless steel
- Zero setting at any position

Unit:mm					
Code	Range	Resolution	L	E	Accuracy
2730-0030	0-150/0-6"	0.01/0.0005"/1/128"	230	101	±0.03
2730-0020	0-200/0-8"	0.01/0.0005"/1/128"	280	101	±0.03
2730-0025	0-300/0-12"	0.01/0.0005"/1/128"	330	101	±0.04

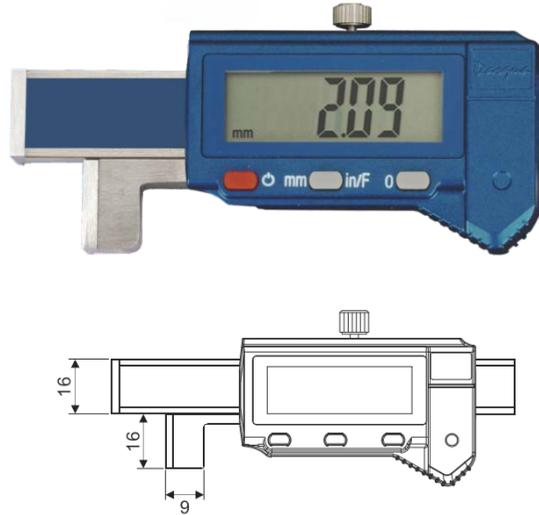
## MINI DIGITAL DEPTH GAUGE



- Used to measure depth of small groove and hole, also to measure depth of tire
- With thin and long depth measuring bar
- Zero setting at any position
- Made of high quality stainless steel

Unit:mm			
Code	Range	Resolution	Accuracy
2240-0030	0-30/0-1.2"	0.01/0.0005"/1/128"	±0.02

## DIGITAL STEP & GAP GAUGE

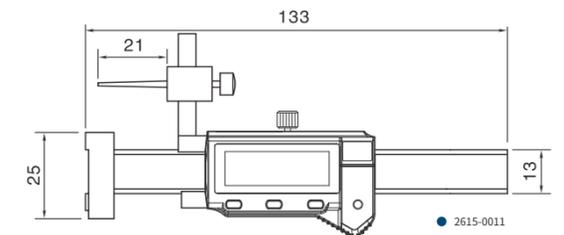
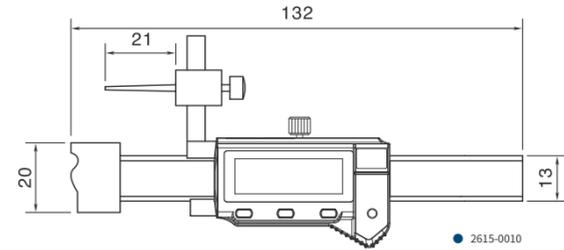


- Used for checking the mutual position of two adjacent surfaces of vehicle
- Can measure the gap between two adjacent surfaces
- Portable and easy to operate

Code	Range	Resolution	Accuracy
2615-0005	0-12.7	0.01/0.0005"/1/128"	±0.03

Unit:mm

## DIGITAL STEP & GAP GAUGE

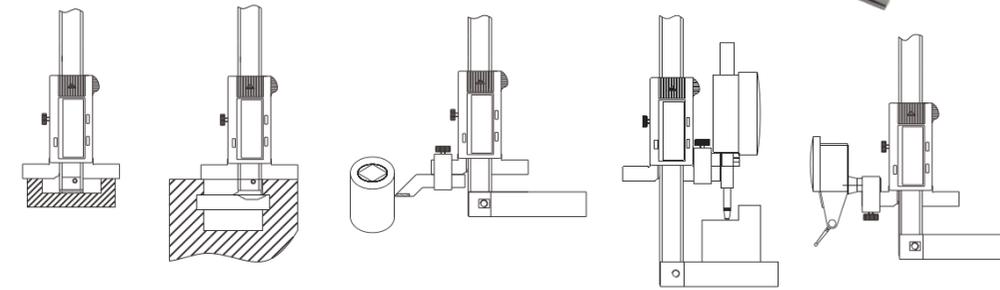
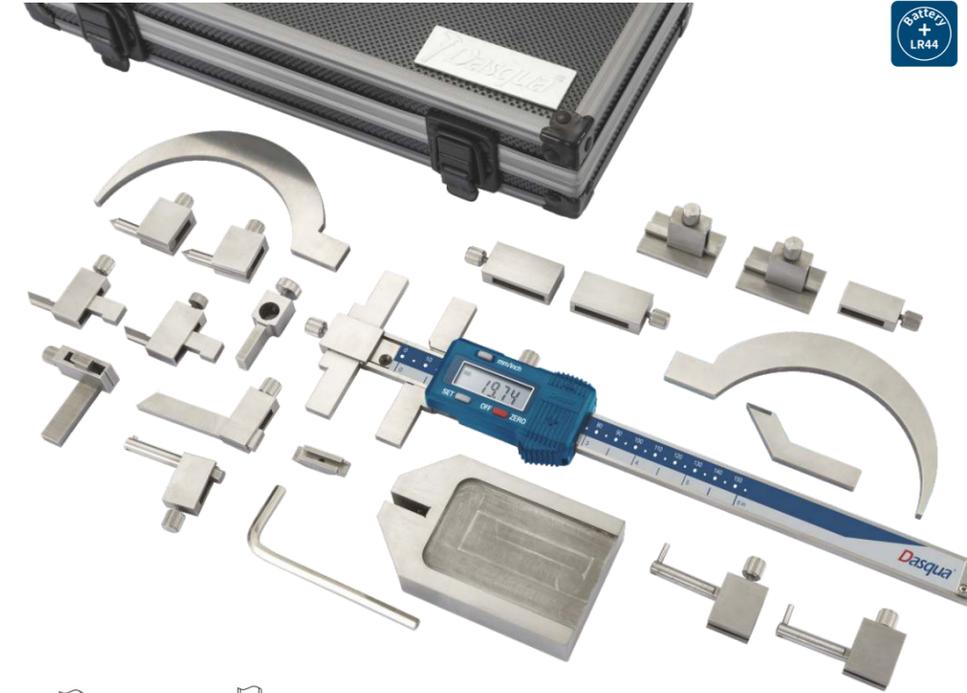


- Digital step gauge, also known as high and low gauges
- Used for checking the mutual position of two adjacent surfaces of vehicles
- Zero setting at any position

Code	Range	Resolution	Accuracy
2615-0010	-10-30	0.01/0.0005"/1/128"	±0.02
2615-0011	-10-30	0.01/0.0005"/1/128"	±0.02

Unit:mm

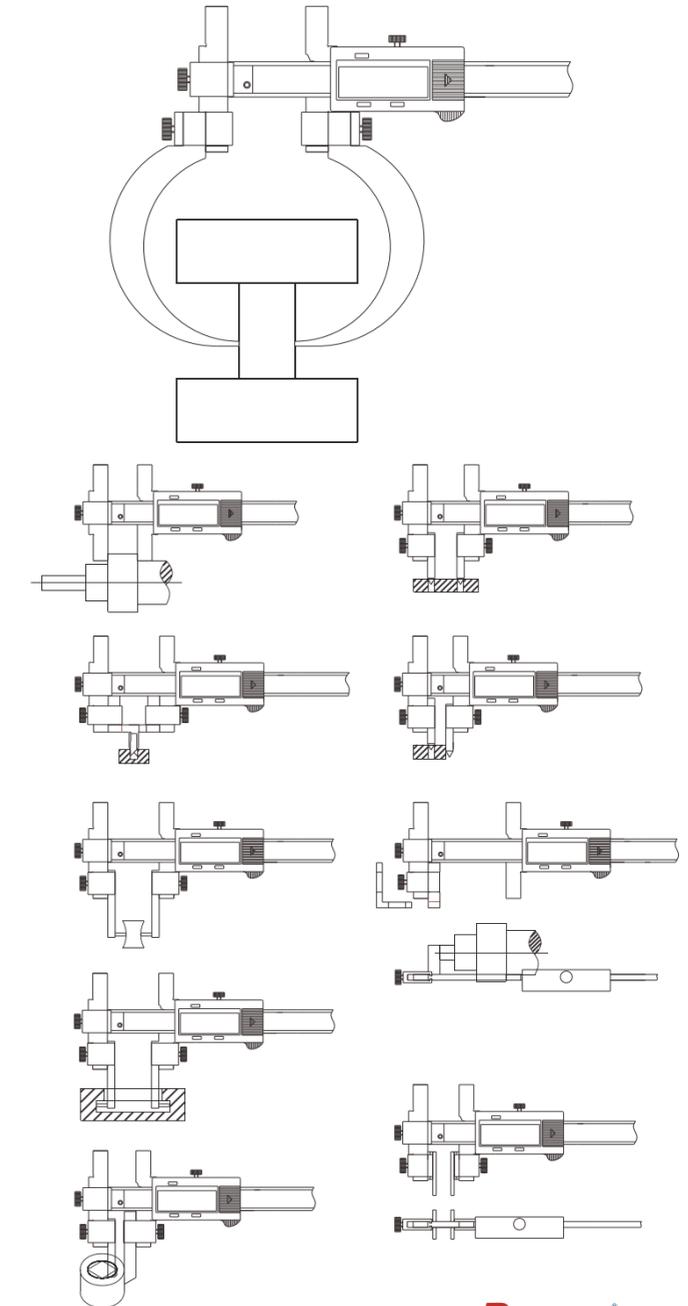
## MULTI-FUNCTION DIGITAL CALIPER



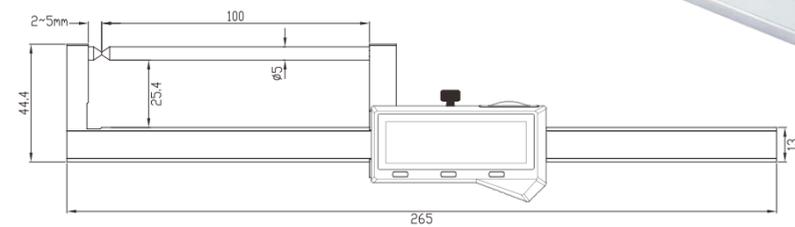
- Used to satisfy users various aims in measuring
- Made of high quality stainless steel
- Zero setting at any position

Code	Range	Resolution
2615-0015	0-150/0-6"	0.01/0.0005"

Unit:mm



## BRAKE ROTOR GAUGE WHEEL ON CALIPER

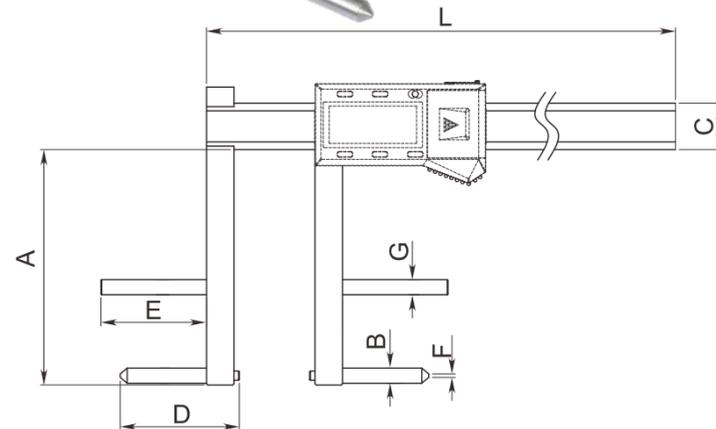


- Used to measure brake rotors without removing the wheel
- Made of solid stainless steel
- Hold function for easy recording of measurement
- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Unit:mm

Code	Range	Resolution
1804-1030	0-80/0-3.2"	0.01/0.0005"/1/64"

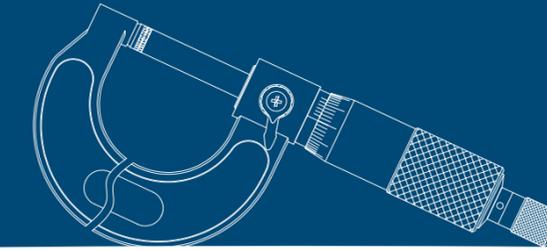
## EASY OUT/INSIDE DIGITAL CALIPER



- Used to measure brake drum
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- With Hold and Metric-Inch-Fraction Conversion function
- Hardened, ground and lapped measuring surfaces for longer service life

Unit:mm

Code	Range	Resolution	A	B	C	D	E	F	G	L	Accuracy
2220-8103	100-500/4-20"	0.01/0.0005"/1/64"	101.35	φ6.5	20	50.8	45	φ1.5	φ6.5	520	0.06/0.0025"



# MICROMETER

BORN IN ITALY, RAISED BY THE WORLD

# OUTSIDE MICROMETER

## WITH STAINLESS STEEL SPINDLE

DIN 863

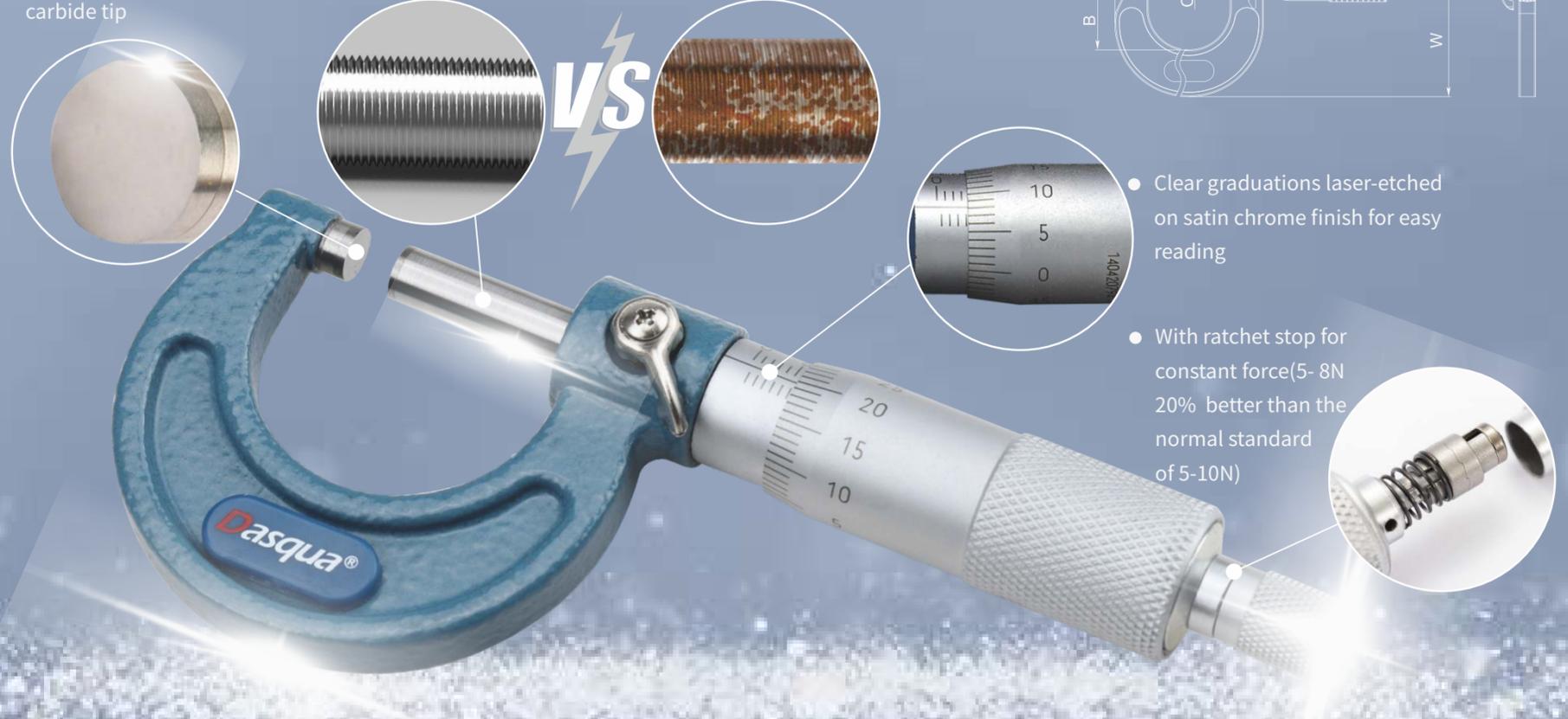
- Strictly made in accordance with DIN 863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- With spindle lock

Unit:mm

Code	Range	Graduation	A	B	C	L	W	H	Accuracy
4111-8105-A	0-25	0.01	31	29.5	φ6.5	133.8	58.5	φ18	0.004
4111-8110-A	25-50	0.01	56	38	φ6.5	160	76	φ18	0.004
4111-8115-A	50-75	0.01	81	51	φ6.5	185.5	91	φ18	0.005
4111-8120-A	75-100	0.01	106	63.5	φ6.5	210.5	105	φ18	0.005
4111-8125-A	100-125	0.01	131	76	φ6.5	237.3	125	φ18	0.006
4111-8130-A	125-150	0.01	156	89	φ6.5	263.8	142	φ18	0.006
4112-5105-A	0-1"	0.001"	31	29.5	φ6.5	133.8	58.5	φ18	0.00015"
4112-5110-A	1-2"	0.001"	56	38	φ6.5	160	76	φ18	0.00015"
4112-5115-A	2-3"	0.001"	81	51	φ6.5	185.5	91	φ18	0.0002"
4112-5120-A	3-4"	0.001"	106	63.5	φ6.5	210.5	105	φ18	0.0002"
4112-5125-A	4-5"	0.001"	131	76	φ6.5	237.3	125	φ18	0.00025"
4112-5130-A	5-6"	0.001"	156	89	φ6.5	263.8	142	φ18	0.00025"

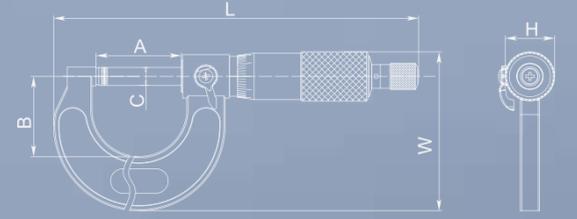
- Precision Ground STAINLESS STEEL threading rod replacing alloy/carbon steel threading rod mostly used in the industry

• New special carbide used on measuring anvil instead of traditional easy-wear off carbide tip



• Clear graduations laser-etched on satin chrome finish for easy reading

• With ratchet stop for constant force(5- 8N 20% better than the normal standard of 5-10N)



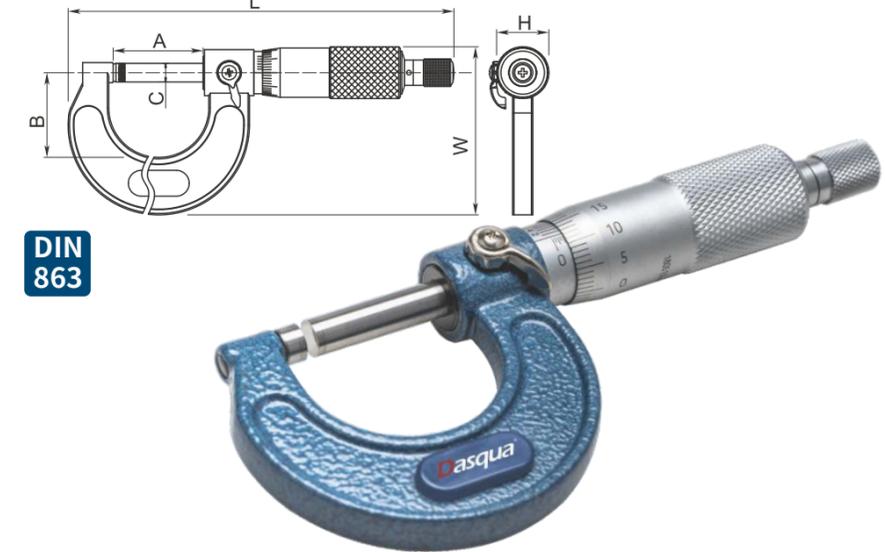
# OUTSIDE MICROMETER

## WITH 0.001MM GRADUATION

- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN 863
- With ratchet stop for constant force
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With spindle lock
- Carbide measuring surfaces ground for longer service life

Unit:mm

Code	Range* Graduation	A	B	C	L	W	H	Accuracy
4111-9105-A	0-25*0.001	31	29.5	φ6.5	133.8	58.5	φ18	0.004
4111-9110-A	25-50*0.001	56	38	φ6.5	160	76	φ18	0.004
4111-9115-A	50-75*0.001	81	51	φ6.5	185.5	91	φ18	0.005
4111-9120-A	75-100*0.001	106	63.5	φ6.5	210.5	105	φ18	0.005
4111-9125-A	100-125*0.001	131	76	φ6.5	237.3	125	φ18	0.006
4111-9130-A	125-150*0.001	156	89	φ6.5	263.8	142	φ18	0.006
4112-0105-A	0-1"*0.0001"	31	29.5	φ6.5	133.8	58.5	φ18	0.00015"
4112-0110-A	1-2"*0.0001"	56	38	φ6.5	160	76	φ18	0.00015"
4112-0115-A	2-3"*0.0001"	81	51	φ6.5	185.5	91	φ18	0.0002"
4112-0120-A	3-4"*0.0001"	106	63.5	φ6.5	210.5	105	φ18	0.0002"
4112-0125-A	4-5"*0.0001"	131	76	φ6.5	237.3	125	φ18	0.00025"
4112-0130-A	5-6"*0.0001"	156	89	φ6.5	263.8	142	φ18	0.00025"



DIN 863

# OUTSIDE MICROMETER

## CHROME PLATED FRAME

DIN 863 ISO 3611



- Cover-type heat isolation shield avoids deformation, provides stability
- Distinct lines and figures laser etched against satin chrome finish
- Metallurgical ratchet stop provides stable measurement force which can avoid different measurement result caused by various operators
- Strictly made according to ISO 3611(DIN863)
- Overall chrome plated, lower stress, smaller deformation
- The anvil adopts alloy with high hardness, reaches to HRC63

Unit:mm

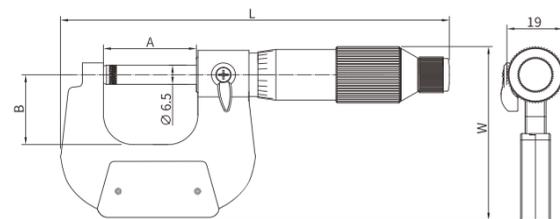
Code	Range	Graduation	A	B	C	L	W	H	Accuracy
4111-5205	0-25	0.01	31	22	φ6.5	126	52	ψ18	0.004
4111-5210	25-50	0.01	56	27	φ6.5	151	61	ψ18	0.004
4111-5215	50-75	0.01	81	44.5	φ6.5	178	86	ψ18	0.005
4111-5220	75-100	0.01	106	57	φ6.5	205	104	ψ18	0.005

## OUTSIDE MICROMETER WITH THERMAL PROTECTION

- With thermal protection
- Strictly made in accordance with DIN 863
- With ratchet stop for constant force
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With spindle lock

Unit:mm

Code	Range*Graduation	L	B	L	W	Accuracy
4111-6405	0-25*0.01	31	23.5	127.8	56.2	0.004
4111-6410	25-50*0.01	56.5	31	160.1	72.9	0.004
4111-6415	50-75*0.01	81.5	44	186.6	88.2	0.005
4111-6420	75-100*0.01	107.1	56	214.6	104.2	0.005
4111-6425	100-125*0.01	132.5	66	243.3	122.2	0.006
4111-6430	125-150*0.01	157.5	80	271.1	139.7	0.006



## Why is Dasqua micrometer more valuable?



Control the accuracy starting from the semi parts.



6 Months traceable aging treatment on each frame

## MICROMETER ANVIL ATTACHMENT SET

- Turns your micrometer for multi-measuring tool
- Each set include: spline, knife, super spline, blade, comparator, disc and ball style anvils
- Fits all micrometers up to 300mm(12")



Unit:mm

Code	Range
4410-0005	7pcs Set [ spline, knife, super spline, blade, comparator, disc and ball style anvils ]

## BIG SIZE OUTSIDE MICROMETER

- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN 863
- With ratchet stop for constant force
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With spindle lock
- Bigger size for larger range
- Carbide measuring surfaces ground for longer service life



DIN 863

Unit:mm

Code	Range	Graduation	L	H	Lo	Accuracy
4112-8135	150-175	0.01	185	99	150	0.007
4112-8140	175-200	0.01	210	111.5	175	0.007
4112-8145	200-225	0.01	238	127	200	0.008
4112-8150	225-250	0.01	264	140	225	0.008
4112-8155	250-275	0.01	289	152.5	250	0.009
4112-8160	275-300	0.01	315	165.5	275	0.009
4112-5135	6-7"	0.001"	185	99	150	0.00027"
4112-5140	7-8"	0.001"	210	111.5	175	0.00027"
4112-5145	8-9"	0.001"	238	127	200	0.0003"
4112-5150	9-10"	0.001"	264	140	225	0.0003"
4112-5155	10-11"	0.001"	289	152.5	250	0.00035"
4112-5160	11-12"	0.001"	315	165.5	275	0.00035"

## BIG SIZE OUTSIDE MICROMETER WITH 0.001MM GRADUATION

- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN 863
- With ratchet stop for constant force
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With spindle lock
- Bigger size for larger range
- Carbide measuring surfaces ground for longer service life



DIN 863

Unit:mm

Code	Range	Graduation	L	H	Lo	Accuracy
4111-9135	150-175	0.001	185	99	150	0.007
4111-9140	175-200	0.001	210	111.5	175	0.007
4111-9145	200-225	0.001	238	127	200	0.008
4111-9150	225-250	0.001	264	140	225	0.008
4111-9155	250-275	0.001	289	152.5	250	0.009
4111-9160	275-300	0.001	315	165.5	275	0.009
4112-1135	6-7"	0.0001"	185	99	150	0.00027"
4112-1140	7-8"	0.0001"	210	111.5	175	0.00027"
4112-1145	8-9"	0.0001"	238	127	200	0.0003"
4112-1150	9-10"	0.0001"	264	140	225	0.0003"
4112-1155	10-11"	0.0001"	289	152.5	250	0.00035"
4112-1160	11-12"	0.0001"	315	165.5	275	0.00035"

## MICROMETER CALIBRATION GAUGE BLOCK SET

DIN ISO 3650

- Garde 0 or Grade 1 (optional)
- 10 pcs rectangular blocks and 1 optical flat
- 1 Optical Flat which allows checking anvil faces at half rotations of spindle for measuring flatness

### MADE OF CERAMIC



Unit:mm

Code	Grade	Contents
6110-1211	0	The size of each gauge block 2.5,5,1,7,7,10,3,12,9,15,0,17,6,20,2,22,8,25,0; 1 pc optical with a flat glass $\phi 30$
6110-1405	1	The size of each gauge block 2.5,5,1,7,7,10,3,12,9,15,0,17,6,20,2,22,8,25,0; 1 pc optical with a flat glass $\phi 30$

### MADE OF STAINLESS STEEL



Unit:mm

Code	Grade	Contents
6111-1210	0	The size of each gauge block 2.5,5,1,7,7,10,3,12,9,15,0,17,6,20,2,22,8,25,0; 1 pc optical with a flat glass $\phi 30$
6111-1211	1	The size of each gauge block 2.5,5,1,7,7,10,3,12,9,15,0,17,6,20,2,22,8,25,0; 1 pc optical with a flat glass $\phi 30$

## OUTSIDE MICROMETER

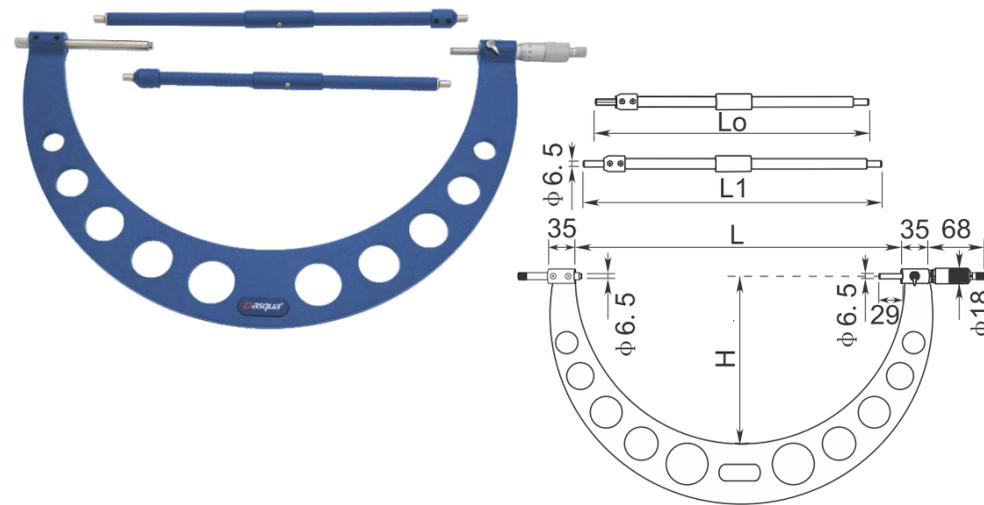
### WITH ADJUSTABLE ANVILS

DIN 863

- Wide measuring range with adjustable extension anvil collars
- Strictly made in accordance with DIN 863
- With ratchet stop for constant pressure
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With spindle lock

Code	Range	Graduation	L	H	Lo/L1	Accuracy
4800-0005	300-400	0.01	410	215	325/375	0.011
4800-0010	400-500	0.01	510	265	425/475	0.013
4800-0015	500-600	0.01	610	315	525/575	0.015
4800-0020	600-700	0.01	710	365	625/675	0.016
4800-0025	700-800	0.01	810	415	725/775	0.018
4800-0030	800-900	0.01	910	465	825/875	0.02
4800-0035	900-1000	0.01	1010	515	925/975	0.022
4810-0005	12"-16"	0.001"	410	215	325/375	0.0004"
4810-0010	16-20"	0.001"	510	265	425/475	0.0005"
4810-0015	20"-24"	0.001"	610	315	525/575	0.0006"
4810-0020	24"-28"	0.001"	710	365	625/675	0.0006"
4810-0025	28"-32"	0.001"	810	415	725/775	0.0007"
4810-0030	32"-36"	0.001"	910	465	825/875	0.0008"
4810-0035	36"-40"	0.001"	1010	515	925/975	0.00085"

Unit:mm

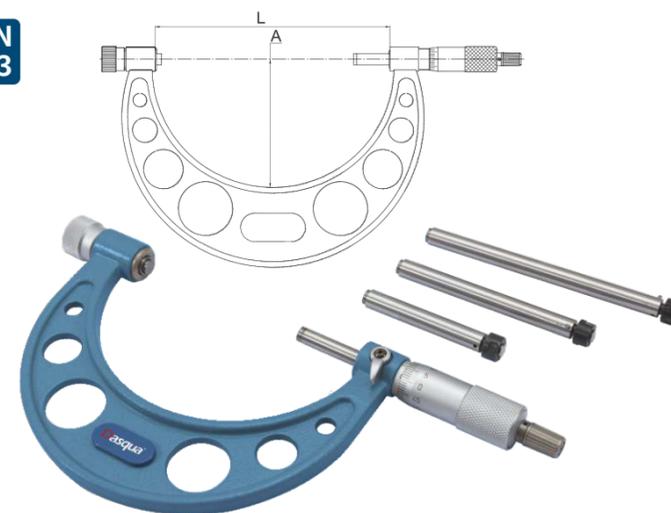


## OUTSIDE MICROMETER

### WITH INTERCHANGEABLE ANVILS

- Strictly made in accordance with DIN863
- Wide measuring range with interchangeable anvils
- Distinct black lines and figures laser engraved against satin chrome finish provide easy and error-free reading
- Carbide tipped measuring face

DIN 863



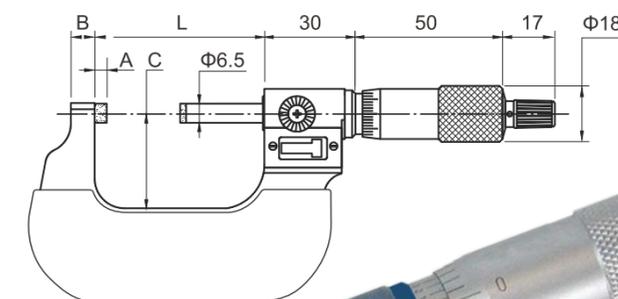
Unit:mm

Code	Range	Graduation	A	L	Accuracy
4801-0001	0-50	0.01	35	58	0.004
4801-0002	0-100	0.01	57	108	0.005
4801-0003	0-150	0.01	82	158	0.006
4801-0004	100-200	0.01	114	208	0.007
4801-0005	150-300	0.01	165	308	0.009
4801-0006	200-300	0.01	165	308	0.009
4801-0007	300-400	0.01	224	409	0.011
4801-0008	400-500	0.01	275	509	0.013
4801-0009	500-600	0.01	321	609	0.015
4801-0010	600-700	0.01	371	709	0.016
4801-0011	700-800	0.01	426	809	0.018
4801-0012	800-900	0.01	476	909	0.020
4801-0013	900-1000	0.01	576	1009	0.020

## OUTSIDE MICROMETER

### WITH COUNTER

- Strictly made in accordance with DIN863
- Mechanical digit counter for quick and error-free reading
- Carbide measuring face
- Resolution: 0.01mm(Metric);0.0001"(Inch)
- Counter readout: 0.01mm(Metric); 0.001"(Inch)



Unit:mm

Code	Range	Graduation	A	B	C	L	Accuracy
4150-1005	0-25	0.01	3	6	26	32	0.004
4150-1010	25-50	0.01	3	8	32	57	0.004
4150-1015	50-75	0.01	3	8	44.5	82	0.005
4150-1020	75-100	0.01	3	8	57	107	0.005
4150-1025	100-125	0.01	3	17	71.8	132.4	0.006
4150-1030	125-150	0.01	3	17	84	157.8	0.006

## OUTSIDE MICROMETER SET

- 3pcs, 4pcs, 6pcs, 12pcs optional for customers' desire
- Strictly made in accordance with DIN 863
- With ratchet stop for constant pressure
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With spindle lock

**DIN 863**



Unit:mm

Code	Range	Graduation	Set(Pcs)	Package
4111-8206	0-75	0.01	3	Plastic Box
4111-8210	0-100	0.01	4	Plastic Box
4111-8215	0-150	0.01	6	Aluminium Case
4111-8203	0-300	0.01	12	Aluminium Case
4111-8213	150-300	0.01	6	Aluminium Case
4112-0206	0-3"	0.001"	3	Plastic Box
4112-0210	0-4"	0.001"	4	Plastic Box
4112-0216	0-6"	0.001"	6	Aluminium Case
4112-0208	0-12"	0.001"	12	Aluminium Case
4112-0218	6"-12"	0.001"	6	Aluminium Case
4111-8006	0-75	0.001	3	Plastic Box
4111-8010	0-100	0.001	4	Plastic Box
4111-8220	0-150	0.001	6	Aluminium Case
4111-8408	0-300	0.001	12	Aluminium Case
4111-8008	150-300	0.001	6	Aluminium Case
4112-0006	0-3"	0.0001"	3	Plastic Box
4112-0010	0-4"	0.0001"	4	Plastic Box
4112-0215	0-6"	0.0001"	6	Aluminium Case
4112-0203	0-12"	0.0001"	12	Aluminium Case
4112-0213	6"-12"	0.0001"	6	Aluminium Case

## OUTSIDE MICROMETER SET

- 3pcs, 4pcs, 6pcs optional for customers' desire
- Strictly made in accordance with DIN 863
- With ratchet stop for constant pressure
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With spindle lock
- Made with thermal protection frame

**DIN 863**

Unit:mm

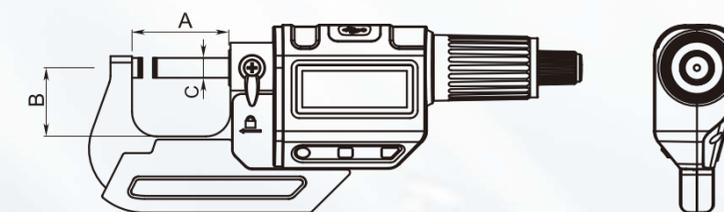
Code	Range	Graduation	Set(Pcs)	Package
4111-8205	0-75	0.01	3	Plastic Box
4111-8240	0-100	0.01	4	Plastic Box
4111-8245	0-150	0.01	6	Aluminium Case
4112-0205	0-3"	0.0001"	3	Plastic Box
4112-0240	0-4"	0.0001"	4	Plastic Box
4112-0245	0-6"	0.0001"	6	Aluminium Case



# DIGITAL OUTSIDE MICROMETER

## WITH STAINLESS STEEL SPINDLE

- Spindle ground twice which makes pitch error 1µ less than before and reaches world-class standard



Unit:mm

Code	Range	Resolution	A	B	C	Accuracy
4230-2005	0-25/0-1"	0.001/0.00005"	31.5	22.5	φ6.5	0.003
4230-2010	25-50/1"-2"	0.001/0.00005"	56.5	31	φ6.5	0.003
4230-2015	50-75/2"-3"	0.001/0.00005"	81.5	44	φ6.5	0.004
4230-2020	75-100/3"-4"	0.001/0.00005"	107.1	56	φ6.5	0.004
4230-2025	100-125/4"-5"	0.001/0.00005"	132	66	φ6.5	0.005
4230-2030	125-150/5"-6"	0.001/0.00005"	156.5	80	φ6.5	0.005
4210-2135-A	150-175/6"-7"	0.001/0.00005"	184	94.5	φ6.5	0.007
4210-2140-A	175-200/7"-8"	0.001/0.00005"	209.5	107	φ6.5	0.007
4210-2145-A	200-225/8"-9"	0.001/0.00005"	234	129.5	φ6.5	0.008
4210-2150-A	225-250/9"-10"	0.001/0.00005"	259.5	142.5	φ6.5	0.008
4210-2155-A	250-275/10"-11"	0.001/0.00005"	285	155	φ6.5	0.009
4210-2160-A	275-300/11"-12"	0.001/0.00005"	310.5	167.5	φ6.5	0.009

Battery CR2032 **DIN 863** mm/in



# IP65 OIL & WATER PROOF DIGITAL MICROMETER

**DIN 863** **mm/in** **Battery + CR2032** **IP65 COOLANT & FLUID RESISTANT**

- With large easy-to-read LCD screen
- Strictly made in accordance with DIN863
- Spindle hardened, ground and lapped for ultimate accuracy
- With spindle lock
- With absolute, inch-metric conversion and zero-set function
- IP65 protection against liquid
- Stainless steel newly adapted on spindle
- Carbide measuring surfaces ground for longer service life



• With calibration certificate

• With ratchet stop for constant force (5- 8N 20% higher than normal)

• Clear graduations laser-etched on satin chrome finish for easy reading

• New special carbide used on measuring anvil instead of traditional easy-wear off carbide tip

• IP65 Oil and waterproof ability



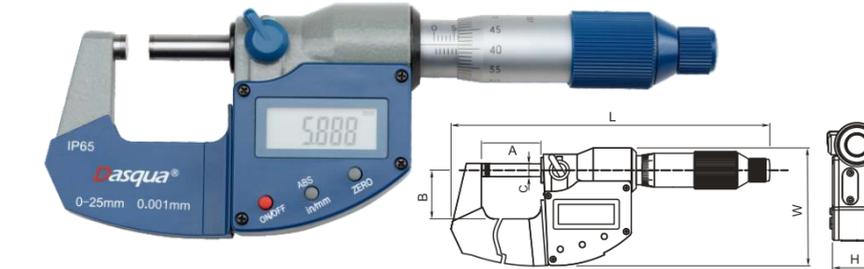
Unit:mm

Code	Range	Resolution	A	B	C	L	W	H	Accuracy
4410-1105-A	0-25/0-1"	0.001/0.00005"	29.8	24.5	ø6.5	159.5	59.6	23.5	0.01/0.0005"
4410-1110-A	25-50/1-2"	0.001/0.00005"	55.3	31	ø6.5	188.5	75.7	23.5	0.01/0.0005"
4410-1115-A	50-75/2-3"	0.001/0.00005"	80.8	44	ø6.5	219	90.7	23.5	0.02/0.001"
4410-1120-A	75-100/3-4"	0.001/0.00005"	105.8	56	ø6.5	246.5	107.2	23.5	0.01/0.0005"

## IP65 WATER PROOF DIGITAL OUTSIDE MICROMETER

- With large easy-to-read LCD screen
- Strictly made in accordance with DIN863
- Spindle hardened, ground and lapped for ultimate accuracy
- With spindle lock
- With absolute, inch-metric conversion and zero-set function
- IP65 protection against liquid
- Stainless steel newly adapted on spindle
- Carbide measuring surfaces ground for longer service life

**DIN 863** **mm/in** **Battery + CR2032** **IP65 COOLANT & FLUID RESISTANT**



Unit:mm

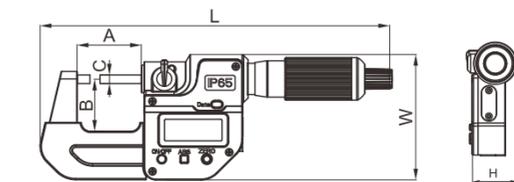
Code	Range	Resolution	Graduation	A	B	C	L	W	H	Accuracy
4410-1105	0-25/0-1"	0.001/0.00005"	0.01	29.8	24.5	ø6.5	159.5	59.6	23.5	0.003/0.00015"
4410-1110	25-50/1-2"	0.001/0.00005"	0.01	55.3	31	ø6.5	188.5	75.7	23.5	0.003/0.00015"
4410-1115	50-75/2-3"	0.001/0.00005"	0.01	80.8	44	ø6.5	219	90.7	23.5	0.004/0.00015"
4410-1120	75-100/3-4"	0.001/0.00005"	0.01	105.8	56	ø6.5	246.5	107.2	23.5	0.004/0.00015"
4410-1125	100-125/4-5"	0.001/0.00005"	0.01	130.8	68	ø6.5	278	125.3	23.5	0.005/0.0002"
4410-1130	125-150/5-6"	0.001/0.00005"	0.01	155.8	81	ø6.5	307.5	141.3	23.5	0.005/0.0002"

Unit:mm

Code	Range	Resolution	Graduation	A	B	C	L	W	H	Accuracy
4410-2405	0-25/0-1"	0.001/0.00005"	0.0001"	29.8	24.5	ø6.5	159.5	59.6	23.5	0.003/0.00015"
4410-2410	25-50/1-2"	0.001/0.00005"	0.0001"	55.3	31	ø6.5	188.5	75.7	23.5	0.003/0.00015"
4410-2415	50-75/2-3"	0.001/0.00005"	0.0001"	80.8	44	ø6.5	219	90.7	23.5	0.004/0.00015"
4410-2420	75-100/3-4"	0.001/0.00005"	0.0001"	105.8	56	ø6.5	246.5	107.2	23.5	0.004/0.00015"
4410-2425	100-125/4-5"	0.001/0.00005"	0.0001"	130.8	68	ø6.5	278	125.3	23.5	0.005/0.0002"
4410-2430	125-150/5-6"	0.001/0.00005"	0.0001"	155.8	81	ø6.5	307.5	141.3	23.5	0.005/0.0002"

## IP65 DIGITAL MICROMETER WITH WIRELESS SYSTEM

**Battery + CR2032** **DIN 863** **mm/in** **Data output**  
**WIRELESS TRANSMITTER** **Absolute** **IP65 COOLANT & FLUID RESISTANT**



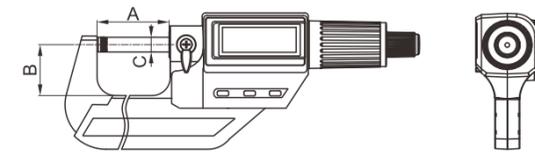
- Wireless System for data output
- With large easy-to-read LCD screen
- Strictly made in accordance with DIN863
- Spindle hardened, ground and lapped for ultimate accuracy
- With spindle lock
- With absolute, inch-metric conversion and zero-set function
- IP65 protection against liquid
- Stainless steel newly adapted on spindle
- Carbide measuring surfaces ground for longer service life

Unit:mm

Code	Range	Resolution	A	B	C	E	F	F	Accuracy
4410-2105-A	0-25/0-1"	0.001/0.00005"	29.8	24.5	ø6.5	159.5	59.6	23.5	0.03/0.0015"
4410-2110-A	25-50/1-2"	0.001/0.00005"	55.3	31	ø6.5	188.5	75.7	23.5	0.03/0.0015"
4410-2115-A	50-75/2-3"	0.001/0.00005"	80.8	44	ø6.5	219	90.7	23.5	0.04/0.0015"
4410-2120-A	75-100/3-4"	0.001/0.00005"	105.8	56	ø6.5	246.5	107.2	23.5	0.04/0.0015"

## DIGITAL MICROMETER

WITH WIRELESS SYSTEM



- Wireless System for data output
- With large easy-to-read LCD screen
- Strictly made in accordance with DIN863
- Spindle hardened, ground and lapped for ultimate accuracy
- With spindle lock
- With Absolute, Inch-Metric Conversion and Zero-Set function
- Stainless steel newly adapted on spindle
- Carbide measuring surfaces ground for longer service life

Unit:mm

Code	Range	Resolution	A	B	C	Accuracy
4230-3105	0-25/0-1"	0.001/0.00005"	31.5	22.5	ø6.5	0.03/0.0015"
4230-3110	25-50/1-2"	0.001/0.00005"	56.5	31	ø6.5	0.03/0.0015"
4230-3115	50-75/2-3"	0.001/0.00005"	81.5	44	ø6.5	0.04/0.0015"
4230-3120	75-100/3-4"	0.001/0.00005"	107.1	56	ø6.5	0.04/0.0015"
4230-3125	100-125/4-5"	0.001/0.00005"	132	66	ø6.5	0.05/0.002"
4230-3130	125-150/5-6"	0.001/0.00005"	156.5	80	ø6.5	0.05/0.002"

## IP65 WATER PROOF DIGITAL QUICK-MOVE MICROMETER

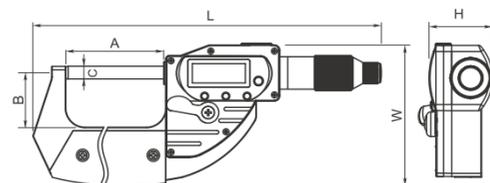
Unit:mm

Code	Range	Resolution	A	B	C	L	W	H	Accuracy
4220-2105	0-25/0-1"	0.001/0.00005"	29.8	25.4	ø6.5	168.6	64.6	30.8	0.003/0.00015"
4220-2110	25-50/1-2"	0.001/0.00005"	55.3	31	ø6.5	197.2	80.5	30.8	0.003/0.00015"
4220-2115	50-75/2-3"	0.001/0.00005"	80.3	44	ø6.5	227.5	96	30.8	0.004/0.00015"
4220-2120	75-100/3-4"	0.001/0.00005"	105.3	56	ø6.5	257.6	112.5	30.8	0.004/0.00015"

WITH WIRELESS SYSTEM

Unit:mm

Code	Range	Resolution	A	B	C	L	W	H	Accuracy
4610-3105	0-25/0-1"	0.001/0.00005"	29.8	25.4	ø6.5	168.6	64.6	30.8	0.003/0.00015"
4610-3110	25-50/1-2"	0.001/0.00005"	55.3	31	ø6.5	197.2	80.5	30.8	0.003/0.00015"
4610-3115	50-75/2-3"	0.001/0.00005"	80.3	44	ø6.5	227.5	96	30.8	0.004/0.00015"
4610-3120	75-100/3-4"	0.001/0.00005"	105.3	56	ø6.5	257.6	112.5	30.8	0.004/0.00015"



## HIGH PRECISION DIGITAL MICROMETER/SNAP GAUGES

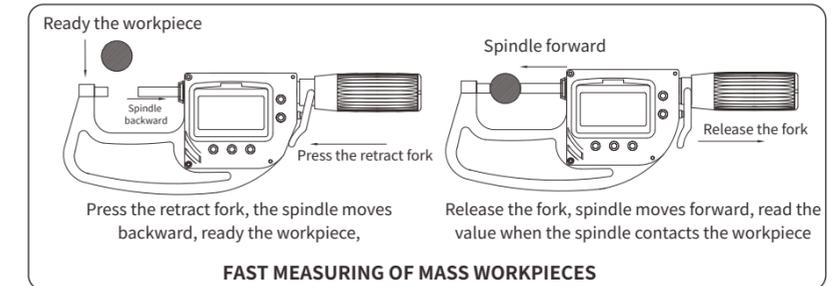
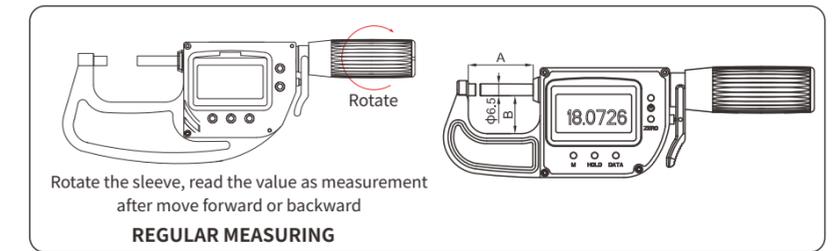
Dasqua Blu



- Absolute encoder, the original data remains after power off
- Adjustable resolution: 0.001mm/0.00005", 0.01mm/0.0005"
- One turn of sleeve makes 5mm spindle feed
- Measurement accuracy is not affected by the use of sleeve
- Press the fork the spindle retracts 3mm, for fast measuring of mass workpieces
- Linear ball bearings for ten million times use
- Carbide spindle and anvil
- Button function: data output tolerance data preset data hold measuring direction
- changemax./min./TIRpower off time,on/off,zero,mm/inchadjustresolution
- Supplied with gage blocks for zero setting (except0-25mm/0-1")

Unit:mm

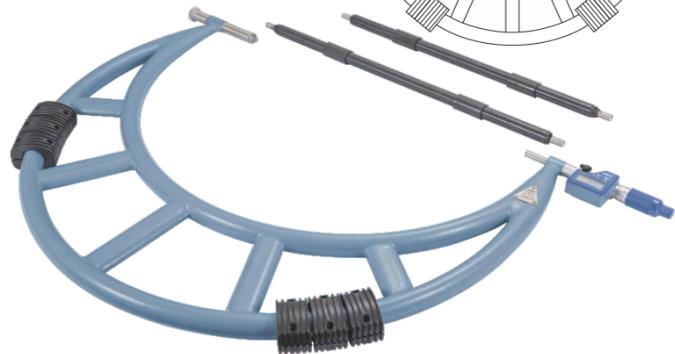
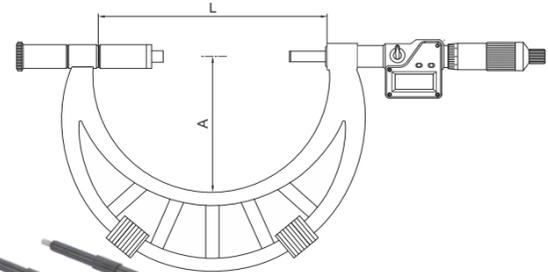
Code	Range	Repeatability	Accuracy	Measuring faces		A	B	Accuracy
				Flatness	Parallelism			
4105-0005	0-25/0-1"	0.001	0.002	0.0005	0.0012	38	24	Cable
4105-0010	25-50/1-2"	0.001	0.002	0.0005	0.0012	63	28	Cable
4105-0015	50-75/2-3"	0.001	0.003	0.0005	0.0012	88	45	Cable
4105-0020	75-100/3-4"	0.001	0.005	0.0005	0.0012	113	57	Cable
4331-0005	0-25/0-1"	0.001	0.002	0.0005	0.0012	38	24	Wireless
4331-0210	25-50/1-2"	0.001	0.002	0.0005	0.0012	63	28	Wireless
4331-0215	50-75/2-3"	0.001	0.003	0.0005	0.0012	88	45	Wireless
4331-0220	75-100/3-4"	0.001	0.005	0.0005	0.0012	113	57	Wireless



## IP65 WATER PROOF DIGITAL OUTSIDE MICROMETER

### WITH ADJUSTABLE ANVILS

- Strictly made in accordance with DIN863
- Wide measuring range with adjustable anvil
- High accuracy standard collars enable that reading does not have to be reset when changing collars
- Standard collars: Within 1000mm/40": 25mm/1", 50mm/2"
- With carbide measuring faces
- Pipe combined frame for light weight and high rigidity
- IP65 protection against liquid

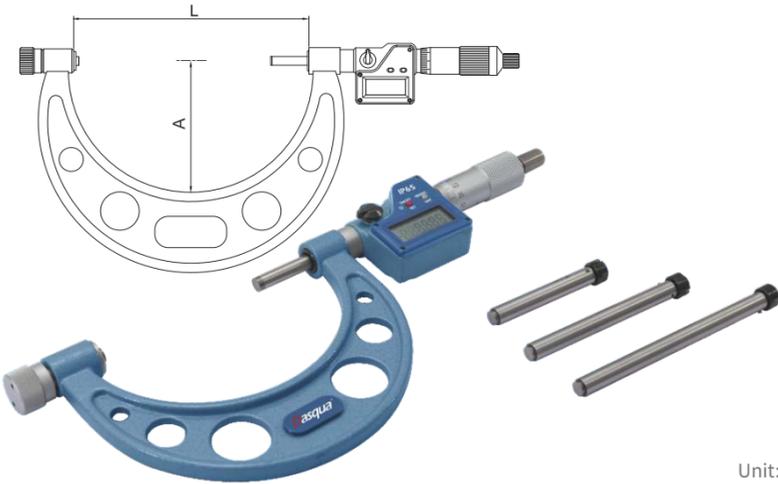


Code	Range	A	L	Resolution	Accuracy
4905-0005	300-400	224	409	0.001/0.00005"	0.011
4905-0006	400-500	275	509	0.001/0.00005"	0.013
4905-0007	500-600	321	609	0.001/0.00005"	0.015
4905-0008	600-700	371	709	0.001/0.00005"	0.016
4905-0009	700-800	426	809	0.001/0.00005"	0.018
4905-0010	800-900	476	909	0.001/0.00005"	0.020
4905-0011	900-1000	576	1009	0.001/0.00005"	0.020

## IP65 WATER PROOF OUTSIDE MICROMETER

### WITH INTERCHANGEABLE ANVILS

- Wide measuring range with interchangeable anvils
- High accuracy interchangeable anvils enable that reading does not have to be reset when changing anvils
- With carbide measuring faces
- IP65 protection against liquid

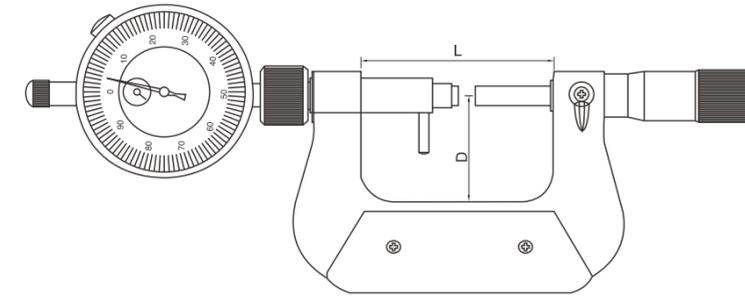


Code	Range	Resolution	Anvil(pcs)	A	L	Accuracy
4706-0001	0-100	0.001/0.00005"	4	57	108	±0.003
4706-0002	100-200	0.001/0.00005"	4	114	208	±0.004
4706-0003	200-300	0.001/0.00005"	4	165	308	±0.005
4706-0004	300-400	0.001/0.00005"	4	224	409	±0.006
4706-0005	400-500	0.001/0.00005"	4	275	509	±0.007
4706-0006	500-600	0.001/0.00005"	4	321	609	±0.007
4706-0007	600-700	0.001/0.00005"	4	371	709	±0.008
4706-0008	700-800	0.001/0.00005"	4	426	809	±0.009
4706-0009	800-900	0.001/0.00005"	4	476	909	±0.010
4706-0010	900-1000	0.001/0.00005"	4	576	1009	±0.010

## MICROMETER

### WITH DIAL INDICATOR

- Uses dial indicator for direct GO/NG-GO judgment for mass-produced parts
- Anvil retracting trigger for quick measurement
- With a standard bar except for 0 - 25mm models

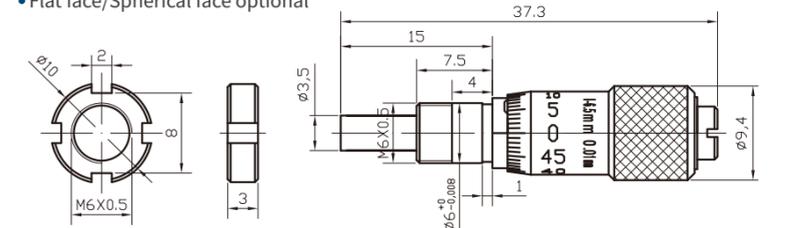


Code	Range	L	D	Graduation	Accuracy
4403-0005	0-25	67	38	0.01	0.004
4403-0010	25-50	92	50	0.01	0.004
4403-0015	50-75	118	62	0.01	0.005
4403-0020	75-100	143	70	0.01	0.005
4403-0025	100-125	168	82	0.01	0.006
4403-0030	125-150	192	95	0.01	0.006
4403-0035	150-175	217	107	0.01	0.007



## 6.5MM MICROMETER HEAD

- Mount on precision equipment or machinery like machines, fixed devices, special tools, etc
- Carbide measuring surfaces ground for longer service life
- With ratchet stop for constant pressure
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- Straight stem/Stem with clamp nut optional
- Flat face/Spherical face optional



Code	Range	Graduation	Accuracy	Remark
4833-8105	0-6.5	0.01	0.004	W/Clamp Nut
4733-8105	0-6.5	0.01	0.004	W/Clamp Nut/Spherical



## INCH MICROMETER HEAD

- Mount on precision equipment or machinery like machines, fixed devices, special tools, etc
- Carbide measuring surfaces ground for longer service life
- With ratchet stop for constant pressure
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- Straight stem/Stem with clamp nut optional
- Flat face/Spherical face optional



Unit:mm

Code	Range	Graduation	Accuracy	Remark
4812-5105	0-0.25"	0.001"	0.0015"	W/Clamp Nut
4812-5110	0-0.5"	0.001"	0.0015"	W/Clamp Nut
4812-5115-A	0-1"	0.001"	0.0015"	W/Clamp Nut+W/Spindle Lock
4812-5120-A	0-2"	0.001"	0.0015"	W/Clamp Nut+W/Spindle Lock

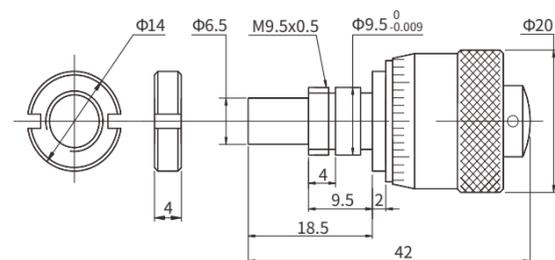
## MICROMETER HEAD

### WITH LARGE THIMBLE DIAMETER

- Strictly made in accordance with DIN863
- Operating and display units antiglare with satin chrome finish
- Stainless spindle is hardened throughout and ground
- Rapid drive with integrated ratchet
- Carbide tipped measuring face
- with clamp nut

Unit:mm

Code	Range	Graduation	Accuracy	Remark
4811-8125	0-6.5	0.01	0.005	/
4833-8125	0-6.5	0.01	0.005	W/Clamp Nut
4711-8125	0-6.5	0.01	0.005	Spherical
4733-8125	0-6.5	0.01	0.005	W/Clamp Nut/Spherical
4811-8130	0-13	0.01	0.004	/
4833-8130	0-13	0.01	0.004	W/Clamp Nut

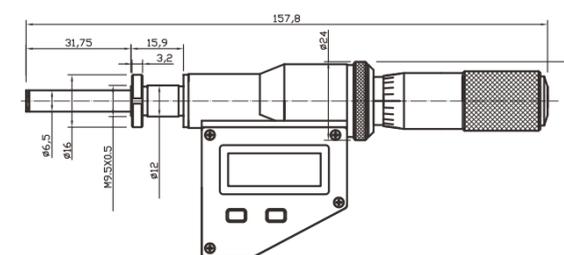


## DIGITAL MICROMETER HEAD

### WITH CLAMP NUT



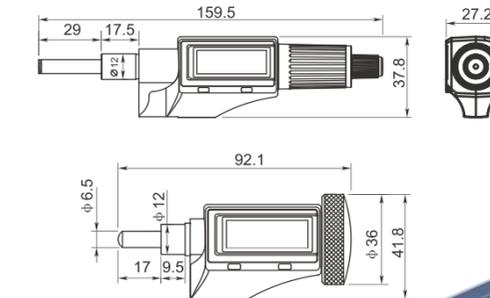
- SPC data output
- 3V lithium battery CR2032
- IP65 protection against liquid
- Strictly made in accordance with DIN863
- Incremental capacitor measurement system
- With carbide measuring face
- With painted frame
- Flat face (spherical tip optional)
- Spindle hardened and ground



Unit:mm

Code	Range	Resolution	Accuracy	Tip Type
4910-2125	0-25/0-1"	0.001/0.00005"	0.003/0.00015"	Spherical head
4910-2130	0-50/0-2"	0.001/0.00005"	0.003/0.00015"	Flat head
4910-2135	0-25/0-1"	0.001/0.00005"	0.003/0.00015"	Flat head
4910-2140	0-50/0-2"	0.001/0.00005"	0.003/0.00015"	Spherical head

## DIGITAL MICROMETER HEAD



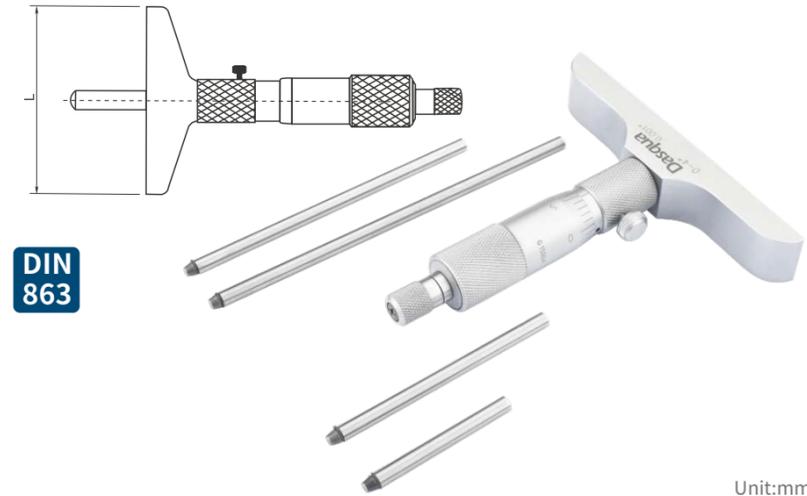
- Mount on precision equipment or machinery like machines, fixed devices, special tools, etc
- where need 0.001mm accuracy
- Strictly made in accordance with DIN863
- Equipped with large LCD screen for easy reading
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Carbide measuring surfaces ground for longer service life
- Flat face/Spherical face optional

Unit:mm

Code	Range	Resolution	Accuracy	Tip Type
4910-2105	0-15/0-0.5"	0.001/0.00005"	0.003/0.00015"	Flat head
4910-2110	0-15/0-0.5"	0.001/0.00005"	0.003/0.00015"	Spherical head
4910-2115	0-25/0-1"	0.001/0.00005"	0.003/0.00015"	Spherical head
4910-2120	0-25/0-1"	0.001/0.00005"	0.003/0.00015"	Flat head

## DEPTH MICROMETER

- Used to measure depth of holes or parts with grooved or elevated surfaces
- Strictly made in accordance with DIN 863
- With ratchet stop for constant force
- Spindle hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With measuring rod clamp
- Carbide measuring surfaces ground for longer service life



**DIN 863**

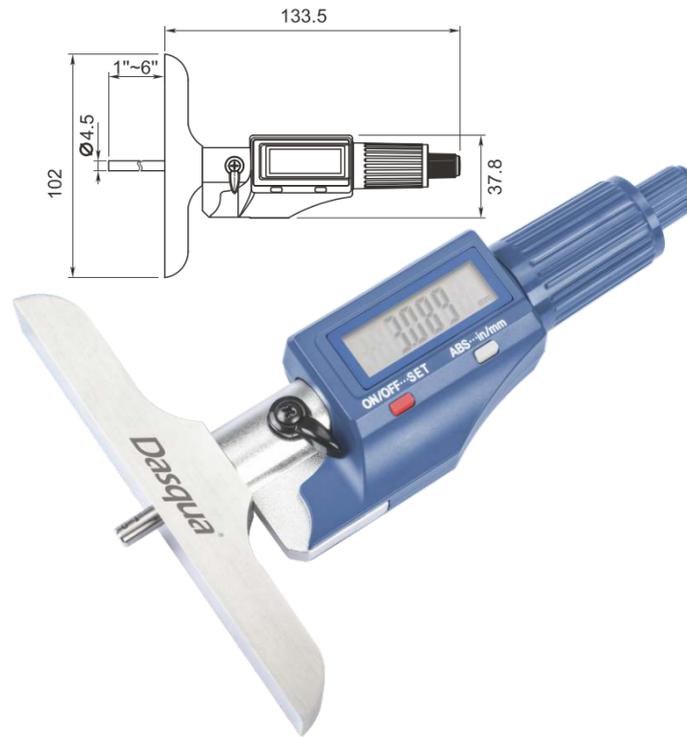
Code	Range	Graduation	Accuracy	L	Anvil(pcs)
4611-8106	0-25	0.01	±0.004	102	1
4611-8110	0-50	0.01	±0.004	102	2
4611-8115	0-75	0.01	±0.006	102	3
4611-8120	0-100	0.01	±0.006	102	4
4611-8125	0-150	0.01	±0.007	102	6
4611-8129	0-200	0.01	±0.008	102	8
4611-8130	0-300	0.01	±0.010	102	12
4612-5106	0-1"	0.001"	±0.00016"	102	1
4612-5110	0-2"	0.001"	±0.00016"	102	2
4612-5115	0-3"	0.001"	±0.00025"	102	3
4612-5120	0-4"	0.001"	±0.00025"	102	4
4612-5125	0-6"	0.001"	±0.00025"	102	6
4612-5130	0-8"	0.001"	±0.0003"	102	8
4612-5135	0-12"	0.001"	±0.0004"	102	12

## DIGITAL DEPTH MICROMETER

- Used to measure depth of holes or parts with grooved or elevated surfaces
- Strictly made in accordance with DIN 863
- With ratchet stop for constant force
- Spindle hardened, ground and lapped for ultimate accuracy
- Large easy-to-read display
- Extension rods of different lengths offering larger measuring ranges
- With Hold, Zero, Metric/Inch Conversion function

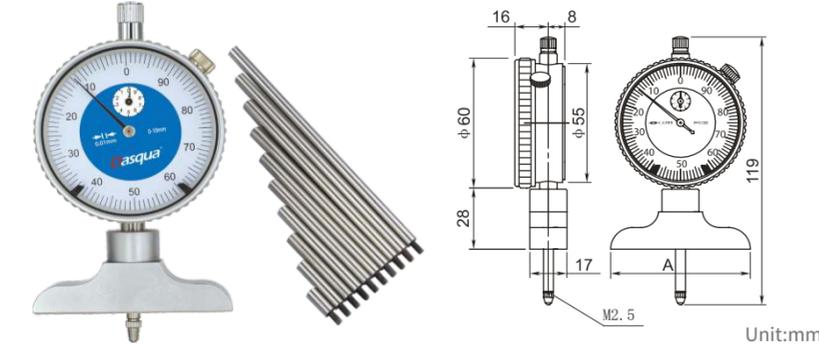
**DIN 863** mm/in Battery + CR2032

Code	Range	Resolution	Accuracy
4710-2205	0-150/0-6"	0.001/0.00005"	0.005/0.0002"



## DIAL DEPTH GAUGE

- Used to measure depth of holes or parts with grooved or elevated surfaces
- Dial Indicator for easy and clear reading
- Hardened base with fine lapped contact surface
- Extension rods of different lengths offering larger measuring ranges

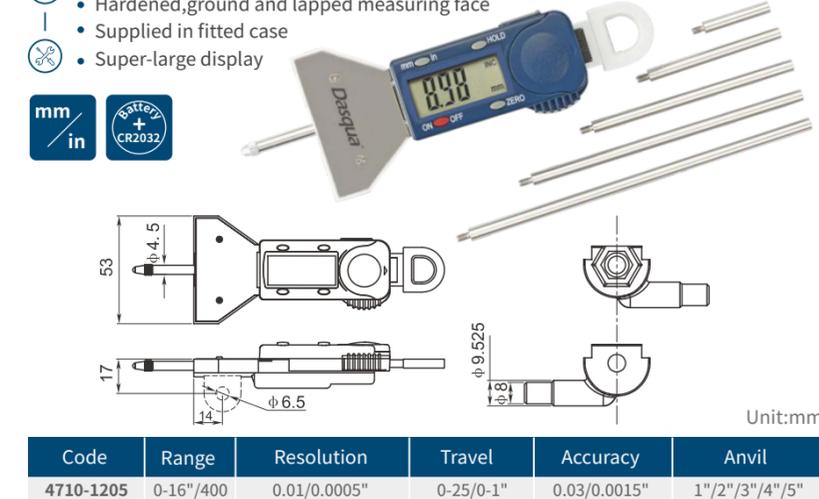


Code	Range	Graduation	Base Length(A)	Depth	Remark
5822-4100	0-1"	0.001"	2.5"	6"	With 5 rods 1-5", step by 1"
5821-1100	0-10	0.01	64	100	With 10 rods 10-100, step by 10mm

## DIGITAL DEPTH GAGE

- Spring-loaded and hold measurement button for easy-to-use
- Hardened, ground and lapped measuring face
- Supplied in fitted case
- Super-large display

mm/in Battery + CR2032



Code	Range	Resolution	Travel	Accuracy	Anvil
4710-1205	0-16"/400	0.01/0.0005"	0-25/0-1"	0.03/0.0015"	1"/2"/3"/4"/5"

## TUBULAR INSIDE MICROMETER

- Wide range by combining extension rods and anvils with the micrometer head
- Strictly made in accordance with DIN 863
- Measuring rods hardened, ground and lapped
- Clear graduations laser-etched on satin chrome finish for easy reading



Code	Range	Graduation	Extension Rod	Accuracy
4311-8103	50-63	0.01	Micrometer head	0.005
4311-8106	50-100	0.01	13,25	0.007
4311-8107	50-150	0.01	13,25,50	0.009
4311-8109	50-300	0.01	13,25,50(2pcs),100	0.014
4311-8111	50-500	0.01	13,25,50(2pcs),100,200	0.019
4311-8113	50-600	0.01	13,25,50,100,150,200	0.021
4311-8118	50-1000	0.01	13,25,50,100(2pcs),150,200,300	0.031
4311-8119	50-1500	0.01	13,25,50,100(2pcs),150,200(2pcs),300(2pcs)	0.043
4312-5103	2-2.5"	0.001"	Micrometer head	0.0002"
4312-5106	2-4"	0.001"	0.5",1"	0.00025"
4312-5109	2-12"	0.001"	0.5",1",2"(2pcs),4"	0.00045"
4312-5112	2-20"	0.001"	0.5",1",2"(2pcs),4",8"	0.00065"
4312-5113	2-40"	0.001"	0.5",1",2",4"(2pcs.),6",8",12"	0.00115"

## TUBULAR INSIDE MICROMETER

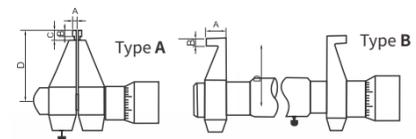
- Wide range by combining extension rods and anvils with the micrometer head
- Strictly made in accordance with DIN 863
- Measuring rods hardened, ground and lapped
- Clear graduations laser-etched on satin chrome finish for easy reading

Code	Range	Graduation	Travel of micrometer	Extension Rod
4311-8220	1000-2000	0.01	50	50,100(2pcs),200,500
4311-8225	1000-3000	0.01	50	50,100(2pcs),200,500,1000
4311-8230	1000-4000	0.01	50	50,100(2pcs),200,500,1000(2pcs)
4311-8235	1000-5000	0.01	50	50,100(2pcs),200,500,1000(3pcs)



## INSIDE MICROMETER

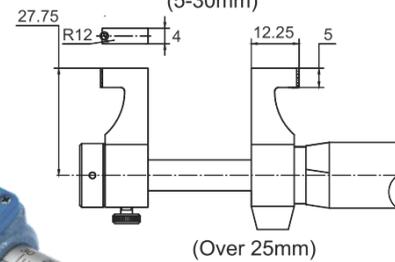
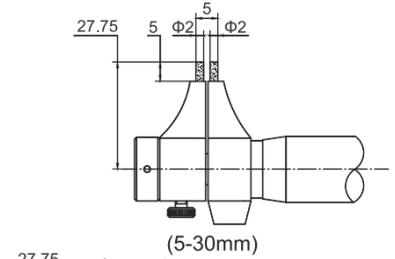
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- Carbide measuring surfaces ground for longer service life
- Used to measure various inside dimensions
- With ratchet stop for constant pressure
- An inside micrometer set is optional
- With spindle lock



Code	Range	Graduation	Type	A	B	C	D	Accuracy	Ring gage
4911-8105	5-30	0.01	A	2.3	4.5	5.5	27.5	±0.005	✓
4911-8110	25-50	0.01	B	12.3	4.5	/	27.5	±0.006	✓
4911-8115	50-75	0.01	B	12.3	4.5	/	27.5	±0.007	/
4911-8120	75-100	0.01	B	12.3	4.5	/	27.5	±0.008	/
4911-8125	5-100	0.01	/	/	/	/	/	/	/
4912-5105	0.2-1.2"	0.001"	A	2.3	4.5	5.5	27.5	±0.00025"	✓
4912-5110	1-2"	0.001"	B	12.3	4.5	/	27.5	±0.0003"	✓
4912-5115	2-3"	0.001"	B	12.3	4.5	/	27.5	±0.00035"	/
4912-5120	3-4"	0.001"	B	12.3	4.5	/	27.5	±0.0004"	/
4912-5125	0.2-4"	0.001"	/	/	/	/	/	/	/

## DIGITAL INSIDE MICROMETER

- Strictly made in accordance with DIN863
- For easy and rapid measurement of various inside dimensions
- LCD display with clear reading, metric/inch conversion
- Zero setting at any position
- Clamp wheel for quick and precise fixing
- With ratchet for constant measuring pressure
- Incl. 1x 1.5V battery



Code	Range	Resolution	Accuracy
4910-4105	5-30/0.2"-1.2"	0.001/0.00005"	±0.003
4910-4110	25-50/1"-2"	0.001/0.00005"	±0.003
4910-4115	50-75/2"-3"	0.001/0.00005"	±0.004
4910-4120	75-100/3"-4"	0.001/0.00005"	±0.004

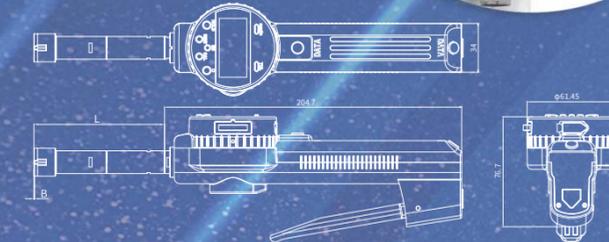
# DIGITAL 3-POINT SNAP-OPEN BORE GAUGE

- With Dasqua Absolute Chips, no need to check zero point during use
- Rest assured for your measurement

Go/No-Go Fast Checking

Complete size from 6mm till 100mm

Hold the Test Result Prevent the Careless Touching



Code	Range	Ring gauge	Extension rod C	A	B	D	Accuracy
4700-1001	6-8/0.275-0.35"	ø6	101.6/4"	55	1	ø5.8	0.004/0.00015"
4700-1002	8-10/0.35-0.425"	ø8	101.6/4"	55	1.5	ø5.8	0.004/0.00015"
4700-1003	10-12/0.425-0.5"	ø10	101.6/4"	55	1.5	ø5.8	0.004/0.00015"
4700-1004	12-16/0.5-0.65"	ø12	152.4/6"	80	0.5	ø11.8	0.004/0.00015"
4700-1005	16-20/0.65-0.8"	ø16	152.4/6"	80	0.5	ø11.8	0.004/0.00015"
4700-1006	20-25/0.8-1.0"	ø20	152.4/6"	90	0.5	ø15.8	0.004/0.00015"
4700-1007	25-30/1.0-1.2"	ø25	152.4/6"	90	0.5	ø15.8	0.004/0.00015"
4700-1008	30-40/1.2-1.6"	ø30	152.4/6"	105	0.5	ø23.8	0.004/0.00015"
4700-1009	40-50/1.6-2.0"	ø40	152.4/6"	105	0.5	ø23.8	0.005/0.0002"
4700-1010	50-63/2.0-2.5"	ø50	152.4/6"	127	0.5	ø23.8	0.005/0.0002"
4700-1011	62-75/2.5-3.0"	ø62	152.4/6"	127	0.5	ø23.8	0.005/0.0002"
4700-1012	75-88/3.0-3.5"	ø75	152.4/6"	127	0.5	ø23.8	0.005/0.0002"
4700-1013	87-100/3.5-4.0"	ø87	152.4/6"	127	0.5	ø23.8	0.005/0.0002"

330° Rotatable Display Screen For Easy Reading at any angle

Highly durable carbide tipped contact points, Applicable for Blind Hole



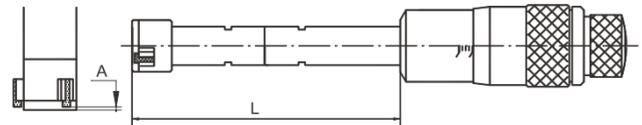
Make Bore Checking More **Accurately and Quicker** Than Ever Before!



### 3 POINTS INSIDE MICROMETER

- Applied for measuring through-holes and blind-holes
- With extension rods which are available in deeper holes
- With Ratchet stop for constant force
- Highly durable because of carbide-tipped measuring surfaces
- Setting rings for zero point adjustment
- Clear graduations laser-etched on satin chrome finish for easy reading
- Spindle hardened, ground and lapped for ultimate accuracy

**DIN 863**



Unit:mm

Code	Range	Setting Ring	Graduation	L	A	Accuracy
4411-5101	6-8	φ6	0.001	54.5	1.5	0.004
4411-5102	8-10	φ8	0.001	54.5	1.5	0.004
4411-5103	10-12	φ10	0.001	54.5	1.5	0.004
4411-5104	12-16	φ12	0.005	80	0.5	0.004
4411-5105	16-20	φ16	0.005	80	0.5	0.004
4411-5106	20-25	φ20	0.005	90	0.5	0.004
4411-5107	25-30	φ25	0.005	90	0.5	0.004
4411-5108	30-40	φ30	0.005	97	0.5	0.004
4411-5109	40-50	φ40	0.005	97	0.5	0.005
4411-5110	50-63	φ50	0.005	114	0.5	0.005
4411-5111	62-75	φ62	0.005	114	0.5	0.005
4411-5112	75-88	φ75	0.005	114	0.5	0.005
4411-5113	87-100	φ87	0.005	114	0.5	0.005

### 3 POINTS INSIDE MICROMETER SET

Unit:mm

Code	Range	Setting Ring	Graduation	Extension Rod	L	A	Accuracy
4411-9205	6-12 (6-8/8-10/10-12)	φ8/φ10	0.001	100	54.5	1.5	0.004
4411-3210	12-20 (12-16/16-20)	φ16	0.005	150	80	0.5	0.004
4411-3215	20-50 (20-25/25-30/30-40/40-50)	φ25/φ40	0.005	150	90/97	0.5	0.004
4411-3220	50-100 (50-63/62-75/75-88/87-100)	φ62/φ87	0.005	150	114	0.5	0.005
4412-0205	0.35"-0.5" (0.35"/0.35-0.425"/0.425-0.5")	0.35"/0.5"	0.0001"	4"	2.18"	0.06"	0.00016"
4412-4210	0.5"-0.8" (0.5-0.65"/0.65-0.8")	0.65"	0.0002"	6"	3.2"	0.02"	0.00016"
4412-4207	0.8"-2" (0.8-1"/1.1-1.2"/1.2-1.6"/1.6-2")	1"/1.6"	0.0002"	6"	3.6"/3.88"	0.02"	0.00016"
4412-4208	2"-4" (2-2.5"/2.5-3"/3-3.5"/3.5-4")	2.5"/3.5"	0.0002"	6"	4.56"	0.02"	0.0002"

### IP54 WATER PROOF DIGITAL 3 POINTS INSIDE MICROMETER

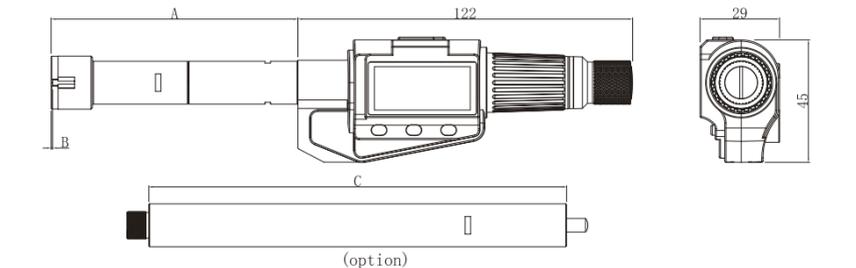
- Applied for measuring through-holes and blind-holes
- With extension rods which are available in deeper holes
- With Ratchet stop for constant force
- Highly durable because of carbide-tipped measuring surfaces
- Setting rings for zero point adjustment
- Large easy-to read display
- Spindle hardened, ground and lapped for ultimate accuracy
- IP54 protection against liquid
- With ABSOLUTE, Hold and Metric/Inch Conversion function

mm/in **DIN 863** **IP54** **Data output**



Unit:mm

Code	Range	Setting Ring	Resolution	A	B	Accuracy
4511-5101	6-8	φ6	0.001/0.00005"	55	1	0.004
4511-5102	8-10	φ8	0.001/0.00005"	55	1.5	0.004
4511-5103	10-12	φ10	0.001/0.00005"	55	1.5	0.004
4511-5104	12-16	φ12	0.001/0.00005"	80	0.5	0.004
4511-5105	16-20	φ16	0.001/0.00005"	80	0.5	0.004
4511-5106	20-25	φ20	0.001/0.00005"	90	0.5	0.004
4511-5107	25-30	φ25	0.001/0.00005"	90	0.5	0.004
4511-5108	30-40	φ30	0.001/0.00005"	105	0.5	0.004
4511-5109	40-50	φ40	0.001/0.00005"	105	0.5	0.005
4511-5110	50-63	φ50	0.001/0.00005"	127	0.5	0.005
4511-5111	62-75	φ62	0.001/0.00005"	127	0.5	0.005
4511-5112	75-88	φ75	0.001/0.00005"	127	0.5	0.005
4511-5113	87-100	φ87	0.001/0.00005"	127	0.5	0.005



### IP54 WATER PROOF DIGITAL 3 POINTS INSIDE MICROMETER SET

Unit:mm

Code	Range	Resolution	Setting Ring	Extension Rod(C)	A	B	Accuracy
4511-9205	6-12 (6-8/8-10/10-12)	0.001/0.00005"	φ8/φ10	101.6	55	1/1.5	0.004
4511-9210	12-20 (12-16/16-20)	0.001/0.00005"	φ16	152.4	80	0.5	0.004
4511-9215	20-50 (20-25/25-30/30-40/40-50)	0.001/0.00005"	φ25/φ40	152.4	90/105	0.5	0.004
4511-9220	50-100 (50-63/62-75/75-88/87-100)	0.001/0.00005"	φ62/φ87	152.4	127	0.5	0.005

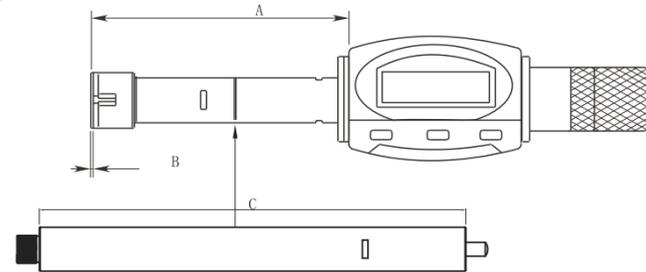
## IP65 WATER PROOF DIGITAL 3 POINTS INSIDE MICROMETER

- IP65 protection against liquid
- For through holes and from up 12.5 mm for blind holes also
- 3V Lithium battery CR2032
- Large LCD display with clear reading
- With data output
- Built in wireless data transmission (optional)
- With ratchet for constant measuring pressure
- With carbide measuring face
- Additional extensions can be added to increase the measuring depth (12mm above optional)
- Setting rings for origin point setting



Unit:mm

Code	Range	Setting Ring	Resolution	A	B	Accuracy
4711-7301	6-8	φ6	0.001/0.00005"	55	1	0.004
4711-7302	8-10	φ8	0.001/0.00005"	55	1.5	0.004
4711-7303	10-12	φ10	0.001/0.00005"	55	1.5	0.004
4711-7304	12-16	φ12	0.001/0.00005"	80	0.5	0.004
4711-7305	16-20	φ16	0.001/0.00005"	80	0.5	0.004
4711-7306	20-25	φ20	0.001/0.00005"	90	0.5	0.004
4711-7307	25-30	φ25	0.001/0.00005"	90	0.5	0.004
4711-7308	30-40	φ30	0.001/0.00005"	105	0.5	0.004
4711-7309	40-50	φ40	0.001/0.00005"	105	0.5	0.005
4711-7310	50-63	φ50	0.001/0.00005"	127	0.5	0.005
4711-7311	62-75	φ62	0.001/0.00005"	127	0.5	0.005
4711-7312	75-88	φ75	0.001/0.00005"	127	0.5	0.005
4711-7313	87-100	φ87	0.001/0.00005"	127	0.5	0.005



### IP65 WATER PROOF DIGITAL 3 POINTS INSIDE MICROMETER SET

Unit:mm

Code	Range	Resolution	Setting Ring	Extension Rod	A	B	Accuracy
4711-4405	6-12	0.001/0.00005"	φ8/φ10	101.6	55	1/1.5	0.004
4711-4410	12-20	0.001/0.00005"	φ16	152.4	80	0.5	0.004
4711-4415	20-50	0.001/0.00005"	φ25/φ40	152.4	90/105	0.5	0.004
4711-4420	50-100	0.001/0.00005"	φ62/φ87	152.4	127	0.5	0.005

## DIGITAL 3-POINT PISTOL BORE GAUGE

- Absolute system
- 3V Lithium battery CR2032
- SPC data output
- Built in wireless data transmission (optional)
- Measuring contact points are designed to allow measurements near the bottom of blind holes
- Setting rings for origin point setting
- Display can rotate 90°
- With carbide measuring face



Size till **350 mm**  
First in the area

Unit:mm

Code	Range	Ring gauge	A	B	D	Accuracy
4600-0001-A	6-8/0.275-0.35"	φ8	55	1	φ5.8	0.004/0.00015"
4600-0002-A	8-10/0.35-0.425"	φ8	55	1.5	φ5.8	0.004/0.00015"
4600-0003-A	10-12/0.425-0.5"	φ12	55	1.5	φ5.8	0.004/0.00015"
4600-0004-A	12-16/0.5-0.65"	φ16	80	0.5	φ11.8	0.004/0.00015"
4600-0005-A	16-20/0.65-0.8"	φ16	80	0.5	φ11.8	0.004/0.00015"
4600-0006-A	20-25/0.8-1.0"	φ25	90	0.5	φ15.8	0.004/0.00015"
4600-0007-A	25-30/1.0-1.2"	φ25	90	0.5	φ15.8	0.004/0.00015"
4600-0008-A	30-40/1.2-1.6"	φ40	105	0.5	φ23.8	0.004/0.00015"
4600-0009-A	40-50/1.6-2.0"	φ40	105	0.5	φ23.8	0.005/0.0002"
4600-0010-A	50-63/2.0-2.5"	φ62	127	0.5	φ23.8	0.005/0.0002"
4600-0011-A	62-75/2.5-3.0"	φ62	127	0.5	φ23.8	0.005/0.0002"
4600-0012-A	75-88/3.0-3.5"	φ87	127	0.5	φ23.8	0.005/0.0002"
4600-0013-A	87-100/3.5-4.0"	φ87	127	0.5	φ23.8	0.005/0.0002"

## UNIVERSAL DIGITAL MICROMETER

- 7 pairs of interchangeable anvils for universal use of measurement
- Strictly made in accordance with DIN863
- Spindle hardened, ground and lapped for ultimate accuracy
- With spindle lock
- With Absolute, Inch-Metric Conversion and Zero-Set function
- Stainless steel newly adapted on spindle
- Carbide measuring surfaces ground for longer service life

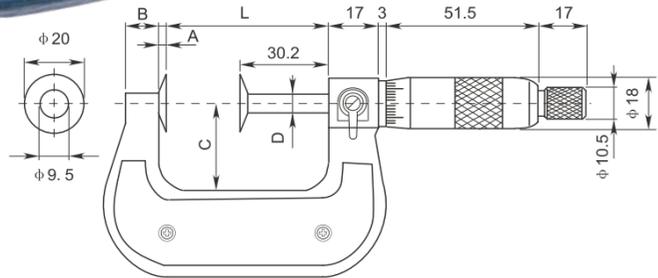
Unit:mm

Code	Range	Resolution
4210-2103	0-25/0-1"	0.001/0.00005"
4210-2106	25-50/1"-2"	0.001/0.00005"



## DISC MICROMETER

DIN 863



- Used to easily measure root tangent length of spur gears and helical gears
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With ratchet stop for constant force

Unit:mm

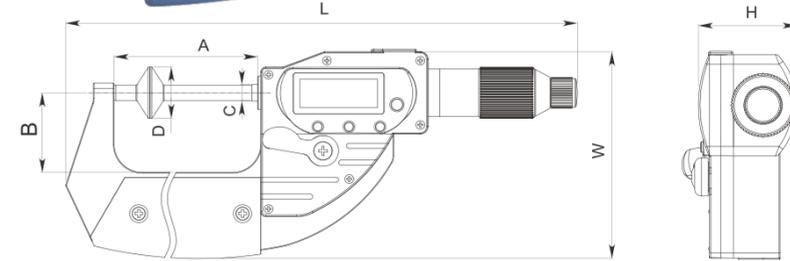
Code	Range*Graduation	L	A	B	C	D	Accuracy
4111-8102	0-25*0.01	33	2.8	7	24	φ6.5	0.004
4111-8104	25-50*0.01	58	2.8	11	30	φ6.5	0.004
4111-8106	50-75*0.01	83	2.8	11	42.5	φ6.5	0.005
4111-8108	75-100*0.01	108	2.8	11	55	φ6.5	0.005
4112-5102	0-1*0.001	33	2.8	7	24	φ6.5	0.0002"
4112-5104	1-2*0.001	58	2.8	11	30	φ6.5	0.0002"
4112-5106	2-3*0.001	83	2.8	11	42.5	φ6.5	0.00025"
4112-5108	3-4*0.001	108	2.8	11	55	φ6.5	0.00025"

## DIGITAL QUICK-MOVE DISC MICROMETER

DIN 863 mm in



WIRELESS TRANSMITTER Absolute

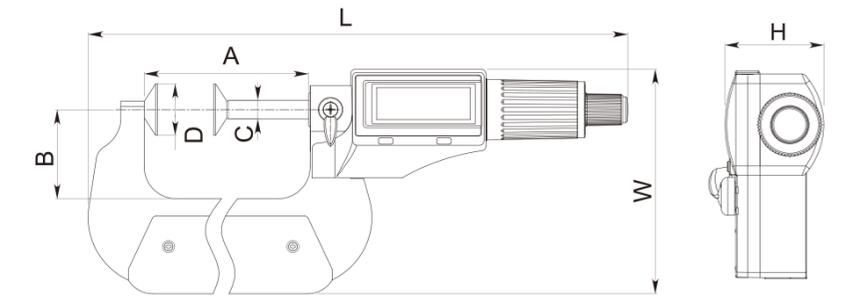


- Used to easily measure root tangent length of spur gears and helical gears
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- IP65 protection against liquid
- With Absolute and Metric-Inch Conversion System
- With ratchet stop for constant force

Unit:mm

Code	Range	Resolution	A	B	C	D	L	W	H	Accuracy
4220-2104	0-25/0-1"	0.001/0.00005"	55.3	31	φ6.5	φ20	197.2	80.5	30.8	0.003/0.00015"
4220-2108	25-50/1-2"	0.001/0.00005"	80.3	44	φ6.5	φ20	227.5	96	30.8	0.003/0.00015"
4220-2112	50-75/2-3"	0.001/0.00005"	105.3	56	φ6.5	φ20	257.6	112.5	30.8	0.004/0.00015"

## DIGITAL DISC MICROMETER



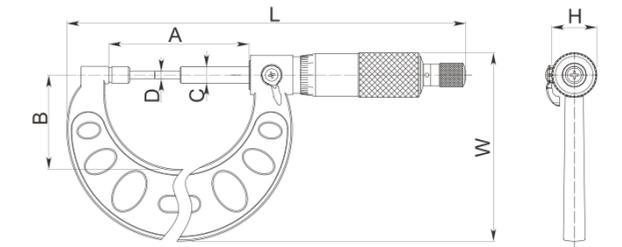
- Used to easily measure root tangent length of spur gears and helical gears
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- With Absolute and Metric-Inch Conversion System

Unit:mm

Code	Range	Resolution	A	B	C	D	L	W	H	Accuracy
4113-2005	0-25/0-1"	0.001/0.00005"	55.3	31	φ6.5	φ20	197.2	80.5	30.8	0.003/0.00015"
4113-2010	25-50/1-2"	0.001/0.00005"	80.3	44	φ6.5	φ20	227.5	96	30.8	0.003/0.00015"
4113-2015	50-75/2-3"	0.001/0.00005"	105.3	56	φ6.5	φ20	257.6	112.5	30.8	0.004/0.00015"
4113-2020	75-100/3-4"	0.001/0.00005"	132	66	φ6.5	φ20	269.7	127.8	30.8	0.004/0.00015"

## SPLINE MICROMETER

DIN 863



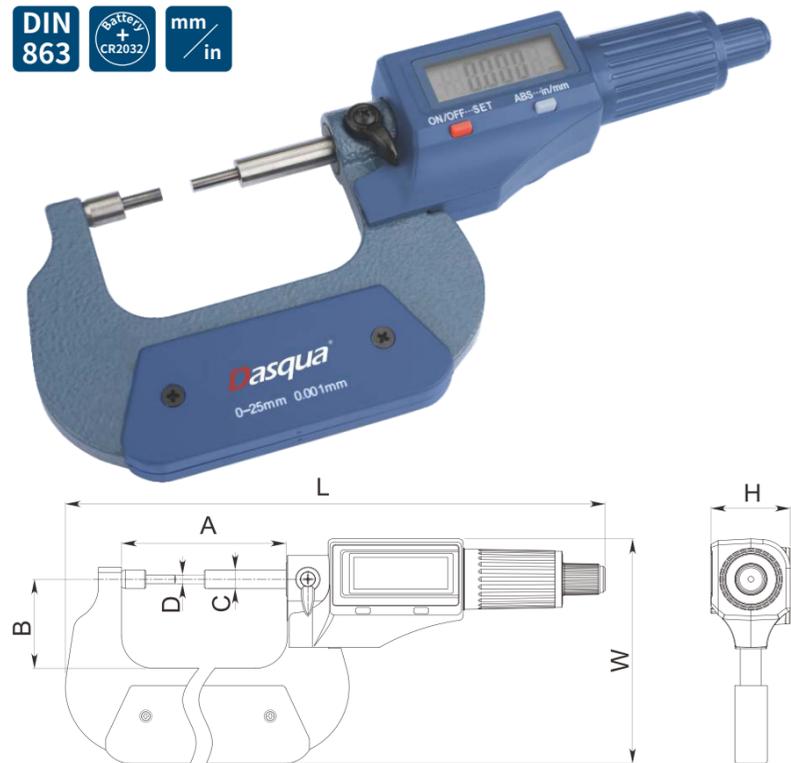
- Used to measure spline shafts, slots and keyways
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With ratchet stop for constant force

Unit:mm

Code	Range	Graduation	A	B	C	D	L	W	H	Accuracy
4710-1005	0-25	0.01	56	38	φ6.5	φ3.0	160	76	φ18	0.004/0.00015"
4710-1010	25-50	0.01	81	51	φ6.5	φ3.0	185.5	91	φ18	0.004/0.00015"
4710-1015	50-75	0.01	106	63.5	φ6.5	φ3.0	210.5	105	φ18	0.005/0.0002"
4710-1020	75-100	0.01	131	76	φ6.5	φ3.0	237.3	125	φ18	0.005/0.0002"
4710-2005	0-1"	0.001"	56	38	φ6.5	φ3.0	160	76	φ18	0.004/0.00015"
4710-2010	1-2"	0.001"	81	51	φ6.5	φ3.0	185.5	91	φ18	0.004/0.00015"
4710-2015	2-3"	0.001"	106	63.5	φ6.5	φ3.0	210.5	105	φ18	0.005/0.0002"
4710-2020	3-4"	0.001"	131	76	φ6.5	φ3.0	237.3	125	φ18	0.005/0.0002"
4710-2305	0-1"	0.0001"	56	38	φ6.5	φ3.0	160	76	φ18	0.004/0.00015"
4710-2310	1-2"	0.0001"	81	51	φ6.5	φ3.0	185.5	91	φ18	0.004/0.00015"
4710-2315	2-3"	0.0001"	106	63.5	φ6.5	φ3.0	210.5	105	φ18	0.005/0.0002"
4710-2320	3-4"	0.0001"	131	76	φ6.5	φ3.0	237.3	125	φ18	0.005/0.0002"

## DIGITAL SPLINE MICROMETER

DIN 863  



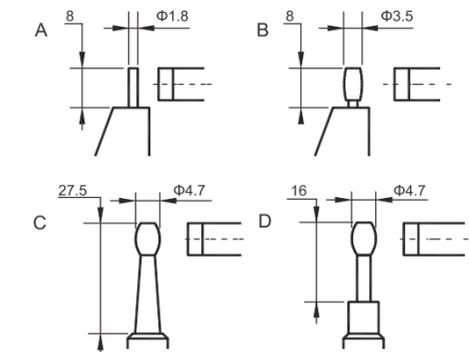
- Used to measure spline shafts, slots and keyways
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- With Absolute and Metric-Inch Conversion System
- With ratchet stop for constant force

Unit:mm

Code	Range	Resolution	A	B	C	D	L	W	H	Accuracy
4720-2005	0-25/0-1"	0.001/0.00005"	56.5	31	φ6.5	φ3.0	185.4	77.9	27.3	0.003/0.00015"
4720-2010	25-50/1-2"	0.001/0.00005"	81.5	44	φ6.5	φ3.0	211.9	93.4	27.3	0.003/0.00015"
4720-2015	50-75/2-3"	0.001/0.00005"	107.1	56	φ6.5	φ3.0	239.9	111.4	27.3	0.004/0.00015"
4720-2020	75-100/3-4"	0.001/0.00005"	132	66	φ6.5	φ3.0	269.7	127.8	27.3	0.004/0.00015"

## TUBE MICROMETER

DIN 863



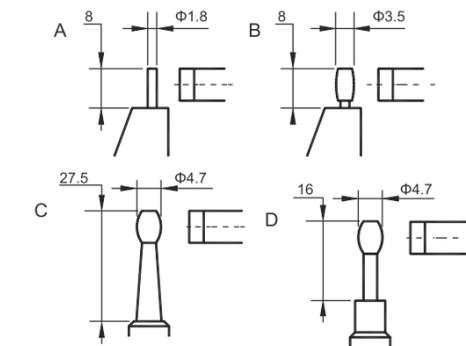
- Strictly made in accordance with DIN863
- Used to measure wall thickness of various tubes
- With Carbide-tipped measuring faces
- With ratchet for constant measuring pressure

Unit:mm

Code	Range	Graduation	Type	Accuracy
4440-1005	0-25	0.01	Anvil Type A	0.006
4440-1010	0-25	0.01	Anvil Type B	0.006
4440-1015	0-25	0.01	Anvil Type C	0.006
4440-1020	0-25	0.01	Anvil Type D	0.006

## DIGITAL TUBE MICROMETER

IP65   Data output



- Strictly made in accordance with DIN863
- Protection level IP65
- For measuring wall thickness of various tubes
- Carbide-tipped measuring faces
- With ratchet for constant measuring pressure

Unit:mm

Code	Range	Resolution	Type	Accuracy
4400-0005	0-25/0-1"	0.001/0.00005"	Anvil Type A	±0.003
4400-0010	0-25/0-1"	0.001/0.00005"	Anvil Type B	±0.003
4400-0015	0-25/0-1"	0.001/0.00005"	Anvil Type C	±0.003
4400-0020	0-25/0-1"	0.001/0.00005"	Anvil Type D	±0.003

## SPHERICAL ANVIL TUBE MICROMETER

DIN 863



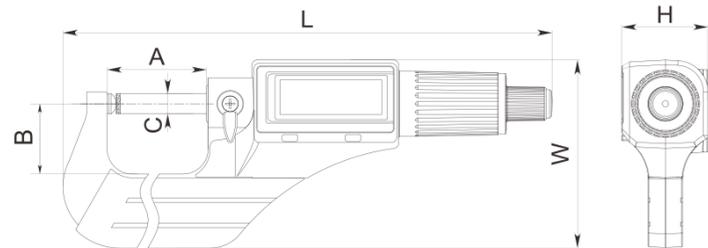
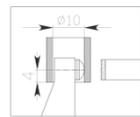
- Used to measure wall thickness of tubes
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Style:
  - S-F:Spherical anvil and flat spindle
  - S-S:Spherical anvil and spherical spindle
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With ratchet stop for constant force

Unit:mm

Code	Range	Graduation	A	B	C	H	Style	Accuracy
4510-1005	0-25	0.01	31	29.5	φ6.5	φ18	S-F	0.004
4510-1010	25-50	0.01	56	38	φ6.5	φ18	S-F	0.004
4510-1015	50-75	0.01	81	51	φ6.5	φ18	S-F	0.005
4510-1020	75-100	0.01	106	63.5	φ6.5	φ18	S-F	0.005
4510-2005	0-1"	0.001"	31	29.5	φ6.5	φ18	S-F	0.004
4510-2010	1-2"	0.001"	56	38	φ6.5	φ18	S-F	0.004
4510-2015	2-3"	0.001"	81	51	φ6.5	φ18	S-F	0.005
4510-2020	3-4"	0.001"	106	63.5	φ6.5	φ18	S-F	0.005
4510-2305	0-1"	0.0001"	31	29.5	φ6.5	φ18	S-F	0.004
4510-2310	1-2"	0.0001"	56	38	φ6.5	φ18	S-F	0.004
4510-2315	2-3"	0.0001"	81	51	φ6.5	φ18	S-F	0.005
4510-2320	3-4"	0.0001"	106	63.5	φ6.5	φ18	S-F	0.005
4330-1005	0-25	0.01	32	24	φ6.5	φ18	S-S	0.004
4330-1010	25-50	0.01	57	32	φ6.5	φ18	S-S	0.004
4330-1015	50-75	0.01	82	45	φ6.5	φ18	S-S	0.005
4330-1020	75-100	0.01	107	57	φ6.5	φ18	S-S	0.005

## DIGITAL SPHERICAL ANVIL TUBE MICROMETER

DIN 863 Battery + CR2032



- Used to measure wall thickness of tubes
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- With Absolute and Metric-Inch Conversion System

Unit:mm

Code	Range	Resolution	A	B	C	L	W	H	Accuracy
4520-2005	0-25/0-1"	0.001/0.00005"	31.5	22.5	φ6.5	155	60.2	27.3	0.003/0.00015"
4520-2010	25-50/1-2"	0.001/0.00005"	56.5	31	φ6.5	185.4	77.9	27.3	0.003/0.00015"
4520-2015	50-75/2-3"	0.001/0.00005"	81.5	44	φ6.5	211.9	93.4	27.3	0.004/0.00015"
4520-2020	75-100/3-4"	0.001/0.00005"	107.1	56	φ6.5	239.9	111.4	27.3	0.004/0.00015"
4520-6405	0-25/0-1"	0.001/0.00005"	31.5	22.5	φ6.5	155	60.2	27.3	0.003/0.00015"
4520-6410	25-50/1-2"	0.001/0.00005"	56.5	31	φ6.5	185.4	77.9	27.3	0.003/0.00015"
4520-6415	50-75/2-3"	0.001/0.00005"	81.5	44	φ6.5	211.9	93.4	27.3	0.004/0.00015"
4520-6420	75-100/3-4"	0.001/0.00005"	107.1	56	φ6.5	239.9	111.4	27.3	0.004/0.00015"

## POINT MICROMETER



DIN 863

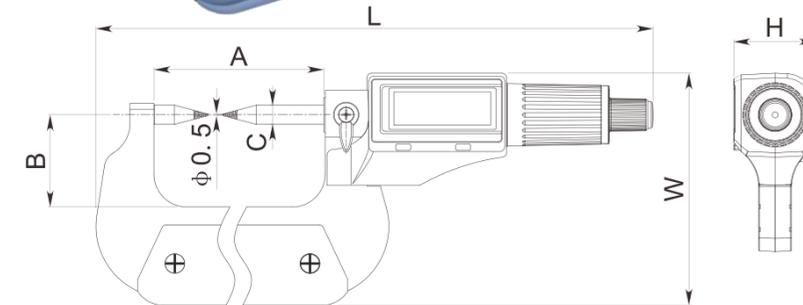
- Used to measure the web thickness of drills, small grooves and other hard to reach dimensions
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading
- With ratchet stop for constant force
- Style: F-F:Flat Anvil and Flat Spindle
- S-S:Spherical Anvil and Spherical Spindle

Unit:mm

Code	Range	Graduation	A	B	C	H	Style	Accuracy
4610-1005	0-25	0.01	56	38	φ6.5	φ18	F-F	0.004
4610-1010	25-50	0.01	81	51	φ6.5	φ18	F-F	0.004
4610-1015	50-75	0.01	106	63.5	φ6.5	φ18	F-F	0.005
4610-1020	75-100	0.01	131	76	φ6.5	φ18	F-F	0.005
4610-1405	0-25	0.01	57	32	φ6.5	φ18	S-S	0.004
4610-1410	25-50	0.01	82	45	φ6.5	φ18	S-S	0.004
4610-1415	50-75	0.01	107	57	φ6.5	φ18	S-S	0.005
4610-1420	75-100	0.01	133	70	φ6.5	φ18	S-S	0.005
4610-2005	0-1"	0.001"	56	38	φ6.5	φ18	F-F	0.004
4610-2010	1-2"	0.001"	81	51	φ6.5	φ18	F-F	0.004
4610-2015	2-3"	0.001"	106	63.5	φ6.5	φ18	F-F	0.005
4610-2020	3-4"	0.001"	131	76	φ6.5	φ18	F-F	0.005
4610-2305	0-1"	0.0001"	56	38	φ6.5	φ18	F-F	0.004
4610-2310	1-2"	0.0001"	81	51	φ6.5	φ18	F-F	0.004
4610-2315	2-3"	0.0001"	106	63.5	φ6.5	φ18	F-F	0.005
4610-2320	3-4"	0.0001"	131	76	φ6.5	φ18	F-F	0.005

## DIGITAL POINT MICROMETER

DIN 863 Battery + CR2032



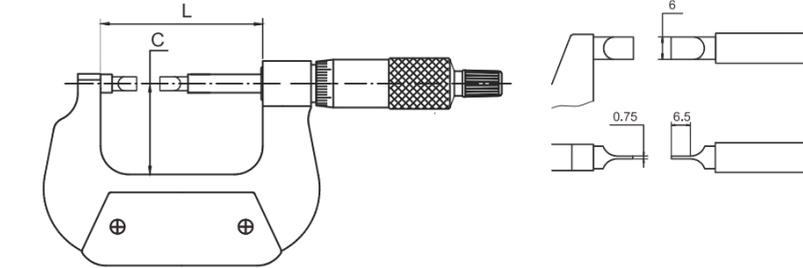
- Used to measure the web thickness of drills, small grooves and other hard to reach dimensions
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- With Absolute and Metric-Inch Conversion System
- With ratchet stop for constant force

Unit:mm

Code	Range	Resolution	A	B	C	W	H	Accuracy
4620-2005	0-25/0-1"	0.001/0.00005"	56.5	31	φ6.5	185.4	77.9	φ27.3 0.003/0.00015"
4620-2010	25-50/1-2"	0.001/0.00005"	81.5	44	φ6.5	211.9	93.4	φ27.3 0.003/0.00015"
4620-2015	50-75/2-3"	0.001/0.00005"	107.1	56	φ6.5	239.9	111.4	φ27.3 0.004/0.00015"
4620-2020	75-100/3-4"	0.001/0.00005"	132	66	φ6.5	269.7	127.8	φ27.3 0.004/0.00015"

## BLADE MICROMETER

DIN 863



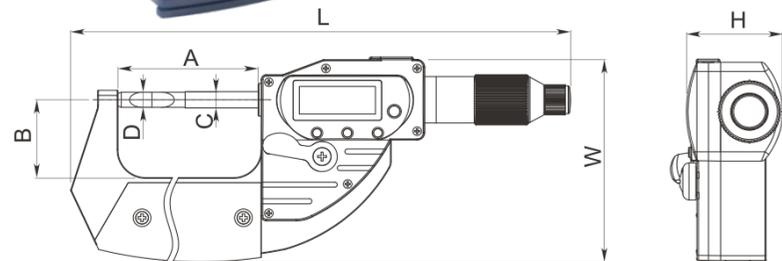
- Used to measure non-rotating spindle with blade type measuring face
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy

Unit:mm

Code	Range	Graduation	C	L
4570-1005	0-25	0.01	32	57
4570-1010	25-50	0.01	45	82
4570-1015	50-75	0.01	57	107
4570-1020	75-100	0.01	70	133
4570-1025	100-125	0.01	82	159
4570-1030	125-150	0.01	95	184
4570-2005	0-1"-0.001"	0.001"	32	57
4570-2010	1-2"-0.001"	0.001"	45	82
4570-2015	2-3"-0.001"	0.001"	57	107
4570-2020	3-4"-0.001"	0.001"	70	133
4570-2025	4-5"-0.001"	0.001"	82	159
4570-2030	5-6"-0.001"	0.001"	95	184

# DIGITAL QUICK-MOVE BLADE MICROMETER

- mm/in
- DIN 863
- WIRELESS TRANSMITTER
- Data output
- IP65 COOLANT & FLUID RESISTANT
- Absolute
- Battery + CR2032



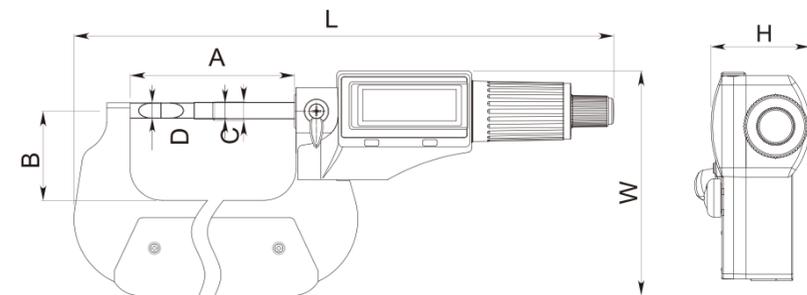
- Used to measure non-rotating spindle with blade type measuring face
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- With Absolute and Metric-Inch Conversion System
- With ratchet stop for constant force

Unit:mm

Code	Range	Resolution	A	B	C	D	L	W	H	Accuracy
4220-2103	0-25/0-1"	0.001/0.00005"	55.3	31	φ6.5	φ6	197.2	80.5	30.8	0.003/0.00015"
4220-2106	25-50/1-2"	0.001/0.00005"	80.3	44	φ6.5	φ6	227.5	96	44	0.003/0.00015"
4220-2109	50-75/2-3"	0.001/0.00005"	105.3	56	φ6.5	φ6	257.6	112.5	56	0.004/0.00015"

# DIGITAL BLADE MICROMETER

- DIN 863
- Battery + CR2032
- mm/in



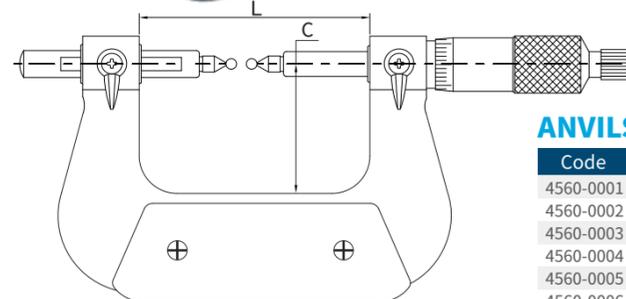
- Used to measure non-rotating spindle with blade type measuring face
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- With Absolute and Metric-Inch Conversion System

Unit:mm

Code	Range	Resolution	A	B	C	D	L	W	H	Accuracy
4570-5005	0-25/0-1"	0.001/0.00005"	55.3	31	φ6.5	φ6	197.2	80.5	30.8	0.003/0.00015"
4570-5010	25-50/1-2"	0.001/0.00005"	80.3	44	φ6.5	φ6	227.5	96	30.8	0.003/0.00015"
4570-5015	50-75/2-3"	0.001/0.00005"	105.3	56	φ6.5	φ6	257.6	112.5	30.8	0.004/0.00015"
4570-5020	75-100/3-4"	0.001/0.00005"	132	66	φ6.5	φ6	269.7	127.8	30.8	0.004/0.00015"

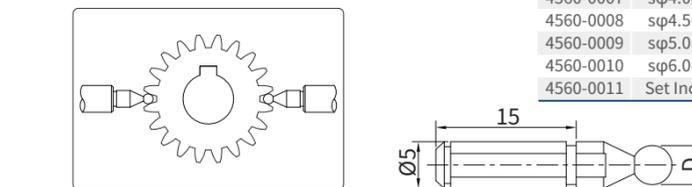
# GEAR MICROMETER WITHOUT ANVILS

- DIN 863



## ANVILS

Code	Ball dia.(D)	Module	Dia. Pitch	Remark
4560-0001	sφ1.0mm	0.6-0.65	45	anvil available for both mechanical and digital
4560-0002	sφ1.5mm	0.9-1.0	28-26	
4560-0003	sφ2.0mm	1.25	22	
4560-0004	sφ2.5mm	1.5	17	
4560-0005	sφ3.0mm	1.75	15	
4560-0006	sφ3.5mm	2	13	
4560-0007	sφ4.0mm	2.25	11	
4560-0008	sφ4.5mm	2.5	10	
4560-0009	sφ5.0mm	2.75	9	
4560-0010	sφ6.0mm	3.5	7	
4560-0011	Set Including all above			



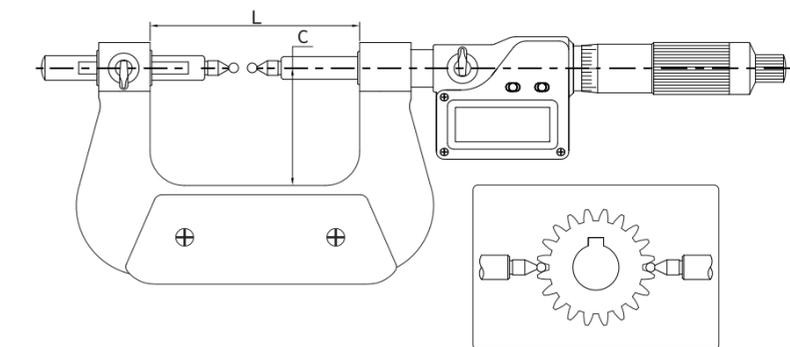
- Strictly made in accordance with DIN863
- Interchangeable ball tips for various gear modules (0.6~3.5) are optional
- With ratchet for constant measuring pressure

Unit:mm

Code	Range	Graduation	C	L	Accuracy
4550-1005	0-25	0.01	38	67	0.004
4550-1010	25-50	0.01	50	92	0.004
4550-1015	50-75	0.01	62	118	0.005
4550-1020	75-100	0.01	70	143	0.005
4550-1025	100-125	0.01	82	168	0.006
4550-1030	125-150	0.01	95	192	0.006

# DIGITAL GEAR MICROMETER WITHOUT ANVILS

- IP65 COOLANT & FLUID RESISTANT
- mm/in
- Battery + LR44
- Data output



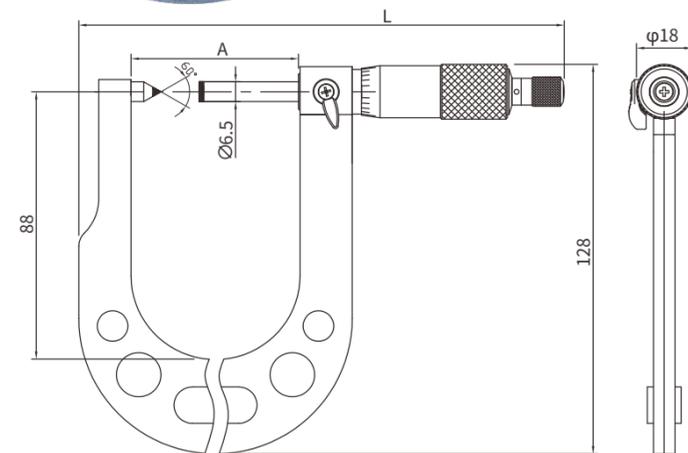
- Strictly made in accordance with DIN863
- Used to measure over-pin diameter of external gears
- Interchangeable ball tips for various gear modules (0.6~3.5) are optional.
- IP65 protection against liquid
- With ratchet for constant measuring pressure

Unit:mm

Code	Range	Resolution	C	L	Accuracy
4570-0005	0-25/0-1"	0.001/0.00005"	38	67	±0.002
4570-0010	25-50/1-2"	0.001/0.00005"	50	92	±0.002
4570-0015	50-75/2-3"	0.001/0.00005"	62	118	±0.003
4570-0020	75-100/3-4"	0.001/0.00005"	70	143	±0.003
4570-0025	100-125/4-5"	0.001/0.00005"	82	168	±0.003
4570-0030	125-150/5-6"	0.001/0.00005"	95	192	±0.003

## DISK BRAKE MICROMETER

DIN 863



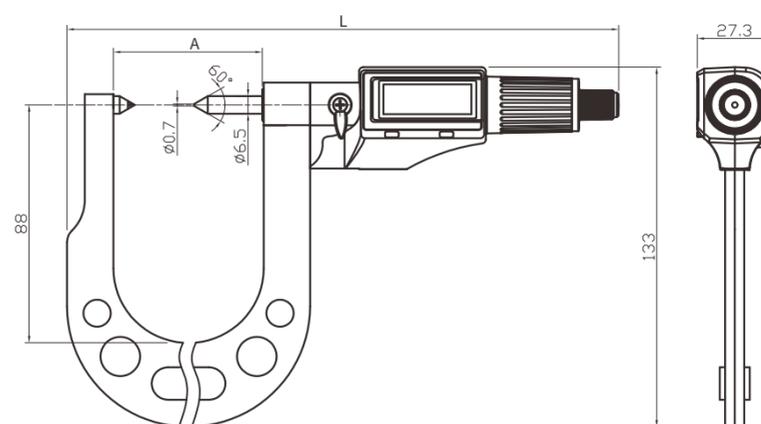
- Strictly made in accordance with DIN863
- To measure brake disc thickness in car
- With carbide measuring face
- With ratchet for constant measuring force

Unit:mm

Code	Range	Graduation	A	L	Accuracy
4521-0005	7-32	0.01	44.5	148	0.004
4521-0010	10-45	0.01	54.5	158	0.004

## DIGITAL DISK BRAKE MICROMETER

mm  
in



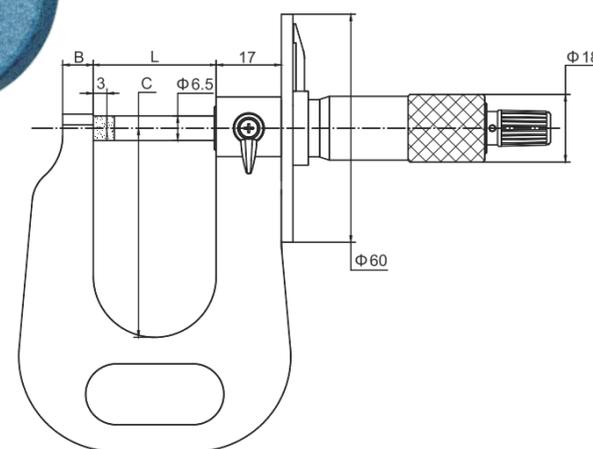
- Strictly made in accordance with DIN863
- With incremental capacity measurement system
- With carbide measurement surface
- Adapt to measuring the dimension that is not easy to measure

Unit:mm

Code	Range	Resolution	A	L	Accuracy
4520-1005	7-32/0.3-1.3"	0.001/0.00005"	44.5	192	0.004/0.0002"
4520-1010	18-43/0.7-1.7"	0.001/0.00005"	54.5	202	0.004/0.0002"

## SHEET METAL MICROMETER

DIN 863



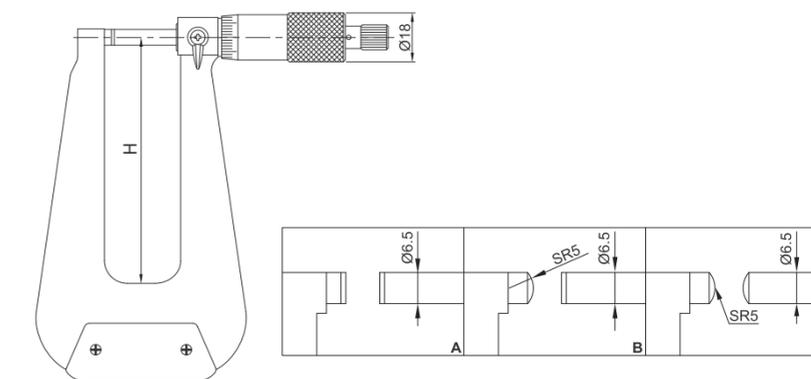
- Strictly made in accordance with DIN863
- A dial is attached to the sleeve for making easy and quick reading of sheet metal thickness
- With carbide measuring face
- With ratchet for constant measuring force

Unit:mm

Code	Range	Graduation	L	B	C	Accuracy
4731-0005	0-15	0.01	22	8	50	0.004
4731-0010	0-25	0.01	32	8	50	0.004
4731-0015	0-50	0.01	57	12	100	0.005

## SHEET METAL MICROMETER

DIN 863

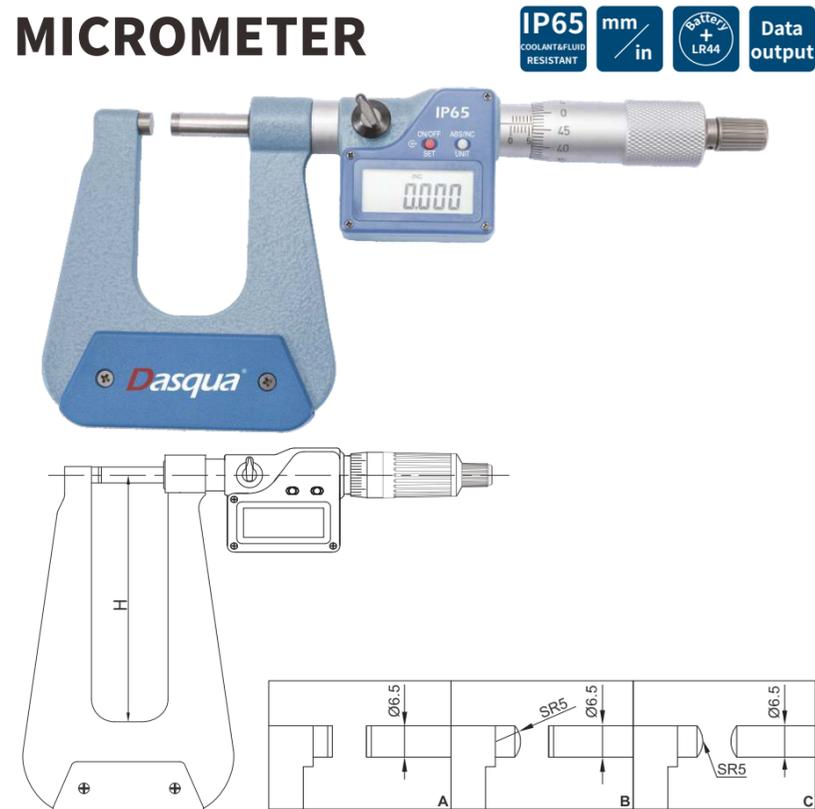


- Strictly made in accordance with DIN863
- Deep throat frame for measuring thickness of sheet metal, paper, plastic and rubber parts
- With carbide measuring face
- With ratchet for constant measuring force

Unit:mm

Code	Range	Graduation	H	Style	Accuracy
4561-1005	0-25	0.01	150	A	0.006
4561-1010	0-25	0.01	150	B	0.006
4561-1015	0-25	0.01	150	C	0.006
4561-1020	0-25	0.01	300	B	0.007

## DIGITAL SHEET METAL MICROMETER



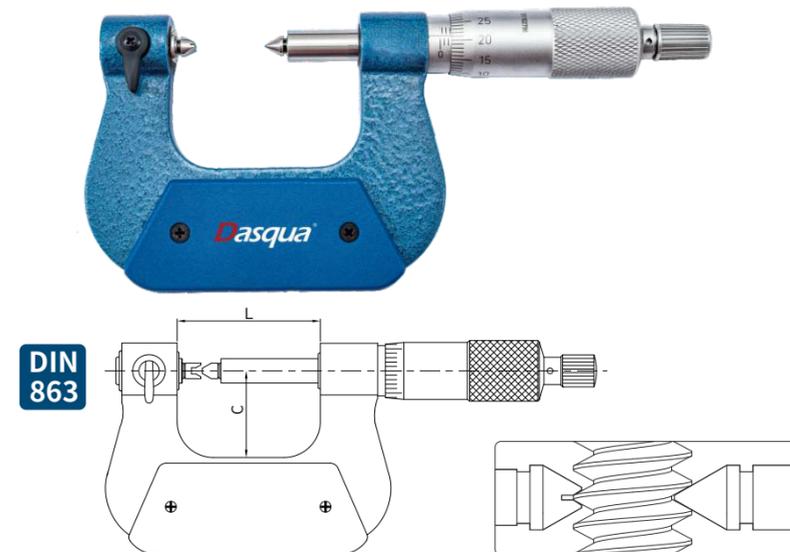
- Strictly made in accordance with DIN863
- Deep throat frame for measuring thickness of sheet metal, paper, plastic, and rubber parts
- With carbide measuring face
- With ratchet for constant measuring pressure
- IP65 protection against liquid

Unit:mm

Code	Range	Resolution	H	Style	Accuracy
4560-4005	0-25/0-1"	0.001/0.00005"	150	A	±0.003
4560-4010	0-25/0-1"	0.001/0.00005"	150	B	±0.003
4560-4015	0-25/0-1"	0.001/0.00005"	150	C	±0.003
4560-4020	0-25/0-1"	0.001/0.00005"	300	B	±0.004

## SCREW THREAD MICROMETER

NON-ROTATING SPINDLE TYPE WITHOUT ANVILS



- Strictly made in accordance with DIN863
- Used for external thread measurements
- 60° or 55° V-shaped and con-shaped anvils (interchangeable) are available
- Dimension of anvil-tail: Φ5X15mm
- With ratchet for constant measuring pressure
- **Without screw thread heads, which can be found and ordered in page 82**

Unit:mm

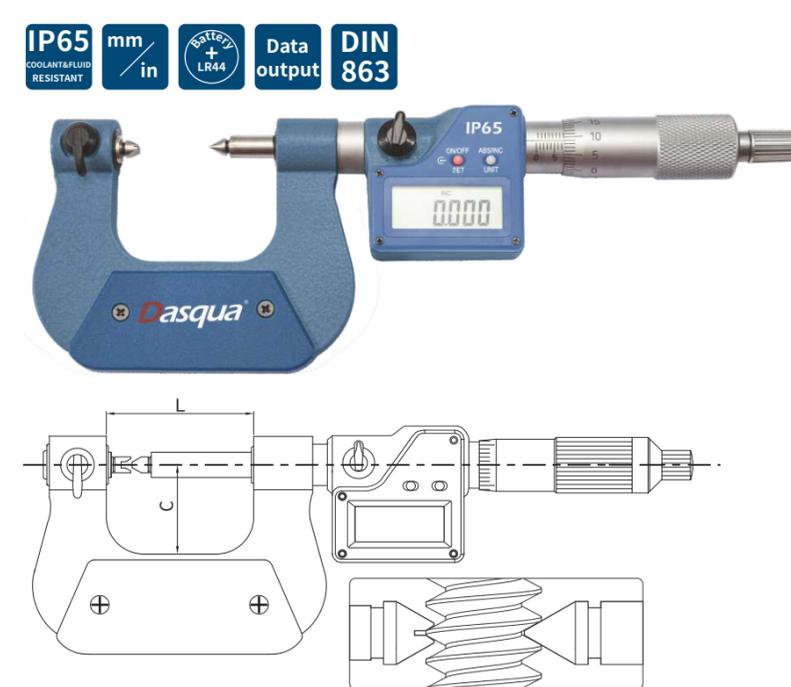
Code	Range	Graduation	L	C	Accuracy
4157-4005	0-25	0.01	42	26	0.004
4157-4010	25-50	0.01	67	38	0.004
4157-4015	50-75	0.01	92	50	0.005
4157-4020	75-100	0.01	118	62	0.005

ROTATING SPINDLE TYPE WITH ANVILS

Code	Range	Graduation	L	C	Accuracy
4107-1005	0-25	0.01	42	26	0.004
4107-1010	25-50	0.01	67	38	0.004
4107-1015	50-75	0.01	92	50	0.005
4107-1020	75-100	0.01	118	62	0.005

## DIGITAL SCREW THREAD MICROMETER

NON-ROTATING SPINDLE TYPE



- Strictly made in accordance with DIN863
- Used for external thread measurements
- 60° or 55° V-shaped and con-shaped anvils (interchangeable) are available
- With ratchet for constant measuring pressure
- Protection level IP65
- **Without screw thread heads, which can be found and ordered in page 82**

Unit:mm

Code	Range	Graduation	L	C	Accuracy
4127-0005	0-25/0-1"	0.001/0.00005"	42	26	±0.002
4127-0010	25-50/1-2"	0.001/0.00005"	67	38	±0.002
4127-0015	50-75/2-3"	0.001/0.00005"	92	50	±0.002
4127-0020	75-100/4-5"	0.001/0.00005"	118	62	±0.003

## TUBULAR INSIDE SCREW THREAD MICROMETER



- Operating and display units antiglare with satin chrome finish
- Measuring head and End piece with mounting bore for interchangeable anvils
- Rigid, lightweight tubular construction
- Interchangeable extensions with cylindrical gauge rods which are spring-mounted in protective sleeve for the extension of the measuring range
- Protection sleeve have a satin chrome finish
- **Without screw thread heads, which can be found and ordered in page 82**

Unit:mm

Code	Range	Graduation	Accuracy
4321-0001	75-100	0.01	0.03
4321-0002	100-125	0.01	0.03
4321-0003	125-150	0.01	0.03
4321-0004	150-175	0.01	0.03
4321-0005	175-200	0.01	0.04
4321-0006	200-225	0.01	0.04
4321-0007	225-250	0.01	0.04
4321-0008	250-275	0.01	0.04
4321-0009	275-300	0.01	0.05

## HEAD OF SCREW THREAD MICROMETER



Unit:mm

Code	Thread type	Pitch	Remark
4560-6001	Metric 60°	0.4-0.5/64-48TPI	anvil available for:
4560-6002	Metric 60°	0.6-0.9/44-28TPI	4157-4005
4560-6003	Metric 60°	1-1.75/24-14TPI	4157-4010
4560-6004	Metric 60°	2-3/13-9TPI	4157-4015
4560-6005	Metric 60°	3.5-5/8-5TPI	4157-4020
4560-6006	Metric 60°	5.5-7/4.5-3.5TPI	4127-0005
4560-5501	Withworth 55°	60-48TPI	4127-0010
4560-5502	Withworth 55°	48-40TPI	4127-0015
4560-5503	Withworth 55°	40-32TPI	4127-0020
4560-5504	Withworth 55°	32-24TPI	4321-0001
4560-5505	Withworth 55°	24-18TPI	4321-0002
4560-5506	Withworth 55°	18-14TPI	4321-0003
4560-5507	Withworth 55°	14-10TPI	4321-0004
4560-5508	Withworth 55°	10-7TPI	4321-0005
4560-5509	Withworth 55°	7-4.5TPI	4321-0006
4560-5510	Withworth 55°	4.5-3.5TPI	4321-0007
			4321-0008
			4321-0009

## PITCH DIAMETER GAUGE

- Designed to be suspended over a test specimen; Pin gauges are the most reliable tools for measuring the pitch diameter of external thread, which is the most important dimension in a screw thread.
- A set is consisting of 3 pin gauges



Unit:mm

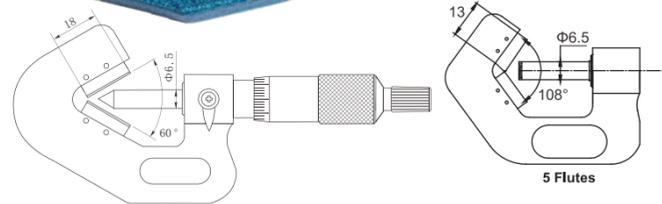
Code		Size	Code		Size	Code		Size
Grade 0 ± 0.00025	Grade 1 ± 0.0005		Grade 0 ± 0.00025	Grade 1 ± 0.0005		Grade 0 ± 0.00025	Grade 1 ± 0.0005	
4090-7730	4091-5510	φ0.118	4090-7747	4091-5527	φ1.008	4090-7765	4091-5545	φ3.177
4090-7731	4091-5511	φ0.142	4090-7748	4091-5528	φ1.047	4090-7766	4091-5546	φ3.287
4090-7732	4091-5512	φ0.170	4090-7749	4091-5529	φ1.157	4090-7767	4091-5547	φ3.310
4090-7733	4091-5513	φ0.185	4090-7750	4091-5530	φ1.302	4090-7768	4091-5548	φ3.550
4090-7782	4091-5562	φ0.210	4090-7751	4091-5531	φ1.411	4090-7769	4091-5549	φ3.580
4090-7734	4091-5514	φ0.232	4090-7752	4091-5532	φ1.553	4090-7770	4091-5550	φ3.666
4090-7735	4091-5515	φ0.250	4090-7753	4091-5533	φ1.591	4090-7771	4091-5551	φ4.091
4090-7736	4091-5516	φ0.260	4090-7754	4091-5534	φ1.732	4090-7772	4091-5552	φ4.120
4090-7737	4091-5517	φ0.291	4090-7755	4091-5535	φ1.833	4090-7773	4091-5553	φ4.141
4090-7738	4091-5518	φ0.343	4090-7756	4091-5536	φ2.020	4090-7774	4091-5554	φ4.211
4090-7739	4091-5519	φ0.402	4090-7757	4091-5537	φ2.050	4090-7775	4091-5555	φ4.400
4090-7740	4091-5520	φ0.433	4090-7758	4091-5538	φ2.071	4090-7776	4091-5556	φ4.773
4090-7741	4091-5521	φ0.461	4090-7759	4091-5539	φ2.217	4090-7777	4091-5557	φ5.150
4090-7742	4091-5522	φ0.511	4090-7760	4091-5540	φ2.311	4090-7778	4091-5558	φ5.176
4090-7743	4091-5523	φ0.572	4090-7761	4091-5541	φ2.595	4090-7779	4091-5559	φ5.493
4090-7744	4091-5524	φ0.724	4090-7762	4091-5542	φ2.866	4090-7780	4091-5560	φ6.212
4090-7745	4091-5525	φ0.796	4090-7763	4091-5543	φ2.886	4090-7781	4091-5561	φ6.585
4090-7746	4091-5526	φ0.866	4090-7764	4091-5544	φ3.106			

## V-ANVIL MICROMETER

DIN 863



• 4471-0005



5 Flutes

- Strictly made in accordance with DIN863
- Used to measure the outside diameter of cutting tools (such as taps, reamers, end mills) with an odd number of flutes.
- V-anvils with a centerline groove are available. They are useful for measuring pitch diameters of taps which have a small diameter by using single-wire method.
- With carbide measuring face
- Ratchet stop for constant force
- 1-15mm, with pointed tip on Spindle

Unit:mm

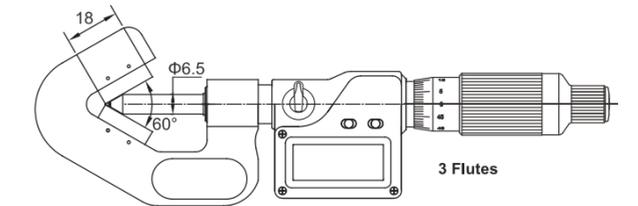
Code	Range	Graduation	Ratchet stop	Accuracy
4471-0005	1-15	0.01	3 Flutes	0.004
4471-0010	5-20	0.01	3 Flutes	0.004
4471-0015	20-35	0.01	3 Flutes	0.005
4471-0020	35-50	0.01	3 Flutes	0.005
4471-0025	50-65	0.01	3 Flutes	0.006
4471-0030	65-80	0.01	3 Flutes	0.006
4471-0035	80-95	0.01	3 Flutes	0.007
4471-0040	2.3-25	0.01	3 Flutes	0.004
4471-0045	25-50	0.01	3 Flutes	0.005
4471-0050	5-25	0.01	5 Flutes	0.004
4471-0055	25-45	0.01	5 Flutes	0.005
4471-0060	45-65	0.01	5 Flutes	0.006
4471-0065	65-85	0.01	5 Flutes	0.007
4471-0070	85-105	0.01	5 Flutes	0.008

## IP65 WATER PROOF DIGITAL V-ANVIL MICROMETER

- IP65 protection against liquid
- With carbide measuring face
- Strictly made in accordance with DIN863
- With ratchet for constant measuring pressure
- Measuring diameter of cylinder with an odd number flutes, such as taps, reamers and end mills



• 4470-0005



3 Flutes

Unit:mm

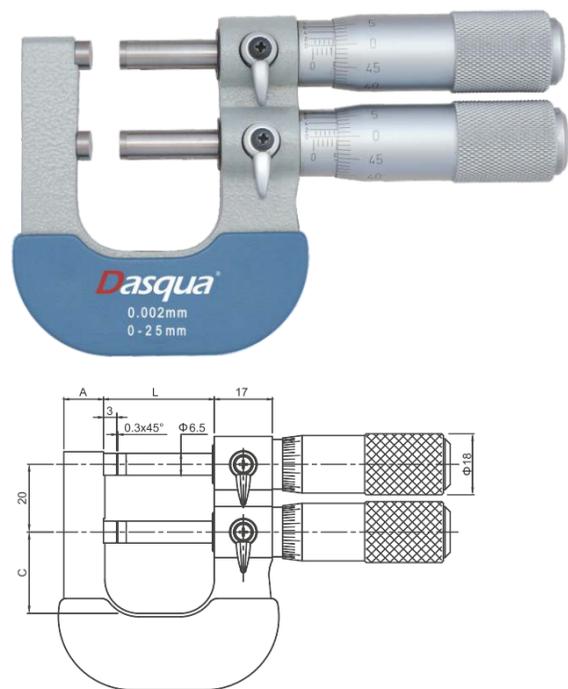
Code	Range	Resolution	Ratchet stop	Accuracy
4470-0005	1-15	0.001/0.00005"	3 Flutes	±0.002
4470-0010	5-20	0.001/0.00005"	3 Flutes	±0.002
4470-0015	20-35	0.001/0.00005"	3 Flutes	±0.003
4470-0020	35-50	0.001/0.00005"	3 Flutes	±0.003
4470-0025	50-65	0.001/0.00005"	3 Flutes	±0.003
4470-0030	65-80	0.001/0.00005"	3 Flutes	±0.003
4470-0035	80-95	0.001/0.00005"	3 Flutes	±0.004
4470-0040	2.3-25	0.001/0.00005"	3 Flutes	±0.002
4470-0045	25-50	0.001/0.00005"	3 Flutes	±0.003
4470-0050	5-25	0.001/0.00005"	5 Flutes	±0.002
4470-0055	25-45	0.001/0.00005"	5 Flutes	±0.003
4470-0060	45-65	0.001/0.00005"	5 Flutes	±0.003
4470-0065	65-85	0.001/0.00005"	5 Flutes	±0.004
4470-0070	85-105	0.001/0.00005"	5 Flutes	±0.004

## LIMIT MICROMETER

- Used as a go/no-go gage by setting the upper and lower limits
- Provided with a standard bar for 25mm- 50mm model
- With carbide measuring face
- Ratchet stop for constant force

Unit:mm

Code	Range	Graduation	A	L	C	Accuracy
4920-0005	0-25	0.002	12	32	24	0.003
4920-0010	25-50	0.002	15	57	32	0.003
4920-0015	0-1"	0.0001"	12	32	24	0.00012"
4920-0020	1-2"	0.0001"	15	57	32	0.00012"



## WIRE MICROMETER

Unit:mm

Code	Range	Graduation	Accuracy
4631-0005	0-10	0.01	0.004

- Strictly made in accordance with DIN863
- Used to measure the diameter of wire or small ball
- With finely ground carbide face
- With ratchet for constant measuring force

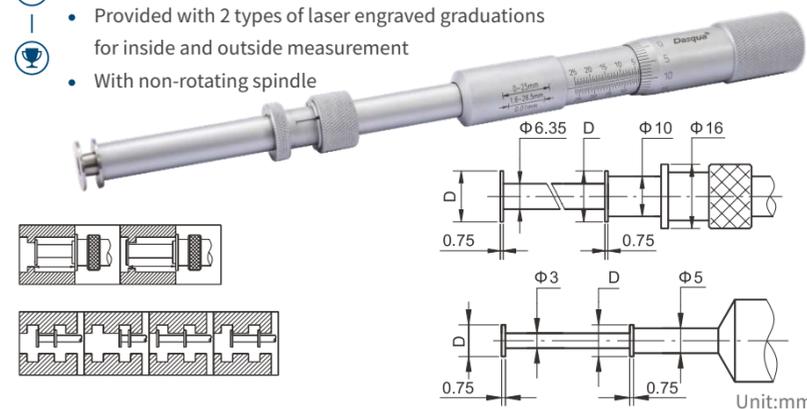
**DIN 863**



## GROOVE MICROMETER

**DIN 863**

- Strictly made in accordance with DIN863
- Flanged measuring faces for measuring width, depth, and location of grooves inside bores
- Provided with 2 types of laser engraved graduations for inside and outside measurement
- With non-rotating spindle



Code	Range	Graduation	Parallelism	D	Accuracy
4861-0005	0-25	0.01	0.01	φ6.5	0.01
4861-0010	25-50	0.01	0.01	φ13	0.01
4861-0015	50-75	0.01	0.01	φ13	0.01
4861-0020	75-100	0.01	0.01	φ13	0.01



# INDICATOR

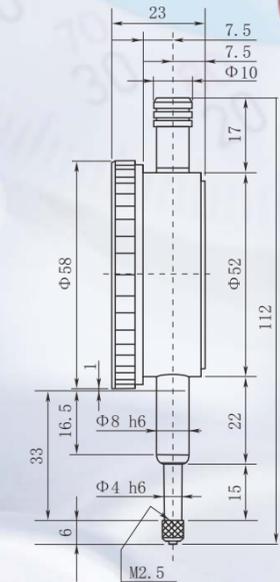
BORN IN ITALY, RAISED BY THE WORLD

# DIAL INDICATOR PRIME DIN 878

## WITH 0.001MM GRADUATION

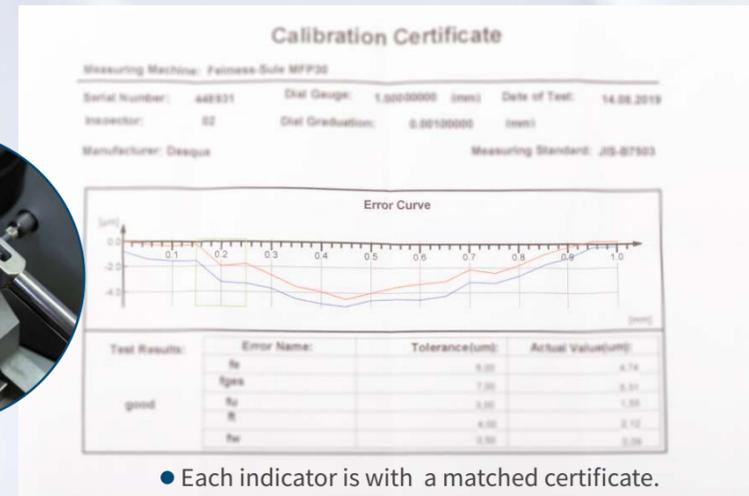
- Made in Germany
- Used to measure surface flatness, check tool set-up and squareness
- Knurled top screw or lifting cap to raise the plunger easily
- With adjustable limit hands to set tolerance
- O-Ring sealed between inner and outer lid to protect from water or oil

 **Made in Europe**



Code	Range	Graduation	Accuracy	Hysteresis	Range/Rev	Reading	Housing Diameter
5181-0005-A	0-1	0.001	0.005	0.002	0.2	0-100-0	φ58

Unit:mm



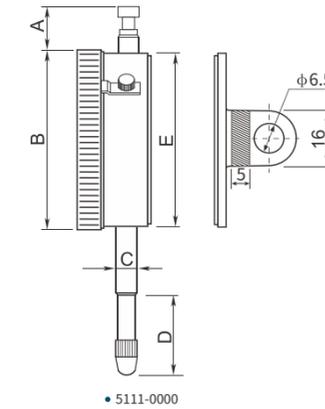
• Double figures in different colors for easy and correct reading

• Measuring rod nearly does not wobble. Both the sleeve reamed hole and measuring rod are very smooth when gripped.



## DIAL INDICATOR

DIN 878



Unit:mm

Code	Range	Graduation	Style	A	B	C	D	E	Accuracy	Hysteresis
5111-0000	0-10	0.01	flat back	10.5	φ58	φ8	20.5	φ53.5	0.017	0.003
5111-1005	0-10	0.01	lug back	10.5	φ58	φ8	20.5	φ53.5	0.017	0.003

## INCH SIZE DIAL INDICATOR

Unit:inch

Code	Range	Graduation	Style	Protection Standard
5122-4205	0-0.5"	0.0005"	lug back	No Jeweled Bearing
5122-4225	0-0.5"	0.0005"	lug back	Jeweled Bearing
5122-4210	0-1"	0.001"	lug back	No Jeweled Bearing
5122-4230	0-1"	0.0005"	lug back	No Jeweled Bearing
5122-4235	0-1"	0.0005"	lug back	Jeweled Bearing
5122-4214	0-2"	0.001"	lug back	No Jeweled Bearing
5122-4215	0-2"	0.001"	lug back	Jeweled Bearing

BORN IN ITALY, RAISED BY THE WORLD **INDICATOR**

## DIAL INDICATOR WITH CALIBRATION CERTIFICATE

DIN 878



- Used to measure surface flatness as well as axial runout and also used to check tool set up and squareness
- Limit indicator clips included
- Strictly made in accordance with DIN878
- Jeweled bearings providing the lowest possible bearing friction
- With narrowed range and higher accuracy

Unit:mm

Code	Range	Graduation	Style	A	B	C	D	E	Accuracy	Hysteresis
5111-1105	0-10	0.01	flat back	8	φ58	φ8	18.5	φ55	0.017	0.003
5111-1205	0-10	0.01	lug back	8	φ58	φ8	18.5	φ55	0.017	0.003

# DIAL INDICATOR

WITH SHOCK RESISTANT ABILITY



Unit:mm

Code	Range	Graduation	Style	A	B	C	D	L	Accuracy	Hysteresis
5121-1105	0-10	0.01	Flat back	8	φ58	φ8	18.5	φ55	0.017	0.003
5121-1205	0-10	0.01	Lug back	8	φ58	φ8	18.5	φ55	0.017	0.003

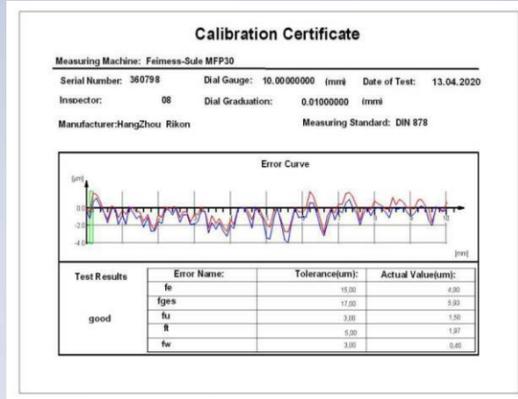


• Jeweled bearing can reduce the friction, making higher sensitivity and quick response ability.

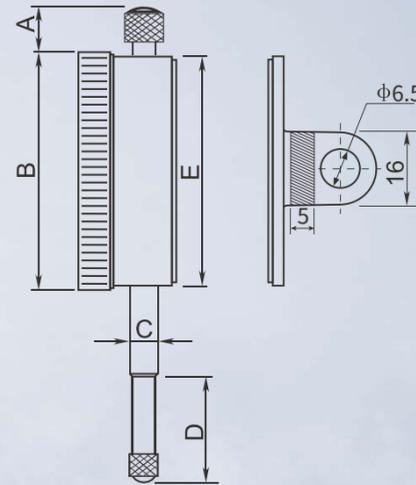
• Oxidation treatment has been given on gear, rack, clamping piece and clamping plate.



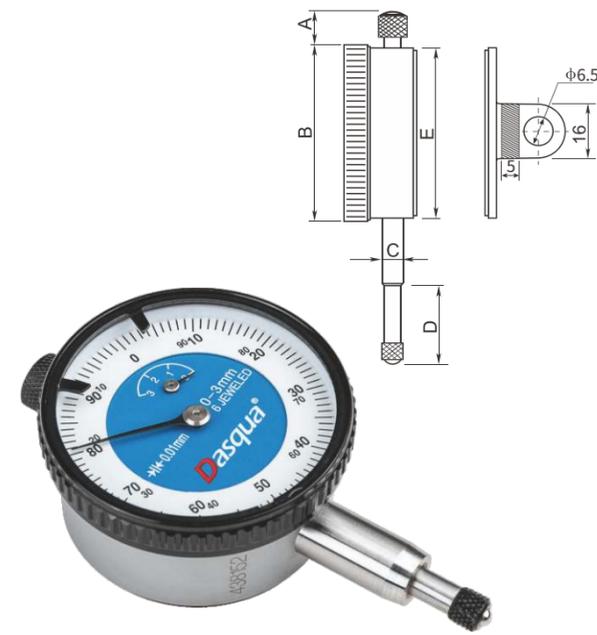
• Measuring rod nearly does not wobble. Both the sleeve reamed hole and measuring rod are very smooth when gripped.



Each indicator is with a matched certificate



## MINI DIAL INDICATOR



- With calibration certificate
- Used to measure surface flatness as well as axial runout and also used to check tool set up and squareness
- Limit indicator clips included
- Strictly made in accordance with DIN878
- Jeweled bearings providing the lowest possible bearing friction
- With narrowed range and higher accuracy

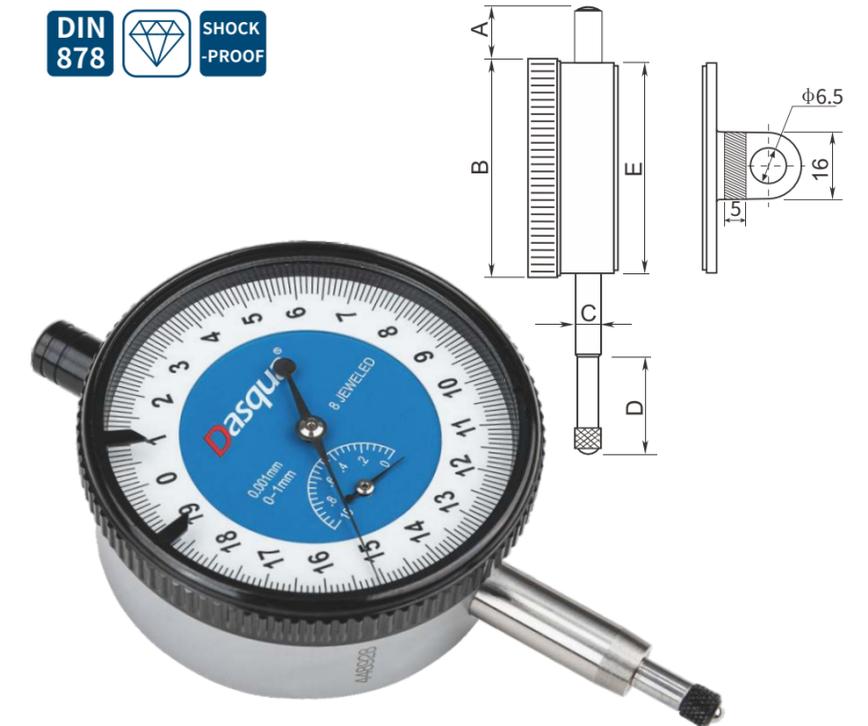
Unit:mm

Code	Range	Graduation	Style	A	B	C	D	E	Accuracy	Hysteresis
5121-1101	0-3	0.01	flat back	6.5	φ40	φ8	10.6	φ36	0.012	0.003
5121-1201	0-3	0.01	lug back	6.5	φ40	φ8	10.6	φ36	0.012	0.003
5121-1102	0-5	0.01	flat back	6.5	φ40	φ8	12.5	φ36	0.014	0.003
5121-1202	0-5	0.01	lug back	6.5	φ40	φ8	12.5	φ36	0.014	0.003

BORN IN ITALY, RAISED BY THE WORLD **INDICATOR**

## DIAL INDICATOR

WITH 0.001MM GRADUATION



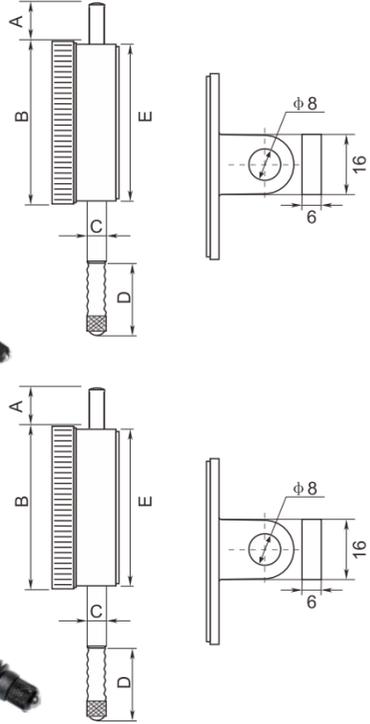
- With calibration certificate
- Used to measure surface flatness as well as axial runout and also used to check tool set up and squareness
- Limit indicator clips included
- Strictly made in accordance with DIN878
- Jeweled bearings providing the lowest possible bearing friction
- With narrowed range and higher accuracy

Unit:mm

Code	Range	Graduation	Style	A	B	C	D	E	Accuracy	Hysteresis
5121-2101	0-1	0.001	flat back	13	φ58	φ8	12	φ55	0.005	0.002
5121-2201	0-1	0.001	lug back	13	φ58	φ8	12	φ55	0.005	0.002

## WATER PROOF INDICATOR

**SHOCK -PROOF** **Water proof** **DIN 878** **ISO 463**

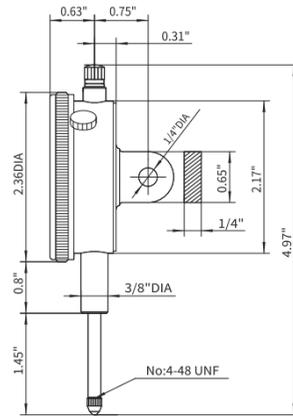


- O-ring seal on safety cap for bezel and rotating dial
- Strictly made in accordance with DIN878
- Used to measure surface flatness as well as axial runout and also used to check tool set up and squareness
- Hardened gears-lasting against indicator failure due to shock or wear

Unit:mm

Code	Range	Graduation	Style	A	B	C	D	E	Accuracy	Hysteresis	Protection Standard
5121-1106	0-10	0.01	flat back	16.5	φ58	φ8	27	φ53.5	0.017	0.003	IP54
5121-1107	0-10	0.01	lug back	16.5	φ58	φ8	27	φ53.5	0.017	0.003	IP54
5121-2106	0-1	0.001	flat back	10.5	φ63	φ8	21	φ55	0.005	0.002	IP67 Jeweled
5121-2107	0-1	0.001	lug back	10.5	φ63	φ8	21	φ55	0.005	0.002	IP67 Jeweled

## INCH DIAL INDICATOR



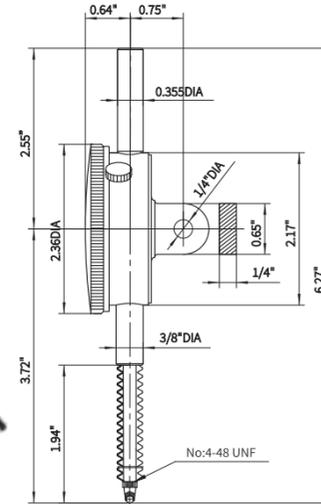
- Hardened metal construction for longer life
- Stable and high accuracy. According to ASME B89.1.10M-2001
- Extra flannelette bag to protect the dial indicator for repeated usage



Code	Range	Graduation	Style	Accuracy		Hysteresis	Protection Standard
				First 2.5 rev	Overall		
5122-4212	0-1"	0.001"	lug back	±0.001"	±0.002"	0.33	

## WATER PROOF INDICATOR

**SHOCK -PROOF** **Water proof**



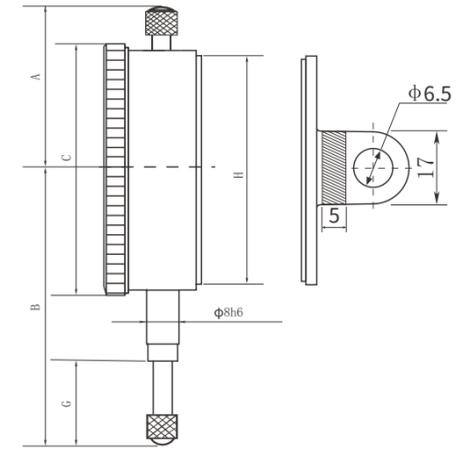
- Stable and high accuracy
- According to ASME B89.1.10M-2001
- Hardened metal construction for longer life
- Extra flannelette bag to protect the dial indicator for repeated usage



Code	Range	Graduation	Style	Accuracy	Hysteresis	Protection Standard
5122-4213	0-1"	0.001"	lug back	±2	0.33	IP54

## DIAL INDICATOR WITH LARGE MEASURING RANGE

**DIN 878**



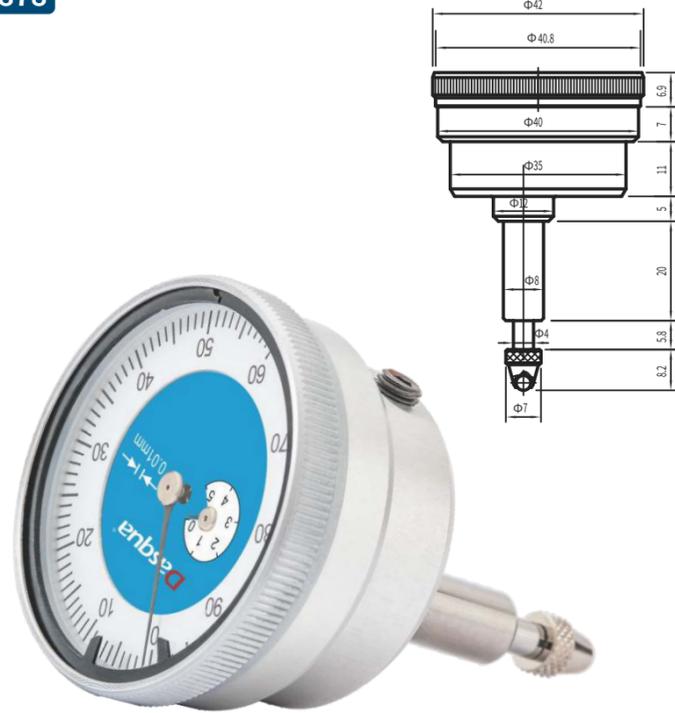
- Used for long stroke measurement
- Limit indicator clips included
- Strictly made in accordance with DIN878
- Jeweled bearings providing the lowest possible bearing friction
- With larger range than normal indicators

Unit:mm

Code	Range	Graduation	Style	A	B	C	G	H	Accuracy	Hysteresis	Protection Standard
5131-2105	0-20	0.01	lug back	37.5	80.5	φ58	34	φ53.5	0.035	0.007	No Jeweled Bearing
5131-4405	0-25	0.01	flat back	37.5	80.5	φ58	34	φ53.5	0.035	0.007	No Jeweled Bearing
5132-7105	0-25	0.01	lug back	37.5	80.5	φ58	34	φ53.5	0.035	0.007	No Jeweled Bearing
5141-1105	0-30	0.01	flat back	37.5	89.5	φ58	40.9	φ53.5	0.035	0.007	No Jeweled Bearing
5141-2105	0-30	0.01	lug back	37.5	89.5	φ58	40.9	φ53.5	0.035	0.007	No Jeweled Bearing
5121-1110	0-30	0.01	flat back	37.5	89.5	φ58	40.9	φ53.5	0.035	0.007	Jeweled Bearing
5121-1210	0-30	0.01	lug back	37.5	89.5	φ58	40.9	φ53.5	0.035	0.007	Jeweled Bearing
5121-1115	0-50	0.01	flat back	108.3	126.2	φ58	57.7	φ53.5	0.04	0.008	Jeweled Bearing
5121-1215	0-50	0.01	lug back	108.3	126.2	φ58	57.7	φ53.5	0.04	0.008	Jeweled Bearing
5121-1125	0-80	0.01	flat back	138.4	168.4	φ58	88	φ53.5	0.05	0.009	Jeweled Bearing
5121-1225	0-80	0.01	lug back	138.4	168.4	φ58	88	φ53.5	0.05	0.009	Jeweled Bearing
5121-1120	0-100	0.01	flat back	167.6	207.8	φ78	108	φ69	0.05	0.009	Jeweled Bearing
5121-1220	0-100	0.01	lug back	167.6	207.8	φ78	108	φ69	0.05	0.009	Jeweled Bearing

## BACK PLUNGER DIAL INDICATOR

DIN 878

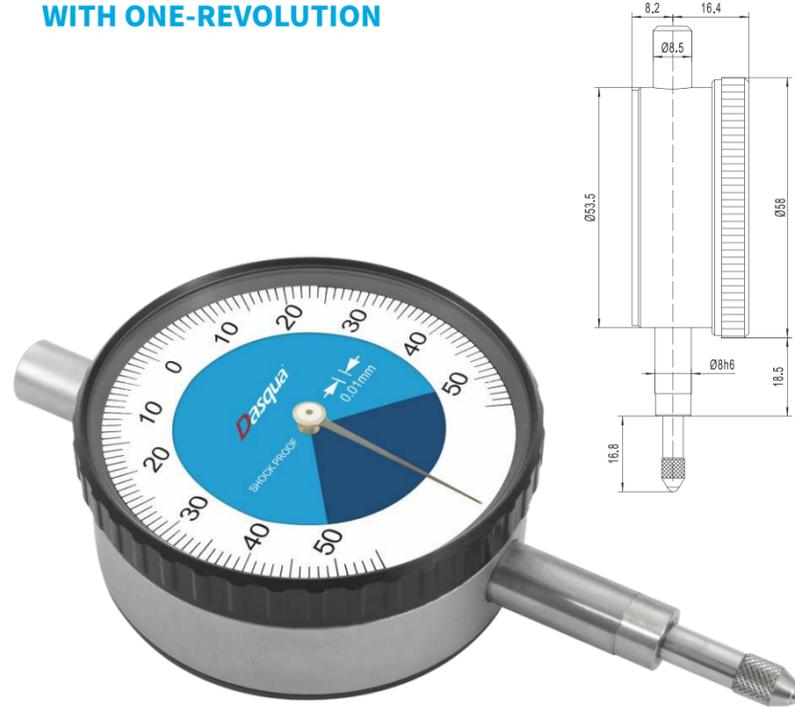


- Strictly made in accordance with DIN 878
- Used to measure surface flatness as well as axial runout and also used to check tool set up and squareness in small spaces where the standard dial indicators are difficult to see
- Limit indicator clips included

Code	Range	Graduation
5271-0005	0-5	0.01

## DIAL INDICATOR WITH ONE-REVOLUTION

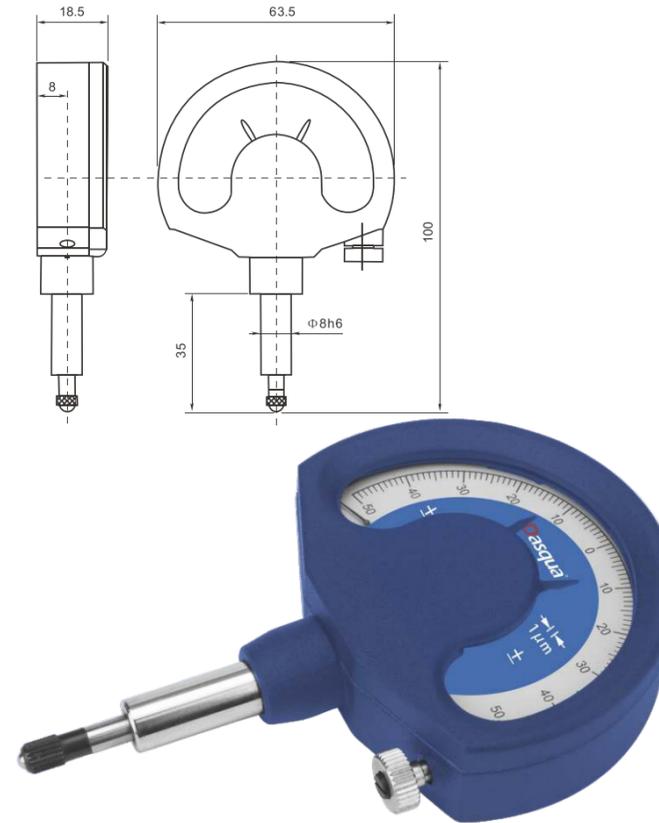
WITH ONE-REVOLUTION



- Unlike many other dial indicators, the one revolution dial indicator literally shows the entire spindle travel or range as one sweep of the hand, eliminating the possibility of reading errors due to miscounting the multiple revolutions
- With one-revolution dial indicators, "within tolerance" and "out-of tolerance" can never be misinterpreted
- An unique shock-proof mechanism is incorporated, providing improved immunity to shock due to sudden spindle retraction caused by high impact

Code	Range	Graduation	Style
5351-0005	±0.25	0.01	flat back
5351-2105	±0.25	0.01	lug back
5351-0010	±0.5	0.01	flat back
5351-2110	±0.5	0.01	lug back

## COMPARATOR GAUGE



- IP53 protection against liquid
- With shockproof ability
- To check parallelism, smoothness and through running
- Sturdy metal housing with sturdy plastic cover
- Stem and spindle hardened and lapped
- Adjustable tolerance fingers
- With spindle lifting cable

Code	Range	Graduation
5361-0005	±0.05	0.001
5361-0010	±0.002"	0.0005"

## DIAL INDICATOR WITH MAGNETIC LUG BACK

WITH MAGNETIC LUG BACK



- Permanent powerful magnet
- Fitting for all dial indicator
- Magnet screws off
- Magnetic force: 20kg

Code	Covering	Range	Graduation
5111-1010	/	/	/
5111-0001	5111-1010	0-10	0.01
5122-4211	5111-1010	0-1"	0.001"

# MULTIFUNCTIONAL DIGITAL INDICATOR

- Glass grating for high accuracy and stable performance



Unit: mm

Code	Range	Resolution	Accuracy
5260-3705	0-12.7/0-0.5"	0.01/0.0005"	0.02
5260-3710	0-25.4/0-1.0"	0.01/0.0005"	0.02
5260-3715	0-50.8/0-2.0"	0.01/0.0005"	0.02
5260-3720	0-101.6/0-4"	0.01/0.0005"	0.02

**Digital Indicator Certificate**

Product Name: Digital Indicator	Name of Inspection Standard: Factory Standard
Part No.:	Unit: mm
Serial No.: 20A1351	Scale Interval: 0.01mm
Date of Inspection: 2020-04-16	Measuring Range: (0~12.7)mm
Temperature: 20°C	Reference Point: 0mm
Inspector:	End Point: (0~12.7)mm

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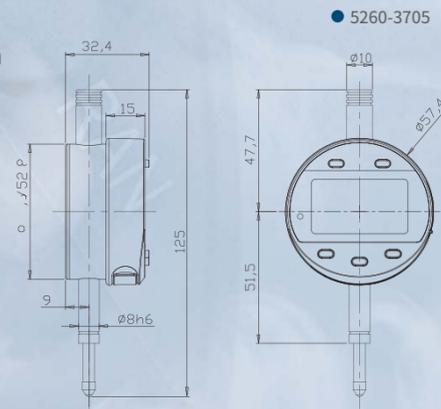
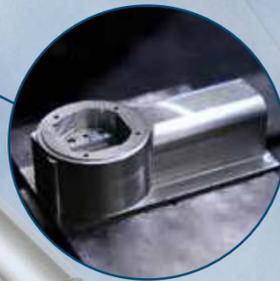
Inspection Item Name: Judgment  
Inspection of Function and Appearance: **Pass**

Error Curve

Note: — Inward — Outward

Each indicator is with a matched certificate.

- Housing entirely cast made of high-strength alloy aluminum guaranteeing low deformation

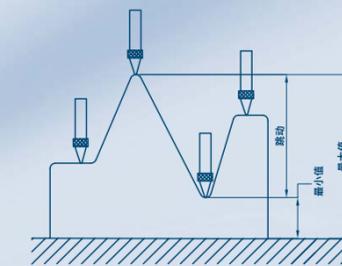
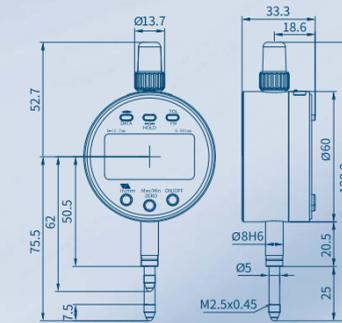


- Temperature and humidity test for each product, ensuring the normal use of each in harsh environment



# HIGH PRECISION DIGITAL INDICATOR

## NEW GENERATION GRATING SENSOR TECHNOLOGY



FULL CHARGED FOR  
**24HOURS**  
CONTINUOUS USAGE

## HIGH RELIABILITY

MULTI FUNCTIONS BUILT IN (MIN/MAX/ZERO, TOL, DATA, PRESET, AUTO OFF, ETC.)

## HIGH ACCURACY AND REPEATABILITY

MAXIMUM ERROR OF **0.0014MM**  
REPEATABILITY  $\leq$  **0.0006MM**

Unit:mm

Code	Range	Resolution	Accuracy	Hysteresis	Data output
5900-1010	0-12.7/0-0.5"	0.0002/0.00001"	0.0014	0.001	Cable
5900-1025	0-25.4/0-1.0"	0.0002/0.00001"	0.0018	0.001	Cable
5900-1050	0-50.8/0-2.0"	0.0002/0.00001"	0.003	0.0015	Cable
5261-1205	0-12.7/0-0.5"	0.0002/0.00001"	0.0014	0.001	Wireless
5261-1210	0-25.4/0-1.0"	0.0002/0.00001"	0.0018	0.001	Wireless
5261-1215	0-50.8/0-2.0"	0.0002/0.00001"	0.003	0.0015	Wireless

## DIGITAL INDICATOR

mm / in Battery + CR2032 Data output



- Calibration certificate provided with total forward error, hysteresis error, total error and deviation error on it
- Watchcase made of high-strength aluminum alloy guaranteeing low deformation
- Glass grating for high accuracy and stable performance
- Temperature and humidity test for each product, ensuring the normal use of each in harsh environment
- Copper sleeve and rod precisely ground to reduce shaking
- The functions of tolerance set and tolerance alarm are optional. Alarm light is also available for quick-checking products' tolerance

Unit:mm

Code	Range	Resolution	Accuracy
5260-1105	0-12.7/0-0.5"	0.01/0.0005"	0.02
5260-1110	0-25.4/0-1.0"	0.01/0.0005"	0.02
5260-1115	0-50.8/0-2.0"	0.01/0.0005"	0.02
5260-1120	0-101.6/0-4"	0.01/0.0005"	0.02

## DIGITAL INDICATOR

WITH 0.001MM RESOLUTION

mm / in Battery + CR2032 Data output



- Calibration certificate provided with total forward error, hysteresis error, total error and deviation error on it
- Watchcase made of high-strength aluminum alloy guaranteeing low deformation
- Glass grating for high accuracy and stable performance
- Temperature and humidity test for each product, ensuring the normal use of each in harsh environment
- Copper sleeve and rod precisely ground to reduce shaking

Unit:mm

Code	Range	Resolution	Accuracy
5260-4205	0-12.7/0-0.5"	0.001/0.00005"	0.004
5260-4210	0-25.4/0-1.0"	0.001/0.00005"	0.005
5260-4215	0-50.8/0-2.0"	0.001/0.00005"	0.006
5260-4220	0-101.6/0-4"	0.001/0.00005"	0.010

## DIGITAL INDICATOR

WITH ABSOLUTE FUNCTION

mm / in Absolute Data output Battery + CR2032 WIRELESS TRANSMITTER



- Wireless system built-in (optional)
- With Absolute-Reference System and no need to set the reference point at every power-on
- Large easy-to-read digital display
- With ABS and Metric/Inch Conversion System
- With long battery-use

Unit:mm

Code	Range	Resolution	A	B	C	D	E	F	G	H	Accuracy
5340-8105	0-12.7/0-0.5"	0.01/0.0005"	60.2	53.8	14.2	40.2	φ60.1	φ6.5	φ8 or 3/8"	φ4.5	0.01/0.0005"
5340-8110	0-25.4/0-1.0"	0.01/0.0005"	55.7	68.8	32.7	46.2	φ61.1	φ6.5	φ8 or 3/8"	φ4.5	0.01/0.0005"
5340-8115	0-50.8/0-2.0"	0.01/0.0005"	83.7	94.8	57.7	46.1	φ61.1	φ6.5	φ8 or 3/8"	φ4.5	0.015/0.001"
5340-9105	0-12.7/0-0.5"	0.001/0.00005"	60.2	53.8	14.2	40.2	φ60.1	φ6.5	φ8 or 3/8"	φ4.5	0.004/0.00016"
5340-9110	0-25.4/0-1.0"	0.001/0.00005"	55.7	68.8	32.7	46.2	φ61.1	φ6.5	φ8 or 3/8"	φ4.5	0.004/0.00016"
5340-9115	0-50.8/0-2.0"	0.001/0.00005"	83.7	94.8	57.7	46.1	φ61.1	φ6.5	φ8 or 3/8"	φ4.5	0.005/0.0002"

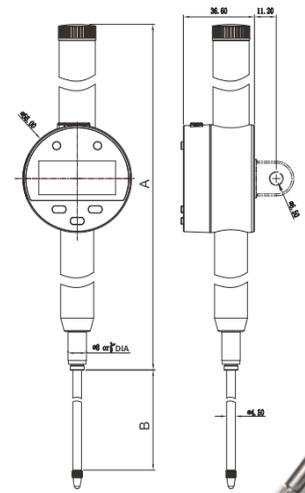
## WITH ABSOLUTE FUNCTION AND WIRELESS SYSTEM

Unit:mm

Code	Range	Resolution	A	B	C	D	E	F	G	H	Accuracy
5610-1105-A	0-12.7/0-0.5"	0.01/0.0005"	60.2	53.8	14.2	40.2	φ60.1	φ6.5	φ8 or 3/8"	φ4.5	0.01/0.0005"
5610-1110-A	0-25.4/0-1.0"	0.01/0.0005"	55.7	68.8	32.7	46.2	φ61.1	φ6.5	φ8 or 3/8"	φ4.5	0.01/0.0005"
5610-1115-A	0-50.8/0-2.0"	0.01/0.0005"	83.7	94.8	57.7	46.1	φ61.1	φ6.5	φ8 or 3/8"	φ4.5	0.015/0.001"
5610-4105-A	0-12.7/0-0.5"	0.001/0.00005"	60.2	53.8	14.2	40.2	φ60.1	φ6.5	φ8 or 3/8"	φ4.5	0.004/0.00016"
5610-4110-A	0-25.4/0-1.0"	0.001/0.00005"	55.7	68.8	32.7	46.2	φ61.1	φ6.5	φ8 or 3/8"	φ4.5	0.004/0.00016"
5610-4115-A	0-50.8/0-2.0"	0.001/0.00005"	83.7	94.8	57.7	46.1	φ61.1	φ6.5	φ8 or 3/8"	φ4.5	0.005/0.0002"



## IP65 DIGITAL INDICATOR WITH 0.001MM RESOLUTION

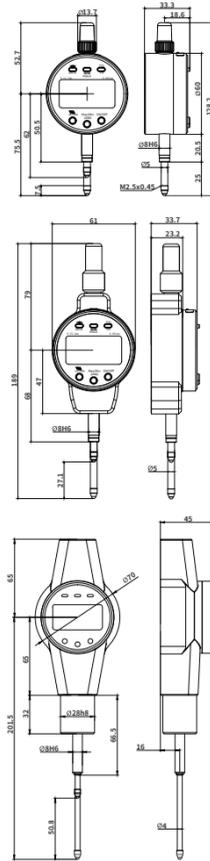


- Inductive measurement system
- IP65 protection against liquid
- Large LCD display with clear reading
- 3V Lithium battery CR2032
- SPC data output
- Tolerance preset and GO/NG judgement
- “+” or “-” direction set

Unit:mm

Code	Range	Resolution	A	B	Accuracy	Repeatability
5820-0005	0-12.7/0-0.5"	0.001/0.00005"	91.9	14.3	0.007/0.0003"	0.003/0.0001"
5820-0010	0-25.4/0-1.0"	0.001/0.00005"	129.2	27	0.008/0.0003"	0.003/0.0001"
5820-0015	0-50.8/0-2.0"	0.001/0.00005"	179.7	52	0.010/0.0004"	0.003/0.0001"
5820-0020	0-101.6/0-4"	0.001/0.00005"	281.8	103.4	0.015/0.0006"	0.003/0.0001"

## HIGH PRECISION DIGITAL INDICATOR

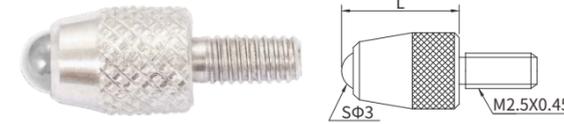


- Data output
- Reading in digital and analog
- Linear ball bearings for ten million times use
- Absolute encoder, the original data remain safer power off
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off,mm/inch, adjust resolution
- Power: rechargeable battery, for 24 hours continuous working

Unit:mm

Code	Range	Adjustable Resolution	Hysteresis	Accuracy	Measuring Force	Data output
5900-0010	0-12.7/0.5"	① 0.0005/0.00002"	0.0015	0.003	1.5N	Cable
5900-0025	0-25.4/1.0"	② 0.001/0.00005"	0.0015	0.003	1.8N	Cable
5900-0050	0-50.8/2.0"	③ 0.01/0.0005"	0.0020	0.005	2.2N	Cable
5261-0205	0-12.7/0-0.5"	0.003	0.0015	0.003	1.5N	Wireless
5261-0210	0-25.4/0-1.0"	0.005	0.0015	0.003	1.8N	Wireless
5261-0215	0-50.8/0-2.0"	Note for resolution selection: Resolution adjustable to: ① ② ③	0.002	0.005	2.2N	Wireless

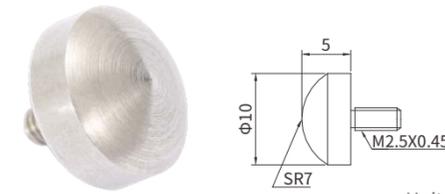
## BALL POINT



Unit:mm

Code	Material	Length	SΦD
5333-6101	Carbide	7	3.0
5333-6102	Carbide	14	3.0
5333-6103	Carbide	10	2.5
5333-6104	Carbide	15	2.5
5333-6105	Carbide	20	2.5
5333-6106	Carbide	25	2.5
5333-6107	Carbide	30	2.5
5333-6108	Carbide	35	2.5
5333-6109	Carbide	40	2.5
5333-6110	Carbide	45	2.5
5333-6111	Carbide	50	2.5
5333-6112	Carbide	60	2.5
5333-6113	Carbide	70	2.5
5333-6114	Carbide	80	2.5
5333-6115	Carbide	90	2.5
5333-6116	Carbide	100	2.5

## SPHERICAL POINT



Unit:mm

Code	Material	Length	Arc
5333-6401	steel	5	R7

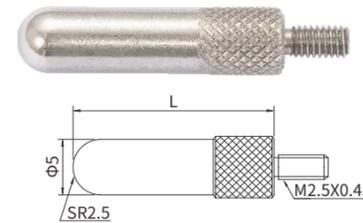
## BALL POINT



Unit:mm

Code	Material	Length	SΦD
5333-6301	carbide	7	1.0
5333-6302	carbide	7	1.5
5333-6303	carbide	7	1.8
5333-6304	carbide	7	2.0
5333-6305	carbide	7	2.5
5333-6306	carbide	7	3.0
5333-6307	carbide	7	3.5
5333-6308	carbide	7	4.0
5333-6309	carbide	7	4.5
5333-6310	carbide	7	5.0

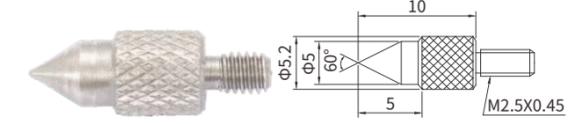
## SHELL TYPE POINT



Unit:mm

Code	Material	Length	Arc
5333-6201	steel	10	R2.5
5333-6202	steel	10	R2.5

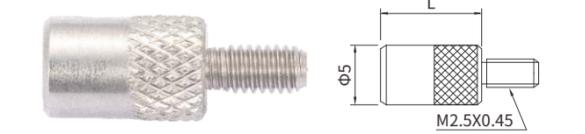
## CONICAL POINT



Unit:mm

Code	Material	Length	Angle
5333-6601	steel	10	60.0
5333-6701	steel	5	90.0
5333-6901	carbide	9	2.0

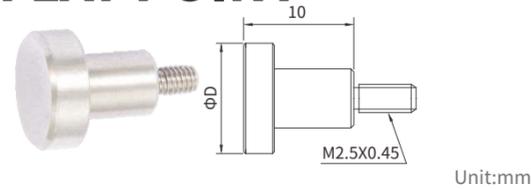
## FLAT POINT



Unit:mm

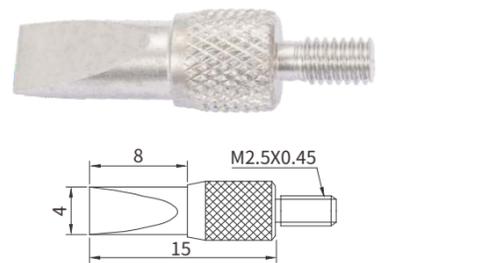
Code	Material	Length	Diameter
5333-7101	steel	8	4.0
5333-7102	steel	10	4.0
5333-7103	steel	15	4.0
5333-7104	steel	20	4.0
5333-7105	steel	8	5.0
5333-7106	steel	10	5.0
5333-7107	steel	15	5.0
5333-7108	steel	20	5.0
5333-7109	steel	8	6.0
5333-7110	steel	10	6.0
5333-7111	steel	15	6.0

## FLAT POINT



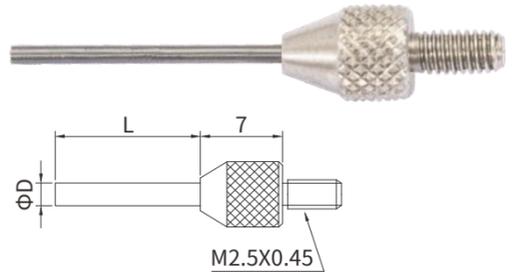
Code	Material	Length	D
5333-7201	steel	4	4.0
5333-7202	steel	4	5.0
5333-7203	steel	4	6.0
5333-7204	steel	4	8.0
5333-7205	steel	4	10.0
5333-7206	steel	4	12.0
5333-7207	steel	4	15.0
5333-7208	steel	4	20.0
5333-7209	steel	4	30.0
5333-7210	steel	10	8.0
5333-7211	steel	10	10.0

## KNIFE EDGE POINT



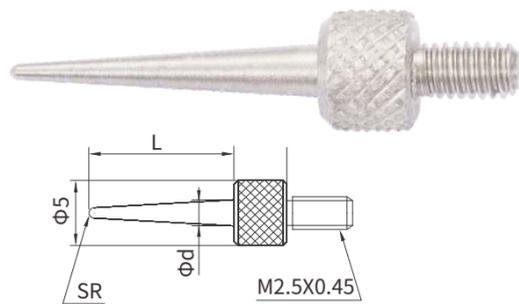
Code	Material	Length	Width
5333-7001	steel	15	4.0
5333-7002	carbide	15	4.0

## NEEDLE POINT



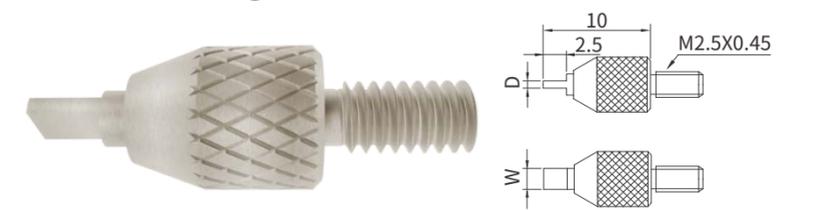
Code	Material	Length	Diameter
5333-7701	carbide	5	0.5
5333-7702	carbide	10	0.5
5333-7703	carbide	15	0.5
5333-7704	carbide	20	0.5
5333-7705	carbide	2	1.0
5333-7706	carbide	10	1.0
5333-7707	carbide	15	1.0
5333-7708	carbide	20	1.0
5333-7709	carbide	30	1.0
5333-7710	carbide	40	1.0
5333-7711	carbide	50	1.0
5333-7712	carbide	5	1.5
5333-7713	carbide	10	1.5
5333-7714	carbide	15	1.5
5333-7715	carbide	20	1.5
5333-7716	carbide	30	1.5
5333-7717	carbide	40	1.5
5333-7718	carbide	50	1.5
5333-7719	carbide	5	2.0
5333-7720	carbide	10	2.0
5333-7721	carbide	15	2.0
5333-7722	carbide	20	2.0
5333-7723	carbide	30	2.0
5333-7724	carbide	40	2.0
5333-7725	carbide	50	2.0

## NEEDLE POINT



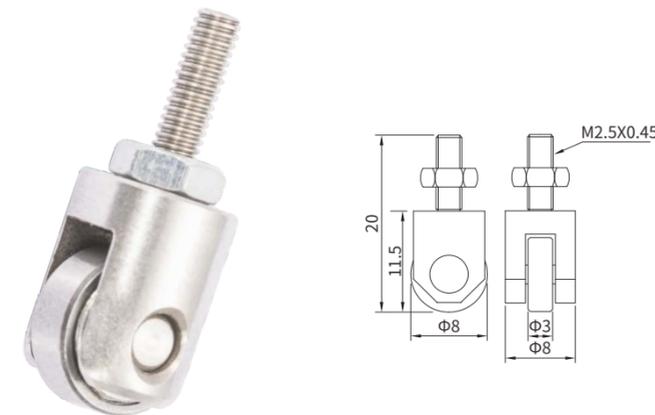
Code	Material	Length	SR
5333-7601	steel	7	0.2
5333-7602	steel	11	0.2
5333-7603	steel	13	0.2
5333-7604	steel	15	0.2
5333-7605	steel	17	0.2
5333-7606	steel	21	0.2
5333-7607	steel	31	0.2
5333-7608	steel	41	0.2
5333-7609	steel	50	0.2
5333-7610	steel	15	0.3
5333-7611	steel	21	0.3
5333-7612	steel	31	0.3
5333-7613	steel	41	0.3
5333-7614	steel	51	0.3

## BLADE POINT



Code	Material	Length	Diameter
5333-7801	carbide	0.40	2.0
5333-7802	carbide	0.60	2.0
5333-7803	carbide	0.40	4.0

## ROLLER POINT



Code	Material	Length	Diameter
5333-7901	steel	12	10.0

## EXTENSION ROD



Code	Material	Length	Diameter
5333-8001	steel	10	5.0
5333-8002	steel	15	5.0
5333-8003	steel	20	5.0
5333-8004	steel	25	5.0
5333-8005	steel	30	5.0
5333-8006	steel	35	5.0
5333-8007	steel	40	5.0
5333-8008	steel	45	5.0
5333-8009	steel	50	5.0
5333-8010	steel	55	5.0
5333-8011	steel	60	5.0
5333-8012	steel	65	5.0
5333-8013	steel	70	5.0
5333-8014	steel	75	5.0
5333-8015	steel	80	5.0
5333-8016	steel	90	5.0
5333-8017	steel	100	5.0
5333-8018	steel	130	5.0
5333-8019	steel	150	5.0
5333-8020	steel	200	5.0
5333-8021	steel	300	5.0

# DIAL TEST INDICATOR

WITH 0.001MM GRADUATION



Made in Europe

Dasqua Blu

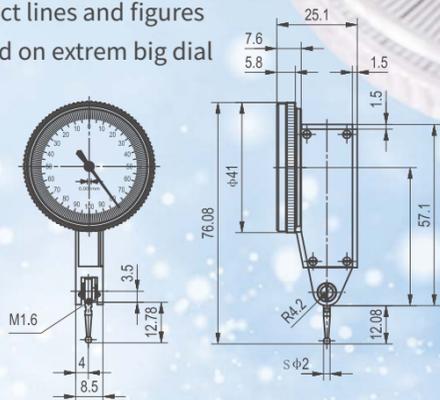
DIN 2270



- Used to measure surface flatness, straightness and axial runout and easy to reach places where normal indicators can't reach
- Large dial with scratch-resistance coating to make reading clear
- Graduation at 0.001mm, which is better than the limit of most other test indicators(0.002mm)
- With high abrasion resistance and non-magneticness
- Owning water proof ability
- Made in Germany



- Distinct lines and figures etched on extrem big dial



Code	Range	Graduation
5221-0105-A	0-0.2	0.001



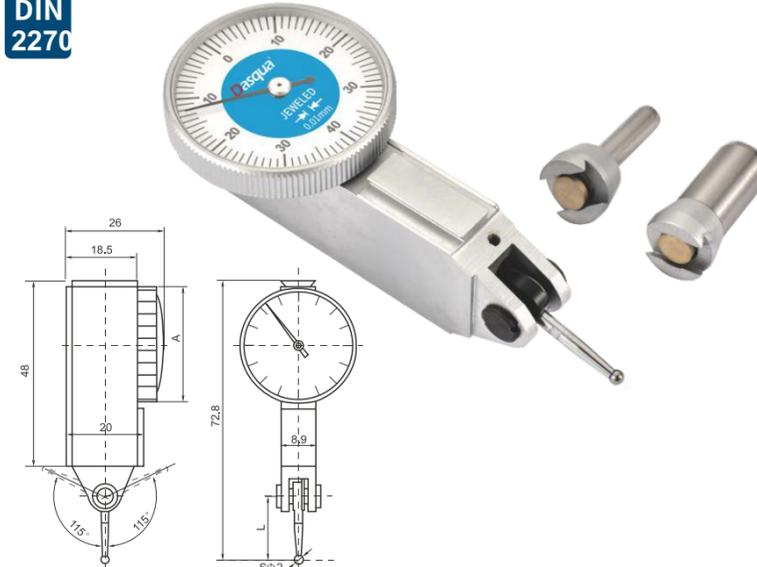
- Each test indicator is examined carefully and enclosed with calibration certificate.

- Jeweled bearing and ruby contact point to ensure high durability



# DIAL TEST INDICATOR

DIN 2270



- A hard frame body providing excellent rigidity
- White edge of dial for easy to read
- Hardened and ground contact point
- Satin chrome-finish case for durability
- Precision gear-driven design with smooth movement

Unit:mm

Code	Range	Graduation	Casing Diameter(A)	Length of Stylus(L)	Styli
5221-0005	0.8	0.01	φ30	16.5	Steel
5221-0000	0.8	0.01	φ37.5	16.5	Steel
5221-0005-A	0.8	0.01	φ30	16.5	Ruby
5221-0000-A	0.8	0.01	φ37.5	16.5	Ruby

## INCH SIZE

Unit:inch

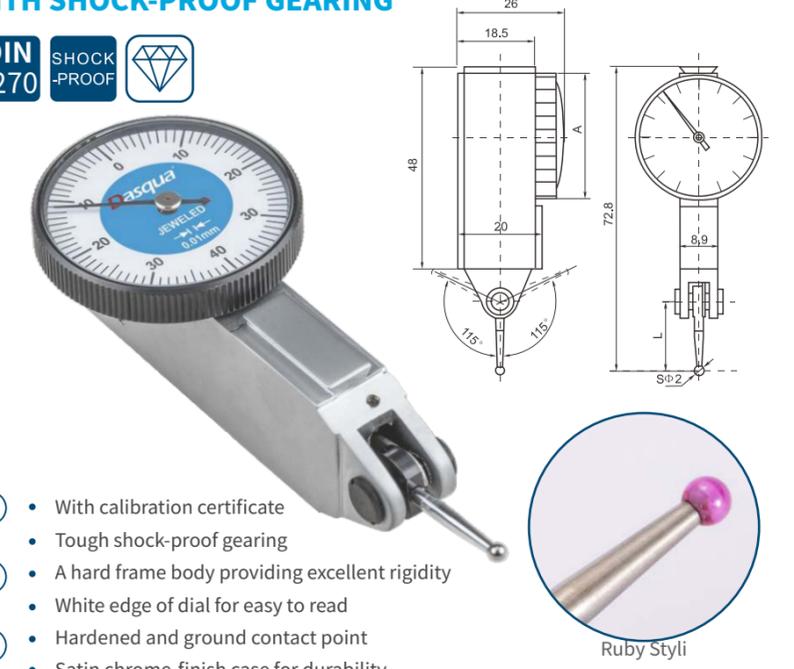
Code	Range	Graduation	Casing Diameter(A)	Length of Stylus(L)
5610-0160	0-0.03"	0.001"	1.48"	0.62"
5610-0162	0-0.03"	0.0005"	1.48"	0.62"

BORN IN ITALY, RAISED BY THE WORLD **INDICATOR**

# DIAL TEST INDICATOR

WITH SHOCK-PROOF GEARING

DIN 2270 SHOCK-PROOF



- With calibration certificate
- Tough shock-proof gearing
- A hard frame body providing excellent rigidity
- White edge of dial for easy to read
- Hardened and ground contact point
- Satin chrome-finish case for durability
- Precision gear-driven design with smooth movement



Unit:mm

Code	Range	Graduation	Casing Diameter(A)	Length of Stylus(L)	Styli
5221-1129	0.8	0.01	φ30	16.5	Steel
5221-1140	0.8	0.01	φ37.5	16.5	Steel
5221-3105	0.2	0.002	φ30	16.0	Steel
5221-1129-A	0.8	0.01	φ30	16.5	Ruby
5221-1140-A	0.8	0.01	φ37.5	16.5	Ruby
5221-3105-A	0.2	0.002	φ30	16.0	Ruby

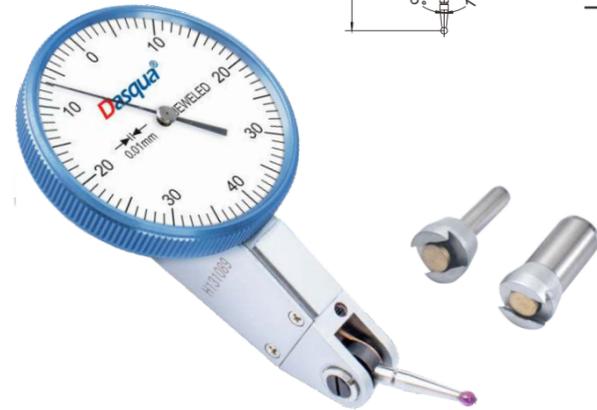
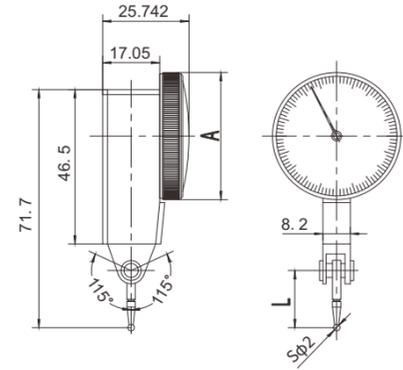
## INCH SIZE

Unit:inch

Code	Range	Graduation	Casing Diameter(A)	Length of Stylus(L)
5221-3106	0-0.03"	0.0005"	1.18"	0.62"
5222-6105	0-0.02"	0.0005"	1.5"	0.53"

## DIAL TEST INDICATOR

ANTI MAGNETIC TYPE



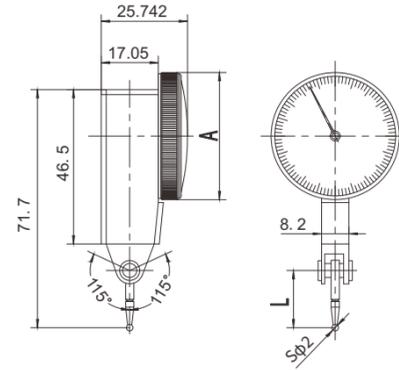
- Anti Magnetic body
- With calibration certificate
- Tough shock-proof gearing
- A hard frame body providing excellent rigidity
- White edge of dial for easy to read
- Hardened and ground contact point
- Satin chrome-finish case for durability
- Precision gear-driven design with smooth movement

Unit:mm

Code	Range	Graduation	Casing Diameter(A)	L	Accuracy	Hysteresis
5221-1145-A	0.8	0.01	39	17.2	±0.013	±0.003

## DIAL TEST INDICATOR

WITH 0.002MM GRADUATION



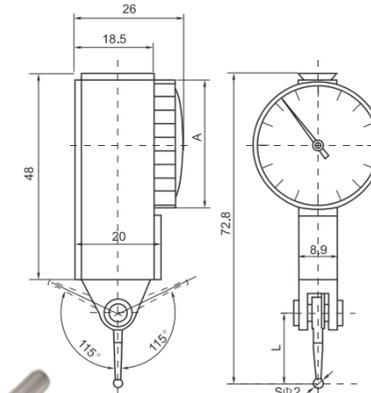
- Anti Magnetic body
- With calibration certificate
- Tough shock-proof gearing
- A hard frame body providing excellent rigidity
- White edge of dial for easy to read
- Hardened and ground contact point
- Satin chrome-finish case for durability
- Precision gear-driven design with smooth movement

Unit:mm

Code	Range	Graduation	Casing Diameter(A)	L	Accuracy	Hysteresis
5223-3105-A	0.2	0.002	39	17.2	±0.004	±0.002

## DIAL TEST INDICATOR

WITH LONG STYLI

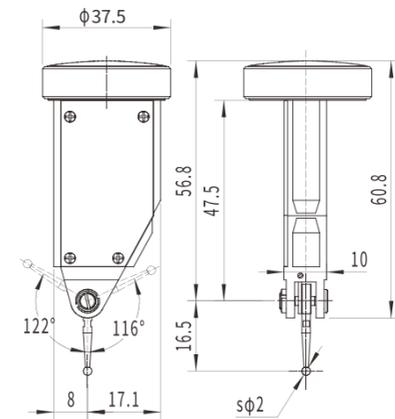


- With long styli for easily measuring hard-to-get places
- With calibration certificate
- Tough shock-proof gearing
- A hard frame body providing excellent rigidity
- White edge of dial for easy to read
- Hardened and ground contact point
- Satin chrome-finish case for durability
- Precision gear-driven design with smooth movement

Unit:mm

Code	Range	Graduation	Casing Diameter(A)	Length of Stylus(L)
5221-1215	0.8	0.013	φ30	30
5221-1220	0.8	0.013	φ37.5	30
5221-1205	0.8	0.013	φ30	46.4
5221-1210	0.8	0.013	φ37.5	46.4

## BACK PLUNGER DIAL TEST INDICATOR

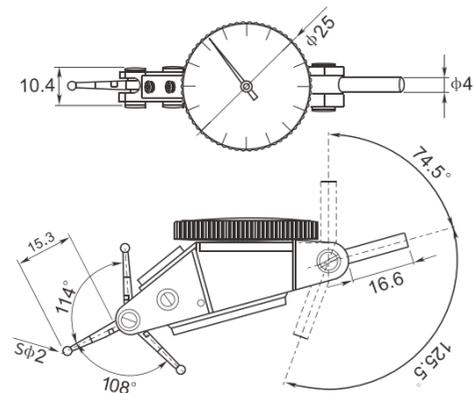


- With upward dial for measuring up side of a large workpiece or high workbench
- With calibration certificate
- Tough shock-proof gearing
- A hard frame body providing excellent rigidity
- White edge of dial for easy to read
- Hardened and ground contact point
- Satin chrome-finish case for durability
- Precision gear-driven design with smooth movement

Unit:mm

Code	Range	Graduation	Casing Diameter	Length of Stylus
5461-0005	0.8	0.01	φ37.5	16.5

## TWICE RANGE DIAL TEST INDICATOR

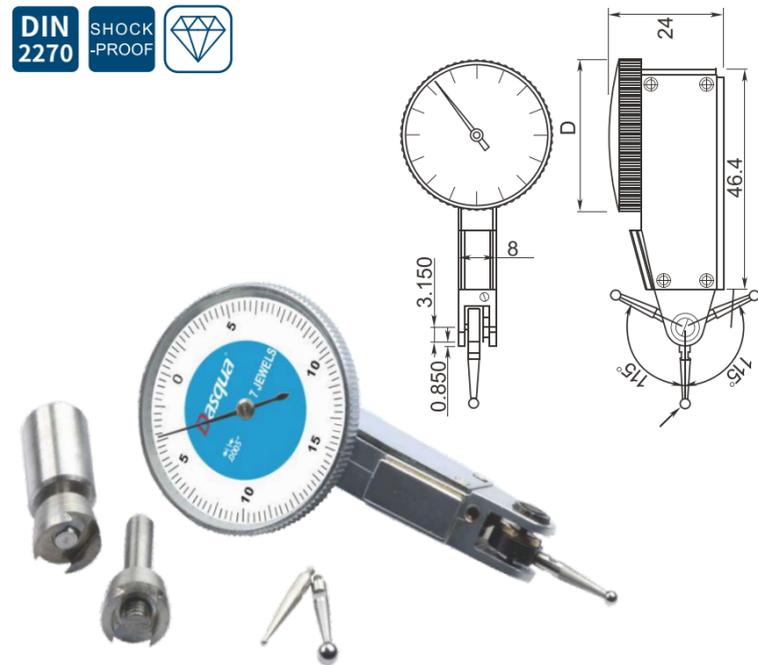


- Tough shock-proof gearing
- A hard frame body providing excellent rigidity
- White edge of dial for easy to read
- Satin chrome-finish case for durability
- Precision gear-driven design with smooth movement
- With twice range on large easy-to-read tilted dial

Unit:mm

Code	Range	Graduation	Casing Diameter	Reading
5221-1115	0-1.6	0.01	φ25	0-40-0
5222-6110	0-0.06"	0.0005"	1.5"	0-15-0

## BI-DIRECTIONAL DIAL TEST INDICATOR



- With auto-reverse contact point
- With jeweled bearing
- Bi-directional constant clockwise rotation
- Hard frame body providing excellent rigidity
- Satin chrome-finish case for durability

Unit:mm

Code	Range	Graduation	D	Probe
5221-1106	0-0.5	0.01	φ32	Sφ1,Sφ2,Sφ3
5222-6103	0-0.03"	0.0005"	φ40	Sφ1,Sφ2,Sφ3
5222-6106	0-0.02"	0.0005"	φ40	Sφ1,Sφ2,Sφ3
5222-7103	0-0.008"	0.0001"	φ32	Sφ1,Sφ2,Sφ3

## BI-DIRECTIONAL TEST INDICATOR AND MAG BASE SET



- With auto-reverse contact point
- With jeweled bearing
- Bi-directional constant clockwise rotation
- Hard frame body providing excellent rigidity
- Satin chrome-finish case for durability
- Together with a magnetic base for easy mounting

Unit:mm

Code	Range	Graduation
5221-1000	0-0.8	0.01
5222-6000	0-0.03"	0.0005"

## TEST INDICATOR KIT WITH UNIVERSAL HOLDER



- Tough shock-proof gearing
- A hard frame body providing excellent rigidity
- White edge of dial for easy to read
- Hardened and ground contact point
- Satin chrome-finish case for durability
- Precision gear-driven design with smooth movement
- With Universal holder to measure universal direction

Unit:mm

Code	Range	Graduation
5221-1001	0-0.8	0.01
5222-6001	0-0.03"	0.0005"

## TWICE RANGE DIAL TEST INDICATOR KIT



- Tough shock-proof gearing
- A hard frame body providing excellent rigidity
- White edge of dial for easy to read
- Hardened and ground extra contact point
- Satin chrome-finish case for durability
- Precision gear-driven design with smooth movement
- With twice range on large easy-to-read tilted dial

Unit:mm

Code	Range	Graduation
5221-1002	0-1.6	0.01
5222-6002	0-0.06"	0.0005"

## DIGITAL TEST INDICATOR



- With large easy-to-read digital display
- With zero setting and metric-inch conversion functions
- Carbide probe
- Packed in a fitted case

Unit:mm

Code	Range	Resolution	A	B	C	D	E	F	Accuracy
5410-8105	0-0.5/0-0.02"	0.01/0.0005"	47.65	40	44.6	13.27	20	sq2	±0.010
5410-8110	0-0.8/0-0.03"	0.01/0.0005"	47.65	40	44.6	13.27	20	sq2	±0.020
5410-9105	0-0.4/0-0.02"	0.001/0.00005"	47.65	40	44.6	13.27	20	sq2	±0.020

## STYLI FOR DIAL TEST INDICATOR

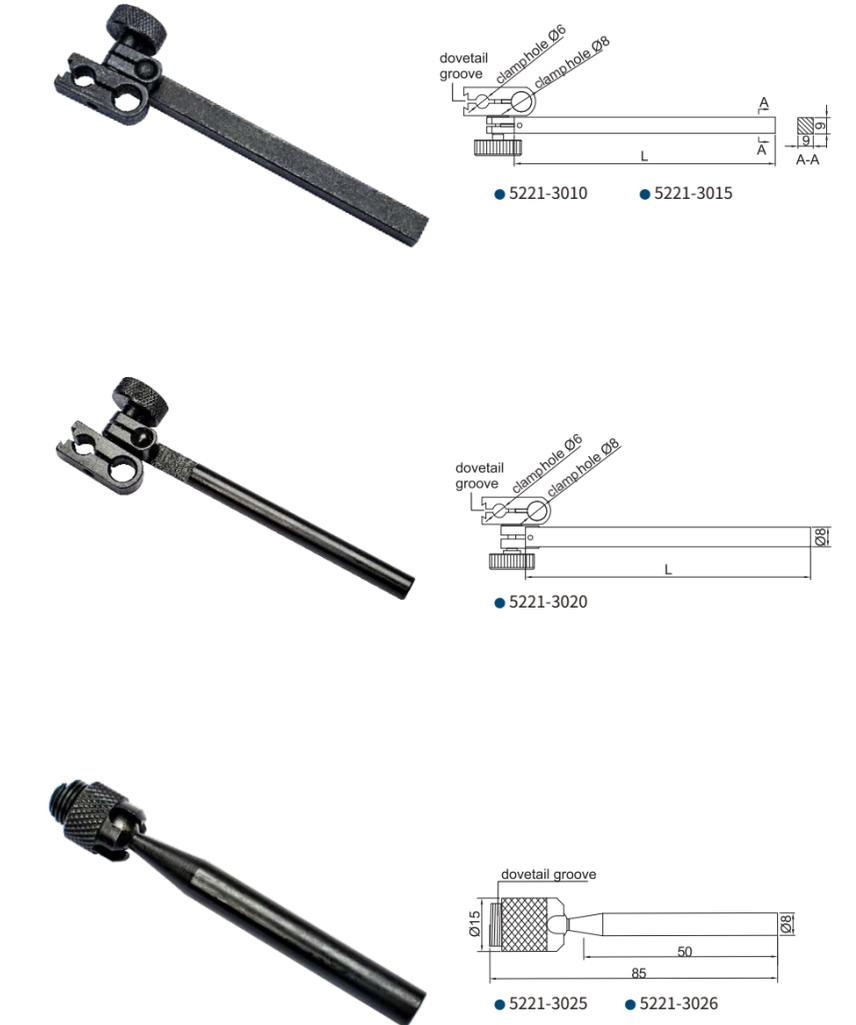


Code	Size	Points' Material
5221-1070	16.5xp2	ruby
5221-1072	17.8xp2	ruby



Code	Size
5221-3010	Stem Section 9x9,Stem length 100,clamp hole 6/8/Dovetail
5221-3015	Stem Section 9x9,Stem length 50,clamp hole 6/8/Dovetail
5221-3020	Stem Section Dia 8,Stem Length115,clamp hole 6/8/Dovetail
5221-3025	Stem Section Dia 8,Stem Length55
5221-3026	Stem Section Dia 1/4",Stem Length 2"
5221-3030	Stem Section Dia 8,clamp hole Dia 4
5221-3031	Stem Section Dia 1/4",clamp hole 5/32"

## HOLDS FOR DIAL TEST INDICATOR



# DIAL BORE GAUGE SET

## WITH EXTRA LONG RANGE

Unit:mm

Code	Range	Graduation
5510-0005	35-160	0.01
5510-0000	1.4-6"	0.0005"

- Large measuring range from 35mm to 160mm
- So cost effective that can reach the range of 2 or 3 dial bore gauges
- Carbide-tipped and ceramic contact points optional for customers' desire
- Strictly made in accordance with DIN878



• Double fulcrum-points design for getting the correct measuring results



## DIAL BORE GAUGE

Unit:mm

Code	Range	Graduation	Depth
5511-1100	4-6	0.01	40
5511-1105	6-10	0.01	40
5511-1110	10-18	0.01	100
5511-1115	18-35	0.01	150
5511-1120	35-50	0.01	150
5511-1121	35-60	0.01	150
5511-1125	50-100	0.01	150
5511-1130	50-160	0.01	150
5511-1135	160-250	0.01	400
5511-1140	250-450	0.01	400
5512-6105	0.24-0.4"	0.0005"	1.57"
5512-6110	0.4-0.7"	0.0005"	4"
5512-6115	0.7-1.5"	0.0005"	6"
5512-6120	1.4-2.4"	0.0005"	6"
5512-6125	2-4"	0.0005"	6"
5512-6130	2-6"	0.0005"	6"
5512-6135	6-10"	0.0005"	16"
5512-6140	10-16"	0.0005"	16"

### HIGHER PRECISION DIAL BORE GAUGE

Unit:mm

Code	Range	Graduation	Depth
5511-2105	6-10	0.001	40
5511-2110	10-18	0.001	100
5511-2115	18-35	0.001	150
5511-2120	35-50	0.001	150
5511-2125	50-100	0.001	150
5511-2130	50-160	0.001	150
5511-2135	160-250	0.001	400
5511-2140	250-450	0.001	400
5512-7105	0.24-0.4"	0.0001"	1.57"
5512-7110	0.4-0.7"	0.0001"	4"
5512-7115	0.7-1.5"	0.0001"	6"
5512-7120	1.4-2.4"	0.0001"	6"
5512-7125	2-4"	0.0001"	6"
5512-7130	2-6"	0.0001"	6"
5512-7135	6-10"	0.0001"	16"
5512-7140	10-16"	0.0001"	16"



- Used to measure close tolerance of holes, taper and roundness
- Steel body and interchangeable carbide anvils
- Extension rods and washers for fine adjustment in sizes to select a specific range
- Dial indicator fully protected by a rugged cover

## DIGITAL BORE GAUGE



Data output mm/in Battery CR2032

- Used to measure close tolerance of holes, taper and roundness
- Steel body and interchangeable carbide anvils
- Extension rods and washers for fine adjustment in sizes to select a specific range
- Large digital display for easy reading
- Lightweight housing for extra length and protection
- Thermally insulated for extra stability of accuracy

Unit:mm

Code	Range	Resolution	Depth
5610-8105	6-10/0.24-0.4"	0.002/0.0001"	40/1.57"
5610-8110	10-18/0.4-0.7"	0.002/0.0001"	100/4"
5610-8115	18-35/0.7-1.5"	0.002/0.0001"	150/6"
5610-8120	35-50/1.4-2.4"	0.002/0.0001"	150/6"

## DIAL BORE GAUGE WITH LONG HANDLE

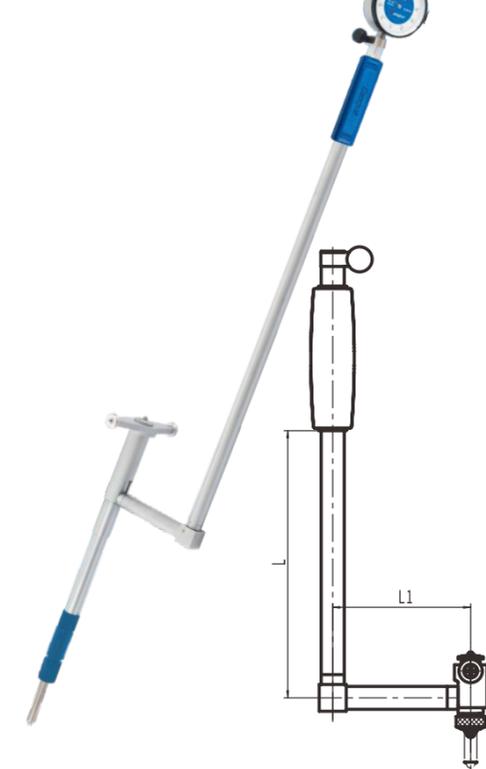


- Equipped with 0-3mm universal dial indicator
- Carbide-tipped contact points for durability
- The dial indicator is fully protected by a solid cover
- With screw anvils, convenience to set dimension

Unit:mm

Code	Range	Graduation	Depth
5411-0005	35-50	0.01	500
5411-0010	50-160	0.01	500
5411-0015	35-50	0.01	1000
5411-0020	50-160	0.01	1000
5411-0025	160-250	0.01	1000
5411-0030	250-450	0.01	1000

## DIAL BORE GAUGE 90° RIGHT ANGLE



- Equipped with 0-3mm universal dial indicator
- Carbide-tipped contact points for durability
- The dial indicator is fully protected by a solid cover
- With screw anvils, convenience to set dimension
- For inside measurement of deep holes

Unit:mm

Code	Range	Graduation	L	L1
5441-1005	35-50	0.01	150	76.2
5441-1010	50-160	0.01	150	76.2
5441-1015	160-250	0.01	250	100
5441-1020	250-450	0.01	250	100

## DIAL BORE GAUGE WITH LARGE MEASURING RANGE



5581-0010  
Digital available

- Equipped with 0-3mm universal dial indicator
- Carbide-tipped contact points for durability
- The dial indicator is fully protected by a solid cover
- With screw anvils, convenience to set dimension
- For inside measurement of special holes

Unit:mm

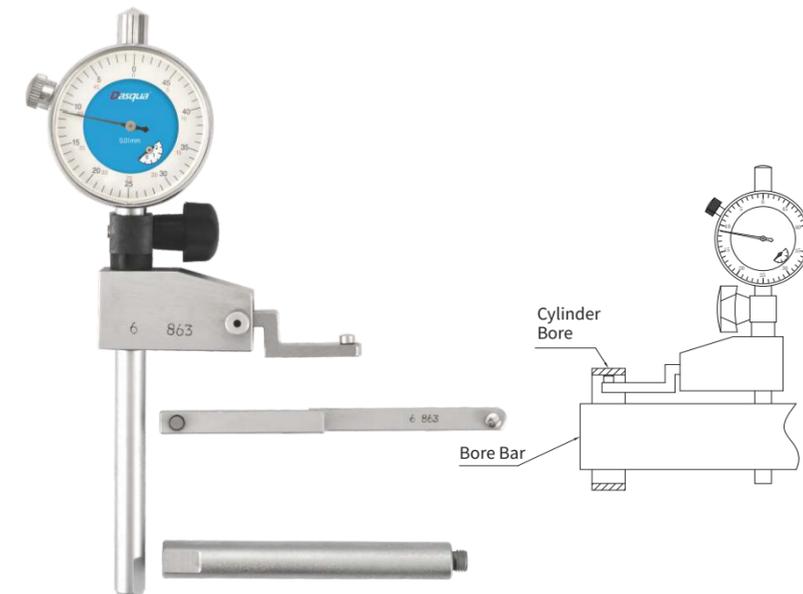
Code	Range	Graduation	Depth
5581-0005	400-800	0.01	400
5581-0010	400-800/16"-32"	0.002/0.0005"	400

## GAUGE FOR BEARING METAL BORING MACHINE

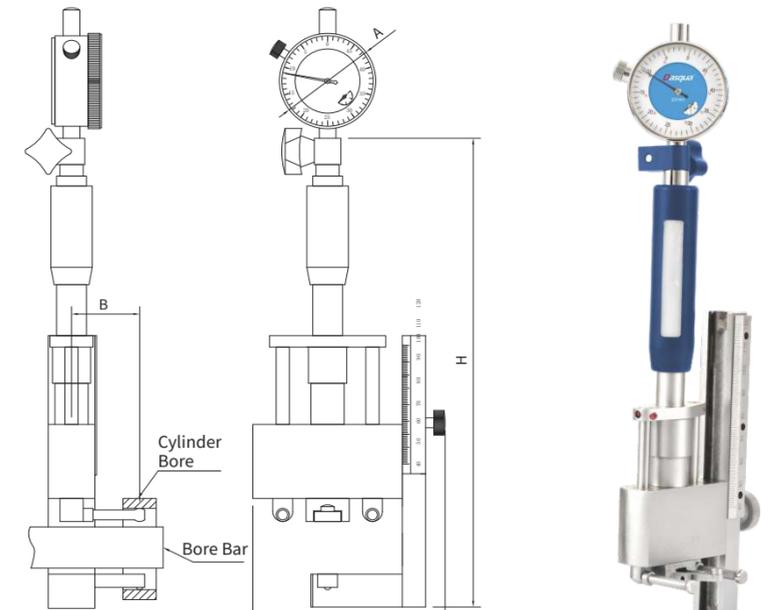
- Used to measure cylinder bore without unloading bore and to adjust the concentricity of cylinder bore and bore bar as well as adjust the highness of bore
- Large dial for easy reading
- Graduation:0.01mm
- Accuracy:0.03mm

Unit:mm

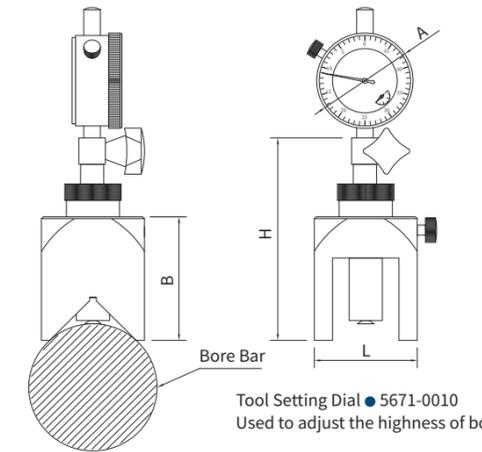
Code	Name	Range	Graduation	A	B	L	H	Accuracy
5671-0005	Dial bore gauge	φ48-66(Use to φ32 bore bar) φ62-100(Use to φ45 bore bar)	0.01	φ42	28	77	250	0.03
5671-0010	Tool Setting Dial	φ36-66(Use to φ32 bore bar) φ50-100(Use to φ45 bore bar)	0.01	φ42	63	46	100-128	0.03
5671-0015	Centre align dial	φ47-75(Use to φ32 bore bar) φ58-150(Use to φ45 bore bar)	0.01	φ42	/	107	111	0.03



Centre Align Dial • 5671-0015  
Used to adjust the concentricity of cylinder bore and bore bar

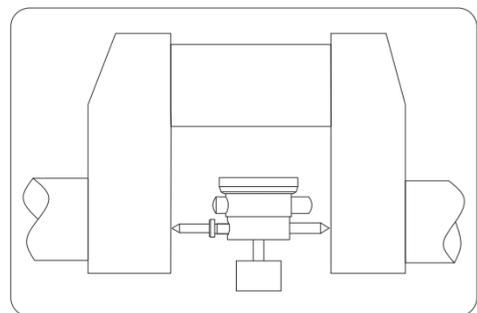


Dial Bore Gauge • 5671-0005  
Used to measure cylinder bore without unloading bore



Tool Setting Dial • 5671-0010  
Used to adjust the highness of bore

## CRANKSHAFT TESTER

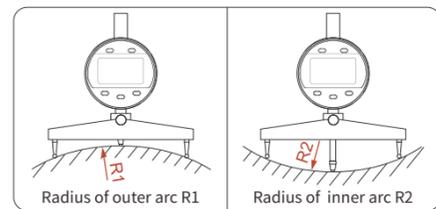
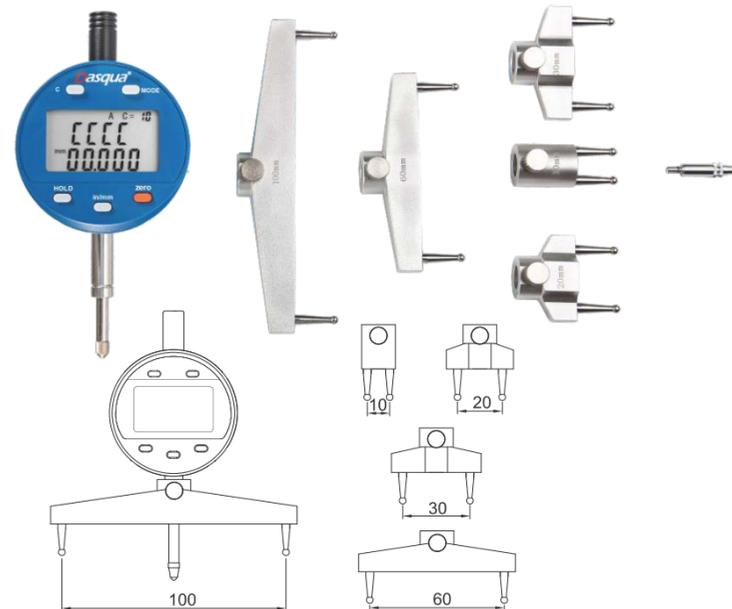


- To Measure crankshaft deflection
- The balance block is mounted on the back of dial indicator to keep the dial indicator facing up
- Measuring range: 60-500mm
- Graduation: 0.01mm
- Rotatable dial supplied with extensions

Unit:mm

Code	Range	Graduation	Dial indicator range	Extension rod	Accuracy
5751-0005	60-300	0.01	0-3	32.2,48,96,185	±0.014
5751-0010	60-500	0.01	0-3	32.2,48,96,185,197	±0.014

## DIGITAL RADIUS GAUGE



- Use to measure radius of internal and external arcs
- Supplied with 5 jaws for different sizes of arc
- USB data output
- Large LCD display with clear reading
- Stem and spindle stainless, hardened and lapped
- Different sized probes for arc measurements
- Measured value display in percent and radius display

Unit:mm

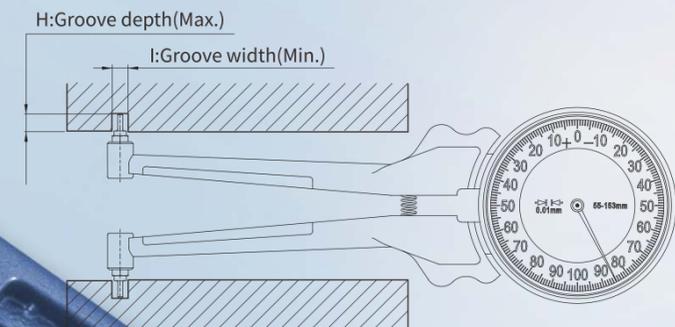
Code	Outside Diameter Range	Inside Diameter Range	Graduation	Radius Accuracy
5831-0005	5-700	6.5-700	0.005/0.0015"	<1%

# INTERCHANGEABLE POINTS BORE GAUGE



## MOST VALUE SAVER

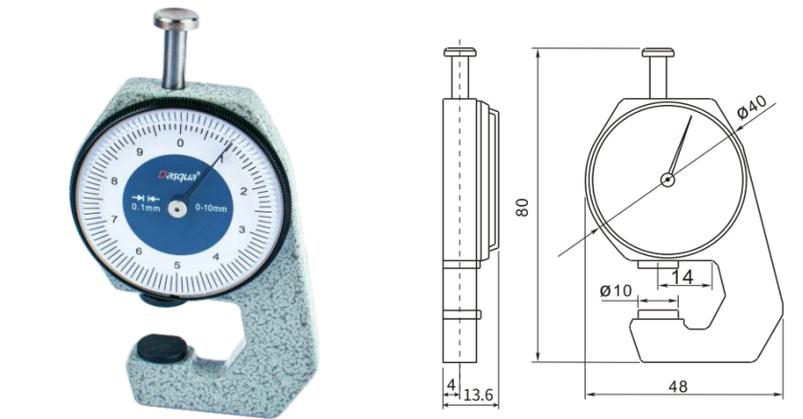
The range of this product equals 5 same-kind products thanks to interchangeable points.



Unit:mm

Code	Graduation	Measuring Range	Indicating range	H	I	Error
5800-1015	0.01	55-153	2	90	3.5	±20µm

## THICKNESS GAUGE

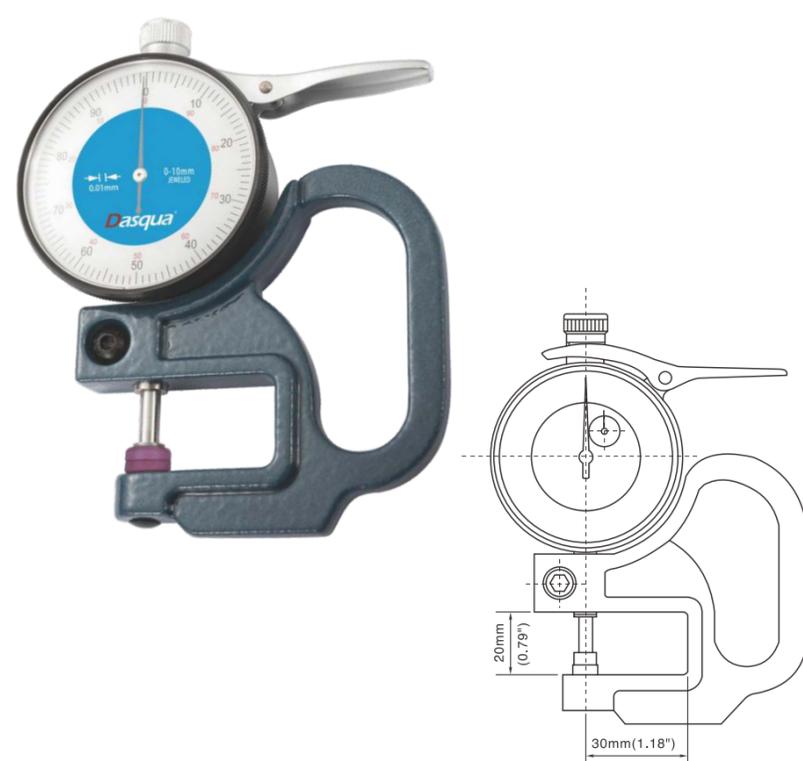


- Thickness gauges are attachment to the dial indicators and offer a quick and efficient means with a convenient grip handle to measure the thickness of paper, leather, rubber, fabric, metal plate, glass, plastic plate, etc
- With steel or ceramic measuring faces
- Sturdy light metal frame, lacquered, with spindle lifting lever
- Stainless spindle, hardened and precision ground

Unit:mm

Code	Range	Graduation	Accuracy
5841-8110	0-10	0.1	±0.05

## THICKNESS GAUGE



• 5841-8105

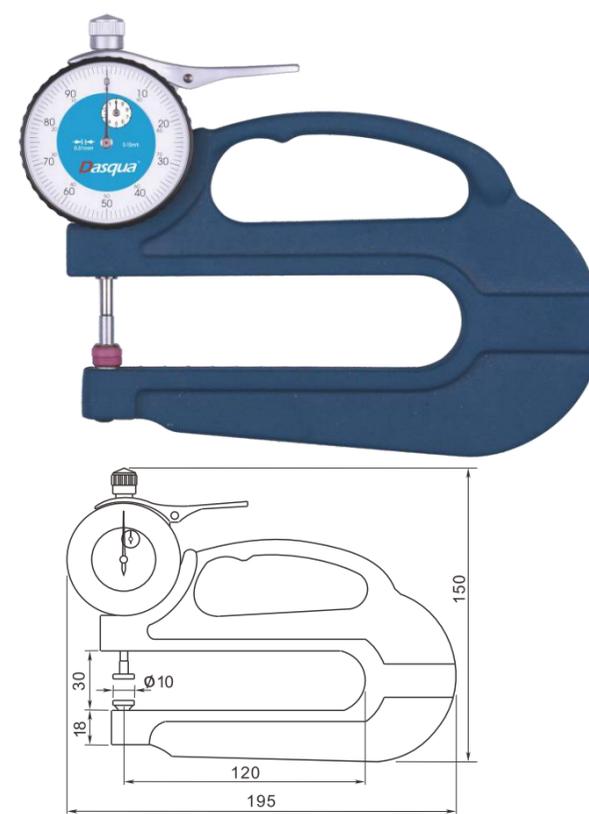
- Thickness gauges are attachment to the dial indicators and offer a quick and efficient means with a convenient grip handle to measure the thickness of paper, leather, rubber, fabric, metal plate, glass, plastic plate, etc
- With ceramic measuring faces
- Sturdy light metal frame, lacquered, with spindle lifting lever
- Stainless spindle, hardened and precision ground

Unit:mm

Code	Range	Graduation	Accuracy
5841-8105	0-10	0.01	±0.02
5841-8106	0-30	0.01	±0.035
5842-4105	0-0.5"	0.0005"	±0.001"

## THICKNESS GAUGE

WITH DEEP-THROAT



- Contact point and the flat anvil are ceramic for corrosion resistance
- 120mm throat for measuring the thickness of items where a greater depth is required
- Grip handle, thumb trigger, and spring-loaded spindle for accurate measurements
- Provide quick and efficient inspection of thickness

Unit:mm

Code	Range	Graduation	Accuracy
5841-1105	0-10	0.01	±0.02
5841-1110	0-20	0.01	±0.03
5842-4110	0-0.5"	0.0005"	±0.001"

## DIGITAL THICKNESS GAUGE



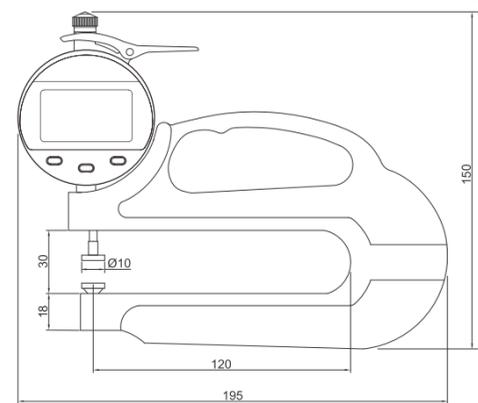
- Thickness gauges are attachment to the dial indicators and offer a quick and efficient means with a convenient grip handle to measure the thickness of paper, leather, rubber, fabric, metal plate, glass, plastic plate, etc
- With large LCD Screen and provide error-free reading
- With ceramic measuring faces
- With convenient grip handle, thumb trigger and spring-loaded spindle for accurate measurements

Unit:mm

Code	Range	Resolution	Accuracy
5840-6200	0-10/0-0.4"	0.01/0.0005"	±0.02

## DIGITAL THICKNESS GAUGE

WITH DEEP-THROAT



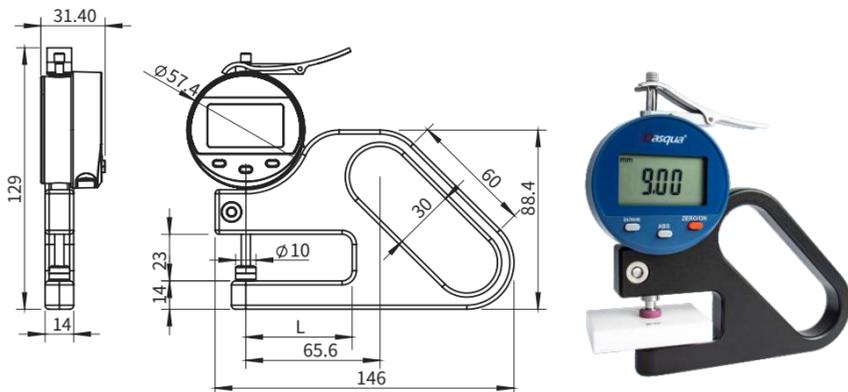
- Contact point and the flat anvil are ceramic for corrosion resistance
- 120mm throat for measuring the thickness of items where a greater depth is required
- Grip handle, thumb trigger, and spring-loaded spindle for accurate measurements
- Provide quick and efficient inspection of thickness
- With large LCD Screen and provide error-free reading

Unit:mm

Code	Range	Resolution	Accuracy
5840-6205	0-10/0.4"	0.01/0.0005"	±0.02

## DIGITAL THICKNESS GAUGE

WITH BLACK HANDLE

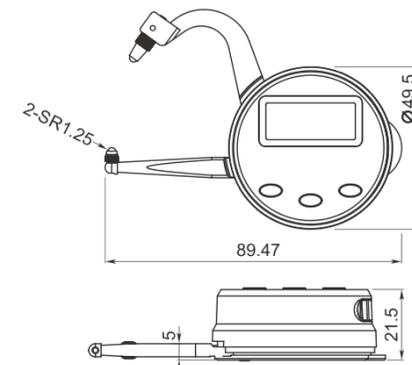


- Contact point and the flat anvil are ceramic for corrosion resistance
- Handle with anodization for longer service life
- Grip handle, thumb trigger, and spring-loaded spindle for accurate measurements
- Provide quick and efficient inspection of thickness
- With large LCD Screen and provide error-free reading

Unit:mm

Code	Range	Resolution	L	Accuracy
5840-6215	0-10/0.4"	0.01/0.0005"	30	±0.02
5840-6220	0-10/0.4"	0.01/0.0005"	50	±0.02
5840-6225	0-10/0.4"	0.01/0.0005"	100	±0.02
5840-6230	0-10/0.4"	0.01/0.0005"	120	±0.02

## DIGITAL THICKNESS GAUGE

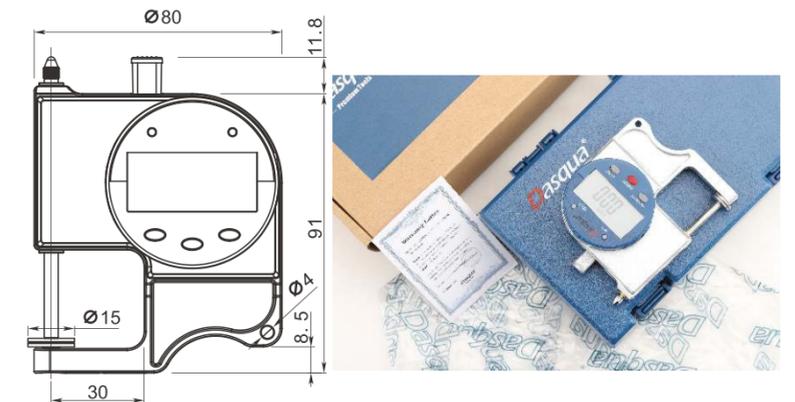


- Large LCD display for easy and clear reading
- Spring loaded travel
- The compact size and lightweight ensure it is very convenient ,handy and easy to operate
- Data hold function
- Class A for electrostatic discharge

Unit:mm

Code	Range	Resolution	Accuracy
2140-8105	0-25/0-1"	0.01/0.0005"/1/64"	0.05/0.002"

## DIGITAL THICKNESS GAUGE

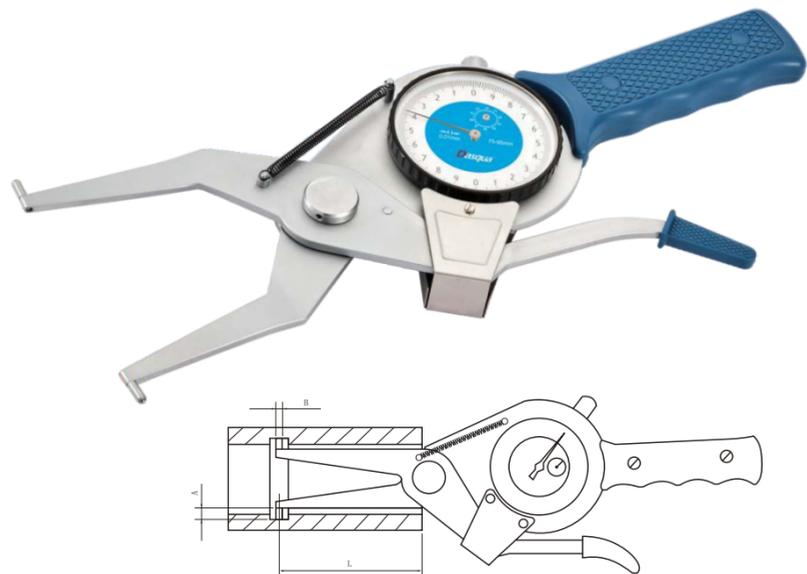


- Spring load movement with a push button
- Large LCD display for easy and clear readings
- Thickness measurement of different materials
- Data hold function

Unit:mm

Code	Range	Resolution	Accuracy
2140-8110	0-25/0-1"	0.01/0.0005"/1/64"	0.05/0.002"

## INTERNAL DIAL CALIPER GAUGE



- Versatile internal dial caliper gauge for measuring inside diameter, ring groove bottom diameter and inside step diameter or special holes of the workpiece
- The gauge is spring loaded and makes point contact at a constant measuring force
- Carbide measuring contact points
- Can be set with a micrometer or ring gauge
- Bezel rotates for zero setting

Unit:mm

Code	Range	Graduation	Accuracy	A	B	L
5810-2005	15-35	0.01	±0.035	3	φ3	50
5810-2010	35-55	0.01	±0.035	6	φ3	80
5810-2015	55-75	0.01	±0.035	8	φ3	90
5810-2020	75-95	0.01	±0.035	8	φ3	100
5810-2025	95-115	0.01	±0.035	10	φ3.2	150
5810-2030	115-135	0.01	±0.035	10	φ3.2	150
5812-4005	0.6-1.4"	0.0005"	±0.002"	0.118"	0.118"	1.9"
5812-4010	1.4-2.2"	0.0005"	±0.002"	0.236"	0.118"	3.1"
5812-4015	2.2-3.0"	0.0005"	±0.002"	0.315"	0.118"	3.1"
5812-4020	3.0-3.8"	0.0005"	±0.002"	0.315"	0.118"	3.9"

## INTERNAL DIGITAL CALIPER GAUGE

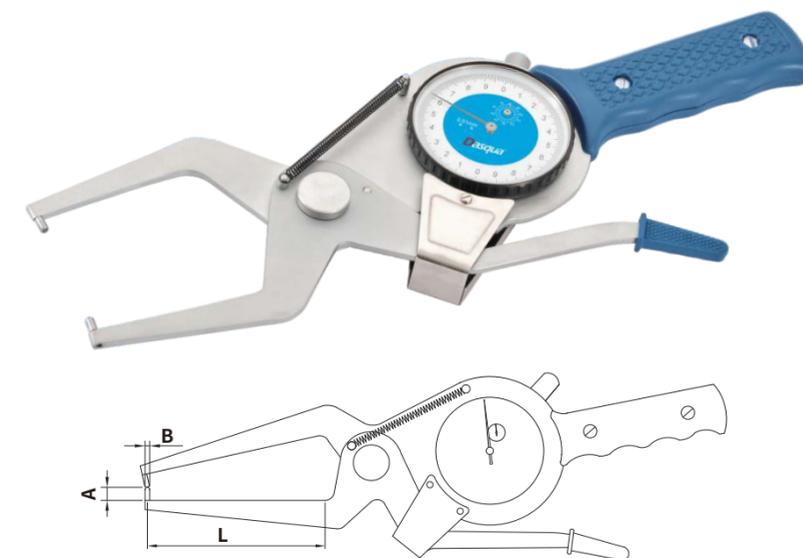


- Versatile internal dial caliper gauge for measuring inside diameter, ring groove bottom diameter and inside step diameter or special holes of the workpiece
- The gauge is spring loaded and makes point contact at a constant measuring force
- With large LCD display for clear and error-free readings adings
- Carbide measuring contact points
- With data output for SPC analysis

Unit:mm

Code	Range	Resolution	Accuracy	L	A	D
5811-0005	15-35mm/0.6-1.4"	0.01/0.0005"	±0.035/0.002"	50	3	φ3
5811-0010	35-55mm/1.4-2.2"	0.01/0.0005"	±0.035/0.002"	80	6	φ3
5811-0015	55-75mm/2.2-3.0"	0.01/0.0005"	±0.035/0.002"	90	8	φ3
5811-0020	75-95mm/3.0-3.8"	0.01/0.0005"	±0.035/0.002"	100	8	φ3
5811-0025	95-115mm/3.8-4.6"	0.01/0.0005"	±0.035/0.002"	150	10	φ3.2
5811-0030	115-135mm/4.6-5.4"	0.01/0.0005"	±0.035/0.002"	150	10	φ3.2

## EXTERNAL DIAL CALIPER GAUGE



- Versatile external dial caliper gauge for measuring outside diameter, ring groove bottom diameter, narrow grooves and the dimensions that hard to reach
- The gauge is spring loaded and makes point contact at a constant measuring force
- Carbide measuring contact points
- Can be set with a micrometer or ring gauge
- Bezel rotates for zero setting

Unit:mm

Code	Range	Graduation	Accuracy	A	B	L
5721-0005	0-20	0.01	±0.035	6	φ3	60
5721-0010	20-40	0.01	±0.035	6	φ3	60
5721-0015	40-60	0.01	±0.035	6	φ3	55
5721-0020	60-80	0.01	±0.035	6	φ3	55
5721-0025	80-100	0.01	±0.035	6	φ3	55
5722-4005	0-0.8"	0.0005"	±0.002"	0.236"	0.118"	2.3"
5722-4010	0.8-1.6"	0.0005"	±0.002"	0.236"	0.118"	2.3"
5722-4015	1.6-2.4"	0.0005"	±0.002"	0.236"	0.118"	2.1"
5722-4020	2.4-3.2"	0.0005"	±0.002"	0.236"	0.118"	2.1"
5722-4025	3.2-4.0"	0.0005"	±0.002"	0.236"	0.118"	2.1"

## EXTERNAL DIGITAL CALIPER GAUGE

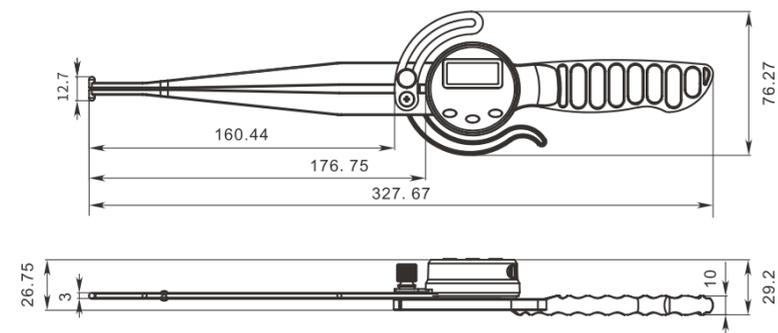


- Versatile internal dial caliper gauge for measuring outside diameter, ring groove bottom diameter, narrow grooves and the dimensions that hard to reach
- The gauge is spring loaded and makes point contact at a constant measuring force
- With large LCD display for clear and error-free readings
- Carbide measuring contact points
- With data output for SPC analysis

Unit:mm

Code	Range	Resolution	Accuracy	A	D	L
5630-1005	0-20mm/0-0.8"	0.01/0.0005"	±0.035/0.002"	6	φ3	60
5630-1010	20-40mm/0.8-1.6"	0.01/0.0005"	±0.035/0.002"	6	φ3	60
5630-1015	40-60mm/1.6-2.4"	0.01/0.0005"	±0.035/0.002"	6	φ3	55
5630-1020	60-80mm/2.4-3.2"	0.01/0.0005"	±0.035/0.002"	6	φ3	55
5630-1025	80-100mm/3.2-4.0"	0.01/0.0005"	±0.035/0.002"	6	φ3	55

## INTERNAL DIGITAL CALIPER GAUGE

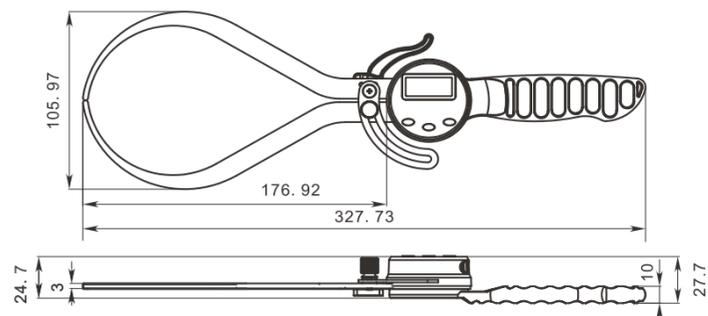


- Make quick and accurate inside measurements of different materials
- Perfect for woodworking, carpentry, metal fabrication, etc
- High hardness and wear resistance
- With large LCD display for clear and error-free readings
- The gauge is spring loaded and makes point contact at a constant measuring force

Unit:mm

Code	Range	Resolution	Accuracy
1804-1010	12.7-165/0.5-6.5"	0.1/0.005"/1/64"	0.2/0.01"
1804-1015	12.7-257.4/0.5-8.5"	0.1/0.005"/1/64"	0.3/0.02"

## EXTERNAL DIGITAL CALIPER GAUGE

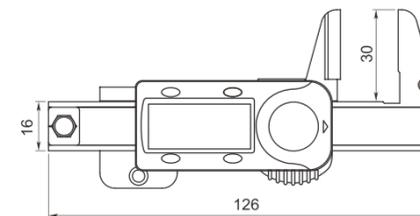


- Make quick and accurate outside measurements of different materials.
- Perfect for woodworking, carpentry, metal fabrication, etc
- High hardness and wear resistance
- With large LCD display for clear and error-free readings
- The gauge is spring loaded and makes point contact at a constant measuring force

Unit:mm

Code	Range	Resolution	Accuracy
1804-1020	0-150/0-6"	0.1/0.005"/1/64"	0.2/0.01"
1804-1025	0-200/0-8"	0.1/0.005"/1/64"	0.3/0.02"

## SNAP ACTION CALIPER

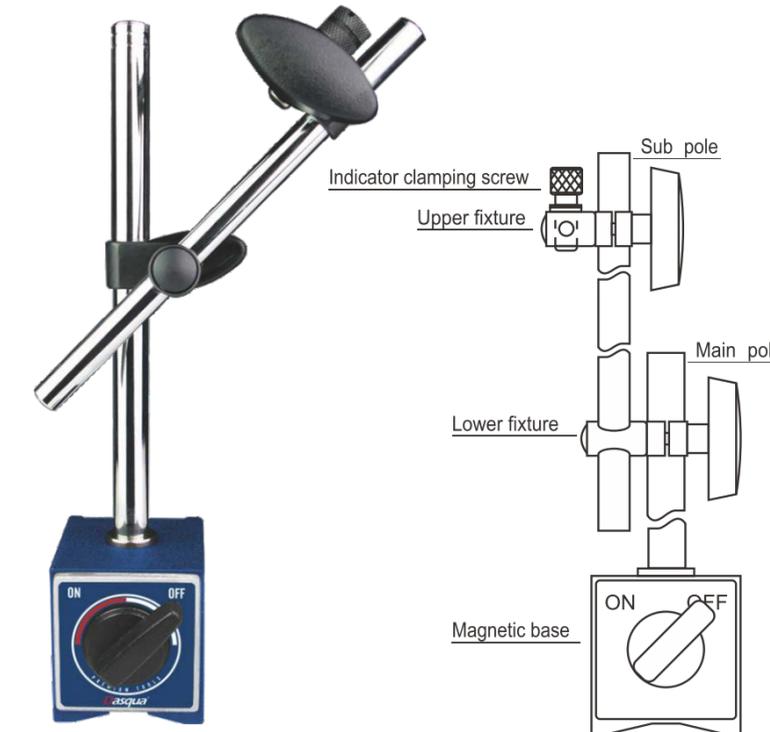


- With spring-loaded mechanism to allow quick and efficient measurements
- With large LCD display for clear and error-free readings
- Wide jaw for easy position
- Hardened stainless steel construction
- Hanging loop included for attachment to belt or chain

Unit:mm

Code	Range	Resolution	Accuracy
2140-8101	0-25/0-1"	0.0005"/0.01/1/64	0.03/0.0015"

## MAGNETIC STAND



- Solid structure with electroplated surfaces, precision ground end-faces
- With fine adjustment device, which is heat-treated to ensure stability and durability
- With clamp holes of 6mm, 8mm, which satisfy the use of most indicators and test indicators
- 150° V-grooved base can be placed on the cylindrical surfaces for easily fixing the indicators
- Well selected ferrite permanent magnet with magnetic force greater than calibration value
- On/off switch for magnet, easy to move the base without the influence of magnetic force

Unit:mm

Code	Holding Power	Base	Main Pole	Sub Pole	Dia. of Clam Hold	Weight
7700-0005	80kg	58x50x55	φ12x177	φ10x165	φ6/φ8	1.6kg

# LOCK'™ MAGNETIC BASE

Dasqua B<sub>lu</sub>

## • Two clamping holes

Designed with two clamping holes, which are suitable for metric and inch dial indicators, plus dovetail groove for test indicators, bringing great convenience holding capabilities

**φ6mm, φ8mm, 3/8", Dovetail**

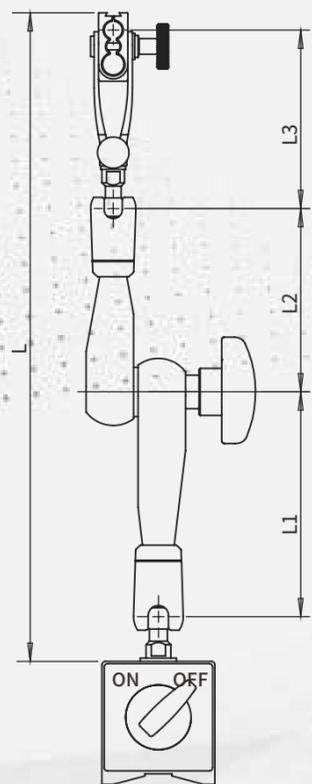
## • CNC Machining

Main parts produced on CNC machines, providing extremely accurate and high precision, ensuring high quality and high stability

- All wear parts use hardened high grade steel and with hardness over 58HRC
- Inner structure is made of bearing steel, delivering more wear-resisting ability and longer service life. delivering more wear-resistance and longer life

Unit: mm

Code	Holding Power	Base	L1	L2	L3	L
7121-0020	50kg	40 x 40 x 40	62	52	79	220
7121-0025	80kg	60 x 50 x 55	100	82	81	290
7121-0030	100kg	73 x 50 x 55	145	95	81	355
7121-0045	130kg	117 x 50 x 55	175	125	81	415



• Equal locking force, more competitive price

**10.0KG**  
(Arm Locking Power)

## • Super forced locking mechanical universal arm

New type locking mechanism, super strong arm lock and super tight locking force guarantees long life and firm positioning



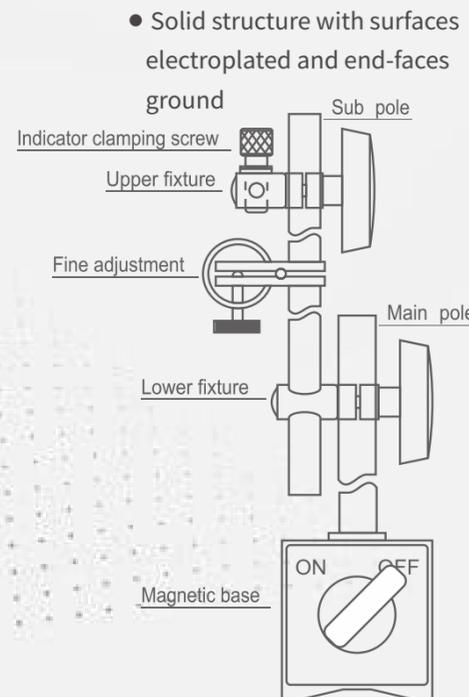
## • Ergonomic design

Ergonomic-designed tightening knob provides comfortable and firm grip; Flexible and super strong rotary joints, providing smooth adjustments in any direction or location



# MAGNETIC BASE WITH FINE ADJUSTMENT

- 150° V-grooved base can be placed on the cylindrical surfaces as well as flat surfaces for easily fixing the indicators.
- Well selected ferrite permanent magnet with magnetic force greater than calibration value
- On/o fswitch for magnet, easy to move the base without the influence of magnetic force.



- Solid structure with surfaces electroplated and end-faces ground



Unit:mm

Code	Holding Power	Base	Main Pole	Sub Pole	Dia. of Clam Hold	weight
7122-0004	60kg	60x50x55	φ12x176	φ10x150	φ6/φ8	1.5kg
7122-0005	80kg	60x50x55	φ12x176	φ10x150	φ6/φ8	1.5kg
7122-0010	100kg	73x50x55	φ16x255	φ14x165	φ6/φ8	2.3kg
7122-0015	130kg	117x50x55	φ20x355	φ14x210	φ6/φ8	3.7kg
7123-1004	60kg	60x50x55	φ12x176	φ10x150	φ4/φ8/3/8"	1.5kg
7123-1005	80kg	60x50x55	φ12x176	φ10x150	φ4/φ8/3/8"	1.5kg
7123-1010	100kg	73x50x55	φ16x255	φ14x165	φ4/φ8/3/8"	2.3kg
7123-1015	130kg	117x50x55	φ20x355	φ14x210	φ4/φ8/3/8"	3.7kg



• With clamp holes of φ4mm, φ8mm, 3/8", which satisfy the use of most indicators and test indicators.

• With fine adjustment device, which is heat-treated to ensure stability and durability.

## MINI MAGNETIC BASE

WITH 3D&UNIVERSAL ARM



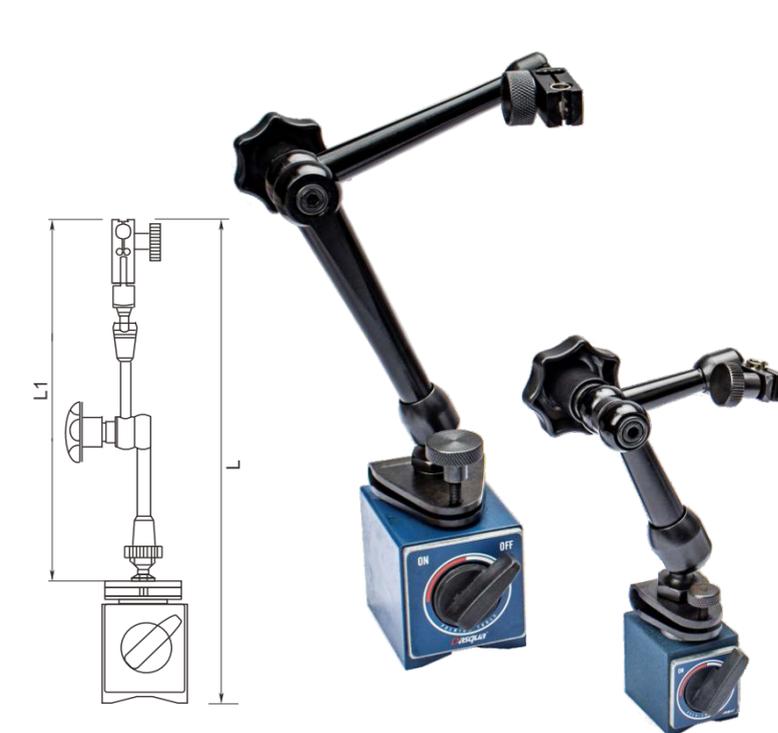
- Small shape ensures easy and fast fixing to machine
- Flexible, strong and precise rotary jointed arms, which can adjust to any position
- Ball joints enables quick and easy positioning, all three joints are controlled by a tightening knob
- With central locking mechanism
- Clamping force can be continuously adjusted, with high stability
- With clamp hole, dovetail groove, which can clamp many types of indicators

Unit:mm

Code	Holding Power	Base	Arm Length (L1)	Overall Length(L)	Dia. of Clamp Hole	Weight
7312-0004	18KG	φ30x25	180	205	φ6/φ8/Dovetail	0.3kg

## UNIVERSAL MAGNETIC BASE

WITH NEW DESIGN FINE ADJUSTMENT



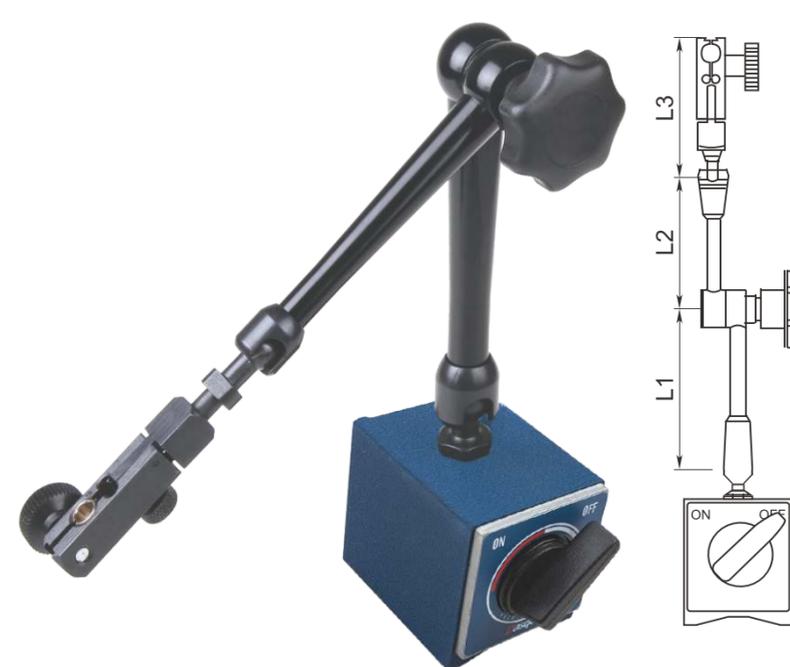
- Mechanical central locking of all joints.
- Special structure ensures high pressure.
- Powerful permanent magnet.
- V-grooved base for ease of mount on cylindrical parts also.
- Jointed arms rotate 360° on the dial indicator holder and can be twisted 180°.
- Smooth and easy on/off switch.

Unit:mm

Code	Holding Power	Base	Dia of Clamp Hole	L1	L	Weight
7122-0025	30kg	35x30x35	φ6/φ8/Dovetail	160	210	0.4kg
7122-0030	80kg	60x50x55	φ6/φ8/Dovetail	280	350	1.3kg
7122-0035	100kg	73x50x55	φ6/φ8/Dovetail	356	424	1.7kg

## MAGNETIC STAND

WITH FLEXIBLE JOINTED ARM



- Flexible, strong and precise rotary jointed arms, which can adjust to any position
- With central locking mechanism
- Clamping force can be continuously adjusted, with high stability
- With clamp hole, dovetail groove, which can clamp many types of indicators
- 150° V-grooved base, can be placed on the cylindrical surfaces for easily fixing the indicators
- On/off switch for magnet, easy to move the base without the influence of magnetic force
- Ball joints enables quick and easy positioning, all three joints are controlled by a tightening knob

Unit:mm

Code	Holding Power	Base	Arm length	L1	L2	L3	Dia. of Clamp Hole	Weight
7312-0005	30kg	35x30x35	158	56	51	17	φ6/φ8/Dovetail	0.4kg
7312-0010	80kg	60x50x55	310	110	101	73	φ6/φ8/Dovetail	1.4kg
7312-0015	100kg	73x50x55	385	147	130	76	φ6/φ8/Dovetail	1.8kg
7312-0020	130kg	117x50x55	635	285	225	76	φ6/φ8/Dovetail	5.0kg

## PRECISION MEASURING BASE FOR INDICATOR



- The scale of clamping holes are 4mm, 8mm, 3/8", as to be suitable for most indicators
- End face fine grounded. Electroplated surface
- With fine adjustment

Unit:mm

Code	Scale
7612-0005	with two rods, φ12x176mm, φ10x150mm
7612-0010	with two rods, φ20x355mm, φ14x210mm

## UNIVERSAL PRECISION MEASURING BASE FOR INDICATOR

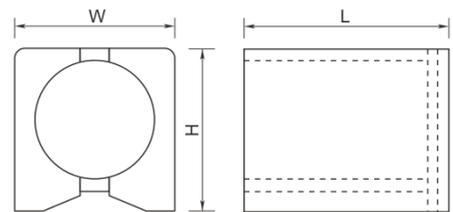


- Fine adjustment, 2 clamping holes, dovetail.
- Flexible, precise, rotatable, ergonomic designed arm can be adjusted to any position it can reach.
- Ball joints can be fast and easily positioned, and all three joints are controlled by one knob
- The bearing steel adopted internally, with stronger wear resistance ----- provides longer service life.
- CNC processed ----- precision size, high accuracy which ensure the great quality and strong stability of products.

Unit:mm

Code	Scale
7612-0015	with rod 290mm
7612-0020	with rod 355mm
7612-0025	with rod 635mm

## MAGNETIC BASE



- 150° V-grooved base can be placed on the cylindrical surfaces for easily fixing the indicators
- Carefully selected ferrite permanent magnet with inspected magnetic force which is greater than calibration value
- On/o fswitch for magnet, easy to move the base without the influence of magnetic force
- Blue wrinkle finish on non-working surfaces

Unit:mm

Code	Holding Power	size(LxWxH)	Thread	Magnet Type	Weight
7000-0005	80kg	60x50x55	M8x1.25	Ferrite	1.0kg
7000-0010	100kg	73x50x55	M8x1.25	Ferrite	1.3kg
7000-0015	130kg	117x50x55	M8x1.25	Ferrite	2.0kg
7000-0020	30kg	35x30x35	M5x0.8	NdFeB	0.2kg

## MAGNETIC STAND



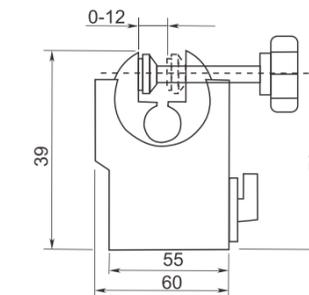
7511-0005

- Small shape ensures easy and fast fixing to machine
- With two round permanent magnets (7521-0005), with laminated permanent magnets and V-grooved base (7521-0010), without magnet on/o fswitch
- Low height enables fast, safe and easy mounting on machines and jigs
- Black enamel finish

Unit:mm

Code	Holding Power	Base	Stem	Dia. of Clam Hold	Weight
7511-0005	15kg	φ30x25	65	φ6/φ8/Devotail	200g
7521-0005	20kg	73x37x12	/	φ8	160g
7521-0010	20kg	73x37x26	/	φ8	300g

## MICROMETER STAND WITH MAGNETIC BASE

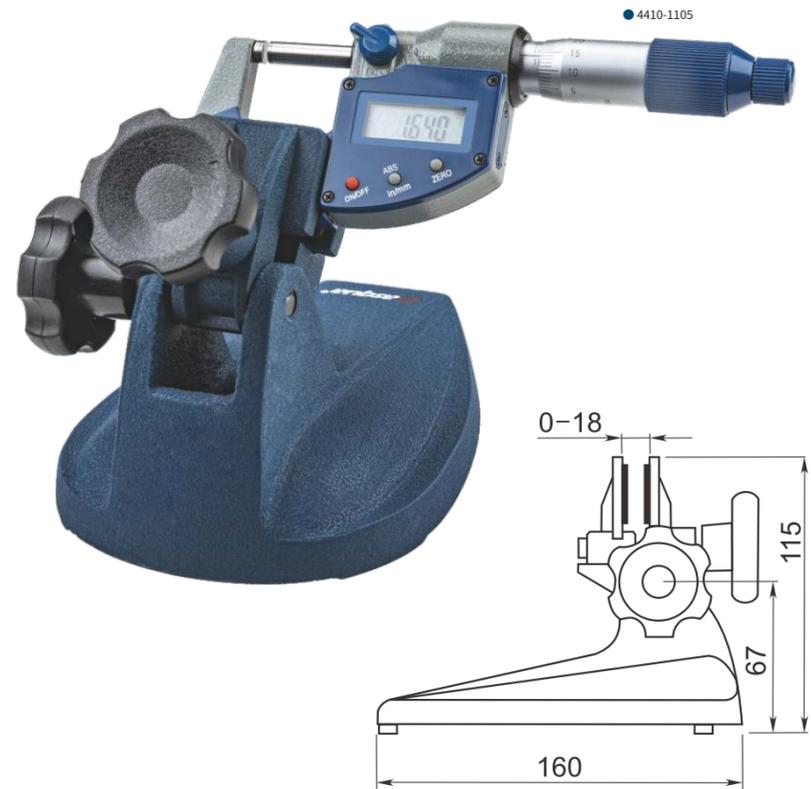


- Keep hands free for operating micrometer and positioning workpiece
- Perfect for batch or mass production measurements in manufacturing and quality assurance
- Proper weight and low center of gravity ensure stable base
- Blue enamel finish

Unit:mm

Code	Capacity	Magnetic	Weight
7111-1000	up to 300/12"	with magnetic base	0.8kg

## MICROMETER STAND

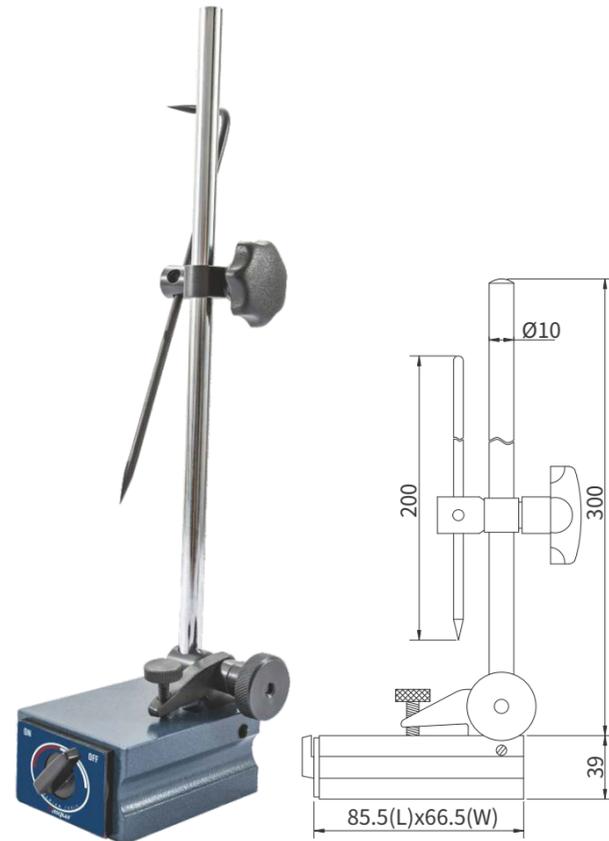


- Keep hands free for operating micrometer and positioning workpiece
- Perfect for batch or mass production measurements in manufacturing and quality assurance
- Blue enamel finish
- **Without digital micrometer, which can be found and ordered in page 53**

Unit:mm

Code	Capacity	Magnetic
7111-1105	up to 100/4"	without magnetic base

## SURFACE GAUGE WITH SWITCHABLE MAGNETIC BASE



- Combine the surface gauge and magnetic base in one
- Magnetic base embedded with permanent magnet and having on/off switch, magnetic pull of 80kg
- Scriber head is hardened
- Hardened, ground, and lapped steel base for high stability
- Base with fine adjustment function

Unit:mm

Code	Holding Power	Dia. of Clam Hold	Main Pole	Remark
7123-0005	80kg	φ4&3/8"	φ8x230	with Fine Adjustment

## MINI LED LIGHT WITH MAGNETIC BASE



- Great for auto preparation work
- Lens "zoom" for concentrated lighting
- Articulating flex shaft allows easy and accurate positioning
- Flexible shaft of 120mm with universal movement
- Magnetic base with good magnetic pull of 12kg
- LED flashlight requires 3 AAA batteries, and flashlight is removable

Unit:mm

Code	Weight
7611-0020	0.4kg

## PRECISION GRANITE COMPARATOR STAND



- Easy maintenance due to the non-rusting base
- The rigid granite base is free from burrs and pileups due to its fine-grain composition and less viscousness compared with casting iron
- The flatness is always accurate and the workpiece is free from damage
- Used for indicator of Dia.8mm and 3/8"
- Measuring surface are precision ground and diamond lapped

Unit:mm

Code	Pole	Base	Dia. of Clam Hold	Weight
7912-0004	φ25x180	150x100x40	φ8/3/8"	2.9kg
7912-0005	φ30x300	210x150x50	φ8/3/8"	7.0kg
7912-0010	φ30x300	300x200x60	φ8/3/8"	11.6kg

## PRECISION GRANITE COMPARATOR STAND WITH FINE ADJUSTMENT



- Used for the measuring room and calibration laboratory
- Easy maintenance due to the non-rusting base
- The rigid granite base is free from burrs and pileups due to its fine-grain composition and less viscousness compared with cast iron
- The flatness is always accurate and the workpiece is free from damage
- Measuring surface fine ground and diamond lapped
- Hardened column with height adjustment and setting ring
- Dial indicator shank  $\varnothing 8$  mm
- With fine adjustment over the entire travel

Unit:mm

Code	Base	Pole	Dia. of Clam Hole
7812-0015	300x200x60	$\varnothing 30 \times 300$	$\varnothing 8/3/8''$

## PRECISION GRANITE COMPARATOR STAND WITH CAST IRON ANVIL



• 7712-0005

• 7712-0006

• 7712-0030

- Rapid positioning with coarse adjustment
- Heavy duty upright column and adjustable support arm ensure the high stability
- Upright column is made stainless steel and precision ground
- Round cast iron base

Unit:mm

Code	Pole	Base	Dia. of Clam Hold
7712-0005	$\varnothing 25 \times 180$	$\varnothing 60$	$\varnothing 8/3/8''$
7712-0006	$\varnothing 25 \times 180$	$\varnothing 60$	$\varnothing 8/3/8''$
7712-0030	$\varnothing 25 \times 180$	80x80	$\varnothing 8/3/8''$

## PRECISION MEASURING TABLE WITH CERAMIC ANVIL



- Strong cast iron base with rigid column and sturdy indicator holder
- Indicator holder  $\varnothing 8$  mm
- The table is of high-quality ceramic, lapped
- $Ra \leq 0.1 \mu m$

Unit:mm

Code	Pole	Base	Dia. of Clam Hold	Weight
7712-0020	$\varnothing 25 \times 180$	$\varnothing 60$	$\varnothing 8/3/8''$	1.6kg
7712-0025	$\varnothing 25 \times 180$	80x80	$\varnothing 8/3/8''$	2.5kg

## HEAVY DUTY PRECISION BENCH CENTER



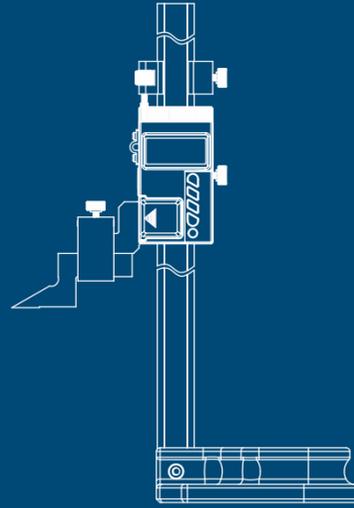
- Used to make fast and precise checks of runout on cylindrical/tapered parts
- Base and center-stocks are made of stress-relieved and aged cast iron
- Centers are made of hardened and precision ground steel
- Extra heavy duty adjustable indicator holder included
- Quick release centers, #2 Morse taper centers
- Head stock can be adjusted lengthwise and locked securely in any position by special lever type handle

Unit:mm

Code	Distance between two centers	Center height	Range	Accuracy	
				Parallelism( $\mu m$ )	Verticality( $\mu m$ )
7851-0005	200	100	$\varnothing 200$	$\leq 8$	$\leq 5$
7851-0006	300	100	$\varnothing 200$	$\leq 8$	$\leq 5$
7851-0007	300	170	$\varnothing 340$	$\leq 8$	$\leq 5$
7851-0008	300	300	$\varnothing 600$	$\leq 8$	$\leq 5$
7851-0009	500	170	$\varnothing 340$	$\leq 8$	$\leq 5$
7851-0011	500	300	$\varnothing 600$	$\leq 8$	$\leq 5$
7851-0013	1000	300	$\varnothing 600$	$\leq 10$	$\leq 8$
7851-0014	1500	250	$\varnothing 500$	$\leq 20$	$\leq 16$
7851-0015	2000	230	$\varnothing 460$	$\leq 30$	$\leq 20$
7851-0016	2500	300	$\varnothing 560$	$\leq 30$	$\leq 30$

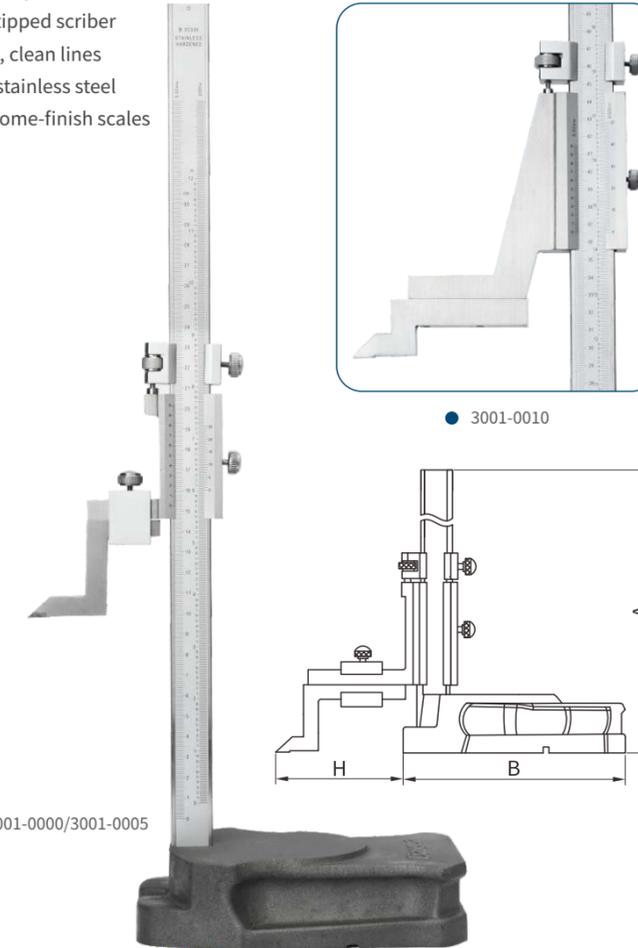
# HEIGHT GAUGES

BORN IN ITALY, RAISED BY THE WORLD



## VERNIER HEIGHT GAUGE

- With fine adjustment
- Carbide tipped scriber for sharp, clean lines
- Made of stainless steel
- Satin chrome-finish scales



● 3001-0000/3001-0005

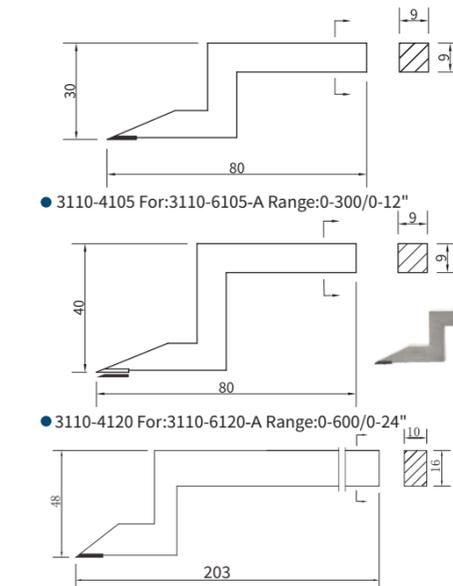
● 3001-0010

Unit:mm

Code	Range	Graduation	A	B	C	Accuracy
3001-0000	0-200/0-8"	0.01"	330	75	77	±0.03
3001-0005	0-300/0-12"	0.01"	455	155	77	±0.03
3001-0010	0-500/0-24"	0.01"	685	239	121.5	±0.05

## HEIGHT GAUGE WITH MAGNIFIER WITH ADJUSTABLE MAIN BEAM

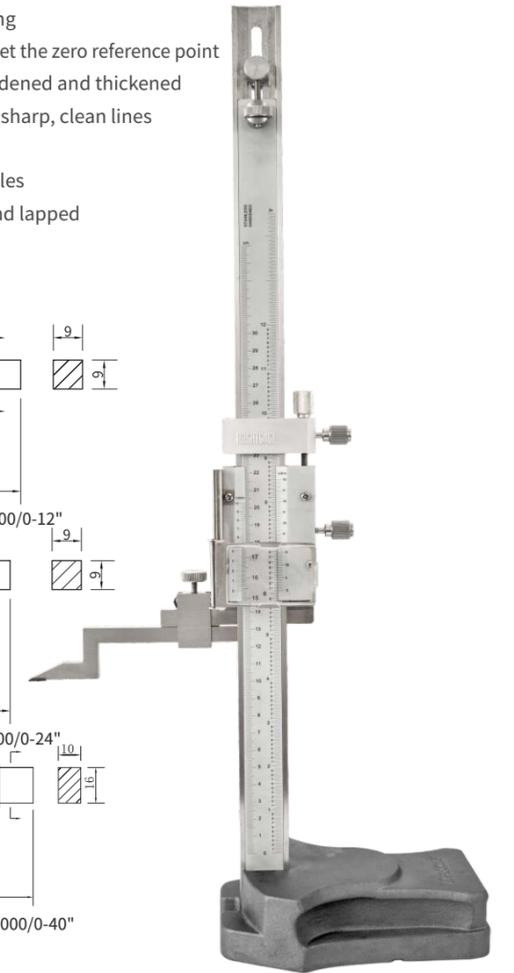
- Magnifier for easier reading
- Adjustable main beam to set the zero reference point
- Made of stainless steel, widened and thickened
- Carbide tipped scriber for sharp, clean lines
- With fine adjustment
- Satin chrome-finished scales
- Base hardened, ground and lapped for maximum flatness
- Dustproof shield optional



● 3110-4105 For:3110-6105-A Range:0-300/0-12"

● 3110-4120 For:3110-6120-A Range:0-600/0-24"

● 3110-4125 For:3110-6125-A Range:0-1000/0-40"



Unit:mm

Code	Range	Graduation	Accuracy
3110-6105-A	0-300/0-12"	0.02/0.001"	±0.03
3110-6120-A	0-600/0-24"	0.02/0.001"	±0.06
3110-6125-A	0-1000/0-40"	0.02/0.001"	±0.06

*Born in Italy  
Raised by the world*

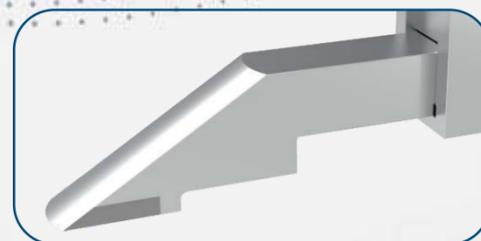
**THE NEW GENERATION**

# HEAVY DUTY DIGITAL HEIGHT GAUGE

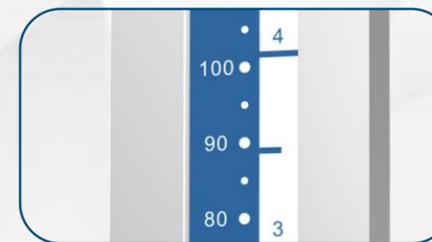
WATER PROOF INDUCTANCE SENSOR



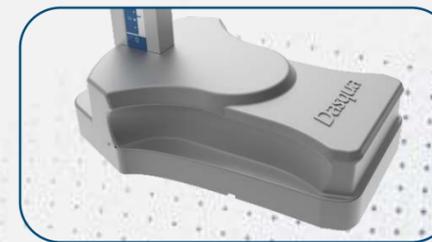
• Larger screen for easy reading



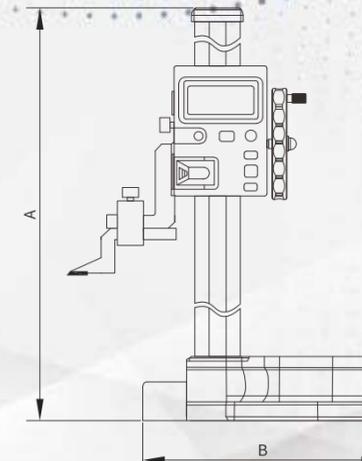
• Carbide tipped scriber for sharp, clean lines



• Stainless steel beam for longer service life



• New designed heavy duty base for better stability



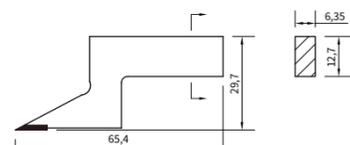
Unit:mm

Code	Range	Resolution	A	B	Accuracy
3530-0005	0-300/0-12"	0.01/0.0005"	492	190	0.02/0.0008"
3530-0010	0-600/0-24"	0.01/0.0005"	796	190	0.04/0.0015"

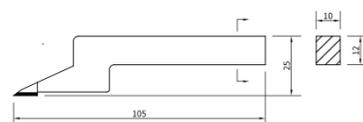
## DIGITAL HEIGHT GAUGE

### WITH ABSOLUTE LINEAR ENCODER

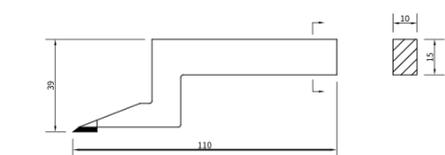
- Built-in absolute linear encoder, no need to set the reference point at every power-on
- Carbide tipped scriber for sharp, clean lines
- With SPC data output
- Large, easy-to-read LCD display
- Rigid, heavy duty beam and base
- Dustproof shield optional



• 3130-4115 For:3130-8119 Range:0-300/0-12"



• 3130-4125 For:3130-8125 Range:0-600/0-24"



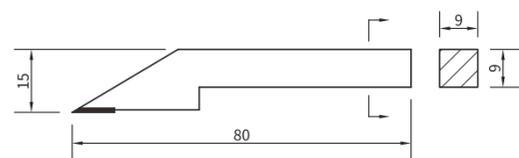
• 3130-4130 For:3130-8130 Range:0-1000/0-40"  
 • 3130-4130 For:3130-8135 Range:0-1500/0-60"  
 • 3130-4130 For:3130-8140 Range:0-2000/0-80"

Unit:mm

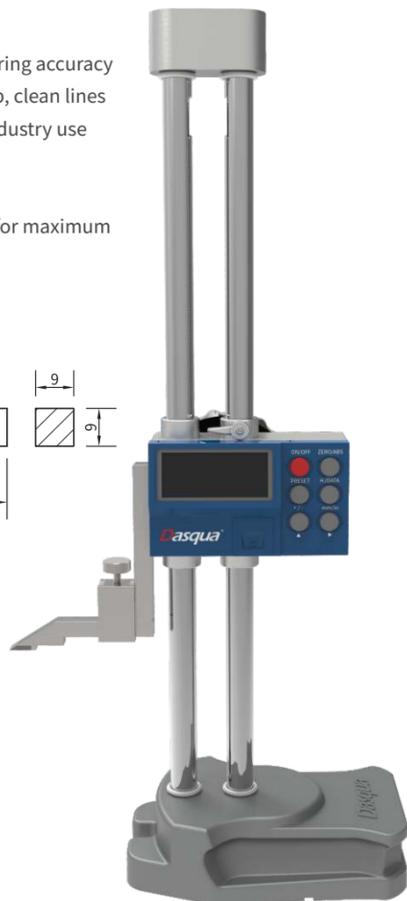
Code	Range	Resolution	Accuracy
3130-8119	0-300/0-12"	0.01/0.0005"	±0.04
3130-8125	0-600/0-24"	0.01/0.0005"	±0.05
3130-8130	0-1000/0-40"	0.01/0.0005"	±0.07
3130-8135	0-1500/0-60"	0.01/0.0005"	±0.11
3130-8140	0-2000/0-80"	0.01/0.0005"	±0.14

## DOUBLE-BEAM DIGITAL HEIGHT GAUGE

- Double-beam ensures higher measuring accuracy
- Long carbide tipped scriber for sharp, clean lines
- Rigid, heavy duty construction for industry use
- With SPC data output
- With a feed wheel on the back
- Base hardened, ground and lapped for maximum flatness
- Zero-setting at any position
- Dustproof shield optional



3230-4105 For:3230-8105-A Range:0-300/0-12"  
 3230-4105 For:3230-8110-A Range:0-500/0-20"  
 3230-4105 For:3230-8115-A Range:0-600/0-24"  
 3230-4105 For:3230-8116-A Range:0-1000/0-40"



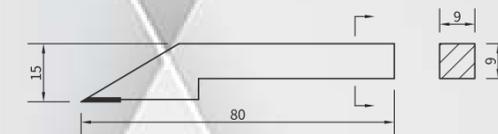
Unit:mm

Code	Range	Resolution	Accuracy
3230-8105-A	0-300/0-12"	0.01/0.001"	±0.04
3230-8110-A	0-500/0-20"	0.01/0.001"	±0.05
3230-8115-A	0-600/0-24"	0.01/0.001"	±0.05
3230-8116-A	0-1000/0-40"	0.01/0.001"	±0.07

## DOUBLE-BEAM DIAL HEIGHT GAUGE

### WITH DIGIT COUNTER

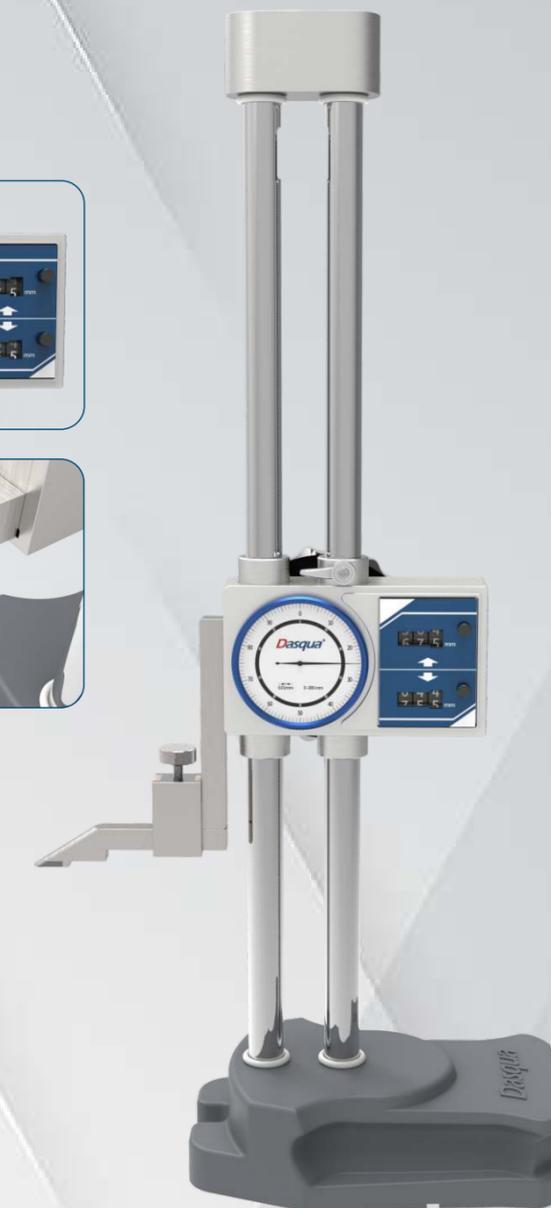
- Provided with a dial and two digit counters for more accurate reading
- Double-beam ensures higher measuring accuracy
- One counter reads in the plus direction and the other reads in the minus direction
- With a feed wheel on the back
- Carbide tipped scriber for sharp, clean lines
- Both counters and dial can be re-zeroed at any scriber position
- Base hardened, ground and lapped for maximum flatness
- Dustproof shield optional



• 3230-4105 For:3221-1105-A Range:0-300  
 • 3230-4105 For:3221-1110-A Range:0-500  
 • 3230-4105 For:3221-1115-A Range:0-600  
 • 3230-4105 For:3221-1120-A Range:0-1000  
 • 3230-4105 For:3222-4205-A Range:0-12"  
 • 3230-4105 For:3222-4210-A Range:0-20"  
 • 3230-4105 For:3222-4215-A Range:0-24"  
 • 3230-4105 For:3222-4220-A Range:0-40"

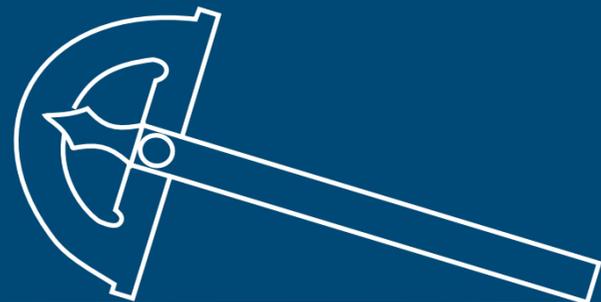
Unit:mm

Code	Range	Graduation	Counter Resolution	Accuracy
3221-1105-A	0-300	0.01	1	±0.04
3221-1110-A	0-500	0.01	1	±0.05
3221-1115-A	0-600	0.01	1	±0.05
3221-1120-A	0-1000	0.01	1	±0.07
3222-4205-A	0-12"	0.001"	0.1"	±0.0015"
3222-4210-A	0-20"	0.001"	0.1"	±0.002"
3222-4215-A	0-24"	0.001"	0.1"	±0.002"
3222-4220-A	0-40"	0.001"	0.1"	±0.0030"



# ANGLE MEASURING

BORN IN ITALY, RAISED BY THE WORLD

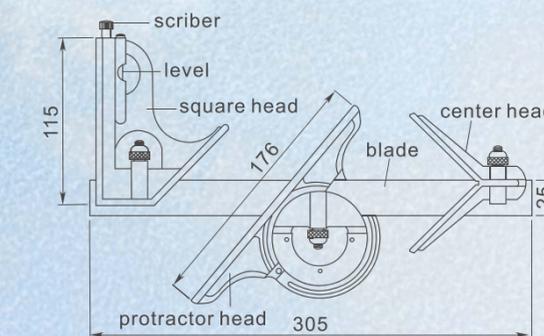


## 4 PCS COMBINATION SQUARE SET

- Made by procoated mold and no blister on the surface

Unit:mm

Code	Ruler	Graduation
1012-2010-A	300/12"	1.0/1/64" and 0.5/1/32"



- Distinct lines and figures against the satin chrome finish making reading easily
- Low surface roughness and high accuracy with surfaces precisely ground

- Powder-coated process guaranteeing high surface durability



- Strong and elegant packing



## 4PCS COMBINATION DIGITAL SQUARE SET

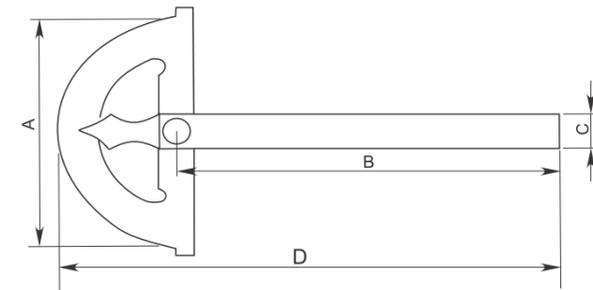


- Higher accuracy with digital protractor newly applied
- Made by procoated mold and no blister on the surface
- Distinct lines and figures against the satin chrome finish making reading easily
- Low surface roughness and high accuracy with surfaces precisely ground

Unit:mm

Code	Ruler	Graduation	Accuracy
1012-0010	300/12"	1.0/1/64" and 0.5/1/32"	±10'within0.15°

## PROTRACTOR

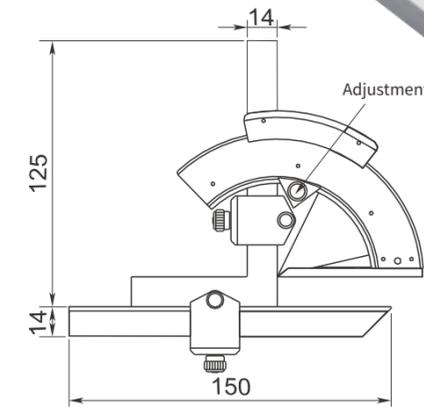
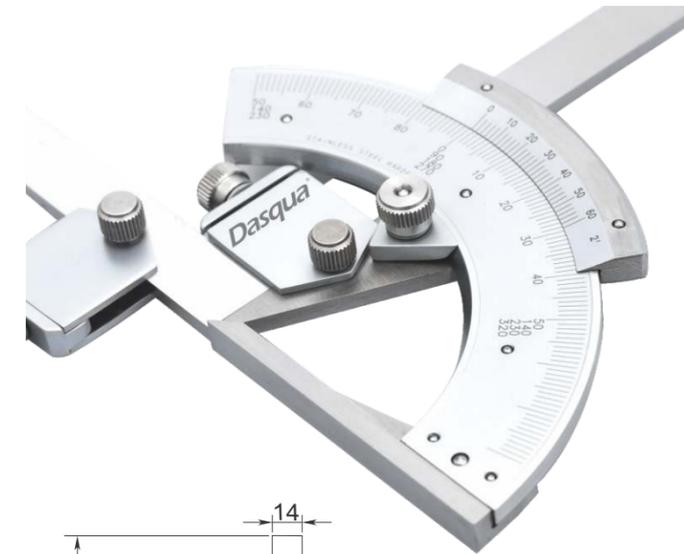


- Made of stainless steel
- Satin chrome finish, anti-rust and durable
- Locking knob can hold any angle
- Multi-purpose, engineering drawing, angle measurement, architectural design, woodworking, length measurement, etc
- Packaged in a beautiful and durable leather bag

Unit:mm

Code	Range	Graduation	Size(AxB)	D	C	Accuracy	Type
1011-1005	0-180°	1°	85x150	199	15	±30'	Solid Head
1012-1005	0-180°	1°	80x120	168	11	±30'	Open Head
1012-1010	0-180°	1°	120x150	220	14	±30'	Open Head
1012-1020	0-180°	1°	150x200	285	16	±30'	Open Head
1012-1030	0-180°	1°	200x300	413	20	±30'	Open Head
1012-1035	0-180°	1°	300x500	665.5	31.5	±30'	Open Head

## UNIVERSAL PROTRACTOR

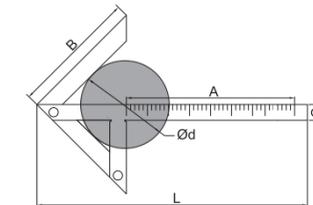


- Made of stainless steel
- With fine adjustment
- Measuring surface hardened, ground and lapped ensures smooth movement
- Satin chrome finish, anti-rust and durable

Unit:mm

Code	Range	Graduation	Accuracy
1012-2005	0-320°	2'	±2'

## CENTERING SQUARE GAUGE



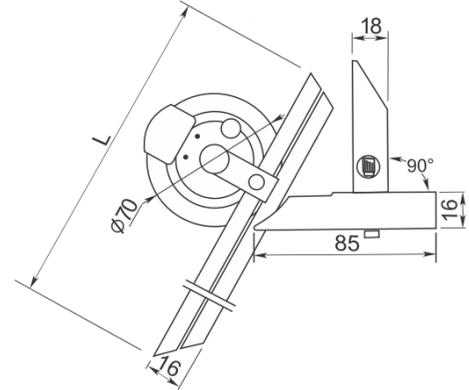
- Center Square Gauge
- For marking centers on round discs and shafts
- Stainless steel material
- Scale in matt chrome finish

Unit:mm

Code	Size(AxB)	Error Range	Max Shaft Diameter	Scale Bar	Bar Cross Section
1012-3005	100 × 70	0.3	90	100	12x4
1012-3010	150 × 130	0.3	190	150	15x4
1012-3015	200 × 150	0.3	220	200	15x4
1012-3020	300 × 180	0.3	280	300	20x5

## UNIVERSAL PROTRACTOR

WITH FINE ADJUSTMENT AND MAGNIFIER

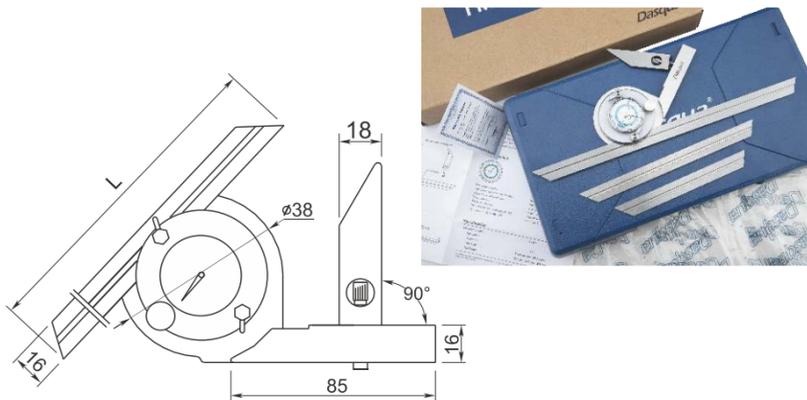


- Made of stainless steel
- With a magnifier for easy and clear reading
- Measuring surface hardened, ground and lapped ensures smooth movement
- Satin chrome finish, anti-rust and durable
- With fine adjustment
- Provided with three blades (150mm, 200mm, 300mm)

Unit:mm

Code	Range	Graduation	L	Accuracy
1031-2005	0-360°	5'	150/200/300	±5'

## UNIVERSAL DIGITAL PROTRACTOR

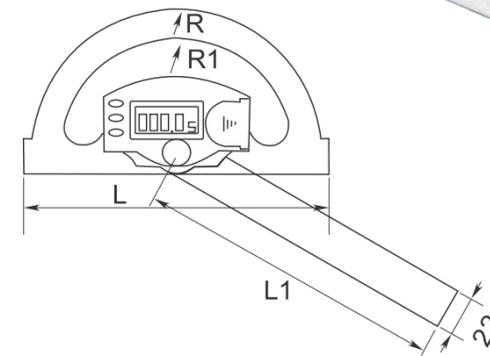


- Made of stainless steel
- With a dial for easy and accurate reading
- Measuring surface hardened, ground and lapped ensures smooth movement
- Satin chrome finish, anti-rust and durable
- Provided with three blades (150mm, 200mm, 300mm)

Unit:mm

Code	Range	Graduation	L	Accuracy
1031-2010	0-360°	5'	150/200/300	±5'

## INDUSTRIAL DIGITAL PROTRACTOR

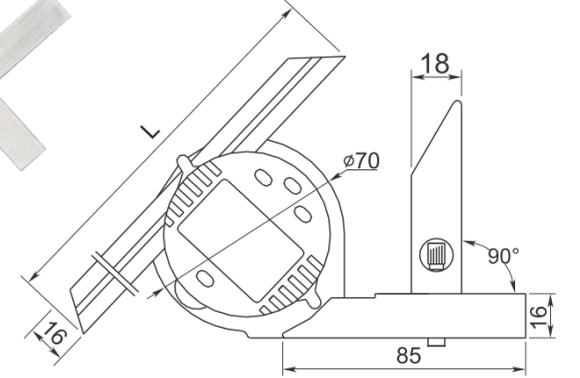


- Measuring range: 0-180°
- Big LCD display for easy and clear reading
- Stainless steel scale, measuring surface hardened, ground and lapped
- Locking knob can hold any angle
- Data hold function, zero setting at any position
- Satin chrome finish, anti-rust and durable

Unit:mm

Code	Range	Size	Resolution	L	L1	R	R1	Accuracy
1022-1005	0-180°	120x150	0.05°	132	161.5	60	/	±15'
1022-1010	0-180°	150x200	0.05°	158	211.5	75	60	±15'
1022-1015	0-180°	200x300	0.05°	221	311.5	98	78	±15'

## UNIVERSAL DIGITAL PROTRACTOR



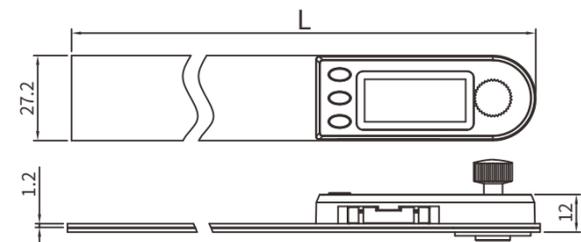
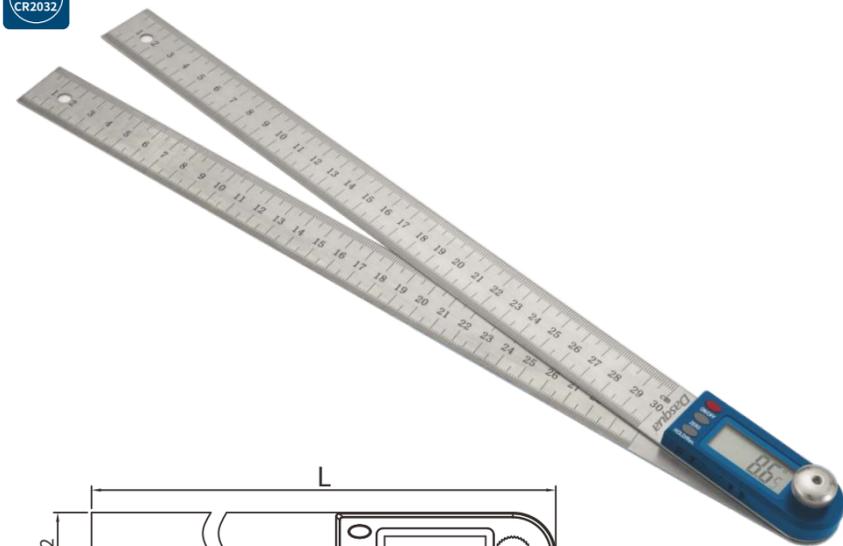
L=150MM/200MM/300MM

- Made of stainless steel
- Large digital display for easy reading
- Measuring surface hardened, ground and lapped ensures smooth movement
- Satin chrome finish, anti-rust and durable
- Provided with three blades (150mm, 200mm, 300mm)

Unit:mm

Code	Range	Resolution	L	Accuracy
1021-2005	0-360°	10"	150/200/300	±5'

## STAINLESS DIGITAL PROTRACTOR



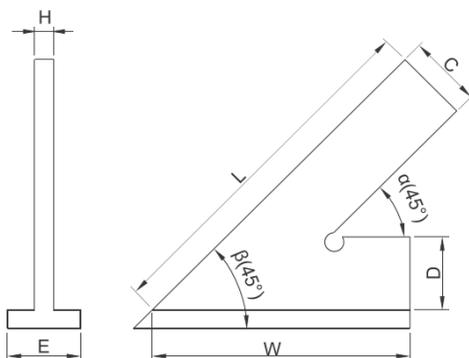
- For easy measurement and transfer of angles
- Easy-to-read display
- With clamping screw to lock the blades
- Automatic power off
- Numeric value can be rotated through 180°
- Zero-setting at any position
- Upper and lower edges both with 1 mm graduations

Unit:mm

Code	Size	Range	Resolution	L	Accuracy
1022-0200	200	0-360°	0.05°	277	±0.2°
1022-0300	300	0-360°	0.05°	380	±0.2°

## 45° SQUARE WITH WIDE BASE

DIN 875



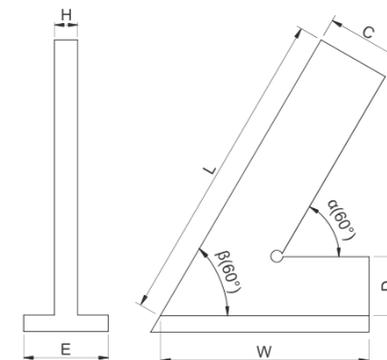
- Precision ground base for measuring and checking the flatness error
- Strictly made in accordance with DIN875
- Made of hardened stainless steel
- Satin chrome finish for glare-free easy reading
- Measuring surfaces are precision ground and lapped

Unit:mm

Code	Standard	Size(LxW)	Angle Tolerance	C	D	H	E
9222-3105	DIN875/2	120x80	0.030	20	20	5	20
9222-3110	DIN875/2	150x100	0.035	20	20	5	20
9222-3115	DIN875/2	200x130	0.040	25	25	6	25

## 60° SQUARE WITH WIDE BASE

DIN 875



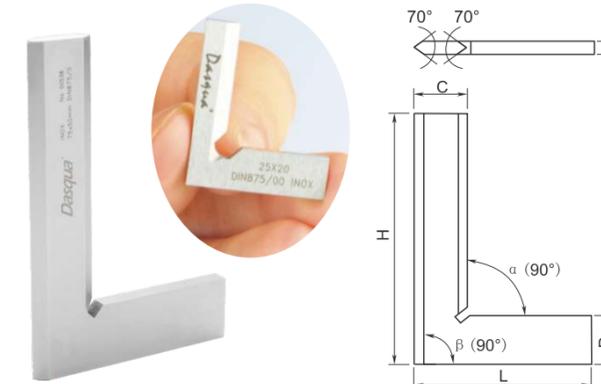
- Precision ground base for measuring and checking the flatness error
- Strictly made in accordance with DIN875
- Made of hardened stainless steel
- Satin chrome finish for glare-free easy reading
- Measuring surfaces are precision ground and lapped

Unit:mm

Code	Standard	Size(LxW)	Angle Tolerance	C	D	H	E
9272-1005	DIN875/2	120x80	0.030	20	20	5	20
9272-1010	DIN875/2	150x100	0.035	20	20	5	20
9272-1015	DIN875/2	200x130	0.040	25	25	6	25

## 90° BEVELED EDGE SQUARE

DIN 875



- Strictly made in accordance with DIN875
- Beveled edges can be used for inside and outside measurement
- Made of hardened stainless steel
- Measuring surfaces are precision ground and lapped

### GRADE 0

Unit:mm

Code	Standard	Size(HxL)	Angle Tolerance	C	D	B
9111-1104	DIN875/0	40x28	0.006	4	6	3.5
9111-1105	DIN875/0	50x40	0.006	13	13	4
9111-1110	DIN875/0	75x50	0.007	15	15	4
9111-1115	DIN875/0	100x70	0.007	20	20	5
9111-1120	DIN875/0	150x100	0.008	30	30	6
9111-1125	DIN875/0	200x130	0.009	33	33	7

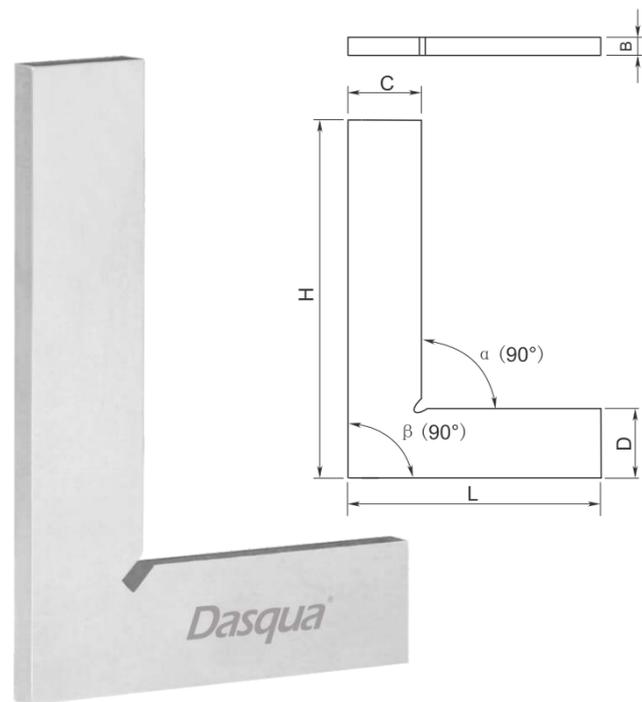
### GRADE 00

Unit:mm

Code	Standard	Size(HxL)	Angle Tolerance	C	D	B
9100-1102	DIN875/00	25x20	0.003	4	6	3.5
9100-1104	DIN875/00	40x28	0.003	4	6	3.5
9100-1105	DIN875/00	50x40	0.003	13	13	4
9100-1110	DIN875/00	75x50	0.003	15	15	4
9100-1115	DIN875/00	100x70	0.003	20	20	5
9100-1120	DIN875/00	150x100	0.004	30	30	6
9100-1125	DIN875/00	200x130	0.004	33	33	7

## 90° FLAT EDGE SQUARE

DIN 875



- Used for checking the straightness, parallelism and perpendicularity
- Strictly made in accordance with DIN875
- Made of hardened stainless steel
- Satin chrome finish for glare-free easy reading
- Measuring surfaces are precision ground and lapped

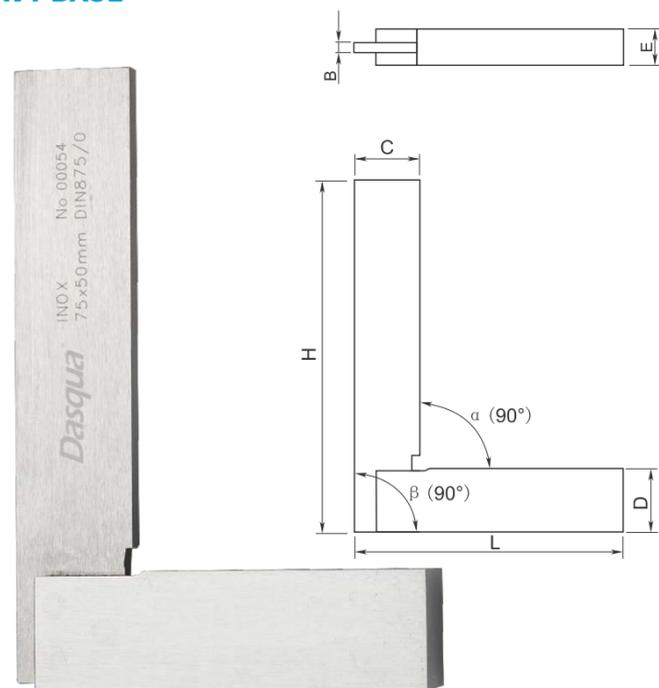
Unit:mm

Code	Standard	Size(HxL)	Angle Tolerance	C	D	B
9315-1105	DIN875/0	50x40	0.006	15	15	4
9315-1110	DIN875/0	75x50	0.007	15	15	4
9315-1115	DIN875/0	100x70	0.007	20	20	5
9315-1120	DIN875/0	150x100	0.008	30	30	6
9315-1125	DIN875/0	200x130	0.009	30	30	7

## 90° FLAT EDGE SQUARE WITH HEAVY BASE

WITH HEAVY BASE

DIN 875



- Precision ground base for measuring and checking the flatness error
- Used for checking the straightness, parallelism and perpendicularity
- Strictly made in accordance with DIN875
- Made of hardened stainless steel
- Satin chrome finish for glare-free easy reading
- Measuring surfaces are precision ground and lapped

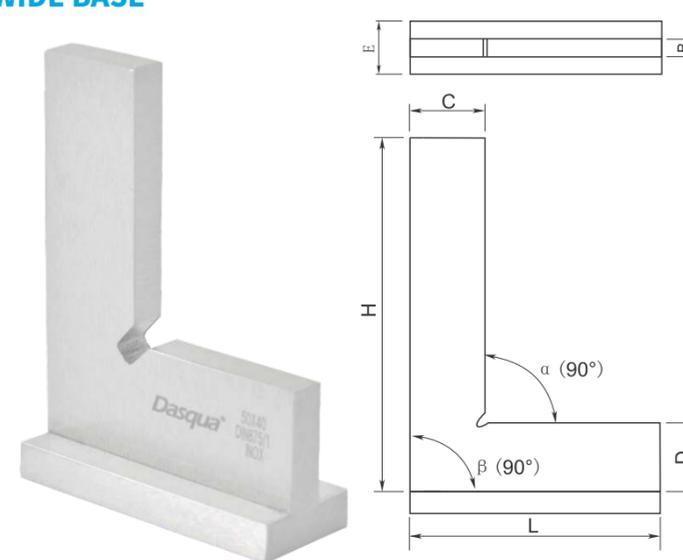
Unit:mm

Code	Standard	Size(HxL)	Angle Tolerance	C	D	B	E
9212-1104	DIN875/0	50x40	0.006	12	12	2.5	10
9212-1108	DIN875/0	75x50	0.007	14	14	3	10
9212-1112	DIN875/0	100x70	0.007	18	18	3	12
9212-1116	DIN875/0	150x100	0.008	22	22	4	12
9212-1118	DIN875/0	200x130	0.009	26	26	4	14

## 90° FLAT EDGE SQUA WITH WIDE BASE

WITH WIDE BASE

DIN 875



- Precision ground base for measuring and checking the flatness error
- Used for checking the straightness, parallelism and perpendicularity
- Strictly made in accordance with DIN875
- Made of hardened stainless steel
- Satin chrome finish for glare-free easy reading
- Measuring surfaces are precision ground and lapped

Unit:mm

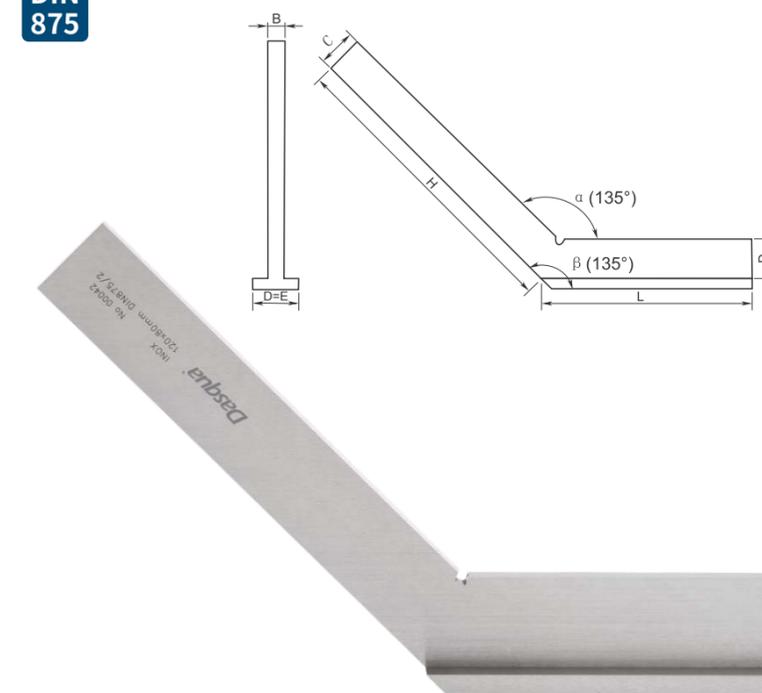
Code	Standard	Size(HxL)	Angle Tolerance	C	D	B	E
9212-1105	DIN875/0	50x40	0.006	15	15	4	15
9212-1110	DIN875/0	75x50	0.007	15	15	4	15
9212-1115	DIN875/0	100x70	0.007	20	20	5	20
9212-1120	DIN875/0	150x100	0.007	30	30	6	30
9212-1125	DIN875/0	200x130	0.009	30	30	7	30
9211-1105	DIN875/1	50x40	0.012	15	15	4	15
9211-1110	DIN875/1	75x50	0.014	15	15	4	15
9211-1115	DIN875/1	100x70	0.015	20	20	5	20
9211-1120	DIN875/1	150x100	0.018	30	30	6	30
9211-1125	DIN875/1	200x130	0.020	30	30	7	30

Unit:mm

## 135° SQUARE WITH WIDE BASE

WITH WIDE BASE

DIN 875



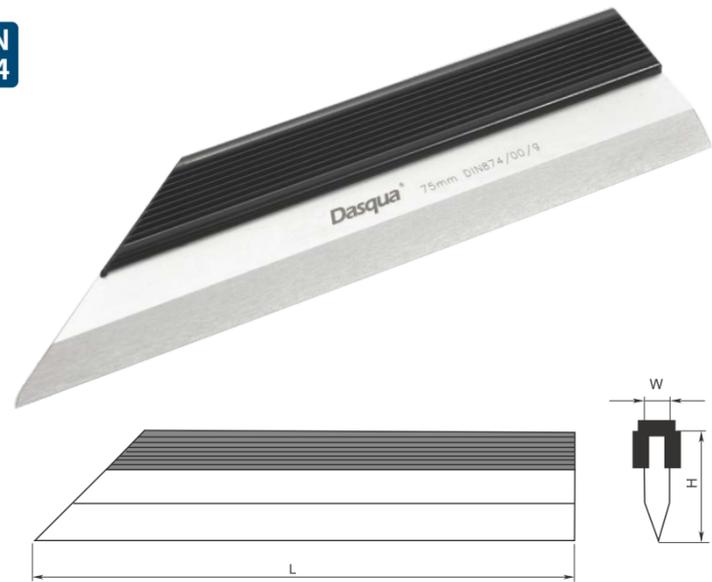
- Precision ground base for measuring and checking the flatness error
- Strictly made in accordance with DIN875
- Made of hardened stainless steel
- Satin chrome finish for glare-free easy reading
- Measuring surfaces are precision ground and lapped

Unit:mm

Code	Standard	Size(HxL)	Angle Tolerance	C	D	B
9222-3102	DIN875/2	120x80	0.030	20	20	5
9222-3104	DIN875/2	150x100	0.035	20	20	5
9222-3106	DIN875/2	200x130	0.040	30	30	7

## STAINLESS STEEL STRAIGHT EDGE

DIN 874

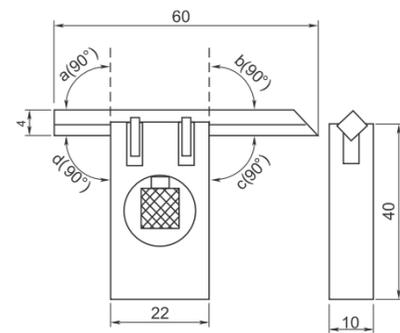


- Use with feeler gauge or light gap method to measure the straightness and parallelism
- Strictly made in accordance with DIN874
- With one beveled edge
- Made of hardened stainless steel
- Satin chrome finish for glare-free easy reading
- Measuring surfaces are precision ground and lapped

Unit:mm					
Code	Standard	Size(L)	Straightness	H	W
9131-2105	DIN874/00	75	0.0015	25	5
9131-2110	DIN874/00	100	0.0017	25	5
9131-2115	DIN874/00	125	0.0018	30	6
9131-2120	DIN874/00	150	0.0020	30	6
9131-2125	DIN874/00	200	0.0023	30	6

## ADJUSTABLE BEVEL SQUARE

DIN 875



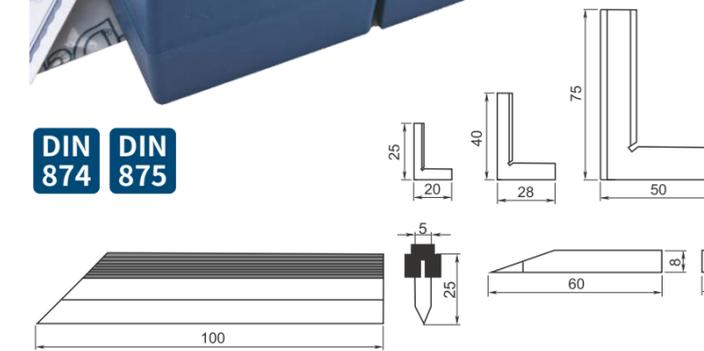
- Use with light gap method for inspection work
- Used to measure the short or small parts, chamfers and others by moving the straight edge
- High precision square, smooth straight edge which can be locked by the clamping screw at the desired position
- Measuring surfaces are precision ground and lapped
- Made of hardened stainless steel

Unit:mm				
Code	Standard	Foot Size	Ruler Length	Ruler Cross Section
9161-1105	DIN875/0	40x22x10	60	4x4

## 5 PCS MECHANIST SQUARE SET



DIN 874 DIN 875



- Measuring surfaces are precision ground and lapped
- Satin chrome finish for glare-free easy reading
- Stainless steel beveled straight edge 100mm grade 00 (DIN 874)
- Stainless steel beveled edge squares 75x50mm grade 00 (DIN 875)
- Stainless steel beveled edge squares 40x28mm and 25x20 grade 00
- Gauge block scriber point 60x8x8mm grade 00

Unit:mm	
Code	Amount
9383-2205	5

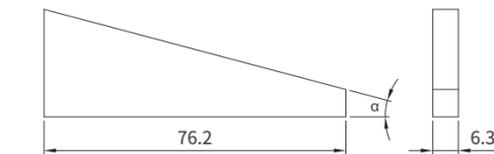
## MEASURING BEVEL



- Made of hardened stainless steel
- Used to duplicate any angle
- Two movable blades can be locked by the wing nut
- Measuring surfaces are precision ground and lapped

Unit:mm	
Code	Size
9251-1105	200
9251-1110	250
9251-1115	300
9251-1120	400
9251-1125	500

## ANGLE BLOCK SET

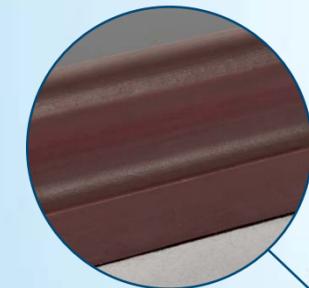
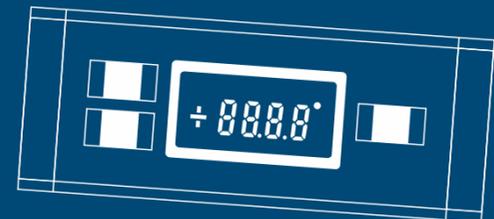


- For fast, easy and accurate determination of angular dimensions
- Also can be stacked to create other angles
- Hardened and relieved special steel, high grade of abrasion resistance
- Measuring faces precision ground and lapped

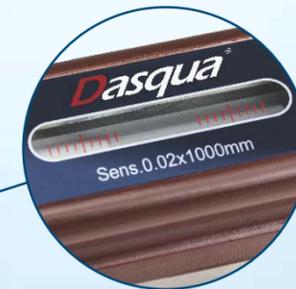
Unit:mm			
Code	Amount(pcs)	Angle(α)	Angular Precision
9411-1205	10	1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°	±20"
9412-4105	12	1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°	±20"

# PRECISION LEVEL

BORN IN ITALY, RAISED BY THE WORLD



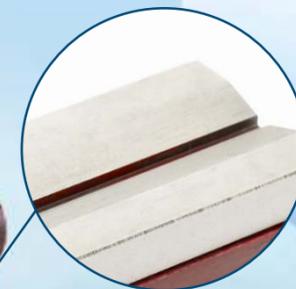
- Used to measure the angle of inclination, flatness and straightness of the machine guide rails, horizontal and vertical position of equipment setup in machinery industry and instrument manufacturing



- The glass bubble is of great sensitivity and high transparency, easy for operators to read.



- Screw to adjust bubble



- Special lapped, hardened and polished steel body with flawless surfaces  
Flatness at 0.003mm

## MASTER PRECISION LEVEL WITH WOODEN HANDLE

Unit:mm

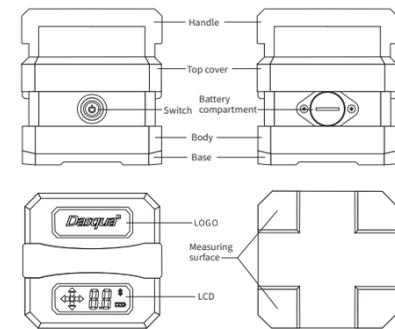
Code	Range	Accuracy
8301-1005-B	150	0.02mm/m
8301-1010-B	200	0.02mm/m
8301-1015-B	250	0.02mm/m
8301-1020-B	300	0.02mm/m

- With more artistic wooden handle rather than normal plastic handle
- Strictly made in accordance with DIN877
- V-grooved base for ease of mount on cylindrical parts

DIN 877

## HIGH PRECISION LEVEL

- The Dasqua ultra-high precision leveling device allows operators to save over 70% of the time spent on machine leveling
- The measuring end and the handheld terminal are connected wirelessly, and the measuring data are directly displayed on the handheld terminal so that the horizontal state of the machine can be viewed anytime.
- This completely solves the problem that operators have to repeatedly check the bubble of the traditional bar-type level instrument
- The unique network leveling function can help with improving leveling process to be more accurate and faster when completing the leveling work on large high-precision machine tools



Unit:mm

Code	Resolution	Repetability
8300-0025 (with Portable Display)	0.01	0.02mm/m
8300-0030 (without Portable Display)	0.01	0.02mm/m
8300-0035 (Portable Display)	0.01	0.02mm/m

## PRECISION FRAME LEVEL

WITH WOODEN HANDLE

- Used to measure the angle of inclination, flatness and straightness of the machine guide rails, horizontal position and vertical position of equipment setup in machinery industry and instrument manufacturing
- With more artistic wooden handle rather than normal plastic handle
- The glass bubble is of great sensitivity and high transparency, easy for operators to read
- The bubble is adjustable
- Strictly made in accordance with DIN877
- Special lapped, hardened and polished steel body with no blister on the surface
- V-grooved base for ease of mount on cylindrical parts



DIN 877

Unit:mm

Code	Range	Accuracy
8301-1003-B	150 x 150	0.02mm/m
8301-1006-B	200 x 200	0.02mm/m
8301-1009-B	250 x 250	0.02mm/m
8301-1013-B	300 x 300	0.02mm/m

## PRECISION LEVEL

- Strictly made in accordance with DIN877
- Used to measure the straightness and flatness of machine guide rails
- Robust cast iron model, precision ground measuring surface ensures high accuracy
- Base with V-groove to allow use on round bars and shafts, cylindrical surfaces
- With main vial and cross test vial

DIN 877



Unit:mm

Code	Range	Accuracy
8301-0005-A	150	0.05mm/m
8301-0010-A	200	0.05mm/m
8301-0015-A	250	0.05mm/m
8301-0020-A	300	0.05mm/m
8301-1005-A	150	0.02mm/m
8301-1010-A	200	0.02mm/m
8301-1015-A	250	0.02mm/m
8301-1020-A	300	0.02mm/m
8302-0005-A	6"	0.0005"/10"
8302-0010-A	8"	0.0005"/10"
8302-0015-A	10"	0.0005"
8302-0020-A	12"	0.0005"

## PRECISION FRAME LEVEL

DIN 877



- Strictly made in accordance with DIN877
- Used to measure the straightness and flatness of machine guide rails
- Robust cast iron model, precision ground measuring surface ensures high accuracy
- Base with V-groove to allow use on round bars and shafts

Unit:mm

Code	Range	Accuracy
8301-0003-A	150 x 150	0.05mm/m
8301-0006-A	200 x 200	0.05mm/m
8301-0009-A	250 x 250	0.05mm/m
8301-0013-A	300 x 300	0.05mm/m
8301-1003-A	150 x 150	0.02mm/m
8301-1006-A	200 x 200	0.02mm/m
8301-1009-A	250 x 250	0.02mm/m
8301-1013-A	300 x 300	0.02mm/m
8302-0003-A	6" x 6"	0.0005"/10"
8302-0006-A	8" x 8"	0.0005"/10"
8302-0009-A	10" x 10"	0.0005"/10"
8302-0013-A	12" x 12"	0.0005"/10"

# HIGH PRECISION DIGITAL LEVEL

Sensitivity:  $\pm 0.01\text{mm/m}$   
Resolution:  $0.001^\circ$



- Two modes: Abs and R for option
- Multi-data recording

• Metal button, water-proof

• Groove bottom design, ground and round level to measure both are applicative

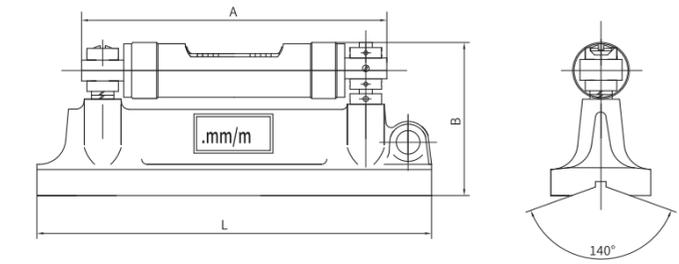
• Customized professional aluminum box for well-protection

• One button for zero setting

• Rechargeable design for 3.7V batteries--2pcs

**Code: 8300-1000**

## MASTER PRECISION LEVEL



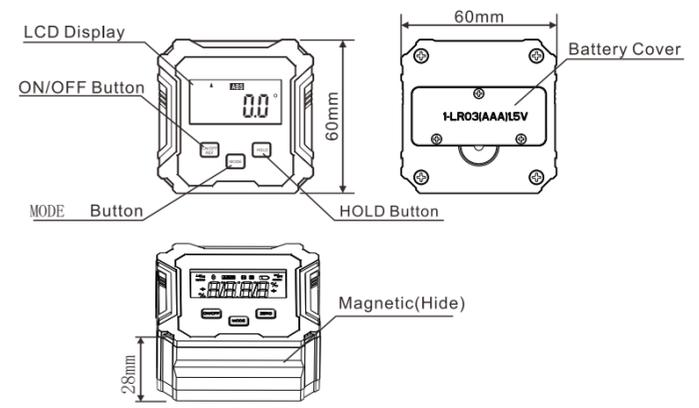
- With transverse and longitudinal vials
- V-groove on bottom for shafts
- Supplied with adjust wrench

Unit:mm

Code	Size(L)	Sensitivity	A	B
8303-0005	150	0.3/m( $=0.017^\circ$ )	118	64
8303-0010	200	0.3/m( $=0.017^\circ$ )	137	73
8303-0015	300	0.3/m( $=0.017^\circ$ )	216	73

## DIGITAL ANGLE GAUGE

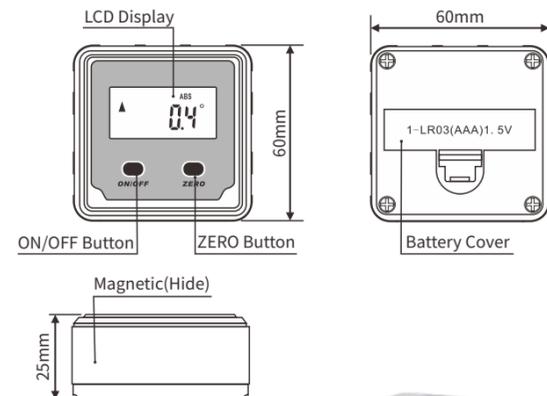
- Temperature drift testing ensures no influence on accuracy from Temperature changing, others will not do the testing
- Imported chip to ensure  $0.2^\circ$  accuracy
- Powerful built-in magnets on the base
- LCD Display with Backlight



Code	Range	Resolution	Power	Weight	Accuracy
8400-0020	4x90°	0.05°	1XAAA battrey	70g	0°-90°: $\pm 0.1^\circ$ , other: $\pm 0.2^\circ$

## DIGITAL ANGLE GAUGE

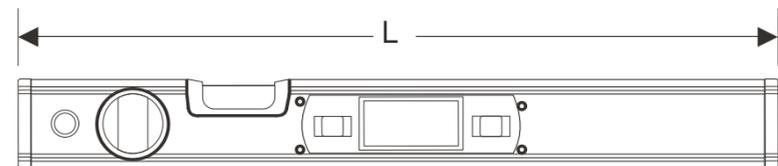
- Large easy-to-read backlight LCD display
- Absolute 0° measuring at level surface
- Measure relative bevel
- With permanent strong magnet on measuring faces
- CNC machined aluminum body



Code	Range	Resolution	Accuracy
8400-0010	4x90°	0.1°	±0.2°

## DIGITAL LEVEL

- Large easy-to-read backlight LCD display with hold function
- With horizontal and vertical vials
- Absolute level measuring, relative angle measuring, slope and angle conversion
- With embedded strong permanent magnet on measuring face
- CNC machined super flat edges



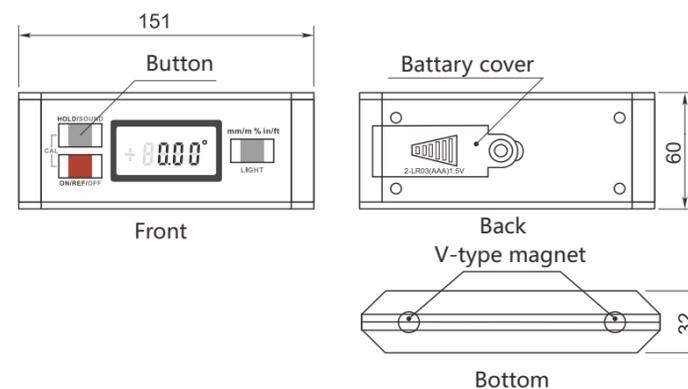
Unit:mm

Code	Magnet	Range	Resolution	L	Accuracy
8301-2640	NO	4x90°	0.1°	400	0.2°
8301-2645	YES	4x90°	0.1°	400	0.2°

## DIGITAL PROTRACTOR

- Absolute function, zero setting is unnecessary when the battery is replaced
- Used as level and inclinometer to measure the included angle of non-continuous working surfaces
- V-groove base with powerful embedded magnets, which secures strong attachment to the measuring surfaces (including cylindrical surface)
- Backlight function enables it to use in the dim place
- IP65 dust-proof and water-proof

**ABSOLUTE** **IP65**  
COOLANT & FLUID  
RESISTANT



Code	Range	Resolution	Accuracy
8400-0005	4 x 90°	0.1°	0°-90°: ±0.05° Rest of angle: ±0.15°



# CALIBRATION GAUGE BLOCK

BORN IN ITALY, RAISED BY THE WORLD

# GAUGES PRIME

One of the very few qualified threading gauge suppliers serving European industrial market!

DIN ISO 1502

- All Thread Parameters per Pitch Inspection according to ISO Thread
- DIN ISO 1502 Standard
- With calibration certificate



- Vacuum hardening ensures hardness reaches 58-62HRC Cryogenic treatment can increase the toughness and abrasion resistance significantly, and prolong the service life of the product.

CERTIFICATE		Dasqua	
Cert. Nr.:	190857984		
Measured object	Internal Normal Thread	Left/Right Thread	Right
Temperature	20	Nr of Starts	1
Side	Go	Measurement	
Standard	DIN ISO 1502	Flankpercentage(%)	
Type	M16x2-6g T	Master Gauge	
Ident Number	Setting Gaguge Diameter		
	Min tol.	Max tol.	Measured
Basic Major Diameter(mm)	16.117	/	16.3141
Basic Minor Diameter(mm)	13.788	13.806	13.798
Basic Pitch Diameter(mm)	14.646	14.664	14.6579
Pitch	1.995	2.005	
Cumulative Pitch Error	/		
Flank Angle	2950'0"		
Basic Major Diameter	Basic Minor Diameter	Pitch	Flank Angle
16.3171	13.7987	1.9999	2956'3"
16.3125	13.7987	1.9998	2956'27"
16.3136	13.7984	1.9998	2956'29"
16.3177	14.6581	1.9998	2956'55"
	14.6579	1.9999	2956'43"
Expiration Date:			



- IAC Screw Thread Inspection Machine

# THREAD PLUG GAUGES/GO&NO-GO ISO-METRIC

- Strictly made in accordance with DIN ISO 1502
- With Go&No-Go ends
- Grade 6H
- Made of premium steel, hardened, cryogenic treatment
- Stable product dimensions, superior surface finish, wear resistance for long service life
- With inspection certificate



Unit:mm

Code	Size	Code	Size	Code	Size
6310-0001	M3*0.5	6310-0027	M8*0.75	6310-0053	M30*1
6310-0002	M4*0.7	6310-0028	M8*1	6310-0054	M30*1.5
6310-0003	M5*0.8	6310-0029	M10*0.75	6310-0055	M30*2
6310-0004	M6*1	6310-0030	M10*1	6310-0056	M32*1.5
6310-0005	M8*1.25	6310-0031	M10*1.25	6310-0057	M33*1.5
6310-0006	M10*1.5	6310-0032	M12*1	6310-0058	M33*2
6310-0007	M12*1.75	6310-0033	M12*1.25	6310-0059	M35*1.5
6310-0008	M14*2	6310-0034	M12*1.5	6310-0060	M36*1.5
6310-0009	M16*2	6310-0035	M14*1	6310-0061	M36*2
6310-0010	M18*2.5	6310-0036	M14*1.25	6310-0062	M38*1.5
6310-0011	M1*0.25	6310-0037	M14*1.5	6310-0063	M40*1.5
6310-0012	M1.4*0.3	6310-0038	M16*1	6310-0064	M40*2
6310-0013	M1.6*0.35	6310-0039	M16*1.5	6310-0065	M42*1.5
6310-0014	M2*0.4	6310-0040	M18*1	6310-0066	M42*2
6310-0015	M2.5*0.45	6310-0041	M18*1.5	6310-0067	M45*1.5
6310-0016	M3.5*0.6	6310-0042	M20*1	6310-0068	M45*2
6310-0017	M20*2.5	6310-0043	M20*1.5	6310-0069	M48*1.5
6310-0018	M22*2.5	6310-0044	M22*1.5	6310-0070	M48*2
6310-0019	M24*3	6310-0045	M24*1	6310-0071	M50*1.5
6310-0020	M27*3	6310-0046	M24*1.5	6310-0072	M50*2
6310-0021	M30*3.5	6310-0047	M24*2	6310-0073	M52*1.5
6310-0022	M33*3.5	6310-0048	M25*1.5	6310-0074	M52*2
6310-0023	M36*4	6310-0049	M26*1.5	6310-0075	M55*1.5
6310-0024	M42*4.5	6310-0050	M27*1.5	6310-0076	M55*2
6310-0025	M48*5	6310-0051	M27*2	6310-0077	M58*1.5
6310-0026	M8*0.5	6310-0052	M28*1.5	6310-0078	M60*2

# THREAD PLUG GAUGES/GO&NO-GO ANSI-INCH



- Strictly made in accordance with ANSI B1.2
- With Go&No-Go ends
- Grade 2B
- Made of premium steel, hardened, cryogenic treatment
- Stable product dimensions, superior surface finish, wear resistance for long service life
- With inspection certificate

Code	Size
6311-0001	6-32UNC
6311-0002	8-32UNC
6311-0003	10-24UNC
6311-0004	12-24UNC
6311-0005	1/4"-20UNC
6311-0009	3/8"-16UNC
6311-0013	1/2"-13UNC
6311-0006	1/4"-28UNF
6311-0007	5/16"-18UNC
6311-0008	5/16"-24UNF
6311-0010	3/8"-24UNF
6311-0011	7/16"-14UNC
6311-0012	7/16"-20UNF
6311-0014	1/2"-20UNF

# THREAD RING GAUGES ISO-Metric



- Strictly made in accordance with DIN ISO 1502
- With Go&No-Go ends
- Grade 6g
- Made of premium steel, hardened, cryogenic treatment
- Stable product dimensions, superior surface finish, wear resistance for long service life
- With inspection certificate



Unit:mm

Code	Size	Code	Size	Code	Size
6510-0001-GG	M3*0.5	6510-0027-GG	M8*0.75	6510-0053-GG	M30*1
6510-0002-GG	M4*0.7	6510-0028-GG	M8*1	6510-0054-GG	M30*1.5
6510-0003-GG	M5*0.8	6510-0029-GG	M10*0.75	6510-0055-GG	M30*2
6510-0004-GG	M6*1	6510-0030-GG	M10*1	6510-0056-GG	M32*1.5
6510-0005-GG	M8*1.25	6510-0031-GG	M10*1.25	6510-0057-GG	M33*1.5
6510-0006-GG	M10*1.5	6510-0032-GG	M12*1	6510-0058-GG	M33*2
6510-0007-GG	M12*1.75	6510-0033-GG	M12*1.25	6510-0059-GG	M35*1.5
6510-0008-GG	M14*2	6510-0034-GG	M12*1.5	6510-0060-GG	M36*1.5
6510-0009-GG	M16*2	6510-0035-GG	M14*1	6510-0061-GG	M36*2
6510-0010-GG	M18*2.5	6510-0036-GG	M14*1.25	6510-0062-GG	M38*1.5
6510-0011-GG	M1*0.25	6510-0037-GG	M14*1.5	6510-0063-GG	M40*1.5
6510-0012-GG	M1.4*0.3	6510-0038-GG	M16*1	6510-0064-GG	M40*2
6510-0013-GG	M1.6*0.35	6510-0039-GG	M16*1.5	6510-0065-GG	M42*1.5
6510-0014-GG	M2*0.4	6510-0040-GG	M18*1	6510-0066-GG	M42*2
6510-0015-GG	M2.5*0.45	6510-0041-GG	M18*1.5	6510-0067-GG	M45*1.5
6510-0016-GG	M3.5*0.6	6510-0042-GG	M20*1	6510-0068-GG	M45*2
6510-0017-GG	M20*2.5	6510-0043-GG	M20*1.5	6510-0069-GG	M48*1.5
6510-0018-GG	M22*2.5	6510-0044-GG	M22*1.5	6510-0070-GG	M48*2
6510-0019-GG	M24*3	6510-0045-GG	M24*1	6510-0071-GG	M50*1.5
6510-0020-GG	M27*3	6510-0046-GG	M24*1.5	6510-0072-GG	M50*2
6510-0021-GG	M30*3.5	6510-0047-GG	M24*2	6510-0073-GG	M52*1.5
6510-0022-GG	M33*3.5	6510-0048-GG	M25*1.5	6510-0074-GG	M52*2
6510-0023-GG	M36*4	6510-0049-GG	M26*1.5	6510-0075-GG	M55*1.5
6510-0024-GG	M42*4.5	6510-0050-GG	M27*1.5	6510-0076-GG	M55*2
6510-0025-GG	M48*5	6510-0051-GG	M27*2	6510-0077-GG	M58*1.5
6510-0026-GG	M8*0.5	6510-0052-GG	M28*1.5	6510-0078-GG	M60*2

Unit:mm

Code	Size	Code	Size	Code	Size
6510-0001-NG	M3*0.5	6510-0027-NG	M8*0.75	6510-0053-NG	M30*1
6510-0002-NG	M4*0.7	6510-0028-NG	M8*1	6510-0054-NG	M30*1.5
6510-0003-NG	M5*0.8	6510-0029-NG	M10*0.75	6510-0055-NG	M30*2
6510-0004-NG	M6*1	6510-0030-NG	M10*1	6510-0056-NG	M32*1.5
6510-0005-NG	M8*1.25	6510-0031-NG	M10*1.25	6510-0057-NG	M33*1.5
6510-0006-NG	M10*1.5	6510-0032-NG	M12*1	6510-0058-NG	M33*2
6510-0007-NG	M12*1.75	6510-0033-NG	M12*1.25	6510-0059-NG	M35*1.5
6510-0008-NG	M14*2	6510-0034-NG	M12*1.5	6510-0060-NG	M36*1.5
6510-0009-NG	M16*2	6510-0035-NG	M14*1	6510-0061-NG	M36*2
6510-0010-NG	M18*2.5	6510-0036-NG	M14*1.25	6510-0062-NG	M38*1.5
6510-0011-NG	M1*0.25	6510-0037-NG	M14*1.5	6510-0063-NG	M40*1.5
6510-0012-NG	M1.4*0.3	6510-0038-NG	M16*1	6510-0064-NG	M40*2
6510-0013-NG	M1.6*0.35	6510-0039-NG	M16*1.5	6510-0065-NG	M42*1.5
6510-0014-NG	M2*0.4	6510-0040-NG	M18*1	6510-0066-NG	M42*2
6510-0015-NG	M2.5*0.45	6510-0041-NG	M18*1.5	6510-0067-NG	M45*1.5
6510-0016-NG	M3.5*0.6	6510-0042-NG	M20*1	6510-0068-NG	M45*2
6510-0017-NG	M20*2.5	6510-0043-NG	M20*1.5	6510-0069-NG	M48*1.5
6510-0018-NG	M22*2.5	6510-0044-NG	M22*1.5	6510-0070-NG	M48*2
6510-0019-NG	M24*3	6510-0045-NG	M24*1	6510-0071-NG	M50*1.5
6510-0020-NG	M27*3	6510-0046-NG	M24*1.5	6510-0072-NG	M50*2
6510-0021-NG	M30*3.5	6510-0047-NG	M24*2	6510-0073-NG	M52*1.5
6510-0022-NG	M33*3.5	6510-0048-NG	M25*1.5	6510-0074-NG	M52*2
6510-0023-NG	M36*4	6510-0049-NG	M26*1.5	6510-0075-NG	M55*1.5
6510-0024-NG	M42*4.5	6510-0050-NG	M27*1.5	6510-0076-NG	M55*2
6510-0025-NG	M48*5	6510-0051-NG	M27*2	6510-0077-NG	M58*1.5
6510-0026-NG	M8*0.5	6510-0052-NG	M28*1.5	6510-0078-NG	M60*2

- Strictly made in accordance with ANSI B1.2
- With Go&No-Go ends
- Grade 2A
- Made of premium steel, hardened, cryogenic treatment
- Stable product dimensions, superior surface finish, wear resistance for long service life
- With inspection certificate

Code	Size	Code	Size
6511-0001-GG	6-32UNC	6511-0001-NG	6-32UNC
6511-0002-GG	8-32UNC	6511-0002-NG	8-32UNC
6511-0003-GG	10-24UNC	6511-0003-NG	10-24UNC
6511-0004-GG	12-24UNC	6511-0004-NG	12-24UNC
6511-0005-GG	1/4"-20UNC	6511-0005-NG	1/4"-20UNC
6511-0009-GG	3/8"-16UNC	6511-0009-NG	3/8"-16UNC
6511-0013-GG	1/2"-13UNC	6511-0013-NG	1/2"-13UNC
6511-0006-GG	1/4"-28UNF	6511-0006-NG	1/4"-28UNF
6511-0007-GG	5/16"-18UNC	6511-0007-NG	5/16"-18UNC
6511-0008-GG	5/16"-24UNF	6511-0008-NG	5/16"-24UNF
6511-0010-GG	3/8"-24UNF	6511-0010-NG	3/8"-24UNF
6511-0011-GG	7/16"-14UNC	6511-0011-NG	7/16"-14UNC
6511-0012-GG	7/16"-20UNF	6511-0012-NG	7/16"-20UNF
6511-0014-GG	1/2"-20UNF	6511-0014-NG	1/2"-20UNF

# THREAD RING GAUGES ANSI-Inch



## 7PCS THREAD RING GAUGE SET GO&NO-GO

- Strictly made in accordance with DIN ISO 1502
- Strictly made in accordance with ANSI B1.2
- 7pcs go or no-go thread ring gauges of different size
- Measuring faces hardened, ground and lapped
- Made of premium steel, hardened, cryogenic treatment
- Stable product dimensions, superior surface finish, wear resistance for long service life

**DIN ISO 1502** **ANSI B1.2**

Code	Including	Style
6311-3205	M3,M4,M5,M6,M8,M10,M12	Go Ring Gauge
6311-3203	M3,M4,M5,M6,M8,M10,M12	No-Go Ring Gauge
6311-3105	6-32UNC,8-32UNC,10-24UNC,12-24UNC,1/4"-20UNC, 3/8"-16UNC,1/2"-13UNC	Go Ring Gauge
6311-3106	6-32UNC,8-32UNC,10-24UNC,12-24UNC,1/4"-20UNC, 3/8"-16UNC,1/2"-13UNC	No-Go Ring Gauge

Unit:mm



## 7PCS THREAD PLUG GAUGE SET GO&NO-GO

- Strictly made in accordance with DIN ISO 1502
- Strictly made in accordance with ANSI B1.2
- 7pcs go or no-go thread plug gauges of different size
- Measuring faces hardened, ground and lapped
- Made of premium steel, hardened, cryogenic treatment
- Stable product dimensions, superior surface finish, wear resistance for long service life

**DIN ISO 1502** **ANSI B1.2**

Code	Including	Style
6311-3202	M3,M4,M5,M6,M8,M10,M12	Go & No-Go Plug Gauge
6311-3110	6-32UNC,8-32UNC,10-24UNC,12-24UNC,1/4"-20UNC, 3/8"-16UNC,1/2"-13UNC	Go & No-Go Plug Gauge

Unit:mm

## GAUGE BLOCK SET MADE OF CERAMIC

- Made of ceramic materials with high hardness, wear resistance, and long service life which is 5-10 times of steel gauge block, 4-5 times of carbide
- Corrosion resistant, anti-corrosion treatment is unnecessary when handle normally
- Superior fine material, high precision ground, smooth and flat surface, high wringing force
- Strictly made in accordance with DIN ISO 3650
- Hardness 1350HV
- High stability of material
- Non-magnetic and non-conductive, can be used under specific conditions

**DIN ISO 3650**

Code	Grade	Piece/Set	Size	Step	Piece
6221-5232	1	32	1.005	/	1
			1.01-1.09	0.01	9
			1.1-1.9	0.1	9
			1-9	1	9
6220-5232	0	32	10-30	10	3
			50	/	1
6221-5246	1	46	1.001-1.009	0.001	9
			1.01-1.09	0.01	9
			1.1-1.9	0.1	9
			1-9	1	9
6220-5246	0	46	10-100	10	10
			1.005	/	1
6221-5247	1	47	1.01-1.19	0.01	19
			1.2-1.9	0.1	8
			1-9	1	9
			10-100	10	10
6220-5247	0	47	1-9	1	9
			10-100	10	10
6221-5287	1	87	1.001-1.009	0.001	9
			1.01-1.49	0.01	49
			0.5-9.5	0.5	19
			10-100	10	10
6220-5287	0	87	1.005	/	1
			1.01-1.49	0.01	49
6221-5103	1	103	0.5-24.5	0.5	49
			25-100	25	4
			1.005	/	1
			1.001-1.009	0.001	9
6220-5103	0	103	1.01-1.49	0.01	49
			0.5-24.5	0.5	49
6221-5112	1	112	1.01-1.49	0.01	49
			0.5-24.5	0.5	49
			25-100	25	4
			1.005	/	1
6220-5112	0	112	1.001-1.009	0.001	9
			1.01-1.49	0.01	49

Unit:mm

### PURPOSE

- Grade 0:** Mainly used in calibration laboratory by specialized inspection staff, as reference standards for calibration of high precision measuring equipment and grade 1 and 2 gauge blocks
- Grade 1:** Mainly used in laboratory to inspect high precision workpiece, gauge blocks and set measuring equipment



# SOLID CARBIDE GAUGE BLOCK SET

- High quality solid carbide which is harder than steel and ceramic
- Strictly made in accordance with DIN ISO 3650
- Made of carbide, extremely wear resistance and corrosion resistance, excellent dimension stability
- Supplied with manufacturer inspection certificate
- Hardness 89.5HRA



Unit:mm

Code	Grade	Piece/Set	Size	Step	Piece
6341-4232	1	32	1.005	/	1
			1.01-1.09	0.01	9
			1.1-1.9	0.1	9
6340-4232	0	32	1-9	1	9
			10-30	10	3
			50	/	1
6341-4246	1	46	1.001-1.009	0.001	9
			1.01-1.09	0.01	9
			1.1-1.9	0.1	9
6340-4246	0	46	1-9	1	9
			10-100	10	10
			1.005	/	1
6341-4247	1	47	1.01-1.19	0.01	19
			1.2-1.9	0.1	8
			1-9	1	9
6340-4247	0	47	10-100	10	10
			0.5	/	1
			1	/	1
6341-4283	1	83	1.005	/	1
			1.01-1.49	0.01	49
			1.5-1.9	0.1	5
6340-4283	0	83	2.0-9.5	0.5	16
			10-100	10	10
			1.001-1.009	0.001	9
6341-4287	1	87	1.01-1.49	0.01	49
			0.5-9.5	0.5	19
			10-100	10	10
6340-4287	0	87	1.005	/	1
			1.01-1.49	0.01	49
			0.5-24.5	0.5	49
6341-4103	1	103	25-100	25	4
			1.0005	/	1
			1.001-1.009	0.001	9
6340-4103	0	103	1.01-1.49	0.01	49
			0.5-24.5	0.5	49
			25-100	25	4
6341-4112	1	112	1.0005	/	1
			1.001-1.009	0.001	9
			1.01-1.49	0.01	49
6340-4112	0	112	0.5-24.5	0.5	49
			25-100	25	4

## PURPOSE

**Grade 0:** Mainly used in calibration laboratory by specialized inspection staff, as reference standards for calibration of high precision measuring equipment and grade 1 and 2 gauge blocks

**Grade 1:** Mainly used in laboratory to inspect high precision workpiece, gauge blocks and set measuring equipment

**Grade 2:** Mainly used in workshop to install cutters and workpiece, inspect the gauge block for manufacturing and set measuring equipment



# CALIBRATION GAUGE BLOCK SET



## MADE OF HIGH-QUALITY STEEL

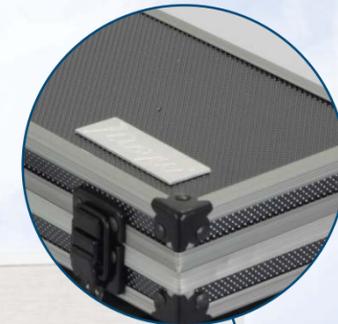
- High-carbon, high-chrome steel provides high hardness ( $\geq 63\text{HRC}$ ) and wear resistance.
- Strictly made in accordance with DIN ISO 3650.
- made of high-quality alloy steel.
- Edges are slightly lapped for protection.



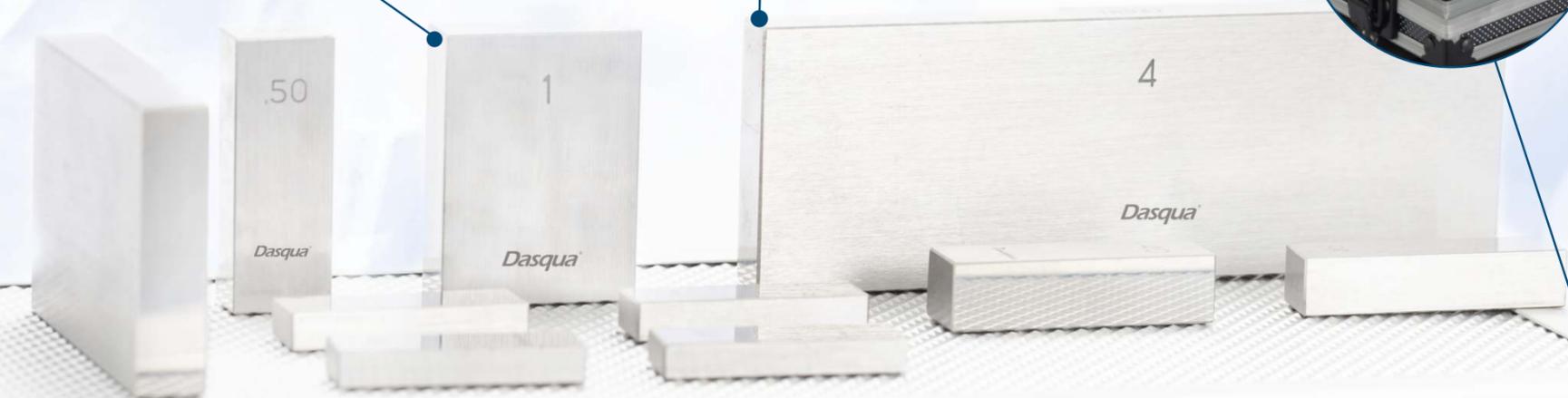
• Precision ground, mirror polish, heat treatment and cryogenic treatment for all measuring surfaces.



• Stable dimensions with high accuracy, low surface roughness, high wringing force.



• Provided with fitted Aluminum case



CERTIFICATE						Dasqua
Product name:	Gage blocks	Standard:	DIN ISO 3650	Set No:	6112-1232 (32PCS)	
Type:	Rect	Material:	Steel	Grade:	2	
Nominal Size (mm)	Run out ( $\mu\text{m}$ )	Nominal Size (mm)	Run out ( $\mu\text{m}$ )	Nominal Size (mm)	Run out ( $\mu\text{m}$ )	
1.005	+0.32	1.20	+0.20	4	-0.10	
1.01	+0.20	1.30	+0.20	5	-0.17	
1.02	+0.30	1.40	+0.20	6	-0.10	
1.03	+0.10	1.50	-0.18	7	-0.10	
1.04	-0.30	1.60	-0.20	8	+0.20	
1.05	-0.03	1.70	-0.12	9	-0.17	
1.06	-0.20	1.80	+0.30	10	+0.30	
1.07	-0.05	1.90	+0.04	20	+0.08	
1.08	-0.10	1	-0.20	30	+0.20	
1.09	+0.25	2	+0.20	50	-0.19	
1.10	+0.25	3	-0.30			
Remarks: Standard reference temperature: 68°F (20°C) Coefficient of thermal expansion: $(11.5 \pm 1.0) \times 10^{-6} / ^\circ\text{C}$						Reported by: David

Code	Grade	Piece/Set	Size	Step	Piece
6110-1232	0	32	1.005	/	1
			1.01-1.09	0.01	9
			1.1-1.9	0.1	9
6111-1232	1	32	1-9	1	9
			10-30	10	3
6112-1232	2		50	/	1
6110-1246	0	46	1.001-1.009	0.001	9
			1.01-1.09	0.01	9
			1.1-1.9	0.1	9
6111-1246	1	46	1-9	1	9
			10-100	10	10
6112-1246	2		10-100	10	10
6110-1247	0	47	1.005	/	1
			1.01-1.19	0.01	19
			1.2-1.9	0.1	8
6111-1247	1	47	1-9	1	9
			10-100	10	10
6112-1247	2		10-100	10	10
6110-1283	0	83	0.5	/	1
			1	/	1
			1.005	/	1
6111-1283	1	83	1.01-1.49	0.01	49
			1.5-1.9	0.1	5
6112-1283	2	83	2.0-9.5	0.5	16
			10-100	10	10
6110-1287	0	87	1.001-1.009	0.001	9
			1.01-1.49	0.01	49
			0.5-9.5	0.5	19
6111-1287	1	87	10-100	10	10
			1.005	/	1
6112-1287	2	87	1.01-1.49	0.01	49
			0.5-24.5	0.5	49
6110-1201	0	103	25-100	25	4
			1.005	/	1
			1.01-1.49	0.01	49
6111-1201	1	103	0.5-24.5	0.5	49
			1.005	/	1
6112-1201	2	103	1.01-1.009	0.001	9
			1.01-1.49	0.01	49
6110-1112	0	112	0.5-24.5	0.5	49
			25-100	25	4
			1.005	/	1
6111-1112	1	112	1.01-1.009	0.001	9
			1.01-1.49	0.01	49
6112-1112	2	112	0.5-24.5	0.5	49
			25-100	25	4
6110-1122	0	122	0.5	/	1
			1	/	1
			1.0005	/	1
6111-1122	1	122	1.001-1.009	0.001	9
			1.01-1.49	0.01	49
6112-1122	2	122	1.5-1.9	0.1	5
			2.0-25.0	0.5	47
6110-3236	0	36	30-70	10	5
			75	/	1
			80-100	10	3
6111-3236	1	36	0.05"	/	1
			0.1001"-0.1009"	0.0001"	9
6112-3236	2	36	0.101"-0.109"	0.001"	9
			0.11"-0.19"	0.01"	9
6110-3281	0	81	0.1"-0.5"	0.1"	5
			1", 2", 4"	/	3
			0.1001"-0.1009"	0.0001"	9
6111-3281	1	81	0.101"-0.149"	0.001"	49
			0.05"-0.95"	0.05"	19
6112-3281	2		1"-4"	1"	4

## LARGE METRIC GAUGE BLOCK SET

DIN ISO  
3650

- Stable dimensions with high accuracy, low surface roughness, high wringing force
- Strictly made in accordance with DIN ISO 3650
- Precision ground, mirror polish, heat treatment and cryogenic treatment for all measuring surfaces
- With inspection certificate
- Made of premium hardened steel
- High-carbon, high-chrome steel provides high hardness ( $\geq 63\text{HRC}$ ) and wear resistance
- Edges are slightly beveled for protection

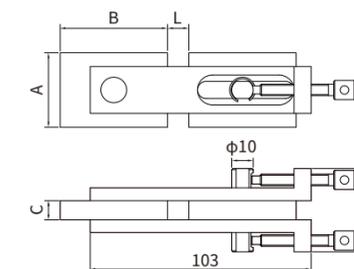
## 8PCS LARGE METRIC GAUGE BLOCK SET

Code	Size	Grade	Unit:mm
6220-6608	125/150/175/200/250/300/400/500	0	
6221-6608	125/150/175/200/250/300/400/500	1	
6222-6608	125/150/175/200/250/300/400/500	2	



## 5PCS LARGE METRIC GAUGE BLOCK SET

Code	Size	Grade	Unit:mm
6220-6605	600/700/800/900/1000	0	
6221-6605	600/700/800/900/1000	1	
6222-6605	600/700/800/900/1000	2	

GAUGE  
BLOCK HOLDERS

- To be used with gauge blocks for gaging both workpieces and fixtures
- To check, set and adjust gauges and measuring instruments
- Used to couple gauge block together to increase length.
- Holders also can be used with reference points, scribers, and jaw to use as a Go/NoGo (G/NG) gage

Code	Type	Unit	A	B	C	L	H	Unit:mm
6321-0003	3Pcs/Set	Set	35	50	9	0-25	38	
6321-0005	5Pcs/Set	Set	35	50	9	0-25	38	

## GAUGE BALL SET



- Measure difficult close tolerance dimensions in tool rooms inspection departments and production areas
- Ground and lapped
- Made by quality steel hardened
- Chrome steel hardened to Rc 63

Unit:mm

Code	Including	Dimensional accuracy	Shape Accuracy	Quantity
6350-0005	sp1,sp2,sp3,...sp10.....sp25	0.0025	0.0006	25 pairs

## CALIPER AND HEIGHT GAUGE CHECKER



- Used to set and inspect caliper and height gauges
- Ceramic gage blocks can be used in either vertical and horizontal orientation
- Measuring blocks are corrosion-resistant and dimensionally stable
- Supplied with inspection certificate

Unit:mm

Code	Range	Internal Measuring Hand Size	Accuracy
6451-0005	0-300	20/50/100/150/200/250/300/330	±0.005
6451-0010	0-600	20/50/100/150/200/250/300/350/400/450/500/550/600	±0.007
6451-0015	0-1000	20/50/100/150/200/250/300/350/400/450/500/550/600 /650/700/750/800/850/900/950/1000	±0.007

## PIN GAUGE SET

- Strictly made in accordance with DIN2269
- Perfect for measuring the hole diameter, distance between holes, hole location, slot width, used as go&no-go gages or as reference standards of setting measuring equipment
- Made of hardened steel, heat treatment, abrasion resistant, hardness 60-63HRC, precision ground for long service life

**Individual Size Available**



Unit:mm

Code	Amount(Pcs)	Size	Step	Accuracy
6211-4205	91	1-10	0.1	±0.001
6211-4210	273	Include 273pcs(0.99/1.00/1.01[3pcs];1.09/1.10/1.11, 1.19/1.20/1.21...1.89/1.90/1.91,1.99/2.00/2.01[30pcs] 2.09/2.10/2.11...9.99/10.00/10.01[240pcs])		±0.001
6212-4205	190	0.061"-0.250"	0.001"	-0.0002"
6212-4210	250	0.251"-0.5000"	0.001"	-0.0002"

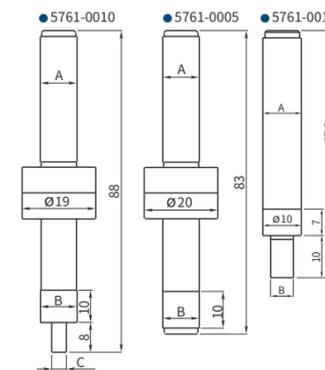


# TOOL SETTING MEASURING GAUGES

BORN IN ITALY, RAISED BY THE WORLD



## EDGE FINDER

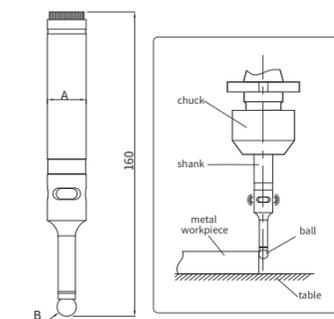


- Body and contact are made of tool steel, hardened and ground and lapped to close tolerances for diameter and concentricity
- For adjusting basic surfaces or edges
- Ideal for locating work surfaces easily, quickly and accurately
- Useful for identifying center line on jig boring, milling and engraving machines
- Rotational speed of spindle approx 400 - 600 rpm

Unit:mm

Code	Shank Diameter(A)	Contact Point(B&C)	Accuracy
5761-0005	φ10	φ10	0.005
5761-0010	φ10	φ10&φ4	0.005
5761-0015	φ10	φ6	0.008

## ELECTRIC EDGE FINDER

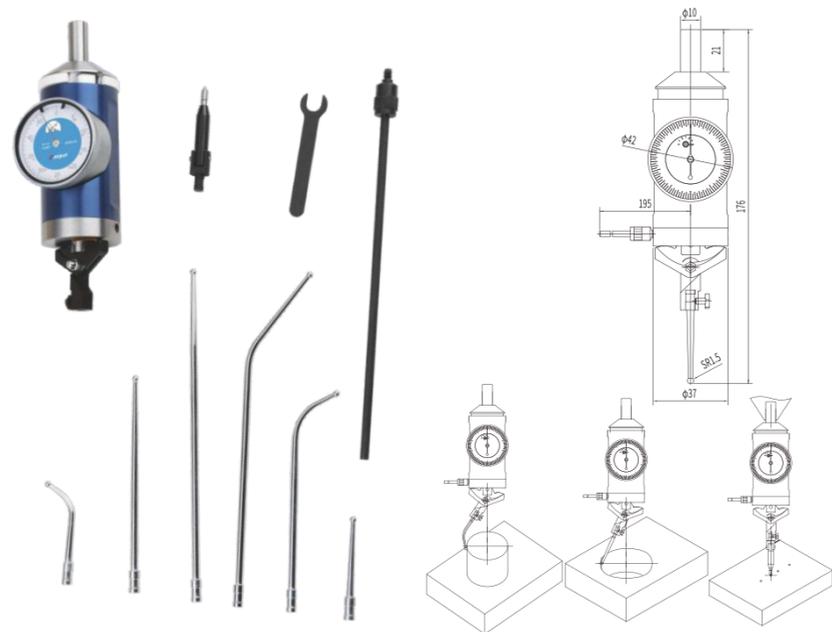


- Edge finder lights and beeps instantly when probe touches workpiece
- High sensitivity probe for accurate positioning relative to workpiece
- Read off any electrically conductive metal
- Used to precisely determine the edge of a workpiece (zero setting)
- Hardened shank and contact ball

Unit:mm

Code	Shank(A)	Contact ball(B)	Beeper	Accuracy
5760-1005	φ20	5φ10	with	0.005

## CENTERING INDICATOR GAUGE

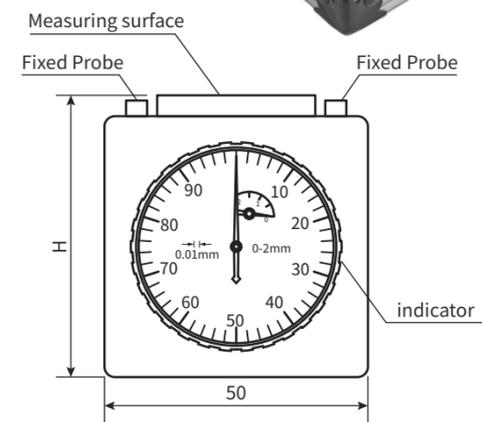


- Use this indicator to quickly center work pieces or fixtures on your bore and milling set-ups
- Determining the centres of bores and shafts
- Sturdy metal housing suitable for workshop
- Internal or external centering
- Operates at any angle from vertical to horizontal without a change
- 3 internal and 3 external feelers restraining arm
- Center point feeler
- The shank is 10mm diameter and 20 mm long
- The indicator is 180mm long with 45 mm straight feeler
- Internal diameter is from 4mm to 300 mm
- External diameter is from 0mm to 300 mm
- Straight feeler length:45 mm /100mm/154 mm
- Curved feeler length:46 mm /100 mm /154 mm
- Center point feeler length:52.5 mm

Unit:mm

Code	Range	Graduation	Accuracy
5711-6100	0-0.15"	0.0005"	0.001"
5712-1100	0-3	0.01	0.02

## ZERO SETTING DEVICE



- With magnetic base
- To adjust the tools to the 0-position to determine the reference point of the machine spindle
- No feeler gauge or starting contact is needed
- Spring loaded setting face
- Mechanical zero-setting instrument for CNC machine centers
- Low spring force to prevent cutting tool from damage

Unit:mm

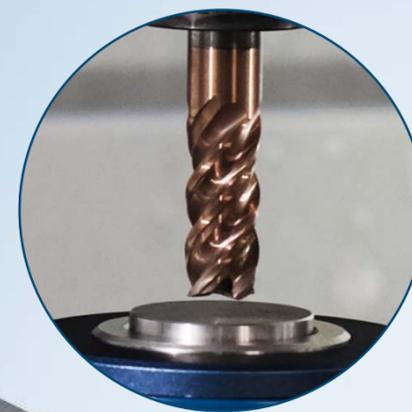
Code	Range	Graduation	Height	Remark
1122-9001	0-2	0.01	50	Magnetic base
1122-9002	0-2	0.01	100	Magnetic base with switch

# DIGITAL ZERO SETTING DEVICE

WITH 0.001MM RESOLUTION



- **Used to help tool setting**  
Can be used in IP65 working environment (with inductive measurement against splash water) and will not damage the tool edge



- Accuracy (tolerance range):  $\pm 0.002\text{mm}/0.0001''$
- Repeatability:  $0.003\text{mm}/0.0001''$
- 3V Lithium battery CR2032

Unit: mm

Code	Height	Resolution
1801-1005	50	0.001/0.00005"
1801-1010	100	0.001/0.00005"

- **Resolution reaches 0.001mm**  
Higher than other zero setting devices
- **Lighting indicating at "0"**  
More obvious and accurate compared with mechanic zero setting device



• Provided in fitted aluminum case

• Height of 100mm optional



- **With magnetic base**  
Fixed on machine steadily and shorten tool setting time and improve work efficiency greatly

# PREMIUM MAGNETIC PARALLEL SET WITH HANDLE



Patented design for easy installation and disassemble



BEFORE USE

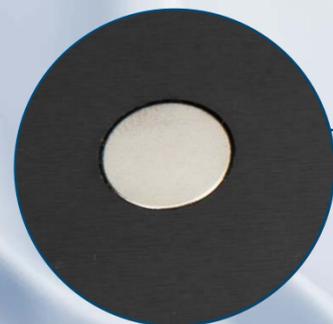
- Higher Accuracy from Dasqua
- Height tolerance:  $\pm 0.005\text{mm}$  Width tolerance:  $\pm 0.01\text{mm}$
- Hardness: 55-60HRC



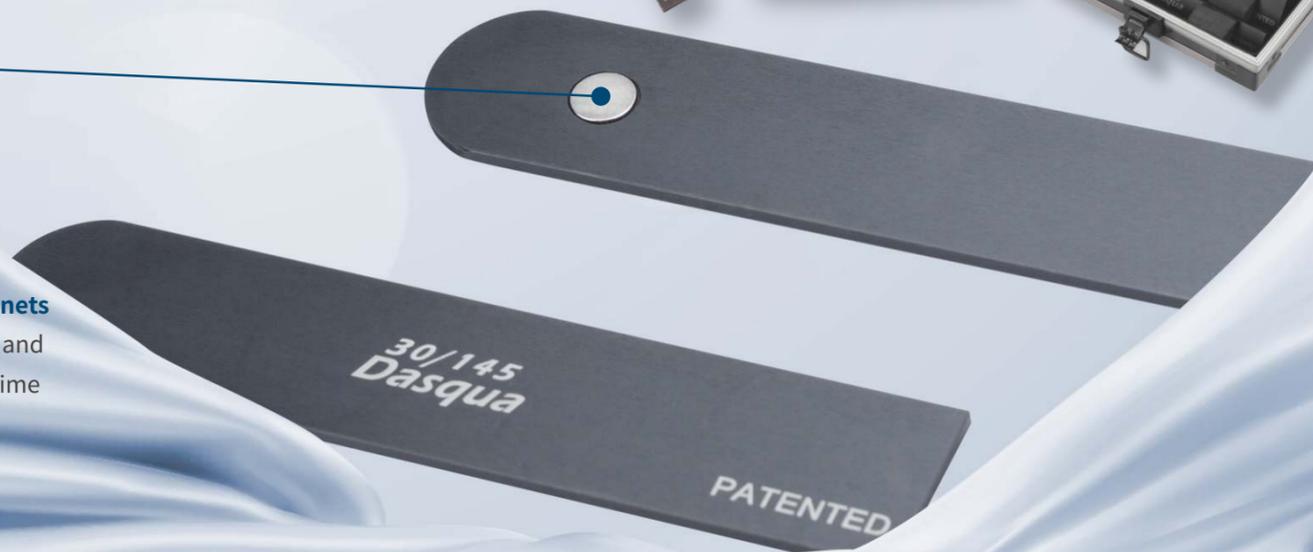
IN USE

Unit:mm

Code	Amtount(Pairs)	Length	Width	Thickness
1801-0105-A	5	100	15,22,25,30,32	2.5
1801-0110-A	5	125	15,30,35,37,39	2.5
1801-0115-A	5	150	25,35,40,45,47	2.5



- Newly designed embeded magnets leaving your hands for clamping and setting up reduce the clamping time significantly



## 1-2-3 BLOCKS



- 23 holes consists of 5 tapped holes that are 3/8-16 for clamping and 18 untapped holes
- Hardened and precision ground on all 6 sides of each block
- Product Dimensions: 1" x 2" x 3"
- Heat treated and case hardened to HRC 58-62
- Tolerance of size  $\pm 0.0002$ ", Parallelism 0.0002", Height of pair 0.0002"
- Cross drilling design gives minimum weight and maximum strength



Unit:mm

Code	Size	Squareness
8407-2005	25/50/75mm	0.003mm/25mm
8407-2010	25/50/75mm	0.008mm/25mm

Unit:inch

Code	Size	Squareness
8407-0005	1"-2"-3"	0.0001"/1"
8407-0010	1"-2"-3"	0.0003"/1"

## EXTRA THIN PREMIUM PARALLEL SET



- Come with 10 Pairs Precision Ultra Thin Parallel Set
- Made of premium alloy steel, hardened, stress-relieved, precision ground, used in pairs
- With high perpendicularity, parallelism, dimension accuracy, convenient to use and maintain
- Easy to operate during the drilling, milling, assembling work, convenient to clamp workpiece, and provide the reliable and accurate position for workpiece
- Accuracy: Height  $\pm 0.01\text{mm}$ , thickness  $\pm 0.01\text{mm}$ , use in pairs:  $\pm 0.01\text{mm}$  (height/thickness)
- Edges are slightly beveled
- Superior surface finish: Ra0.4um, high hardness: 56-61HRC, long service life

Unit:mm

Code	Amount(Pairs)	Thickness x Length	Height
8201-0005	10	0.8 x 150	12,14,16,18,20,22,24,26,28,30
8202-0005	10	1/32" x 6"	1/2",5/8",3/4",7/8",1",1-1/8",1-1/4",1-3/8",1-1/2"&1-5/8"

# PREMIUM PARALLEL SET WITH ALU.CASE

- Premium alloy steel, hardened and quenched, hardness of 58-63HRC, long service life
- Edges are slightly lapped for anti-collision.
- Fitted black aluminium case

Unit:mm

Code	Quantity(Pairs)	Thickness x Length	Height
8203-0010	14	10 x 150	14,16,18,20,22,24,26,28,30,32,35,40,45,50
8203-0025	14	4 x 150	14,16,18,20,22,24,26,28,30,32,35,40,45,50
8203-0030	9	8.5 x 150	14,16,20,24,30,32,36,40,44
8204-0010	9	1/4"x6"	3/4",7/8",1",1-1/8",1-1/4",1-3/8",1-1/2",1-5/8",1-3/4"
8204-0015	10	1/8"x6"	1/2",5/8",3/4",7/8",1",1-1/8",1-1/4",1-3/8",1-1/2",1-5/8"
8204-0025	4	3/16"x6"	1",1-1/4",1-1/2",1-3/4"

- Precision ground with high accuracy: height/width  $\pm 0.01\text{mm}$ , parallelism  $\pm 0.005\text{mm}$ , use in pairs:  $\pm 0.01\text{mm}$  (height/thickness) with Inspection report (optional)

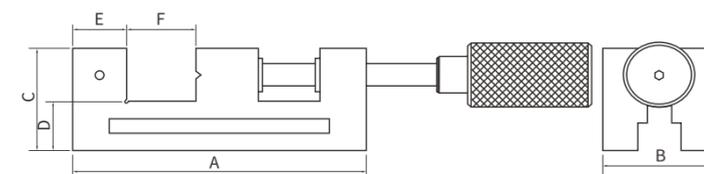


- Round chamfer to protect operators' hands from scratch



HIGH HARDNESS  
LONG SERVICE LIFE

## PRECISION TOOLMAKERS VICE-SCREW GUIDE TYPE

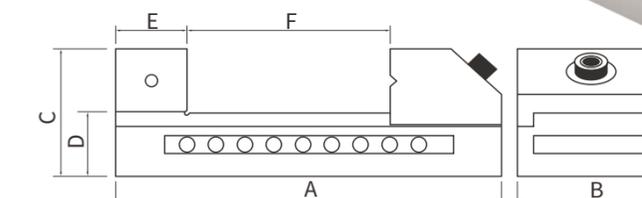
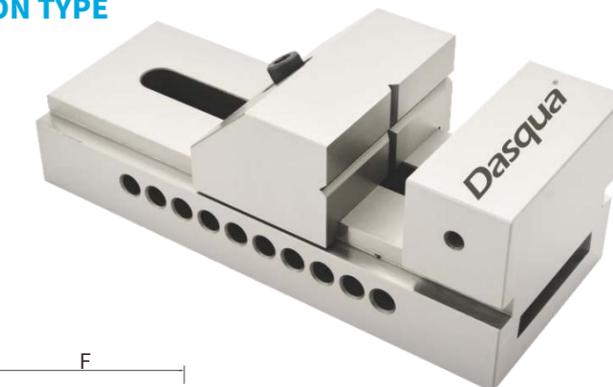


- Hardened and stabilized
- Precision ground to a mirror finish
- Squareness of the vice is within 0.005mm and parallelism of the all critical sidest
- Horizontal and Vertical V moveable jaws are provided for holding the round/square partst
- Jaw pressure on workpiece is forward and downward for repeatable positioning and maximum holding power
- Particularly suitable for erosion work
- Can be used on base, either side, end and top

Unit:mm

Code	A	B	C	D	E	F	Weight
8802-5105	156	50	52	27	25	0-63	2.3kg
8802-5110	176	63	63	33	30	0-73	4.0kg
8802-5115	190	73	73	38	35	0-76	5.5kg
8802-5120	255	100	82	42	40	0-120	11.0kg

## PRECISION TOOLMAKERS VICE QUICK ACTION TYPE

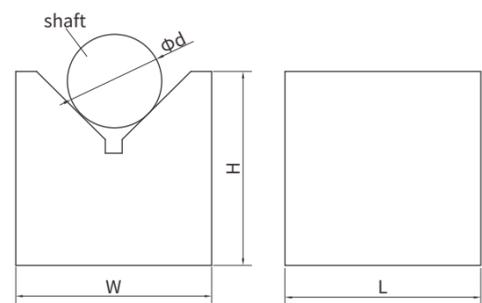


- Hardened and stabilized.
- Precision ground to a mirror finish
- Squareness of the vice is within 0.005mm and parallelism of the vice is within 0.003mm on all critical sidest
- Positive download and rapid positioning notches for free Jaw movement
- Horizontal and Vertical V moveable jaws are provided for holding the round/square parts
- Locking Screw provided at the Vise base for adjustable positions of the moveable Jaw
- The rapid positioning notches allow the vice to be locked in any position by means of an allen key provided with the vice
- Jaw pressure on work piece is forward and downward for repeatable positioning and maximum holding power
- Particularly suitable for erosion work
- Can be used on base, either side, end and top

Unit:mm

Code	A	B	C	D	E	F	Weight
8802-1105	150	50	53	28	30	0-80	1.6kg
8802-1110	175	63	63	31	35	0-90	2.9kg
8802-1115	190	73	70	35	35	0-100	4.3kg
8802-1120	245	100	90	45	45	0-130	10kg

## GRANITE V-BLOCK SET



- Ideal for testing cylinder
- Made of granite, hard and no rusty, no dimensional change over time or temperature change
- With V-cut 90°, finely ground
- Side- and front-faces angular ground in regard to base area
- Supplied in matched pair

Code	L x W x H	Range of shafts(φd)	Parallelism of V groove to bottom	Height difference of a matched pair	Grade
8321-1005	70x50x70	5-45	0.003	0.003	00
8321-1010	100x50x70	5-45	0.004	0.003	00

Unit:mm

## V-BLOCK & CLAMP SET

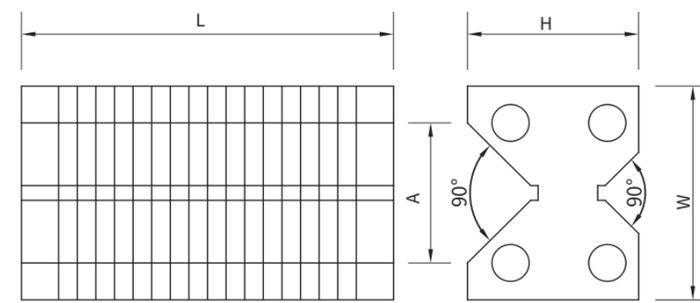


- Made of premium hardened steel, stress-relieved and precision ground in pairs
- Flatness and parallelism  $\pm 0.01\text{mm}$
- V-angle 90° clamping brackets can be used to check cylindrical precision machined parts
- Contact faces are ground and lapped

Code	Clamping Range	H	W	L
8101-0005	6-30	36	40	45
8101-0010	6-32	40	45	70
8101-2005	1"	1-3/8"	1-3/4"	1-5/8"
8101-2010	1-1/2"	1-5/8"	1-3/4"	2-3/4"
8101-2015	1-1/2"	1-3/4"	2-1/2"	2-3/4"
8101-2020	2-1/8"	2-3/4"	3-1/2"	4-7/8"

Unit:mm

## MAGNETIC INDUCTION V-BLOCK

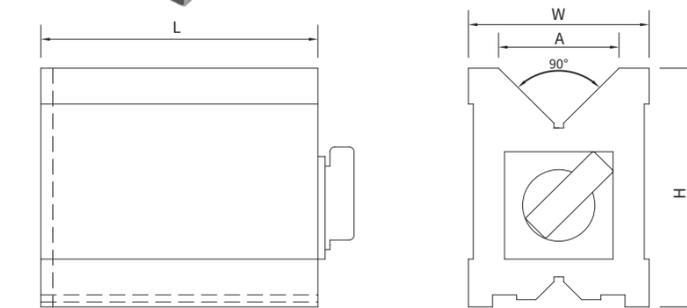


- All working surfaces are hardened, precision ground
- For use on magnetic chucks
- These fine V-Blocks are now made universal holds in any direction on the magnetic chuck
- Integrally aluminum cast into one solid piece ground all over and series numbered in pairs

Code	L x W x H	A	Material	Weight
8561-2020	100x58x46	38	Steel/Aluminum	1.2kg
8561-2025	50x58x46(2pcs)	38	Steel/Aluminum	0.6kgx2

Unit:mm

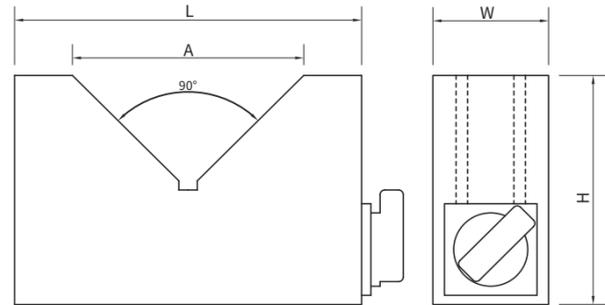
## MAGNETIC V-BLOCK



- Magnetic Measuring and Clamping V-Block
  - Hardened, high accuracy, strong magnetic force for grinding, light milling, drilling and inspection of round and square jobs
  - All working surfaces are hardened
  - Magnetic force on top, bottom and two V grooves
  - V groove on the top for large shafts V groove on the bottom for small shafts
  - Suitable for cast iron surface plates
  - Magnet has an On/O fswitch which easily and quickly engages / releases magnet
- Unit:mm

Code	Holding power	L	W	H	A	Weight
8561-2005	70kg	100	70	95	46	4.0kg
8561-2010	80kg	115	75	100	50	5.2kg
8561-2015	60kg	70	60	72	36	1.6kg

## MAGNETIC V-BLOCK SET

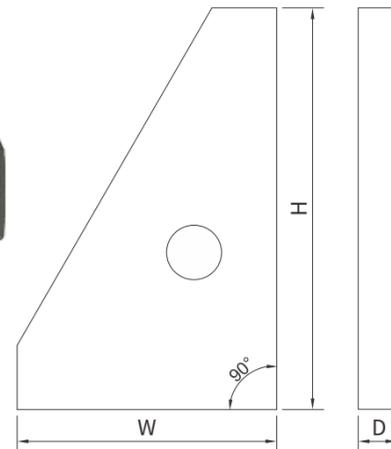


- Made of high quality steel and copper
- Magnet has an On/Off switch which easily and quickly engages / releases magnet
- Precision ground and lapped in pairs to ensure same size
- Both V-grooved part and bottom face have magnetic force

Unit:mm

Code	Holding power	L x W x H	A	Applicable Dia	weight
8561-2030	15kg	70X40X50(2pcs)	34	φ50	1kgx2
8561-2035	23kg	150X50X100(2pcs)	100	φ100	5kgx2

## GRANITE SQUARE 90°



- Used to check squareness
- Holes are made to reduce weight so easy to handle and carry
- Made of natural granite, with two sides precision ground

Unit:mm

Code	Size(H x W x D)	Squareness between meaning surface and datumsurface	Grade
9211-3005	250x160x40	0.002	00
9211-3010	400x250x50	0.003	00
9211-3015	630x400x50	0.004	00

## GRANITE SURFACE PLATE

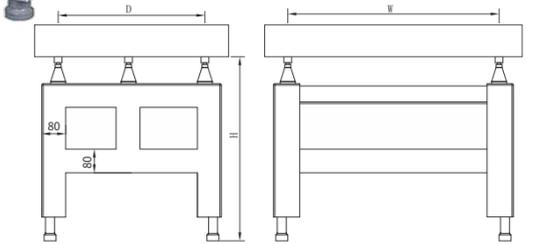
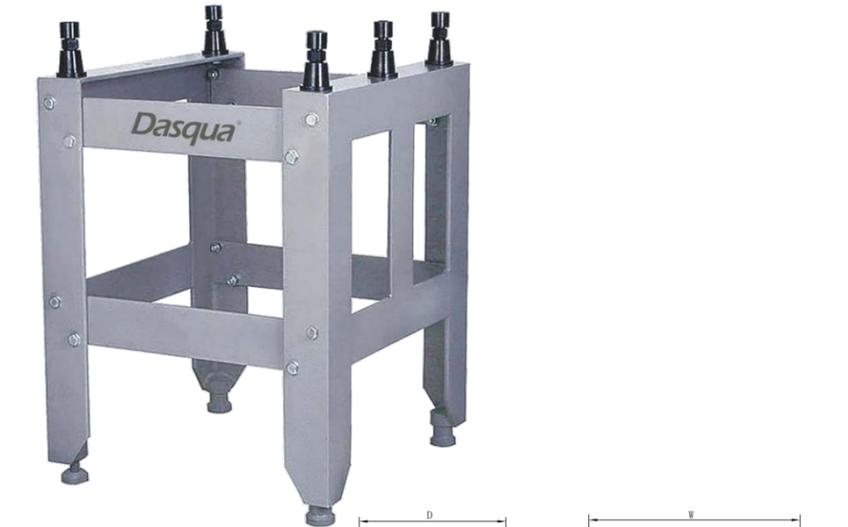


- Meet DIN876, grade 00 is for inspection room or lab, grade 0 is for workshop
- Made of granite, free from deterioration or dimensional change over time, minimal changes in dimension due to temperature changes
- High density structure thus extremely homogeneous
- Surface plate is lapped and has a satin matt finish to prevent glare
- 100% corrosion proof
- Non-magnetic and non-conductive
- Measuring instruments and test equipment are easy to slide over surface
- For measuring tasks, layout work, touching up and lapping precision parts
- Optional accessory: stand for granite surface plate, jack for granite surface plate
- Supplied with calibration certificate

Unit:mm

Code	L x W x H	Flatness (Grade 00)	Code	L x W x H	Flatness (Grade 0)
8500-3020	300x200x60	0.0027	8730-3020	300x200x60	0.0054
8500-4025	400x250x60	0.0029	8730-4025	400x250x60	0.0059
8500-4040	400x400x60	0.0031	8730-4040	400x400x60	0.0063
8500-5032	500x315x70	0.0032	8730-5032	500x315x70	0.0064
8500-6340	630x400x80	0.0035	8730-6340	630x400x80	0.0070
8500-6363	630x630x100	0.0038	8730-6363	630x630x100	0.0076
8500-8050	800x500x100	0.0039	8730-8050	800x500x100	0.0078
8500-1063	1000x630x140	0.0044	8730-1063	1000x630x140	0.0087

## GRANITE PLATE STAND



- Solid steel construction
- For medium size granite surface plates
- Adjusting range of jacks
- One foot on the bottom is adjustable

Unit:mm

Code	For granite surface plate	W x D x H
8295-0005	630x400x80 (code 8500-6340,8730-6340)	350x222x(700-725)
8295-0010	630x630x100 (code 8500-6363,8730-6363)	350x350x(680-705)
8295-0015	800x500x100 (code 8500-8050,8730-8050)	444x277x(680-705)
8295-0020	1000x630x140 (code 8500-1063,8730-1063)	555x350x(620-645)
8295-1005	630x400x80 (code 8500-6340,8730-6340)	350x222x(930-955)
8295-1010	630x630x100 (code 8500-6363,8730-6363)	350x350x(910-935)
8295-1015	800x500x100 (code 8500-8050,8730-8050)	444x277x(910-935)
8295-1020	1000x630x140 (code 8500-1063,8730-1063)	555x350x(870-895)

# COMPARATIVE MEASURING GAUGES

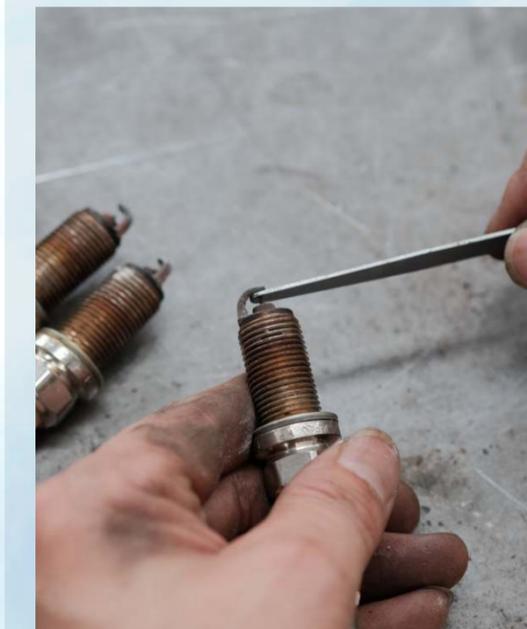
BORN IN ITALY, RAISED BY THE WORLD

## FEELER GAUGE SHIM ROLL BLUE TIN



Unit:mm

Code	Size
1803-3110	0.01*50*5000
1803-3111	0.02*50*5000
1803-3112	0.03*50*5000
1803-3113	0.04*50*5000
1803-3114	0.05*50*5000
1803-3115	0.06*50*5000
1803-3116	0.07*50*5000
1803-3117	0.08*50*5000
1803-3118	0.09*50*5000
1803-3119	0.10*50*5000



# FEELER GAUGE SHIM ROLL

DIN 2275

- Made in Europe and strictly in accordance with DIN2275
- Surface roughness: Ra 0.4µm
- Hardness: 360-600HV and prolongs the service life significantly
- Material: premium stainless steel/alloy steel
- Thickness: 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.80, 0.90, 1.00mm
- Shaped size: 12.7mmx5m, desired length can be cut. Other sizes can be ordered separately

Unit:mm

Code	Thickness	Remark	Code	Thickness	Remark
1803-2110	0.01	Stainless Steel	1803-4122	0.25	65Mn
1803-4111	0.02	65Mn	1803-4123	0.30	65Mn
1803-4112	0.03	65Mn	1803-4124	0.35	65Mn
1803-4113	0.04	65Mn	1803-4125	0.40	65Mn
1803-4114	0.05	65Mn	1803-4126	0.45	65Mn
1803-4115	0.06	65Mn	1803-4127	0.50	65Mn
1803-4116	0.07	65Mn	1803-4128	0.60	65Mn
1803-4117	0.08	65Mn	1803-4129	0.70	65Mn
1803-4118	0.09	65Mn	1803-4130	0.80	65Mn
1803-4119	0.10	65Mn	1803-4131	0.90	65Mn
1803-4120	0.15	65Mn	1803-4132	1.00	65Mn
1803-4121	0.20	65Mn			

Unit:mm

Code	Thickness	Remark
1803-0105	0.01,0.02,0.03,0.04,0.05,0.06,0.07,0.08,0.09,0.10,0.15,0.20,0.25	Set



## FEELER GAUGE

- Suitable for electronic equipment, mold manufacturing, automotive, automation equipment, precision machinery, metal parts, machinery parts and so on
- Strictly made in accordance with DIN2275
- High tolerance accuracy for precise measurements
- Hardened spring steel, conical shaped blades,
- Nickel plated case with lock nut
- The numbers of size are etched into feeler gauge for easy identification
- Polished surface, durable and smooth

DIN 2275



Unit:mm

Code	Length	Range	Amount(Pcs)	Including
1825-0175	75	0.04-1.00	25	0.04,0.05,0.06,0.07,0.08,0.09,0.10,0.15,0.20,0.25,0.30,0.35,0.40,0.45,0.50,0.55,0.60,0.65,0.70,0.75,0.80,0.85,0.90,0.95,1.00
1813-0100	100	0.05-1.00	13	0.05,0.10,0.15,0.20,0.25,0.30,0.40,0.50,0.60,0.70,0.80,0.90,1.00
1813-1100	100	0.03-0.5	13	0.03,0.04,0.05,0.06,0.07,0.08,0.09,0.10,0.15,0.20,0.30,0.40,0.50
1817-0100	100	0.02-1.00	17	0.02,0.03,0.04,0.05,0.06,0.07,0.08,0.09,0.10,0.15,0.20,0.25,0.30,0.40,0.50,0.75,1.00
1820-0100	100	0.05-1.00	20	0.05,0.10,0.15,0.20,0.25,0.30,0.35,0.40,0.45,0.50,0.55,0.60,0.65,0.70,0.75,0.80,0.85,0.90,0.95,1.00
1828-0100	100	0.05-1.00	28	0.05,0.06,0.07,0.08,0.09,0.10,0.11,0.12,0.13,0.14,0.15,0.20,0.25,0.30,0.35,0.40,0.45,0.50,0.55,0.60,0.65,0.70,0.75,0.80,0.85,0.90,0.95,1.00
1832-0100	100	0.03-1.00	32	0.03,0.04,0.05,0.06,0.07,0.08,0.09,0.10,0.13,0.15,0.18,0.20,0.23,0.25,0.28,0.30,0.33,0.35,0.38,0.40,0.45,0.50,0.55,0.60,0.63,0.65,0.70,0.75,0.80,0.85,0.90,1.00
1813-0150	150	0.05-1.00	13	0.05,0.10,0.15,0.20,0.25,0.30,0.40,0.50,0.60,0.70,0.80,0.90,1.00
1820-0150	150	0.05-1.00	20	0.05,0.10,0.15,0.20,0.25,0.30,0.35,0.40,0.45,0.50,0.55,0.60,0.65,0.70,0.75,0.80,0.85,0.90,0.95,1.00
1813-0200	200	0.05-1.00	13	0.05,0.10,0.15,0.20,0.25,0.30,0.40,0.50,0.60,0.70,0.80,0.90,1.00
1820-0200	200	0.05-1.00	20	0.05,0.10,0.15,0.20,0.25,0.30,0.35,0.40,0.45,0.50,0.55,0.60,0.65,0.70,0.75,0.80,0.85,0.90,0.95,1.00
1813-0300	300	0.05-1.00	13	0.05,0.10,0.15,0.20,0.25,0.30,0.40,0.50,0.60,0.70,0.80,0.90,1.00
1820-0300	300	0.05-1.00	20	0.05,0.10,0.15,0.20,0.25,0.30,0.35,0.40,0.45,0.50,0.55,0.60,0.65,0.70,0.75,0.80,0.85,0.90,0.95,1.00
1732-0035	90/3.5"	0.0015"-0.035"	32	0.04/0.0015",0.05/0.002",0.06/0.0025",0.08/0.003",0.10/0.004",0.13/0.005",0.15/0.006",0.18/0.007",0.20/0.008",0.23/0.009",0.25/0.01",0.28/0.011",0.30/0.012",0.33/0.013",0.35/0.014",0.38/0.015",0.40/0.016",0.43/0.017",0.45/0.018",0.48/0.019",0.50/0.02",0.53/0.021",0.55/0.022",0.58/0.023",0.60/0.024",0.63/0.025",0.65/0.026",0.70/0.028",0.75/0.03",0.80/0.032",0.88/0.035" Plus (1pc of Copper) 0.25/0.01"

## BRASS FEELER GAUGE

- Made from brass, suitable for non-magnetic application, e.g. checking the electrode distance in spark plugs, or for setting sensors at ABS
- Conical shaped blades
- With lock nut
- Sizes in mm on each blade



Unit:mm

Code	Length	Range	Amount(Pcs)	Including
1620-0101	100	0.05-1.00	13	0.05,0.10,0.15,0.20,0.25,0.30,0.40,0.50,0.60,0.70,0.80,0.90,1.00
1620-0100	100	0.05-1.00	20	0.05,0.10,0.15,0.20,0.25,0.30,0.35,0.40,0.45,0.50,0.55,0.60,0.65,0.70,0.75,0.80,0.85,0.90,0.95,1.00

## GAUGE SET

- Used to check the pitch of screw thread
- Narrow designed blades can be used for internal and external screw threads
- Locking device at each end to secure all blades for storage or positioning
- Correct pitch is determined by matching blade teeth with threads
- Precisely ground and finished
- Blades marked with thread size
- Made of premium stainless steel



Unit:mm

Code	Thread type	Amount(Pcs)	Range	Including
1501-1024	Metric 60°	24	0.25-7.00	0.25,0.30,0.35,0.40,0.50,0.70,0.75,0.80,0.90,1.00,1.25,1.50,1.75,2.00,2.50,3.00,3.50,4.00,4.50,5.00,5.50,6.00,6.50,7.00
1501-1020	Metric 60°	20	0.4-6.00	0.40,0.50,0.60,0.70,0.75,0.80,0.9,1.00,1.25,1.50,1.75,2.00,2.50,3.00,3.50,4.00,4.50,5.00,5.50,6.00
1502-2030	Whitworth 55°	30	4-42TPI	4,4-1/2,5,5-1/2,6,7,8,9,10,11,12,13,14,15,16,18,19,20,22,24,26,27,28,30,32,34,36,38,40,42TPI
1503-3030	Unified 60°	30	4-42TPI	4,4-1/2,5,5-1/2,6,7,8,9,10,11,11-1/2,12,13,14,15,16,18,20,22,24,26,27,28,30,32,34,36,38,40,42TPI
1500-0052	Metric 60°	24	0.25-6.00	0.25,0.3,0.35,0.4,0.45,0.5,0.6,0.7,0.75,0.8,0.9,1,1.25,1.5,1.75,2,2.5,3,3.5,4,4.5,5,5.5,6
	Whitworth 55°	28	4-62TPI	4,4-1/2,5,6,7,8,9,10,11,12,13,14,16,18,19,20,22,24,25,26,28,30,32,36,40,48,60,62TPI
1500-1052	Metric 60°	22	0.4-7.00	0.4,0.5,0.6,0.7,0.75,0.8,0.9,1,1.25,1.5,1.75,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7
	Unified 60°	30	4-42TPI	4,4-1/2,5,5-1/2,6,7,8,9,10,11,11-1/2,12,13,14,15,16,18,20,22,24,26,27,28,30,32,34,36,38,40,42TPI

## ANGLE GAUGE

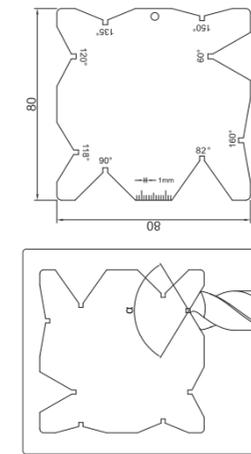
- Fine machined edges
- Made of hardened stainless steel
- The blade ends are beveled at various angles



Code	Range	Amount(Pcs)	Including	Accuracy
1420-1025	1°-45°	20	1°/2°/3°/4°/5°/6°/7°/8°/9°/10°/12°/14°/16°/18°/20°/25°/30°/35°/40°/45°	±30'

## UNIVERSAL CUTTER POINT ANGLE GAUGE

- Easy to measure the angles of top point of drills and countersinks
- Made of premium polished stainless steel
- Thickness: 1.0mm, size: 80x80mm

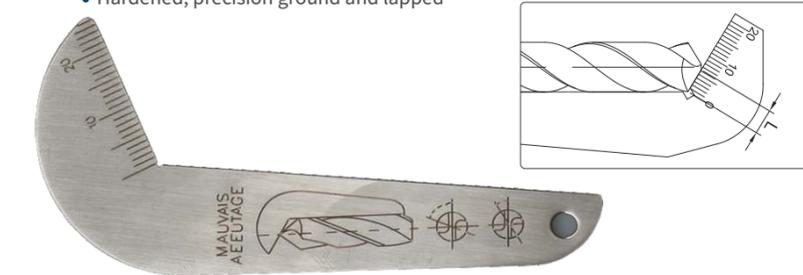


Unit:mm

Code	Thickness	Size	Graduation	Accuracy
8511-0005	1.0	80x80	60°/82°/90°/118°/120°/135°/150°/160°	±0.5°

## DRILL GRINDING GAUGE

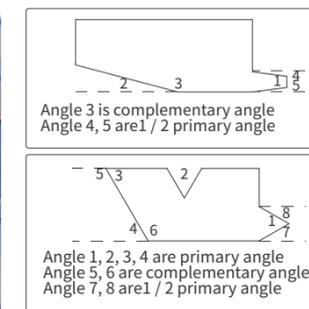
- Made of premium polished stainless steel
- Used for twist drills with cone angle 118°
- Used to check if the center of tip is concentric with the drill body
- Hardened, precision ground and lapped



Code	Range	Accuracy	
		Angle	Length
8511-0010	tip angle 118°, up to Ø50mm	±0.5°	±0.5

## 18PCS ANGLE GAGE SET

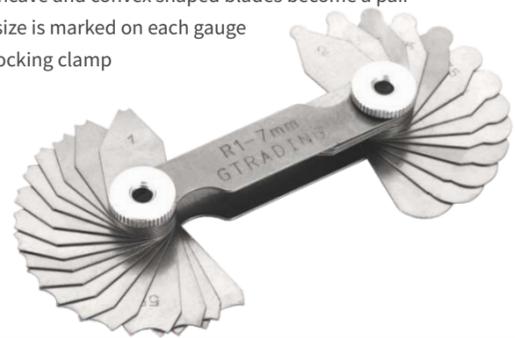
- Angles 5° - 90°
- Stainless steel material
- Each gage checks primary, 1/2 primary and complimentary angles
- Quick and accurate inspection of angle and I.D or O.D chamfers in or out of the machine



Code	Amount(Pcs)	Primary angle	1/2 Primary angle	Complementary angle
1320-0005	18	5-90°, step:5°	2.5-45°	175-90°, step:5°

## RADIUS GAUGE

- For testing of raised and recessed curves
- Fine cutted forms
- Both concave and convex shaped blades become a pair
- Radius size is marked on each gauge
- With a locking clamp

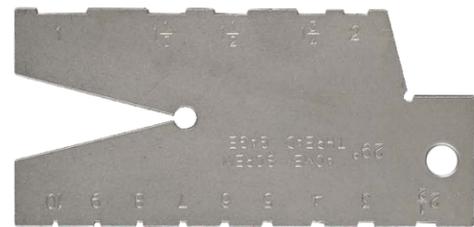


Unit:mm

Code	Range	Step	Leaves	
			Convex(Pcs)	Concave(Pcs)
1351-0005	1.0-7.0	1.0-3.0:0.25;3.0-7.0:0.5	17	17
1351-0010	7.5-15	7.5-15:0.5	16	16
1351-0015	15.5-25	15.5-20:0.5;20-25:1	15	15
1352-1005	1/32"-1/4"	1/64"	15	15
1352-1010	17/64"-1/2"	1/64"	16	16
1352-1015	17/32"-1"	1/32"	16	16

## ACME SCREW THREAD GAUGE

- Used as the standard blocks when grinding acme threads
- Acme thread inclination: 14-1/2 degree (29 degree inclined angle)
- Angles and edges are hardened and precision ground
- Threads: 1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 4, 5, 6, 7, 8, 9&10TPI



Code	Range	Thread type	Pitch
1041-0005	1-10TPI	ACME29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 4, 5, 6, 7, 8, 9&10TPI

## ANGLE THREAD CUTTING GAUGE

- For checking and set screw cutting tools, and check the angle and pitch of screw thread Angle
- Angles 55° whitworth or 60° metric
- Accuracy: ±30min
- Made of stainless steel

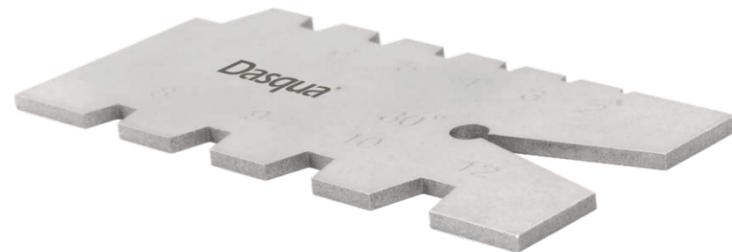


Unit:mm

Code	Thread type	Angle	Graduation
1041-2205	Metric 60°	60°	0.5,1
1041-2210	Unified 60°	60°	14ths and 20ths on front side,24ths and 32ths on back side
1041-2215	Whitworth 55°	55°	14ths and 20ths on front side,24ths and 32ths on back side

## THREAD CUTTING GAUGE

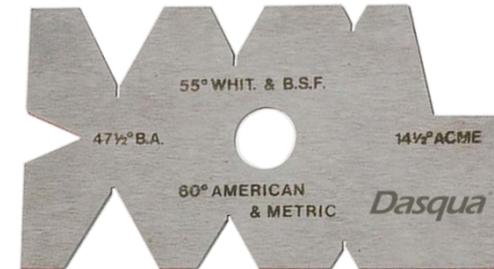
- Used to detect the angle and width of the thread cutting tool and set the position of the thread cutting tool
- For grinding & setting tools when cutting Acme threads
- Fine machined edges
- Made of hardened stainless steel, wear resistance, long service life
- Used for woodworking, metalworking, machine, equipment and many other industries
- Laser etched graduations, satin chrome finish



Code	Range	Thread type	Pitch
1041-0007	2-12	Tr30°	2,3,4,5,6,7,8,9,10,12

## ACME THREAD CUTTING GAUGE

- For grinding & setting tools when cutting Acme threads
- SAE 60° / Ww-BSF 55° / 14.5° ACME / 47.5° BA
- Stainless steel with satin chrome finish
- Laser etched graduations



Code	Thickness	Thread type
1041-0006	1	60°American&Metric/55°Whit&B.S.F/47-1/2°BA/14-1/2°Acme

## WIRE & SHEET METAL GAUGE

### AMERICAN STANDARD

- Gage numbers are in American standard numbers 0-36
- Heavy duty gage, hardened stainless steel
- Satin finish for easy reading
- Decimal equivalents on the reverse side
- Diameter-3-1/4" (φ83mm)
- Used to gauge wire, sheet, plate and non-ferrous metals such as copper, aluminum and brass



Code	Graduation	Diameter
1041-0020	0-36(0.3125"-0.007")	3-1/4"(φ 83mm)
1041-0025	0-36(0.325"-0.005")	3-1/4"(φ 83mm)

## TAPER GAUGE

- Made of polished stainless steel
- Used to measure inside diameter of tubing, hole size, slot width
- Satin chrome finish for easy and accurate readings
- Graduated to measure inside diameters or widths from metric size 1mm-60mm by 0.1mm and inch size 1/16"-2-3/8" in 1/64" another side



Unit:mm

Code	Range	Graduation
8522-0005	1/16"-5/8"	1/64"
8521-0005	1-15; 1/16"-5/8"	0.1 & 1/64"
8522-0010	5/8"-1-3/16"	1/64"
8521-0010	15-30; 5/8"-1-3/16"	0.1 & 1/64"
8522-0015	1-3/16"-1-3/4"	1/64"
8521-0015	30-45; 1-3/16"-1-3/4"	0.1 & 1/64"
8522-0020	1-3/4"-2-3/8"	1/64"
8521-0020	45-60;1-3-4"-2-3/8"	0.1 & 1/64"

## TAPER BORE GAUGE



● 1051-2010  
Length about 11.8cm with 0.1-3mm measuring range of bore diameter



- Used to measure grooves and gaps or places where hard to reach
- Made of excellent stainless steel
- With a cap to protect the tip



● 1051-0008  
Length about 19cm with 3-15mm measuring range of bore diameter

Mainly used to measure some deeper slots, holes and tube diameters.



● 1051-3005  
Length about 16cm with 0.4-6mm measuring range of bore diameter

Mainly used to measure some special grooves like T-groove and V-groove, performing more stable than a normal taper gauge.

### CIRCULAR TAPER GAUGE

Unit:mm

Code	Range	Graduation
1051-2005	0.1-3	0.1
1051-2010	0.1-5	0.1

### TAPER GAUGE

Unit:mm

Code	Range	Graduation	Accuracy
1051-0005	1-6.5	0.1	±0.05
1051-0008	3-15	0.1	±0.05
1051-0015	3-16	0.1	±0.05
1051-0020	15-30	0.1	±0.05
1051-0025	30-45	0.1	±0.05

### CLEARANCE GAUGE

Unit:mm

Code	Range	Graduation
1051-3005	0.4-6	0.05
1051-3010	0.5-10	0.05
1051-3015	1-15	0.1

## CIRCUMFERENCE GAUGE

- Application areas include the pipelines, boiler and tank construction, tire industry, forestry, etc
- For measuring diameters and circumferences of all circular objects quickly and easily
- With laser etched scales
- Graduation in mm or inch available
- Made of stainless steel material



Unit:mm

Code	Circumference Range	Graduation	Diameter Range
1704-0005-A	60-950	0.1	φ20-φ300
1704-0010-A	940-2200	0.1	φ300-φ700
1704-0015-A	2190-3460	0.1	φ700-φ1100
1704-0020-A	3450-4720	0.1	φ1100-φ1500
1704-0025-A	4710-5980	0.1	φ1500-φ1900
1704-0030-A	5960-7230	0.1	φ1900-φ2300
1704-0035-A	7220-8500	0.1	φ2300-φ2700
1704-0040-A	8480-9760	0.1	φ2700-φ3100
1704-0045-A	9730-11010	0.1	φ3100-φ3500

## TELESCOPING GAUGE SET

- The spring-loaded plunger expands within the bore, or groove, slots and holes, allowing determination of the internal diameter or groove width
- Each gage has a knurled clamp
- Satin chrome finish
- Contact plunger automatically self-centering at all times and in all positions
- Constant spring force on the measuring surface

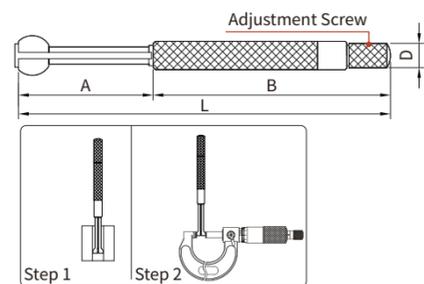


Unit:mm

Code	Range	length
5911-0001	8-150 and 5/16"-6" (8-12.7,12.7-19,19-32,32-54,54-90,90-150)	Up to 300/ 12"
5911-0002	5/16"-1/2",1/2"-3/4",3/4"-1-1/4",1-1/4"-2-1/8",2-1/8"-3-1/2",3-1/2"-6"	Up to 100/ 4"

## SMALL HOLE GAUGE SET

- Measuring range: 3.0-5.0 mm, 5.0-7.5 mm, 7.5-10.0 mm, 10.0-13.0 mm
- Used with an outside micrometer for measuring inside diameter of bores
- Gaging surface is fully hardened to ensure long tool life
- Extra long for gaging deep and shallow holes, slots, and similar workpieces
- Satin chrome finish



Unit:mm

Code	Range	L	A	B	D
5921-0005	3-5/1/8"-1/5"	76	22	53	φ5
	5-7.5/1/5"-3/10"	78	24	53	φ5
	7.5-10/3/10"-2/5"	88	28	59	φ6
	10-13/2/5"-1/2"	92	32	59	φ6

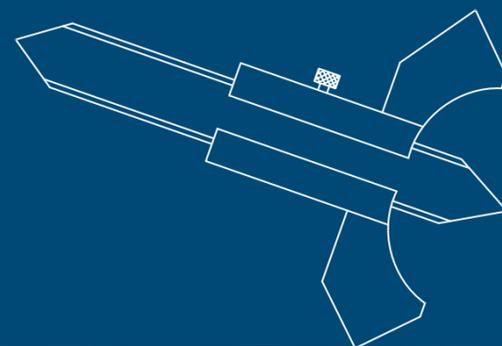
## SPRING CALIPERS AND DIVIDERS SERIES



- Quick, positive adjustment
- Made of top-grade high carbon steel
- Precise fine adjustment due to solid nut
- Outside Spring Caliper/Inside Spring Caliper/Spring Divider
- Measuring and transferring precise dimensions and for various measurements
- Inside Spring Caliper — Ends fully rounded to give accurate contact with a workpiece
- Outside Spring Caliper — Contact ends fully rounded to give accurate dimensions
- Spring Divider — Fully hardened and tempered joints, spring, washers and divider points
- Centrally located adjustment screw to ensure smooth action

Unit:mm

Code Quick Action Type	Code Normal Type	Size	Type
1051-0301	1051-1010	150/6"	outside
1051-0302	1050-1015	200/8"	outside
1051-0303	1051-1020	250/10"	outside
1051-0304	1051-1025	300/12"	outside
1051-0311	1051-4010	150/6"	inside
1051-0312	1050-4015	200/8"	inside
1051-0313	1051-4020	250/10"	inside
1051-0314	1051-4025	300/12"	inside
1051-0321	1051-5005	100/4"	divider
1051-0322	1051-5010	150/6"	divider
1051-0323	1050-5015	200/8"	divider
1051-0324	1051-5020	250/10"	divider
1051-0325	1051-5025	300/12"	divider



# WELDING GAUGE

BORN IN ITALY, RAISED BY THE WORLD

# MARKING BLACK

## Precision Layout Solution



Gage Holes  
Measure the Major Diameter of Bolt



Gage Holes  
Select Right Size Drills



Pitch Size  
Measure the Thread



Bolt Length  
Measure Length

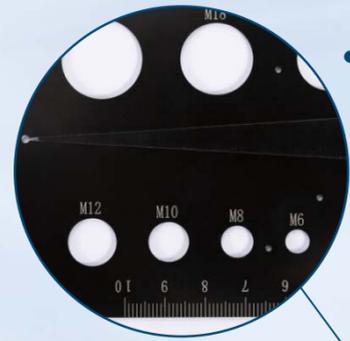


Gage Leg  
Quick-Check Perpendicularity



Slot Size  
Measure Bore Diameter

Code	Product	Style	Size	Pitches	Hole Dia. For Bolt	Slot for Wire and Washer	Remark
8511-0067	Multigauge single piece	Metric	90mm*170mm*1.25mm	0.3mm-3.0mm	M3 - M20	0.8mm - 2.5mm	Can be ordered independently
8511-0068		Inch	3.5"*6.7"*0.05"	10 - 40TPI	No 5-3/4"	0.024" - 0.25"	
1804-1405	Marking Black set	Metric	/	/	/	/	Combination Kit
1804-1406		Inch					



- **BLACK ANODIZED**  
Protective anti-rust coating

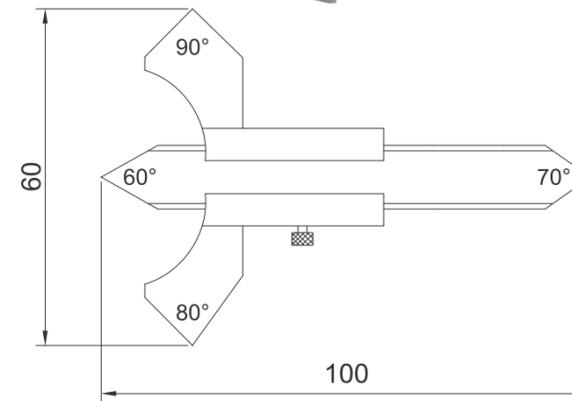
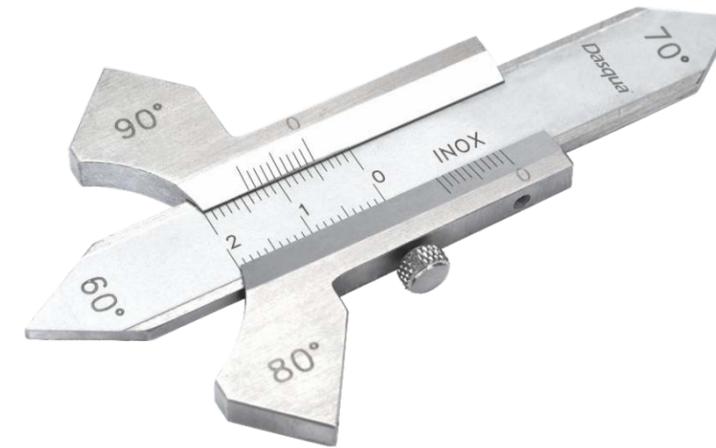
- **CNC MACHINED**  
High accuracy & High repeatability & Grounded measuring face



- **LASER-ENGRAVING SCALE**  
Black lines & figures against the sand blasted finish



## WELDING GAUGE

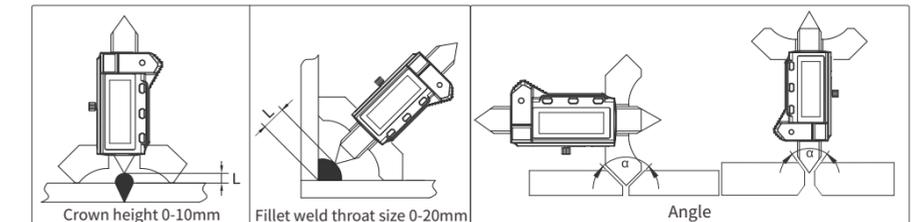


- Used to check the height of weld seam, thickness of fillet weld, bevel angle, etc
- Made of stainless steel, polished
- Measuring range: 20mm
- Slide with clamping screw

Unit:mm

Code	Angles	Range*Graduation
8531-0005	60°,70°,80°,90°	20x0.1

## DIGITAL WELDING GAUGE

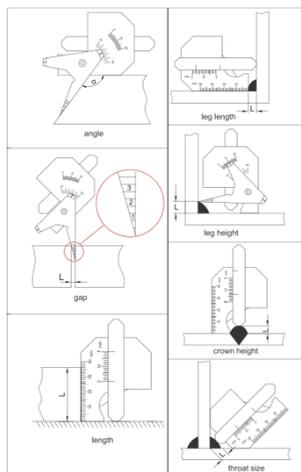
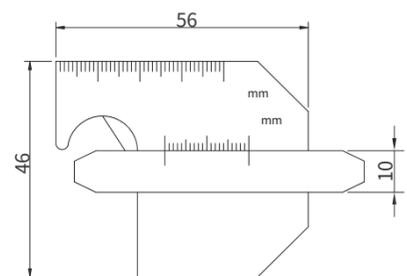


- 60° 70° 80° 90° angle measuring
- Seam crown height inspection
- Fillet weld throat size inspection
- Made of stainless steel, hardened and ground
- LCD display with clear reading, zero-setting at any position
- On/O fbutton, reading switchable mm/inch
- With data output

Unit:mm

Code	Range	Resolution	Accuracy
8530-1005	0-10/0-20	0.01/0.0005"/1/128"	±0.03

## WELDING GAUGE

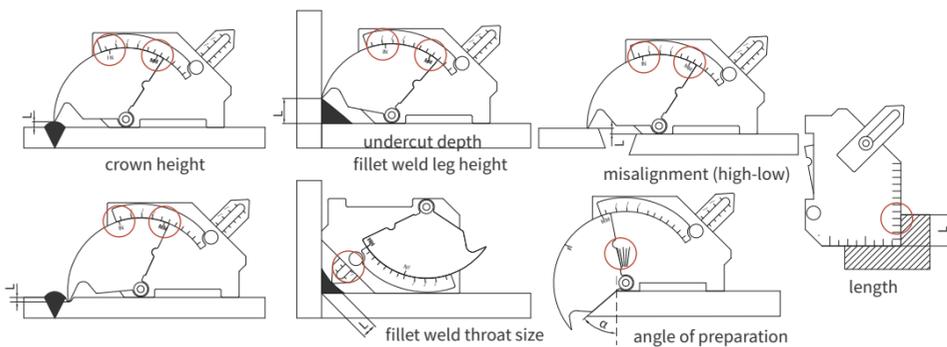
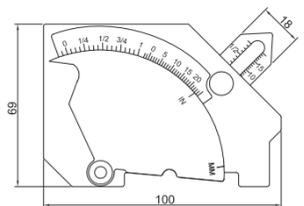
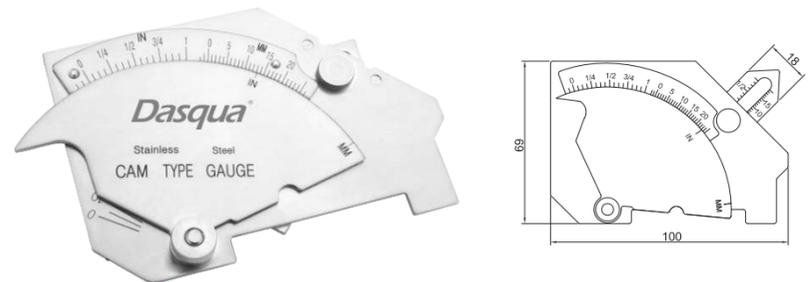


- Automatic weld size measuring
- For accurate calibration of butt and fillet type welds
- Check the throat of fillet weld to determine the leg size of the fillet weld
- Made of stainless steel, hardened and ground
- Stain chrome plated surface

Unit:mm

Code	Measurement	Range	Graduation	Accuracy
8511-0015	Leg Length	0-10	1	±0.5
	Leg Height	0-20	1	±0.5
	Crown Height	0-10	1	±0.5
	Throat size	0-10	1	±0.5
	Angle	90°-150°	5°	±1°
	Gap	1-3	1	±0.5
	Length	0-40	1	±0.5

## BRIDGE CAM WELDING GAUGE

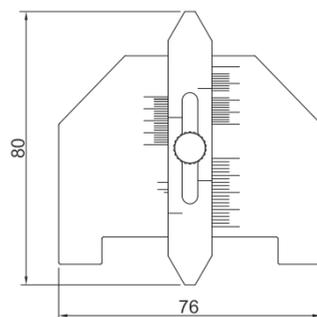
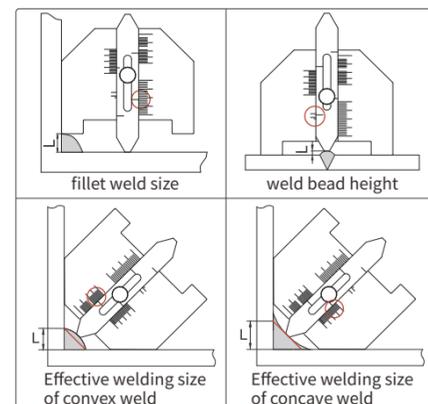


- Bridge cam gauge is a unique, versatile instrument for the inspection of welded surfaces and joints
- Made of high quality stainless steel, this gauge is durable and not easily scratched
- Gauge surface is clearly laser etched which is wear-resisting and ensures a clear reading
- Used to measure angle of preparation(0 to 60degree), excess weld metal (capping size), depth of undercut, fillet weld throat size, fillet leg length, misalignment (high-low), and linear measurements up to 50mm(2 inches)
- Stain chrome finish surface

Unit:mm

Code	Measurement	Range	Graduation	Accuracy
8511-0030	Crown height	0-25(0-1")	1(1/16")	±0.5
	fillet weld leg height	0-25(0-1")	1(1/16")	±0.5
	misalignment(high-low)	0-25(0-1")	1(1/16")	±0.5
	undercut depth	0-2(0-1/8")	1(1/16")	±0.5
	fillet weld throat size	0-20(0-3/4")	1(1/16")	±0.5
	angle of preparation	0-60°	5°	±1°
	Length	0-60(0-2")	1(1/16")	±0.5

## WELDING GAUGE

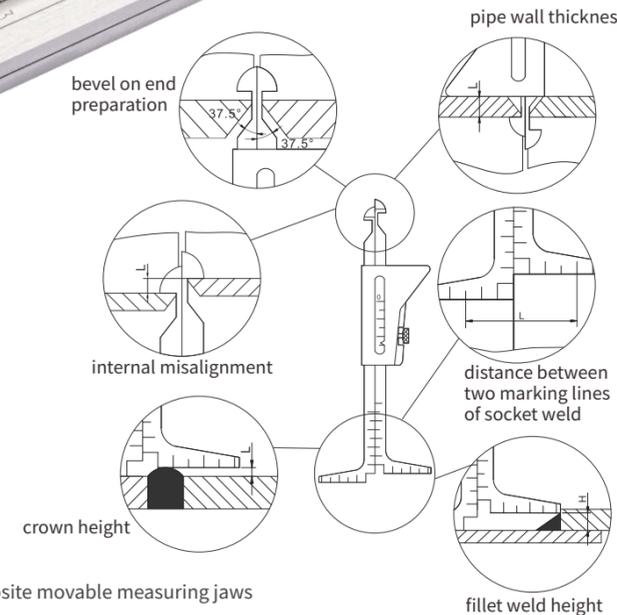
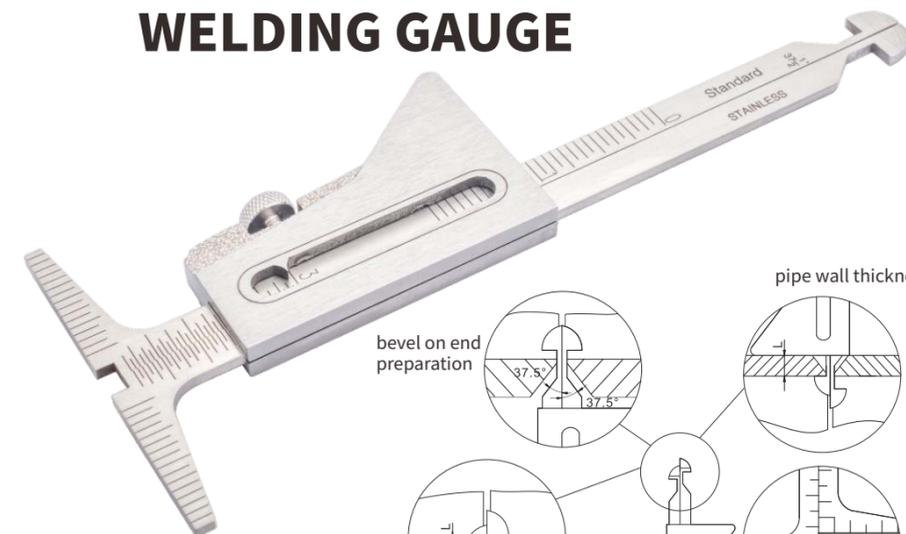


- For accurate calibration of butt and fillet type welds
- Used to measure reinforcement, fillet convexity / concavity throat and leg length
- Made of stainless steel, hardened and ground
- Stain chrome finish surface

Unit:mm

Code	Measurement	Range	Graduation	Accuracy
8511-0020	fillet weld size	0-20	1	±0.5
	weld bead height	0-3	-	±0.5
	Effective welding size of convex weld	0-20	1	±0.5
	Effective welding size of concave weld	0-20	1	±0.5

## WELDING GAUGE

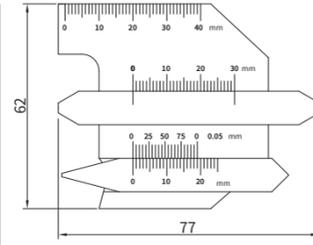
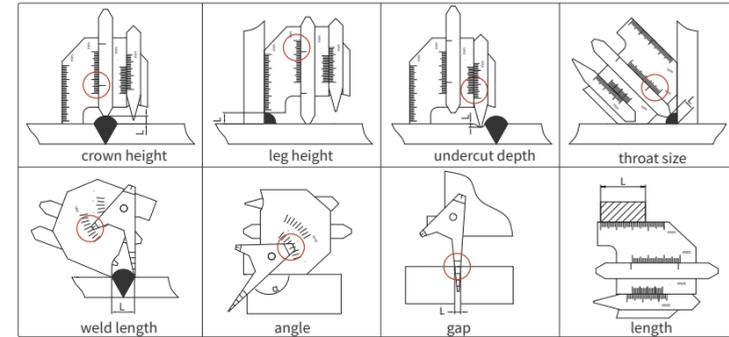


- With opposite movable measuring jaws
- For pipe welds up to 35 mm wall thickness
- Measure internal misalignment of pipe before and after tacking
- Measure internal alignment of pipe after fit-up alignment, cuts radiographic rejects
- Made of stainless steel, hardened and ground, polished surfaces
- With reading window, with fixing screw

Unit:mm

Code	Measurement	Range	Graduation	Accuracy
8511-0025	bevel on end preparation	37.5°	-	±1°
	pipe wall thickness	0-45(0-1-3/4")	1(1/16")	±0.5
	internal misalignment	0-30(0-1-1/4")	1(1/32")	±0.5
	crown height	0-35(0-1-3/8")	1(1/32")	±0.5
	distance between two marking lines of socket weld	11-61(7/16"-2-13/32")	1(1/16")	±0.5
	fillet weld height	0-30(0-1-1/4")	1(1/32")	±0.5

## WELDING GAUGE



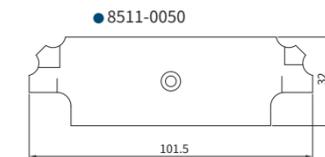
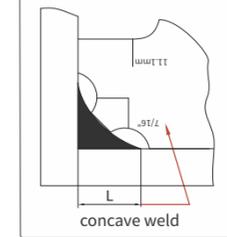
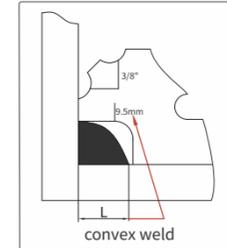
- Used for the measurement of the bevel angle, height, width, gap and undercut depth of weld
- Suitable for the detection of boilers, bridges, ships, pressure vessels and oil pipes
- The gauge consists of four components: main scale, height gauge, undercut depth gauge and multiple-purpose gauge
- Made of stainless steel, hardened and ground
- Stain chrome finish surface

Unit:mm

Code	Measurement	Range	Graduation	Accuracy
8511-0035	crown height	0 - 10	1	±0.5
	leg height	0 - 15	1	±0.5
	undercut depth	0 - 5	0.05	±0.05
	throat size	0 - 13	1	±0.5
	weld length	0 - 40	1	±1
	angle	90° - 150°	5°	±1°
	gap	1 - 5	2	±1
	length	0 - 40	1	±0.5
8511-0040	crown height	0 - 10	1	±0.5
	leg height	0 - 15	1	±0.5
	undercut depth	0 - 5	0.05	±0.05
	throat size	0 - 13	1	±0.5
	weld length	0 - 40	1	±1
	angle	90° - 150°	5°	±1°
	gap	1 - 5	2	±1
	length	0 - 40	1	±0.5
8511-0041	crown height	0 - 15	1	±0.5
	leg height	0 - 15	1	±0.5
	undercut depth	0 - 5	0.05	±0.05
	throat size	0 - 13	1	±0.5
	weld length	0 - 60	1	±1
	angle	80° - 160°	5°	±1°
	gap	1 - 5	2	±1
	length	0 - 50	1	±0.5



## FILLET WELDING GAUGE



- Permits quick and accurate measuring of the most popular weld fillet sizes in imperial: 1/8"-1" and metric: 3.2mm-25.4mm
- All sizes and numbers are etched into the surface for clear and easier reading
- Check convex & concave weld
- 7 blades are included
- Made of stainless steel
- Stain chrome finish surface

Unit:mm

Code	Size	Accuracy
8511-0045	3,4,5,6,8,9,10,11,12,14,16,19,22,25	±0.05mm
8511-0050	1/8"(3.2),3/16"(4.8),1/4"(6.4)	±0.02"(0.5)
	5/16"(7.9),3/8"(9.5),7/16"(11.1)	
	1/2"(12.7),5/8"(15.9),3/4"(19.1),7/8"(22.2),1"(25.4)	

# COMBINATION KITS

BORN IN ITALY, RAISED BY THE WORLD

## 2PCS GENERAL PURPOSE MEASURING SET



- Product list:
- 1804-1065 Big Screen Digital Caliper
  - 4210-2105 Digital Outside Micrometer

Unit:mm				
Code	Covering	Range	Resolution	Accuracy
2210-8202	1804-1065	150/0-6"	0.01/0.0005"	0.02/0.001"
	4210-2105	25/0-1"	0.001/0.00005"	0.003/0.00015"

## 4PCS GENERAL PURPOSE MEASURING SET



- Product list:
- 1120-3115 Monoblock Vernier Caliper
  - 4111-8105 Outside Micrometer
  - 9111-1115 90°Beveled Edge Square
  - 9000-3100 Steel Ruler

Unit:mm				
Code	Covering	Range	Graduation	Accuracy
2210-8203	1120-3115	0-150/0-6"	0.05/1/128"	0.05
	4111-8105	0-25/0-1"	0.01	0.004
	9111-1115	90°	/	0.007
	9000-3100	0-150/0-6"	0.5/1.0/1/64"/1/32"/1/16"	/

## 4PCS GENERAL PURPOSE MEASURING SET



- Product list:
- Big Screen Digital Caliper
  - Outside Micrometer
  - 90°Beveled Edge Square
  - Steel Ruler



Unit:mm				
Code	Covering	Range	Graduation/Resolution	Accuracy
2210-8206	1804-1065	0-150/0-6"	0.01/0.005"	0.02/0.001"
	4111-8105	0-25	0.01	0.004
	9111-1115	90°	/	0.007
	9000-3100	0-150/0-6"	0.5/1.0/1/64"/1/32"/1/16"	/

## 4PCS GENERAL PURPOSE MEASURING SET



- Product list:
- 1804-1065 Big Screen Digital Caliper
  - 4111-8105 Outside Micrometer
  - 9111-1115 90°Beveled Edge Square
  - 9000-3100 Steel Ruler

Unit:mm				
Code	Covering	Range	Graduation/Resolution	Accuracy
2210-8204	1804-1065	0-150/0-6"	0.01/0.005"	0.02/0.001"
	4111-8105	0-25	0.01	0.004
	9111-1115	90°	/	0.007
	9000-3100	0-150/0-6"	0.5/1.0/1/64"/1/32"/1/16"	/

## 7PCS GENERAL PURPOSE MEASURING SET

### DIGITAL PRO SET METRIC

Product list:

- 7121-0025 Power Magnetic base 80kg magnetic force
- 2015-2405 IP67 OIL Proof Digital Caliper 0-150mm/6"
- 4410-1105 IP65 Digital Outside Micrometer 0-25mm/1"
- 9000-3120 Steel Rulers 150mm/6"
- 3001-1001 Depth Base Attachment
- 5221-1129 Dial Test Indicator 0.8mm\*0.01mm
- 8407-2005 Ultra-Precision 25/50/75mm Blocks

Unit:mm

Code	Covering	Range	Graduation/Resolution	Accuracy
	7121-0025	80kg	/	/
	2015-2405	0-150mm/6"	0.01/0.0005"/1/128 "	0.02/0.001"
	4410-1105	0-25mm/1"	0.001/0.00005"	0.003/0.00015"
2210-8225	9000-3120	150mm/6"	0.5/1.0/1/64 "/1/32 "/1/16 "	/
	3001-1001	/	/	/
	5221-1129	0.8mm/0.01mm	0.01mm	/
	8407-2005	/	/	/

### DIGITAL PRO SET INCH

Product list:

- 7121-0025 Power Magnetic base 80kg magnetic force
- 2015-2405 IP67 OIL Proof Digital Caliper 0-150mm/6"
- 4410-2405 Inch Graduation IP65 Digital Outside Micrometer 0-25mm/1"
- 9000-3120 Steel Rulers
- 3001-1001 Depth Base Attachment 0-0.03"\*0.0005"
- 5610-0162 Dial Test Indicator 0-0.03"\*0.0005"
- 8407-0005 Ultra-Precision 1-2-3 Blocks

Unit:inch

Code	Covering	Range	Graduation/Resolution	Accuracy
	7121-0025	80kg	/	/
	2015-2405	0-150mm/6"	0.01/0.0005"/1/128 "	0.02/0.001"
	4410-2405	0-25mm/1"	0.001/0.00005"	0.003/0.00015"
2210-8250	9000-3120	150mm/6"	0.5/1.0/1/64 "/1/32 "/1/16 "	/
	3001-1001	/	/	/
	5610-0162	0-0.03"*0.0005"	0.0005"	/
	8407-0005	/	/	/

### DIGITAL NORMAL SET INCH

Product list:

- 7123-1004 Magnetic Base with Fine Adjustment 60KG
- 1804-1065 Digital Caliper 0-150mm/6"
- 4230-2005 Digital Outside Micrometer 0-25mm/1"
- 9000-3120 Steel Rulers 150mm/6"
- 3001-1001 Depth Base Attachment
- 5610-0162 Dial Test Indicator 0-0.03"\*0.0005"
- 8407-0010 Precision 1-2-3 Blocks

Unit:mm

Code	Covering	Range	Graduation/Resolution	Accuracy
	7123-1004	60KG	/	/
	1804-1065	0-150mm/6"	0.01/0.0005"/1/128 "	0.02/0.001"
	4230-2005	0-25mm/1"	0.001/0.00005"	0.003/0.00015"
2210-8230	9000-3120	150mm/6"	0.5/1.0/1/64 "/1/32 "/1/16 "	/
	3001-1001	/	/	/
	5610-0162	0-0.03"*0.0005"	0.0005"	/
	8407-0010	/	/	/

### DIGITAL NORMAL SET METRIC

Product list:

- 7122-0004 Magnetic Base with Fine Adjustment 60kg
- 1804-1065 Digital Caliper 0-150mm/6"
- 4230-2005 Digital Outside Micrometer 0-25mm/1"
- 9000-3120 Steel Rulers 150mm/6"
- 3001-1001 Depth Base Attachment
- 5221-0005 Dial Test Indicators 0.8\*0.01mm
- 5121-1205 Shock Resistant Dial Indicator 0-10mm\*0.01mm

Unit:inch

Code	Covering	Range	Graduation/Resolution	Accuracy
	7122-0004	60kg	/	/
	1804-1065	0-150mm/6"	0.01/0.0005"/1/128 "	0.02/0.001"
	4230-2005	0-25mm/1"	0.001/0.00005"	0.003/0.00015"
2210-8240	9000-3120	150mm/6"	0.5/1.0/1/64 "/1/32 "/1/16 "	/
	3001-1001	/	/	/
	5221-0005	0.8mm/0.01mm	0.01mm	/
	5121-1205	/	0.01mm	/

### VERNIER SET METRIC

Product list:

- 7122-0004 Magnetic Base with Fine Adjustment 60kg
- 1120-3115 Monoblock Vernier Caliper 0-150mm/0-6"\*0.05mm/1/128"
- 4111-8105 Outside Micrometer 0-25mm\*0.01mm
- 9000-3120 Steel Rulers 150mm/6"
- 3001-1001 Depth Base Attachment
- 5221-0005 Dial Test Indicators 0.8\*0.01mm
- 5121-1205 Shock Resistant Dial Indicator 0-10mm\*0.01mm

Unit:mm

Code	Covering	Range	Graduation/Resolution	Accuracy
	7122-0004	60kg	/	/
	1120-3115	0-150mm/0-6"*0.05mm/ 1/128"	0.01/0.0005"/1/128 "	0.05/0.002"
	4111-8105	0-25mm/0.01"	0.01	0.004/0.00015"
2210-8245	9000-3120	150mm/6"	0.5/1.0/1/64 "/1/32 "/1/16 "	/
	3001-1001	/	0.01	/
	5221-0005	0.8*0.01mm	0.01	/
	5121-1205	0-10mm*0.01mm	/	/

### VERNIER SET INCH

Product list:

- 7123-1004 Magnetic Base with Fine Adjustment 60kg
- 1120-3115 Monoblock Vernier Caliper 0-150mm/0-6"\*0.05mm/1/128"
- 4111-8105 Outside Micrometer 0-25mm\*0.01mm
- 9000-3120 Steel Rulers 150mm/6"
- 3001-1001 Depth Base Attachment
- 5610-0162 Dial Test Indicator 0-0.03"\*0.0005"
- 8407-0010 Precision 1-2-3 Blocks

Unit:inch

Code	Covering	Range	Graduation/Resolution	Accuracy
	7123-1004	60kg	/	/
	1120-3115	0-150mm/0-6"*0.05mm/ 1/128"	0.05"/1/128 "	0.02/0.001"
	4111-8105	0-25mm/0.01"	0.001/0.00005"	0.003/0.00015"
2210-8235	9000-3120	150mm/6"	0.5/1.0/1/64 "/1/32 "/1/16 "	/
	3001-1001	/	/	/
	5610-0162	0-0.03"*0.0005"	0.0005"	/
	8407-0010	/	/	/

## Measuring Set for Metal Machining



## FLEX CHROME MAGNETIC BASE WITH DIAL INDICATOR SET



- Product list:
- 7611-1015 Flex chrome magnetic base
- Dial Indicator(5111-0000 Metric;5122-4210 Inch)
- 5111-1010 magnetic lug back

Unit:mm

Code	Difference	Range	Graduation	Holding power
7611-2005	Inch indicator	0-1"	0.001"	60KG
7611-1005	Metric indicator	0-10	0.01	60KG

## FLEX CHROME MAGNETIC BASE WITH DIAL INDICATOR SET



- Product list:
- 7611-1015 Flex chrome magnetic base
- 5111-1010 magnetic lug back
- 5340-8110 Absolute Digital Indicator

Unit:mm

Code	Range	Resolution	Holding Power
7611-0010	0-1"/0-25	0.0005"/0.01	60KG

## MAGNETIC BASE WITH DIAL INDICATOR SET



- Product list:
- Optional dial Indicator
- Optional magnetic base

Unit:mm

Code	Range	Dial indicator code	Magnetic base code	Class
7611-1012	0-10	5111-0000	7122-0004	Normal Metric
7611-1013	0-10	5111-0000	7312-0010	Classic Metric
7611-1010	0-10	5121-1106	7312-0010	Pro Metric
7611-2010	0-1"	5122-4212	7123-1004	Normal inch
7611-1011	0-1"	5122-4212	7121-0016	Classic inch

## DISC AND ROTOR FLEX CHROME KITS SET



- Product list:
- 7611-0035 Flex chrome shank
- Dial Indicator  
5122-4210 inch version  
5111-0000 metric version

Unit:mm

Code	Range	Graduation
7611-0026	0-1"	0.001"
7611-0031	0-10	0.01

## 6PCS GENERAL PURPOSE MEASURING SET



- Product list:**
- 1804-1065 Digital Caliper 0-150mm/0-6"
  - 4111-8105 Outside Micrometer 0-25mm\*0.01mm
  - 5111-0000 Dial indicator 0-10mm\*0.01mm, Flat back
  - 9111-1115 90° Beveled Edge Square 100\*70mm, DIN875/0
  - 2875-4005 Scriber of 175mm with 90° hook
  - 9000-3100 Ruler 0-150mm/6"\*0.5mm/1.0mm/1/64"/1/32"/1/16" graduation on front and back

Code	Covering	Range	Graduation	Accuracy
2210-8210	1804-1065	0-150/0-6"	0.01/0.0005"	0.02/0.001"
	4111-8105	0-25/0-1"	0.01	0.004
	5111-0000	0-10	0.01	0.017
	9111-1115	90°	/	0.007
	2875-4005	/	/	/
	9000-3100	0-150/0-6"	0.5/1.0/1/64"/1/32"/1/16"	/

## 9PCS GENERAL PURPOSE MEASURING SET



- Product list:**
- 1804-1065 Digital Caliper 0-150mm/0-6"
  - 4111-8105 Outside Micrometer 0-25mm\*0.01mm
  - 1012-1005 Protractor 80\*120mm, open Head
  - 1501-1024 24pcs Screw pitch gauge 0.25- 7.0mm .Thread Angle: 60°
  - 1351-0005 Radius gauge 1.0-7.0mm, 17 blades
  - 1820-0100 20pcs Feeler Gauge 100mm\*(0.05-1.0mm)
  - 9111-1115 90° Beveled Edge Square 100\*70mm, DIN875/0
  - 2875-4005 Scriber of 175mm with 90° hook
  - 9000-3100 Ruler 0-150mm/6"\*0.5mm/1.0mm/1/64"/1/32"/1/16" graduation on front and back

Code	Covering	Range	Graduation	Accuracy
2210-8215	1804-1065	0-150/0-6"	0.01/0.0005"	0.02/0.001"
	4111-8105	0-25/0-1"	0.01	0.004
	1012-1005	0-180°	1°	±10'
	1501-1024	0.25-7(Metric 60°)	/	/
	1351-0005	1.0-7.0	/	/
	1820-0100	0.05-1.0(20pcs)	/	/
	9111-1115	90°	/	0.007
	2875-4005	/	/	/
	9000-3100	0-150/0-6"	0.5/1.0/1/64"/1/32"/1/16"	/

## 5PCS GENERAL PURPOSE MEASURING SET



- Product list:**
- 1804-1065 Digital Caliper 0-150mm/0-6"
  - 4111-8105 Outside Micrometer 0-25mm\*0.01mm
  - 5111-0000 Dial indicator 0-10mm\*0.01mm, Flat back
  - 7122-0004 Magnetic Base with Fine Adjustment 60KG
  - 7111-1110 Micrometer Stand

Code	Covering	Range	Graduation	Accuracy
2210-8220	1804-1065	0-150/0-6"	0.01/0.0005"	0.02/0.001"
	4111-8105	0-25/0-1"	0.01	0.004
	5111-0000	0-10	0.01	0.017
	7122-0004	/	/	/
	7111-1110	up to 100/4"	/	/

## 12PCS GENERAL PURPOSE MEASURING SET



- Product list:**
- 1804-1065 Digital Caliper 0-150mm/0-6"
  - 4111-8105 Outside Micrometer 0-25mm\*0.01mm
  - 5111-0000 Dial indicator 0-10mm\*0.01mm, Flat back
  - 7122-0004 Magnetic Base with Fine Adjustment 60KG
  - 1012-1005 Protractor 80\*120mm, open Head
  - 1501-1024 24pcs Screw pitch gauge 0.25- 7.0mm .Thread Angle: 60°
  - 1351-0005 Radius gauge 1.0-7.0mm, 17 blades
  - 1820-0100 20pcs Feeler Gauge 100mm\*(0.05-1.0mm)
  - 9111-1115 90° Beveled Edge Square 100\*70mm, DIN875/0
  - 2875-4005 Scriber of 175mm with 90° hook
  - 9000-3100 Ruler 0-150mm/6"\*0.5mm/1.0mm/1/64"/1/32"/1/16" graduation on front and back
  - 3001-1001 Base Attachment for Caliper

Code	Covering	Range	Graduation	Accuracy
2210-8205	1804-1065	0-150/0-6"	0.01/0.0005"	0.02/0.001"
	4111-8105	0-25/0-1"	0.01	0.004
	5111-0000	0-10	0.01	0.017
	7122-0004	/	/	/
	1012-1005	0-180°	1°	±10'
	1501-1024	0.25-7(Metric 60°)	/	/
	1351-0005	1.0-7.0	/	/
	1820-0100	0.05-1.0(20pcs)	/	/
	9111-1115	90°	/	0.007
	2875-4005	/	/	/
	9000-3100	0-150/0-6"	0.5/1.0/1/64"/1/32"/1/16"	/
	3001-1001	/	/	/

## 7 PIECES WELDING GAUGE SET



**DIGITAL PRO SET METRIC**  
Product list:

- 4111-8105 Outside Micrometer, Range\*Graduation: 0-25mm\*0.01mm
- 8511-0025 Welding Gauge
- 8511-0035 Welding Gauge with screw locking, size L\*W=62\*77mm
- 1005-0070 Weld Seam Gauge
- 9000-0150 Steel Ruler 150mm/6"
- 3026-1000 Magnifier with 4 lights, Bifocal, Magnification: 2X,6X
- 3026-2000 LED Telescoping inspection mirror, length 280-870mm

Unit:mm

Code 8511- 0091

## 10 PIECES WELDING GAUGE SET



**DIGITAL PRO SET METRIC**  
Product list:

- 4111-8105 Outside Micrometer 0-25mm\*0.01mm
- 8511-0025 Welding Gauge
- 8511-0035 Welding Gauge with screw locking, size L\*W=62\*77mm
- 1005-0070 Weld Seam Gauge
- 9000-0150 Stainless steel ruler 150mm
- 3026-1000 Magnifier 4 lights, Bifocal, Magnification: 2X,6X
- 3026-2000 LED Telescoping inspection mirror length 280-870mm, Mirror dia 80mm
- 9315-1115 90°Flat Edge Square 100\*70mm,DIN875/0
- 8531-0005 Weld Seam Gauge 20mm\*0.1mm
- 8511-0030 Bridge Cam Welding Gauge

Unit:mm

Code 8511- 0093

## 12 PIECES WELDING GAUGE SET



**DIGITAL PRO SET METRIC**  
Product list:

- 4111-8105 Outside Micrometer 0-25mm\*0.01mm
- 8511-0025 Welding Gauge
- 8511-0035 Welding Gauge with screw locking, size L\*W=62\*77mm
- 1005-0070 Weld Seam Gauge
- 9000-0150 Stainless steel ruler 150mm
- 3026-1000 Magnifier 4 lights, Bifocal, Magnification: 2X,6X
- 3026-2000 LED Telescoping inspection mirror length 280-870mm, Mirror dia 80mm
- 9315-1115 90°Flat Edge Square 100\*70mm,DIN875/0
- 8531-0005 Weld Seam Gauge 20mm\*0.1mm
- 8511-0030 Bridge Cam Welding Gauge
- 1120-3115 Vernier Caliper 0-150mm/0-6"\*0.05mm/ 1/128"
- 1813-0100 Feeler Gauge With 100mm Length 13pcs\*0.05-1.0mm (0.05-0.10-0.15-0.20-0.25-0.30-0.40-0.50-0.60-0.70-0.80-0.90-1.0)

Unit:mm

Code 8511- 0098

## 16PC WELDING GAUGE SET



**DIGITAL PRO SET METRIC**  
Product list:

- 8511-0041 Welding gauge
- 8511-0035 Welding gauge
- 8511-0015 Welding gauge
- 8511-0030 Bridge cam welding gauge
- 8511-0045 Fillet welding gauge
- 8511-0050 Fillet welding gauge
- 1005-0055 Pipe Pit Gage
- 1005-0060 Welding gauge
- 8521-0005 Taper gauge
- 8521-0010 Taper gauge
- 8521-0015 Taper gauge
- 1005-0025 Weld Seam Gauge
- 8511-0025 Hi-lo welding gauge
- 1005-0065 Weld Seam Gauge
- 1005-0070 Weld Seam Gauge
- 8511-0020 Welding gauge

Alu case x1



Unit:mm

Code 8511- 0070

# INSTRUMENT

BORN IN ITALY, RAISED BY THE WORLD

## SHORE DUROMETER



SHORE A

- Widely applied in the medium and low hardness plastic, all kinds of rubber, multidimensional fat, leather, wax hardness test and etc
- The product refers to ISO868 and the ISO7619 international standard production

Code	1804-1090
Type	Shore A
Measuring Range	0-100HA
Pressure Needle Range	2.5mm
Pressure Head Diameter	0.79mm
Outline Dimension	115*60*25mm



SHORE C

- Used in measuring the hardness of oak model micro porous material, which includes vesicant, when the compression ratio is 50%, the stress above 0.5kg/cm<sup>2</sup>
- It also can be used in other similar hardness materials

Code	1804-1095
Type	Shore C
Measuring Range	0-100HC
Pressure Needle Range	2.5mm
Pressure Head Diameter	2.5mm
Outline Dimension	115*60*25mm



SHORE D

- Suitable for hardness test of high degree, such as common hard rubber , hardened resin, acryl plexiglas, thermos plastic rubber, printing plate, fiber
- The product conforms to HG/2489 and other related standard request

Code	1804-1100
Type	ShoreD
Measuring Range	0-100HD
Pressure Needle Range	2.5mm
Pressure Head Diameter	0.1mm
Outline Dimension	115*60*25mm

## DIGITAL SHORE DUROMETER



- Testing the hardness of soft rubber, printer roller and other elastomer material
- Portable device, rugged plastic housing, front plate made of rugged polyamide
- Large LED display for clear and easy reading
- ON/OFF button and data hold button for one-hand-use

Code	1804-1035
Type	Shore A
Resolution	0.5HA
Measuring Range	0-100HA
Pressure Needle Range	2.5mm
Accuracy	2HA

- Testing the hardness of hard rubber, such as thermoplastic plastic, bowling, plastic floor and so on
- Portable device, rugged plastic housing, front plate made of rugged polyamide
- Large LED display for clear and easy reading
- ON/OFF button and data hold button for one-hand-use

Code	1804-1045
Type	Shore D
Resolution	0.5HD
Measuring Range	0-100HD
Pressure Needle Range	2.5mm
Accuracy	2HD

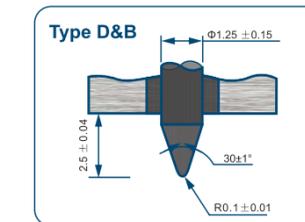
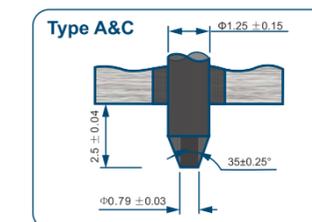
## DIGITAL DUROMETER



- This model is Suitable for measuring the hardness of rubber, plastic and other non-metallic materials. Calibration certificate Included
- With a large, easy-to-read LCD display with backlight. Conforms to ASTM D 2240, ISO7619-1, Wireless mini-printer is available
- Measurement data can be stored, browsing and batch printing, printing upload to PC
- Measurement mode: Averaging mode, Max Mode, Max-Average mode

Accuracy	≤ ± 1 H
Display:	128*64 dot matrix LCD with Backlight
Measuring Mode:	AVE, MAX, Timing
Power	Ni-MH Chargeable Battery
Dimensions	150X50.5X29mm
Resolution	0.1H
Memory	500 readings
Communication	USB to PC
Operating Environment	-10 to 40°C, 20 to 80%RH
Weight:	170g
Optional	mini printer, test stand, HAS test block, HSD test block

Code	Type	Intenter	Applications
1804-1008	A		Soft vulcanized rubber, natural rubber, nitriles, thermoplastic elastomers, flexible polyacrylics and thermosets, wax, felt, and leathers
1804-1009	C		Medium-hard rubber, thermoplastic elastomers, medium-hard plastics, and thermoplastics
1804-1007	D		Hard rubber, thermoplastic elastomers, harder plastics, and rigid thermoplastics

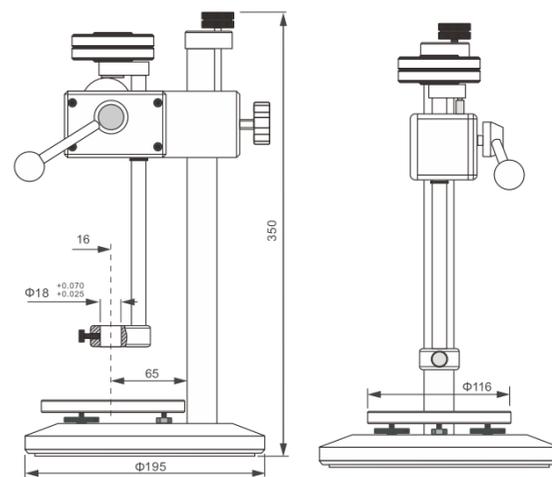


## DUROMETER OPERATING STAND

- For digital shore durometers
- Reduce the deviation caused by manual operation, improve the measurement accuracy and repeatability
- Special structure for stable measuring



Weights included



Code	1804-1061	1804-1085
Operating Type	Indentor to specimen	Indentor to specimen
Loading Method	Cam loading	Cam loading
Loading Stroke	18 mm	18 mm
Specimen Thickness	60 mm	60 mm
Throat Depth	65 mm	65 mm
Support Table (dia.)	φ116 mm	φ116 mm
Lifting Adjustment	Screw adjustment	Screw adjustment
Table Adjustment	Three-point leveling	Three-point leveling
Net Weight	5.6kg(excluding S weight)	5.6kg(excluding S weight)
Package Weight	7.6kg(excluding D weight)	7.6kg(excluding D weight)
Applicable durometer	Shore A,B,E,O,OO	Shore D,DC,DO

## ROCKWELL HARDNESS TESTER

This hardness tester is used for determining Rockwell hardness of hard alloys, quenched and unquenched steels.



Code	1804-3607
Maximum load	150 kg (1471N)
Load range	60 100 150kg(588.4N,980.7N,1471N)
Initial range load	10 kg (98.07N)
Maximum test height	170mm (6-3/4")
Depth of throat	130mm (5-1/4")
Maximum depth of spindle below base	50mm (2")
Size of base	240x465mm (7"-18")
Machine height	630mm (24-1/2")
Weight (approx)	75kg (200lbs)

STANDARD ACCESSORIES	
Large testing tableφ150m/m(5-3/4")	1
Small testing tableφ62m/m(2-3/8")	1
V-block anvilφ58(2-3/16")	1
Diamond penetrator 120°	1
Steel ball penetrator 1/16"	1
Replacement steel ball 1/16"	5
Rockwell A standard test block	1
Rockwell B standard test block	1
Rockwell C standard test block	1
Rockwell C standard test block	1
Screwdrivers	2
Level adjusting leg	3
Accessory box	1
Dustproof plastic cover	1
Operation manual	1

- The high quality casting and fine craftsmanship ensure accurate,consistent readings
- Manual testing process, no need for electric controlling

## ROCKWELL HARDNESS TESTER



Code	1804-3609
Rockwell scale	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Preliminary Test Force	10Kgf(98.07N) Permitted Error: ±2.0%
Total force	60Kgf(588.4N), 100Kgf(980.7N), 150Kgf(1471N) Permitted Error: ±1.0%
Duration time	Adjustable 1-60s
Hardness Indication	5.2" Touch Screen, Resolution:640x480
Resolution	0.1HR
Loading Control	Auto Loading/Dwell/Unloading
Hardness Conversion	HRC, HV, HBS, HBW, HK, HRA, HRD, HR15N, HRB, HR30N, HR45N, HS, HRF, HR15T, HR30T, HR45T, ASTM, DIN
Language Option	Chinese, English, German, Portuguese, Turkish, Czech, Korean
Correction Range	-3.0HR to +3.0HR, Step 0.1HR
Data Memory	2000 Single Measuring Result, Curve Analysis, Results Reviewing And Analysis
Data Output	Optional Blue Tooth Mini Printer
Instrument Throat	165mm
Maximum test height of Brinell and Vickers	175mm
Power supply	AC220V/50Hz;AC110V/60Hz
Dimension(LxWxH)	546x182x755mm
Gross/Net Weight	110Kg/90Kg

- Half automatic hardness tester except loading initial force and change force knob. Operation is very convenient and fast
- Color touch screen, displays loading force, indenter type, dwell time, and conversion scale
- Motorized control loading, dwell and unloading, eliminates error by manual operation
- Built-in micro processor auto compute max, min, mean and deviation value, resolution is 0.1HR, largely improve accuracy
- Auto hardness conversion to others scales, no need to check table and improve working efficiency
- Support Multiple languages, English, Turkish, German, etc. Convenient for local customers operation
- Save 2000 single testing results and 1000 group results for reviewing and analysis
- Optional blue tooth mini printer is available

## BRINELL/ROCKWELL/VICKERS HARDNESS TESTER

Electric Brinell/Rockwell/Vickers Hardness Tester is suitable for hardening steel, surface hardening steel, cemented carbide steel, cast iron, nonferrous metal, various quenched and tempered and annealed steel, hardened thin steel plate, soft metal, surface heat treatment and chemical heat treatment, etc. It is a common hardness testing machine for industrial and mining enterprises



- It has three test methods: Brinell, Rockwell and Vickers.
- Multi-purpose and multi-function hardness tester with Seven-level test force can meet the requirements of users for various hardness tests.
- Rockwell hardness reading dial pointer display, Brinell and Vickers look-up table
- Test force exertion, loading and unloading are automatically completed
- Wide range of application and easy operation

Code	1804-3610
Initial force	98.07N(10kg) Tolerance±2.0%
Total force	98.07N(10kg)~1839N(187.5kg) Tolerance: ±1.0%
Brinell test force	31.25kgf(306.5N), 62.5kgf(612.9N), 187.5kgf(1839N)
Brinell scale	HBW2.5/31.25, HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5
Specification of diamond indenter	Diamond Rockwell indenter and Diamond Vickers indenter
Specification of steel ball indenter	φ1.5875mm, φ2.5mm, φ5mm Steel ball indenter
Rockwell test force	60kgf(588N) 100kgf(980.7N) 150kgf(1471N)
Rockwell scale	HRA HRB HRC HRD HRE HRF HRG HRK HRH
Vickers test force	30kgf(294.2N) 100kgf(980.7N)
Vickers scale	HV30 HV100
Minimum unit of measurement	Brinell:0.004mm Vickers:0.002mm
Amplification of Microscope	37.5x, 75x
Rockwell maximum test height	260mm
Maximum test height of Brinell and Vickers	200mm
Duration time	2~60s
Rockwell hardness test range	20HR~100HR
Vickers hardness test range	8HV~2900HV
Brinell hardness test range	8HBW~650HBW
Power supply	AC220+5%, 50~60Hz
Shape size(mm)	540×230×820mm
Host weight	80kg

Standard delivery	
Rockwell indenter	1
Vickers indenter	1
Measuring microscope	1
Hardness block	5
Power cord	1
Objective lense	2
φ1.5875, 2.5, 5mmCemented carbide ball	One of each
Fuse 2A	2
Floodlight	1
Large, medium and V-shaped test-platform	one of each
Sliding test bench	1
Product Description	1

# DIGITAL BRINELL/ROCKWELL/VICKERS HARDNESS TESTER

Digital Brinell/Vickers/Rockwell Hardness Tester applies to hardened steel, surface-hardened steel, hard alloy steel, cast iron, nonferrous metal, various tempering steel, hardened thin steel, and even including softer metal, surface-heat-treatment metal, chemical-heat-treatment metal etc, commonly used in industrial mining enterprises and scientific research institutions.



- Three measuring modes: Brinell/Rockwell/Vickers
- A multipurpose and multifunctional hardness with seven grade load can meet the requirements of various hardness measuring
- Digital readout of Brinell/Rockwell/Vickers hardness on LCD
- Automatic loading, load holding and unloading
- Wide range of use and easy operation

Code	1804-3611
Preload	98.07N(10kg)
Load	98.07N(10kg)~1839N(187.5kg)
Brinell load	31.25kgf(306.5N), 62.5kgf(612.9N), 187.5kgf(1839N)
Brinell scale	HBW2.5/31.25, HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5
Diamond indenter	Diamond Rockwell indenter, Diamond Vickers indenter
Ball indenter size	φ1.5875mm, φ2.5mm, φ5mm
Rockwell load	60kgf(588N) 100kgf(980.7N) 150kgf(1471N)
Rockwell scale	HRA HRB HRC HRD HRE HRF HRG HRK H RH
Vickers load	30kgf(294.2N) 100kgf(980.7N)
Vickers scale	HV30 HV100
Minimum	Brinell:0.004mm Vickers:0.002mm
Magnification	37.5x, 75x
Rockwell max test height	260mm
Brinell/Vickers max test height	200mm
Load holding time	2~60s
Rockwell hardness range	20HR~100HR Accuracy: ±0.1HR, repeatability: 0.5HR
Vickers hardness range	8HV~2900HV Accuracy(δ/%) : ±2, repeatability(Hcf/%) : ≤2.5
Brinell hardness range	8HBW~650HBW Accuracy(δ/%) : ±2.5, repeatability(Hcf/%) : ≤3.0
Power supply	AC220+5%, 50~60Hz
Outline size(mm)	540×230×820mm(720*500*1020)
Total weight	125kg

Standard delivery	
Diamond Rockwell indenter	1
Diamond Vickers indenter	1
Microscope	1
Hardness block	5
Power cord	1
Objective lens	2
φ1.5875, 2.5, 5mm carbide steel ball	3
Fuse 2A	2
Light	1
Large, Mid, V-shaped bench	3
Slip bench	1
Product manual	1

# MOTORIZED DIGITAL ROCKWELL/SUPERFICIAL ROCKWELL HARDNESS TESTERS

DATA OUTPUT FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)

**LCD touch screen**

- operator
- workpiece name
- workpiece radius
- scale
- dwell time
- testing value
- data and time
- low and high limits
- conversion
- calibration
- start
- return

**indenter stage**

**handlewheel**

**indenter protection cover**

**USB flash disk (included)**

**Automatic Testing**

Automatic testing, the preliminary and main test force are loaded automatically.

- Automatic testing, the preliminary and main test force are loaded automatically
- LCD touch screen, easy operation
- Convert to other Rockwell scales, HV or HB automatically
- Tolerance testing
- Insert USB flash disk, save the testing results as Excel
- Self-correcting the hardness value for curved workpieces
- Force loading by electric motor (without weights)
- The test force is selected automatically according to hardness scale
- According to ISO 6508

## SPECIFICATION

Code	1807-1000	1804-1005	1807-1010
Type	Rockwell	Superficial Rockwell	Rockwell and Superficial Rockwell
Hardness scale	with standard indenters	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
	with optional indenter	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
Preliminary test force	98N/10kgf for Rockwell	29.4N/3kgf for Superficial Rockwell	98N/10kgf for Rockwell 29.4N/3kgf for Superficial Rockwell
Test force	588N (60kg), 980N (100kg), 1471N (150kg)	147.1N (15kg), 294.2N (30kg), 441.3N (45kg)	147.1N (15kg), 294.2N (30kg), 441.3N (45kg), 588N (60kg), 980N (100kg), 1471N (150kg)
Stage elevation	manual		
Load control	automatic (load/dwell/unload)		
Load dwell time	0~60 second		
Resolution	0.1HR		
Output	USB		
Max. workpiece height	220mm		
Max. testing width	200mm (from the center of indenter to the wall of main body)		
Power supply	220V, 50/60Hz		
Dimension	510×260×780mm		
Weight	70kg		

## STANDARD DELIVERY

Code			
Main unit	1 pc	1 pc	1 pc
Ø63mm flat anvil	1 pc	1 pc	1 pc
Ø150mm flat anvil	1 pc	1 pc	1 pc
V-type anvil	1 pc	1 pc	1 pc
Diamond indenter	1 pc	1 pc	1 pc
Ø1.5875mm carbide ball indenter	1 pc	1 pc	1 pc
Hardness test block HRB88-95	1 pc	—	1 pc
Hardness test block HRC60-65	1 pc	—	1 pc
Hardness test block HRC20-30	1 pc	—	1 pc
Hardness test block 78-88HR15N	—	1 pc	1 pc
Hardness test block 55-73HR30N	—	1 pc	1 pc
Hardness test block 57-69HR30T	—	1 pc	1 pc
USB flash disk (8G)	1 pc	1 pc	1 pc
Level	1 pc	1 pc	1 pc
Touch pen	1 pc	1 pc	1 pc
Anti-dust cover	1 pc	1 pc	1 pc

# MOTORIZED DIGITAL BRINELL HARDNESS TESTERS

- Automatic testing automatic test force loading LCD touch screen, easy operation
- Measure indentation by measuring microscope then read the hardness value from LCD
- Tolerance testing
- Insert USB flash disk, save the test results as Excel
- Converted to HRA HRB HRC HRD HRF HV HB HR15N HR30N HR45N HR15T HR30T HR45T
- Force loading by electric motor, without weights
- According to Iso 6506

**LCD touch screen**

operator: Operator, Sample block, Range, Turret, Load&Dwell, Start, Hardness value, Conversion, reset

workpiece name, dwell time, diameter of indenter and test force, diameter of indentation, calibration



**step: 1**  
elevate the stage by hand to let the indenter approach the workpiece, press "start" to start testing automatically, the test force is loaded automatically

**step: 2**  
measuring microscope

**step: 3**  
read the hardness value from LCD

**AUTOMATIC TESTING, AUTOMATIC TEST FORCE LOADING** | **FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHT)**

**SPECIFICATION**

Code	1807-2000	1807-2005
Turret rotation	manual	automatic
Range	8~650HBW	
Reading mode	directly read from LCD	
Test force	62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf	
Max. workpiece height	200mm	
Max. testing width	155mm (from the center of indenter to the wall of main body)	
Stage elevation	manual	
Load control	automatic (load/dwell/unload)	
Load dwell time	5~60 second	
Measuring microscope	magnification	20X
	resolution	0.625µm
Power supply	220V, 50/60Hz	
Dimension	550x210x750mm	
Weight	110kg	

**STANDARD DELIVERY**

Main unit	1 pc
Ø80mm flat anvil	1 pc
Ø200mm flat anvil	1 pc
V-type anvil	1 pc
Ø2.5mm carbide ball indenter	1 pc
Ø5mm carbide ball indenter	1 pc
Ø10mm carbide ball indenter	1 pc
Hardness test block 150~250HBW2.5/187.5	1 pc
Hardness test block 75~125HBW10/1000	1 pc
Hardness test block 175~250HBW10/3000	1 pc
USB flash disk (8G)	1 pc
Touch pen	1 pc
Anti-dust cover	1 pc

**OPTIONAL ACCESSORY**

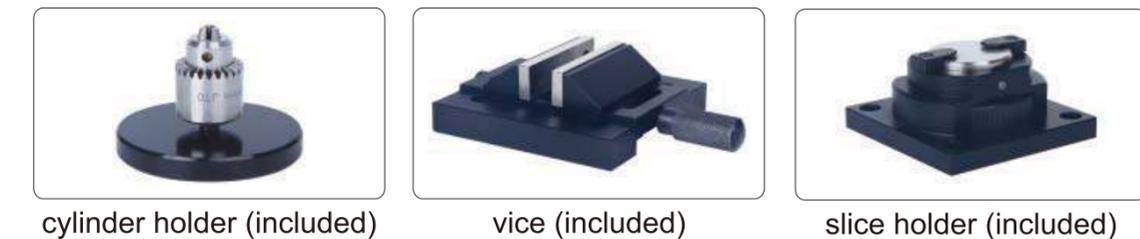
Hardness test block 200~300HBW2.5/187.5	
Hardness test block 90~200HBW10/1000	
Hardness test block 200~300HBW10/3000	
Brinell indentation measuring system	
Desk	

# DIGITAL MICRO-VICKERS HARDNESS TESTER (ADVANCED TYPE)

- Measure hardness of thin or small workpieces
- Based on Vickers (HV), can be converted to Rockwell (HRA HRB and HRC)
- According to ISO 6507

camera connector, eyepiece, image to eyepiece/camera switch, X-Y stage, printer, motor driven turret, 40X objective, indenter, 10X objective, indentation diagonals, hardness value (HV), test force, load dwell time, converted hardness value

**CODE: 1807-3000**



**SPECIFICATION**

Test force	0.01, 0.025, 0.05, 0.1, 0.2, 0.3, 0.5, 1kgf
Vickers scales	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Stage elevation	manual
Load control	automatic (load/dwell/unload)
Load dwell time	5~60 second (5 second increment)
Objective	10X, 40X
Eyepiece	15X
Total magnification	150X (for observation) 600X (for measurement)
Max. workpiece height	85mm
Max. testing width	85mm (from the center of indenter to the wall of main body)
X-Y stage	dimensions: 100×100mm travel range: 25×25mm graduation: 0.01mm
Data output	RS232C
Power supply	110/220V, 50Hz
Dimension	540x500x640mm
Weight	50kg

**STANDARD DELIVERY**

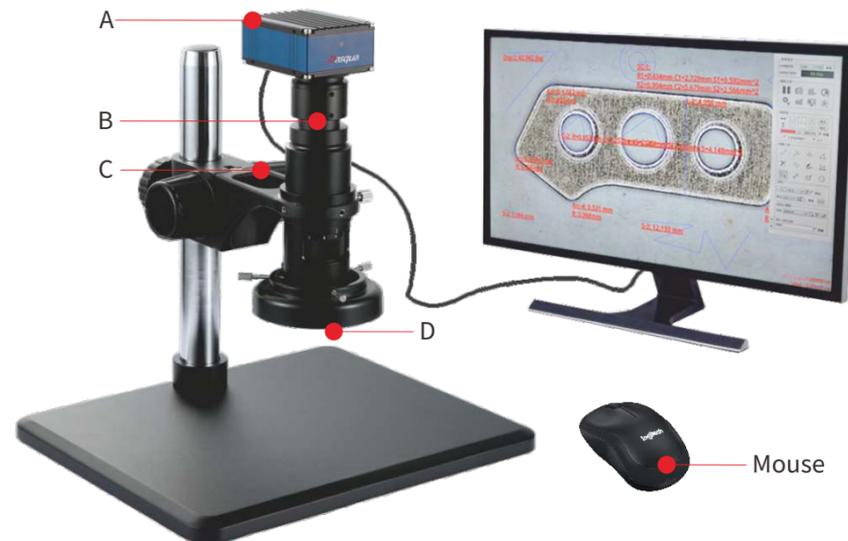
Main unit	1 pc
10X, 40X objective	1 pc of each
Micro Vickers indenter	1 pc
Hardness test block 400~500HV0.2	1 pc
Hardness test block 700~800HV1	1 pc
Slice holder	1 pc
Vice	1 pc
Cylinder holder	1 pc
Level	1 pc
Anti-dust cover	1 pc

**OPTIONAL ACCESSORY**

20X objective	
Hardness test block 400~500HV0.2	
Hardness test block 700~750HV1	
Measuring system	
Camera adapter	

## DIGITAL MICROSCOPE

- Automatic testing, the preliminary and main test force are loaded automatically
- The test force is selected automatically according to hardness scale
- Convert to other Rockwell scales, HV or HB automatically
- Self-correcting the hardness value for curved workpieces
- Insert USB flash disk, save the testing results as Excel
- Force loading by electric motor (without weights)
- Tolerance testing
- According to ISO 6508
- LCD touch screen, easy operation



A:USB port, HDMI port, Power



C:Fine focus knob



B:Step-zoom lens 0.7X-4.5X



D:72 LED adjustable light sources



Code	1804-7013		
Objective Specification	Objective magnification	0.7X-4.5X	
	CTV multiple	0.5X	
Camera Specification	Resolution	1920*1080	
	Dimension	80*60*42	
	Frame rate	60fps	
	Output	HDMI	
	Function	take picture/video, measuring, saving, sharpening, white balance, cross hair	
Light Source	72 LED adjustable light sources		
Display screen	22"HDTV (OPTIONAL)		
Frame	380x260mm, φ50mm		
	Focus range	42mm	
	Working distance	105mm	
	Center distance	140mm	
	Optical enlargement	0.35X-2.25X	
	Combined magnification	20X-136X	
Field of view	max 24mm*13mm min 3.5mm*1.9mm (Optional accessories to increase or decrease the field of view)		
Optional accessories	1804-7060	0.5xObjective	Magnification 13.3X~85.5X
	1804-7065	2xObjective	Magnification 53.2X~342X

## HIGH ACCURACY MANUAL VISION MEASURING MACHINE

### STANDARD DELIVERY:

Description	Description
Measuring Software	Operation Manual,Packing List
LED parallel contour illumination	Data Cable
Surface 4R/8D LED Illumination	Controller
Power Cable	0.5um Linear Scale
Click Zoom Lens	Calibration Block
1/2.9" Digital Camera	Video Cable
Anti-dust Cover	Fuse
3mm Hex Key Wrench	Warranty Card
Dongle	Product Certification

- High definitive detented zoom lens and high resolution digital camera, to ensure clear image without distortion
- High accuracy A grade optical linear scale with precision working stage, to ensure the accuracy is within 2.0+L/200um
- High precision marble base and pillar, to ensure high stability and accuracy
- High precision toothless rod and fast moving locking device, to ensure repeatability error less than 2um
- With programmable surface 4-ring 8-division LED Cold Illumination and contour LED parallel illumination and internal intelligent light adjustment,it can automatic control the brightness in the 4-ring 8-division
- Powerful function iMeasuring2.1 measuring software highly enhance the quality control situation

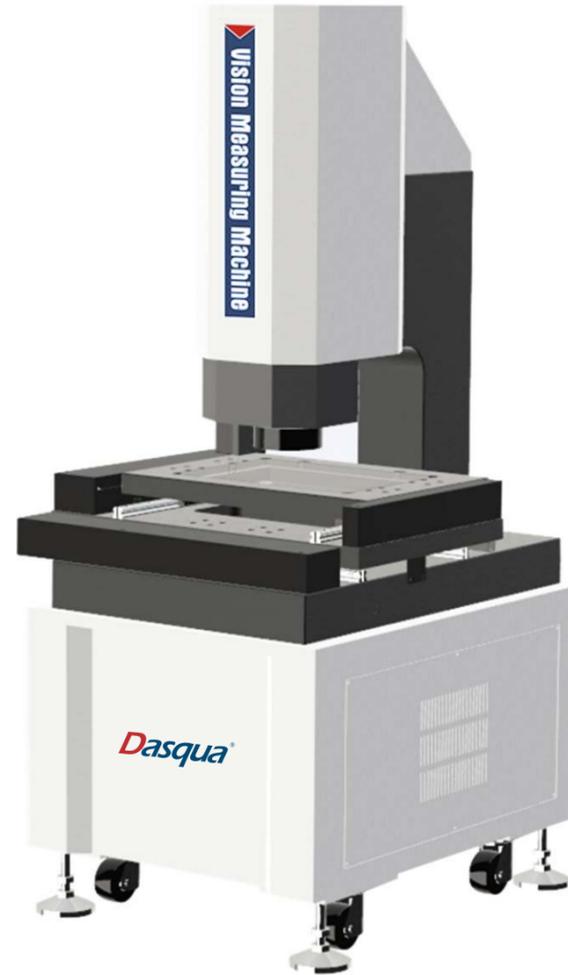
Code	1804-7007	1804-7008	1804-7009
X/Y-axis Travel	400x300mm	100x100mm	200x100mm
Z-axis Travel	High-precision linear guide , working travel 200mm		
X/Y/Z-axis Travel	0.5 um		
X/Y-axis Accuracy	≤2.0+L/200(um)		
Repeatability	±2um		
Base and Pillar	High Accuracy Marble		
Illumination System (Software Adjustment)	Surface: Stepless Adjustable 4-ring 8-division LED Cold Illumination		
	Contour: LED Parallel Illumination		
CCD Camera	High Resolution Digital Camera		
Zoom lens	6.5X High Resolution Detented Zoom Lens		
	Magnification:0.7X~4.5X;Video Magnification:26X~172X		
Working Environment	Temperature :20°C±1C, change range < 1C/hr		
	Humidity:30%~800RH		
Measuring Software	Vibration<0.002g,<15Hz		
	iMeasuring 2.1		
Operation System	Support XP, WIN7, WIN8.1, WIN 10, 32/64 operating system		
Language	English, Simplified Chinese, Traditional Chinese, other language versions can be added		
Net Weight	350Kg		



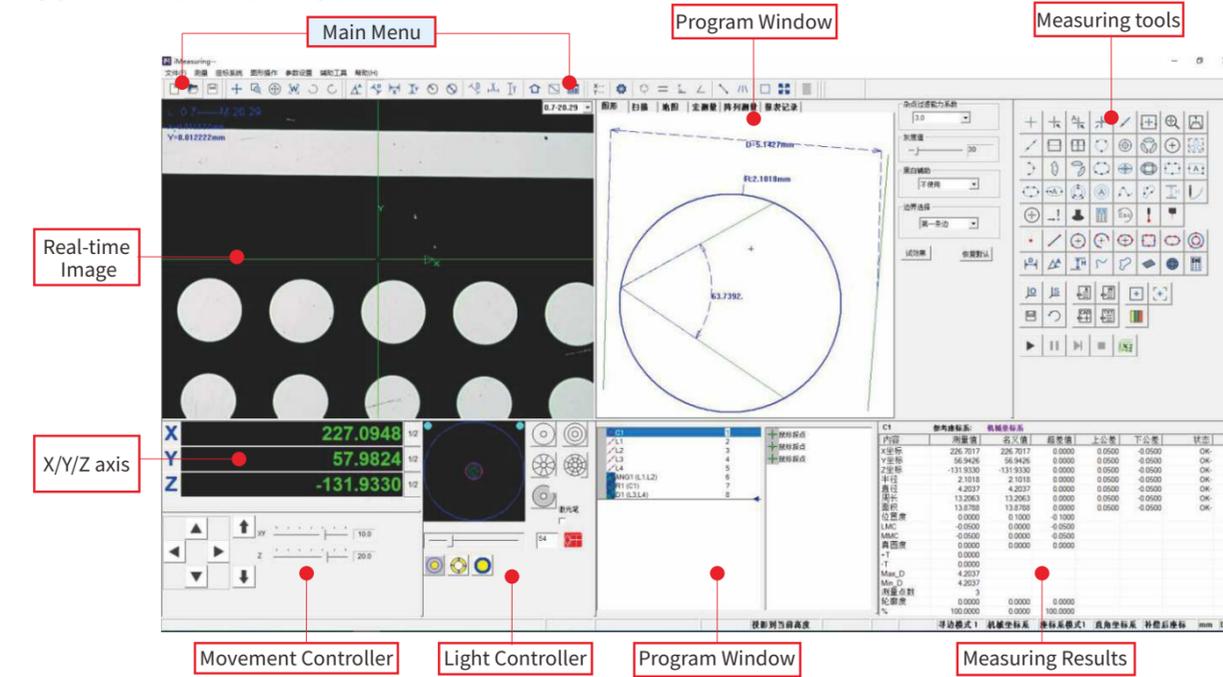
# HIGH ACCURACY AUTOMATIC VISION MEASURING MACHINE

- XYZ three-axis CNC automatic precision control, precise positioning
- Granite base and pillar, good stability
- Precision linear guides, grinding-grade ball screws and AC servo motors, etc., ensure the accuracy and stability of the motion system
- 0.5µm high-precision grating ruler to ensure the positioning accuracy and measurement accuracy of the system
- High-resolution digital camera to meet the needs of clear observation and precise measurement
- 6.5X high-definition optical lens, accurate zoom, one-time pixel correction
- Program-controlled 5-ring 8-area LED surface illumination and parallel LED contour illumination system intelligently realize 256-level brightness adjustment
- Vimeasoft series automatic Vision measurement software, powerful and easy to operate

Code	1804-7019	1804-7020	1804-7021	1804-7022	1804-7023
X/Y Axis Travel	220*120	300*200	400*300	500*400	600*500
Z Axis Travel	150mm	200			
X/Y/Z-3 Axis Linear Scale	Glass grating ruler, resolution: 0.5um				
Accuracy	XY Axis: ≤2.5+L/200(um) Z Axis: ≤5.0+L/200(um)				
Repeatability	2um				
Operation Mode	Joystick controller, Mouse operation, automatic detection program.				
Video System	1/2" CCD Digital Color Camera	1/3" High Resolution Digital Camera	1/2" High Resolution Digital Camera		
Operation System	6.5X Manual Zoom Lens, Optical Magnification:0.7X-4.5X, Video Magnification:26.6X~171X				
Power Supply	win7、win10、win11				
Load Capacity	20kg		25Kg~50Kg		
Dimension(WxDxH)	760*600*900	1132*720*1665	1280*840*1688	1257*920*1640	1600*1050*1650
Net Weight	146kg	380kg	450kg	600kg	1380kg
Note	L is measured length(mm), the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.Magnification is approximate value, it is related to the dimension of monitor and resolution.0.5X or 2X objective is optional available according to the needs				



## SOFTWARE INTERFACE



## MEASURING TOOLS INTRODUCTION:

To realize the measuring of point, line, circle, arc, ring, rectangle, ellipse, curve, etc.



Support measuring of multiple different points



Support multiple different curve, ring and slot measuring tools, also include vision measuring height, profile scanning



Support multiple different line and circle measuring tools



Support multiple different arc, ellipse and rectangle measuring tools



Construct measuring tools



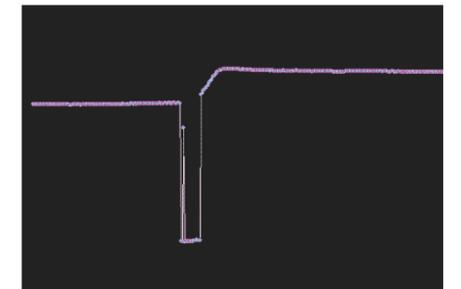
## PROBE

The software supports to add contact probe for 3d measuring



## LASER MEASURING

Powerful laser measurement function, easy to achieve high-speed measurement of flatness, subtle concave points, convex points, V-shaped angles and high-precision surface scanning, and objects that cannot be measured by probes



# AUTOMATIC FLASH IMAGE MEASURING EQUIPMENT

## HIGH EFFICIENT PRECISE SIMPLE FAST OUTPUT

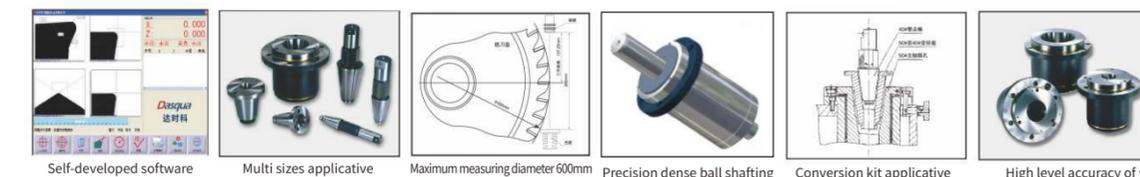
- Automatic focus adjustment: "automatic focus" can automatically adjust the z-axis height, so that the measured object is in a clear state
- Measurement at 99+ different characteristics of the workpiece at same time
- Measure 100+ workpiece at one time
- Automatic measurement: The self-developed automatic measurement operator realizes the simultaneous measurement of width, hole, ring, angle and other elements. It is easy to use and fast to measure
- Measurement results are automatically saved, export to statistical forms

Item no.		1805-2000	1805-2010
Measuring range(mm)	wide field	∅100×80	200×200
	small field	/	130×130
Accuracy (μm)	Without splicing	wide field	±3
		small field	±1
	With splicing	wide field	/
		small field	±(5+0.02L)
repeated accuracy (μm)	Without splicing	wide field	±1
		small field	/
	With splicing	wide field	/
		small field	±2
Travel(mm)		Z axis:75	X axis:120,Y axis:125,Z axis:75
Dimension of glass plate (mm)		150×150	249×229
Optical System	Lens	Φ100mm Bi-telecentric lens	Φ100mm Double field, Bi-telecentric lens
	Surface light (electric)	4-zone medium and low angle ring lighting (white light), ring(directional) lighting(green light)	4-zone medium and low angle ring lighting (white light), ring (directional) lighting (green light)
	Transmission light	Telecentric Parallel Illumination (Green Light)	Telecentric Parallel Illumination (Green Light)
Dimension (mm)		580×235×790	580×430×790
Weight (kg)		≈40	≈55
Capacity (kg)		5	
Measuring results		2D measurement	
Data output		Data transmission and statistics	
Power requirement		220V~, 50Hz, 600W	
Operating Environment		Temperature: +20±2°C, Humidity: 30%-80%, Vibration: <0.002g, <15Hz	
Standard Configuration		Optional Configuration	
Machines		Coaxial light	Network card
Computer		Pedal	CAD import function
encryption system		Data transmission software	MES transmission function
Software		Remote control function	Customization



# DIGITAL TOOL PRESETTER

- The guide rail of the instrument is a mixed structure of rolling and sliding (plastic paste). The X direction is a sliding (plastic-coated) guide rail with good rigidity and stable precision, driven by a ball screw. The Z direction is THK precision rolling guide imported from Japan. Flexible operation, high precision, long life, no crawling
- The Z direction of the instrument is equipped with a fast and micro-movement mechanism
- The tool locking adopts vacuum locking, which has strong versatility (The instrument comes with a vacuum pump)
- The instrument adopts CCD optical non-contact measurement system. The display part is a 17" color LCD screen
- The instrument is equipped with image processing software, which has the functions of automatic tracking and recognition of the full-screen winter shape of the cutting edge and automatic and accurate measurement of the radius and length of the cutting tool
- The instrument can automatically track and measure the angle and arc R of the tool
- The instrument has a center preset function, which can accurately adjust the boring and milling tools to the required size
- The instrument is equipped with a precision grating system, which has the functions of metric and imperial conversion and diameter and radius conversion
- The instrument is controlled by PC, which can exchange data with the host very well, and can store the information of 10,000 cutting tools
- The instrument can be equipped with a variety of general-purpose printers (optional).11. The instrument can choose ISO/BT50, 40, 30 HSK, VDI, and other spindle forms and can be equipped with various diameter reducing devices (optional)The instrument adopts a full-enclosed, electrostatically sprayed shell. Marble top, floor base. It is suitable for on-site use in modern large-scale workshops



Dasqua Code		1805-0000	1805-0005	1805-0010	1805-0015
Measuring Range	Radial (X) Measuring Range R	150(Φ300)	200(Φ400)	250(Φ500)	300(Φ600)
	Axial (Z) Measuring Range L	400	400	500	600
Resolution		0.001mm			
Display System	Objective Lens Magnification	2X			
	Total Magnification	70X			
	Display Screen	17" LCD			
	Light Source	LED cold light			
Spindle Parameters	Spindle Runout	Radial circular runout ≤ 5μm			
	Spindle Taper	7:24			
	Drive Mode	Manual			
Repeated Positioning	X	±0.002mm			
Accuracy	Y	±0.002mm			
Computer		Standard Configuration			
Instrument Dimensions: (LxWxH) mm		1150x650x1600	1150x650x1600	1300x650x1800	1300x650x1950



## DIGITAL TOOL PRESETTER

- Provide comprehensive tool measurement and detection functions, which can measure tool diameter, height, angle, runout, deviation calculation, straight line and vertical distance, edge shape difference, etc
- Can measure all kinds of boring cutters, milling cutters, non-standard customized tools, etc
- Adjustable column is used to facilitate the precision adjustment and restoration of the body and prolong the service life
- Mechanical drive design, no need air source, no consumable parts
- Universal computerized design, no need for professional motherboard, low maintenance cost
- The base and column are made of high-quality steel materials, which have the same thermal expansion coefficient as the guide rail material, and can be used directly in the workshop environment
- High-precision digital imaging system, 50 times magnification
- Key components such as the spindle, grating, imaging, and guide rails are designed with double seals
- Standard fine adjustment system for micron-level measurement
- Automatic tracking of dynamic crosshairs, automatic recognition of blade shape, graphical interface, one-button measurement
- Multiple languages are available

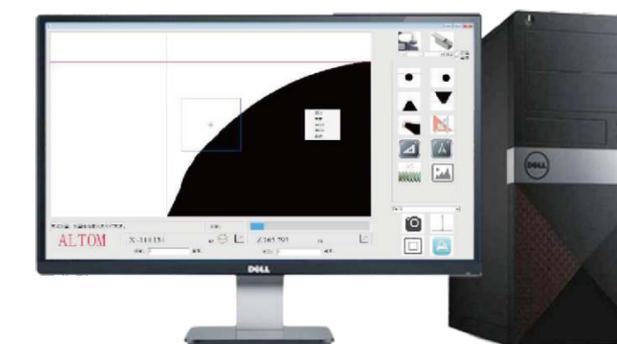
Code	1805-0020	1805-3000	1805-3005	1805-3010	1805-3015	1805-3020	1805-3025	1805-3030	
Measuring Range	X Axis (mm)	300	300	400	400	400	500	500	600
	Z Axis (mm)	400	500	500	600	700	600	700	700
Spindle Holder	ISO50、ISO40 (optional)								
Spindle accuracy	0.001mm								
Bearing weight of spindle	100KG								
Accuracy of displaying	1um								
Negative direction through spindle center	50mm								
Fine adjustment magnifications	Wireless fine adjustment system for micron-level measurement 50times								
Drive model	Manual both X and Y axis								
Display system	Digital Industrial Imaging System USB High Speed Connection								
Weight	Above 100KG (different depends on different sizes)								
Dimension	900mm×400mm×1000mm (different depends on different sizes)								
Power supply	220V±10% AC 50Hz								
Applicable Temperature	-10°C~50°C								
Applicable Humidity	<90%								
Computer	4G memory, 3.0G dual-core, 500G hard disk Windows system, 6 USB ports, RS232 port.								
Display	21 Inch LCD screen								



## AUTOMATIC DIGITAL TOOL PRESETTER

- Provide comprehensive tool measurement and detection functions, which can measure tool diameter, height, angle, runout, deviation calculation, straight line and vertical distance, edge shape difference, etc
- Can measure all kinds of boring cutters, milling cutters, non-standard customized tools, etc
- Adjustable column is used to facilitate the precision adjustment and restoration of the body and prolong the service life
- Mechanical drive design, no need air source, no consumable parts
- Universal computerized design, no need for professional motherboard, low maintenance cost
- The base and column are made of high-quality steel materials, which have the same thermal expansion coefficient as the guide rail material, and can be used directly in the workshop environment
- High-precision digital imaging system, 50 times magnification
- Key components such as the spindle, grating, imaging, and guide rails are designed with double seals
- Standard fine adjustment system for micron-level measurement
- Automatic tracking of dynamic crosshairs, automatic recognition of blade shape, graphical interface, one-button measurement
- Multiple languages are available

Code	1805-4000	1805-4005	1805-4010	1805-4015	1805-4025	1805-4020	1805-4025	1805-4030	
Measuring Range	X Axis (mm)	300	300	400	400	400	500	500	600
	Z Axis (mm)	400	500	500	600	700	600	700	700
Spindle Holder	ISO50、ISO40 (optional)								
Spindle accuracy	0.001mm								
Bearing weight of spindle	100KG								
Accuracy of displaying	1um								
Negative direction through spindle center	50mm								
Fine adjustment magnifications	Wireless fine adjustment system for micron-level measurement 50times								
Drive model	Automatic both X and Y axis								
Display system	Digital Industrial Imaging System USB High Speed Connection								
Weight	Above 100KG (different depends on different sizes)								
Dimension	900mm×400mm×1000mm (different depends on different sizes)								
Power supply	220V±10% AC 50Hz								
Applicable Temperature	-10°C~50°C								
Applicable Humidity	<90%								
Computer	4G memory, 3.0G dual-core, 500G hard disk Windows system, 6 USB ports, RS232 port.								
Display	21 Inch LCD screen								



## HEIGHT GAUGE



Code	3000-0300	3000-0600
Measuring Range	300	600
Expanded Measuring Rang(mm)	570	870
Dia. of Probe Holder(mm)	φ8	
Resolution(mm)	0.01/0.001/0.0001	
MPE(μm)	±2.6μm+ (5*L in [M])	
Repeatability(μm)	Of Plane≤1μm* Of Aperture≤3μm*	
CSTN	VGA.6.4 "	
Max Speed of Clicking Driver(mm/s)	75	
Device Driver	Machinery	
Measuring Force(N)	1.5±0.5	
Working Temperature(°C)	10 to 40 (°C)	
Storage Temperature(°C)	-10 to 60 (°C)	
Water Proof Grade	IP40	
Unit	mm/in	
Certificate	√	
Height(mm)	709	1009
Weight(kg)	20	22

\*In test condition and with standard probe

## PORTABLE LEEB HARDNESS TESTER

Widely used in petrochemical, aerospace, electric power, gas, automotive, shipbuilding, railways, machinery manufacturing and other industries.

- Applied to wide range of materials
- High Accuracy
- Portable and easy to operate
- Non-destructive inspection
- 360° Measuring direction



Code	1804-4612
Impact type	D,DC,DL,D+15,C,G
Accuracy	±6HL
Scales	HRA, HRC, HRB, HB, HV, HSD, MPA
Display	160*128 TFT LCD
Data	500 Pieces of data
Power	3*AAA
Statistics	Avg
Connection	TYPE-C USB
Print	Wireless printing(optional)
Punch material	Tungsten carbide ball
Weight	230g
Sizes	154*82*26mm
Operating temperature	-10 ~ +40°C (14°F~104°F)
Storage temperature	-30 ~ +80°C (-22°F~176°F)

## PORTABLE LEEB HARDNESS TESTER

Widely used in petrochemical, aerospace, electric power, gas, automotive, shipbuilding, railways, machinery manufacturing and other industries.

- Applied to wide range of materials
- High Accuracy
- Portable and easy to operate
- Non-destructive inspection
- 360° Measuring direction
- Full and touch screen



Code	1804-4613
Impact type	D,DC,DL,D+15,C,G
Precision	±6HL
Display	800*480 TFT LCD (with touch)
Storage	2000 measurement data
Conversion	HV, HB, HRA, HRB, HRC, HSD, Mpa
Statistics	Mean, range
Communication	Type-C USB
Print	Wireless printing (optional)
Power	3.7V 1400mA rechargeable lithium ion battery Charging: DC5V 1A
Punch material	Tungsten carbide ball
Weight	255g
Dimensions	151*85*27mm
Operating temperature	Temperature: -10~40°C Humidity:20%-85%
	Temperature: -30~80°C Humidity:5%-95%

## PORTABLE LEEB HARDNESS TESTER

- This mode is recommended for the exclusive measurement of solid and heavy components in the Brinell range.
- Unit G places low demands on measuring location surface finish.
- Typical applications: forgings or solid castings.
- Impact Device integrated.
- Direction sensor integrated
- Highly accurate ( $\pm 6HL$ ) in any impact direction(360°) – automatically
- Integrated display of results for HB, HRB hardness scales.
- Large, high contrast LCD for optimum viewing in all conditions.
- Easy calibration.
- Full USB communication with PC, software included free of charge.
- Internal storage of data with day and time.
- Intelligent sleep mode.

Code	1804-4615	1804-4616
Battery	Rechargeable Li ion, charges through device USB port.	
Standards and Guidelines applied	DIN 50156 (2007), DGZfP Guideline MC 1 (2008), VDI / VDE Guideline 2616 Paper 1 (2002), ISO 18625 (2003), ASTM A956 (2006), GB/T 17394 (1998), JB/T 9378 (2001), JJG 747(1999), CNAL T0299 (2008), JIS B7731 (2000).	
Printer	With mini wireless printer	Without mini wireless printer
Operating environment	Temperature: -10~+60°C; Humidity: 20%~85%.	
Storage environment	Temperature: -30~+80°C; Humidity: 5%~95%.	
Dimensions	254 x 52 x 32 mm	
Weight	230g	

Material	HLG	HRB	HB
Steel	300-750	/	90-646
Grev cast iron	340-600	/	92-326
Ductile Iron	340-600	/	127-364



## ULTRASONIC HARDNESS TESTER

Designed for rapid non-destructive testing of hardness:

1. metals and alloys on standardized international scales of hardness: Rockwell (HRC), Brinell (HB), Vickers (HV);
2. metals with distinctions in properties of steel (e.g., non-ferrous metals, alloys of iron and others) and using five additional scales for calibration;
3. use of the scale of tensile strength (Rm) for determining the tensile strength of carbon steel products pearlitic by automatically converting from the scale of hardness Brinell (HB).

- UCI probe
- Testing of products with thickness over 1mm
- Wide range of hardness value
- Ease in operation
- Minimum number of imprints
- Automatic recognition of probe
- Graphical display with backlight
- Control of the batteries
- New, intuitive menu with tips on the buttons
- Extended temperature range (cold-resistant, down to -20 °C)
- Internal memory and connection with PC
- Rubber protective housing-case



Code	1804-5005
UCI probe types	1kgf (10N) 2.2 lbf, 5kgf (50N) 11lbf
Indenter	UCI (diamond Indenter)
Measuring direction	Any direction 360°
Measurement hardness range	- Rockwell, HRC 20 - 70
	- Brinell, HB 90 - 450
	- Vickers, HV 230 - 940
	- temporary resistance (tensile strength)Mpa 370 - 1740
Accuracy	HV+ / - 3%; HRC+ / - 1,5%; HB+ / - 3%
Hardness scale	HRC, HB, HV, MPa
Materials	- UCI probe - pre-calibrated for steel. - Additional custom materials for calibration.
Operating temperature	-20 to +50 ° C
Dimension	120x60x25mm
Weight	Weight of electronic unit with batteries, no more than 0.2kg
Power supply	2 AA batteries

## COATING THICKNESS GAUGE

- Very compact size with integrated probe.
- Magnetic induction method (ISO 2178, ASTM 07091),
- Measurement of non-magnetic coatings on magnetic substrates.
- Data memory is up to 500 readings.
- Ready to measure immediately without calibration.
- Easy to perform zero-point correction provides correct measurement results for measuring applications with little changes in shape and substrate material.
- The one-point calibration function allows for an adaptation in cases of several changes in shape or substrate material and enables high-precision measurements in selected measurement ranges.
- Statistic function allows for evaluation of a measurement series and display of the most significant characteristic statistical values.



Code	1804-2005
Test method	Magnetic induction
Measuring Range	0- 1250µm (0-50 mil)
Resolution	0 - 999µm: 0.1µm, ≥1000µm: 1µm
Accuracy	0- 100µm: ± 2.0 µm, 101-1250µm≤2.5%
Data Memory	500 readings
Display	Graphic LCD with backlight
Power Supply	1.5V*3 (AAA alkaline batteries)
Operating Temperature	0-50°C
Dimension	150X50.5X29mm
Weight	110g
Certificate	CE
Accessories	Thickness gauge, Substrate, Certification foils set , User 's manual,Manufacturer's certificate.

## COATING THICKNESS GAUGE

- Very compact size with integrated probe.
- Magnetic induction method (ISO 2178, ASTM 07091)
- Measurement of non-magnetic coatings on magnetic substrates
- Quick one-hand operation
- Place instrument on specimen and see the measured value
- Ready to measure immediately without calibration
- Easy to perform zero-point correction provides correct measurement results for measuring applications with little changes in shape and substrate material
- The one-point calibration function allows for an adaptation in cases of severe changes in shape or substrate material
- Data transmitting to PC via USB cable. Statistic function allows for evaluation of a measurement series and display of the most significant characteristic statistical values



Code	1804-2010	1804-2011
Test method	Magnetic induction	
Measuring Range	0- 1500µm (0-60 mil)	
Resolution	0 - 999µm: 0.1µm, ≥1000µm: 1µm	
Accuracy	0- 100µm: ± 1.5 µm, 101-1500µm≤1.5%	
Data Memory	Up to 1500 readings	
Display	Graphic LCD with backlight	
Power Supply	1.5V*3 (AAA alkaline batteries)	
Operating Temperature	0-50°C	
Dimension	88x67x30mm	
Weight	120g	
Printer	Without mini wireless printer	With mini wireless printer
Accessories	Thickness gauge, Substrate, Certification foils set , Data cable,Data logger software, Sheath, User 's manual, Manufacturer's certificate.	

## ULTRASONIC THICKNESS GAUGE

- Two display units: metric and imperial
- Automatic calibration to zero: automatically correct the system errors
- Automatic non-linear compensation: within the full range, computer
- Software is used to correct the non-linear errors of the probe for the purpose of improving the accuracy
- The upward and downward adjustment keys enable prompt selection of sound velocity, thickness, and check the thickness memory units
- Prompt for coupling state: provide coupling indication and the observation of the stability of the indication can tell if the coupling is normal
- Ten thickness values can be stored without loss after turn-off, which is very convenient for measuring in field and high platform
- Measuring sound velocity: according to the test block's thickness, sound velocity can be measured directly needless to search in the conversion table
- Sound velocity of five different materials can be stored
- Low voltage indication
- Automatic turn-off
- All keys enclosed----oil proof for longer service life



Code	1804-2015	1804-2020
Measuring range	1.2~225.0mm	
Minimum display unit	0.1mm	0.01mm
Display type	4-digit	
Sound velocity range	1000m/s~9999m/s	
Measuring error	±(1%H+0.1) mm, H is the actual thickness of the object to be measured	
Power supply	two AAA alkaline cells 1.5V	
Power consumption	working current is smaller than 20mA(3V)	
Range of operating temperature	0°C~ 40°C	
Dimensions (mm)	124×68×27	
Weight (g)	120	

Standard Delivery	
Main unit	1
5PΦ10 probe	1
Couplant	1
AAA battery	1
TIME certificate	1
Warranty card	1
Instruction manual	1

Optional Accessory	5P 10/90 probe (1.2~225.0mm)
	SZ2.5P probe (3.0~300.0mm)
	7PΦ6 probe (0.75~60mm)

## DIGITAL SURFACE ROUGHNESS GAUGE

- Electro mechanical integration design, small volume, light weight, easy to use
- Using DSP chip to control and data processing, high speed, low power consumption
- 128 x 64 OLED dot matrix display, digital / graphic display, highlight no perspective
- Intuitive and rich display information, can display all the parameters and graphics
- Compatible with ISO, DIN, ANSI, JIS national standards
- Residual quantity icon, prompting the user to charge
- Continuous working time: more than 20 hours
- Real-time clock settings and display, convenient data recording and storage
- With automatic dormancy, automatic shutdown and power saving function
- Reliable control motor to go dead circuit and software design
- Measurement information display, menu prompt information, false information and switch machine and other tips that information
- Can be connected to a computer and printer
- Optional different sensor, measuring platform, mini printer, extension rod and other accessories
- Plastic shell, portable, high reliability
- Optional bluetooth function



Code	1804-6305
Testing parameters	Ra,Rz,Rq,Rt,Rp,Rv,R3z,R3y,RzJIS, Rsk,Rku,Rsm,Rmr,Rx;
Measuring range (um)	Ra: 0.005-16.000 Rz: 0.02-160.00
Sample length (mm)	0.25, 0.80, 2.50
Evaluation length(mm)	(1-5)L
Maximum drive stroke	17.5mm/0.7inch
Indication accuracy	0.001
Indication error	±(7-10)%
Variability	<6%
Data Storage	100 groups
Power	Rechargeable li-battery
Working temperature	-20°C~40°C
Relative humidity	<90%
Size	158mmx63.5mmx46mm
Weight of Host	0.3kg

Standard delivery	
Host	1
Standard Sensor	1
Calibration block and bracket	1
Bracket	1
Charger	1
Adjustable support	1
Operating manual	1
Warranty card	1
Certificate of approval	1
Instrument case	1

## PORTABLE SURFACE ROUGHNESS TESTER SEPARATE TYPE

- This Portable Surface Roughness Tester is a high accuracy instrument for measuring surface roughness
- It can be used on variety of machining parts and operates on various surfaces, not only flat but also outer cone, outer cylinder, curved, pinholes, grooves, recesses grooves and axle etc
- It allows surface roughness measurement both on metal and non-metal workpieces
- It is suitable for machining and manufacturing, quality control, inspection departments, especially for measurement on large and heavy workpiece, assembly line, on site. It is a Non Destructive Testing instrument, damage won't caused to testing piece



ITEM	QTY
Main unit	1 PC
Probe	1 PC non warranty parts
Height adapter	1 Set
Calibration block and bracket	1 PC
Bracket for Calibration Block	1 PC
Extension cable	1 PC length: 1m
Touch pen	1 PC
Power Charger & USB Cable	1 PC
User manual	1 PC
Instrument case	1 PC
Warranty	2 Years

Code	1804-6315
Testing parameters	X-axis 17.5mm (0.69 inch) Z-axis 320μm (-160μm~+160μm) , 12600μin (-6300μin~+6300μin)
Resolution	the Z axis (vertical) 0.002μm/±20μm, 0.004μm/±40μm 0.008μm/±80μm, 0.02μm/±160μm
Parameters	Ra Rz Rq Rt Rc Rp Rv R3z R3y Rz(JIS) Ry Rs Rsk Rku Rmax Rsm Rmr Rpc Rk Rpk Rvk Mr1 Mr2
Graphic	load curve, Roughness profile, filtered curve
Filter	RC,PC-RC,Gauss,D-P
The sampling length(lr)	0.25, 0.8, 2.5mm
Assessment length (ln)	Ln= lr×n n=1-5
Probe	Measuring principle Inductance Stylus tip Diamond, 90 cone angle, 5μm Force RMeasuring force<4mN, Skid force<400mN Probe head hard alloy, skid radius of curvature: 40mm Traversing speed lr=0.25, Vt=0.135mm/s lr=0.8, Vt=0.5 mm/slr=2.5, Vt=1mm/s Return Vt=1mm/s
Accuracy	±10%
Repeatability	not more than 6%
Power supply	Built-in Lithium ion battery 3200mAh, Charger :DC5V
Memory	100 measurement result
Output	USB and bluetooth
Outline dimension	Main unit: 158×55×52mm drive unit: 23×27×115mm
Weight (main unit)	Around380g
Zoom of height adapter	40mm
Working Environment	Temperature: - 20°C ~ 40°C Humidity: < 90% RH
Store and Transportation	Temperature: - 40°C ~ 60°C Humidity: < 90% RH
Standards	ISO4287, ANSI B46.1, DIN4768, JIS B601
Optional accessory	Magnetic Base, height gauge adapter, curved sensor, small hole sensor, deep groove sensor, pinhole sensor, Extending Rod, Right Angle Rod, mini printer, 200mm platform, 300mm marble platform, software, mobile APP

## SURFACE ROUGHNESS GAUGE SET

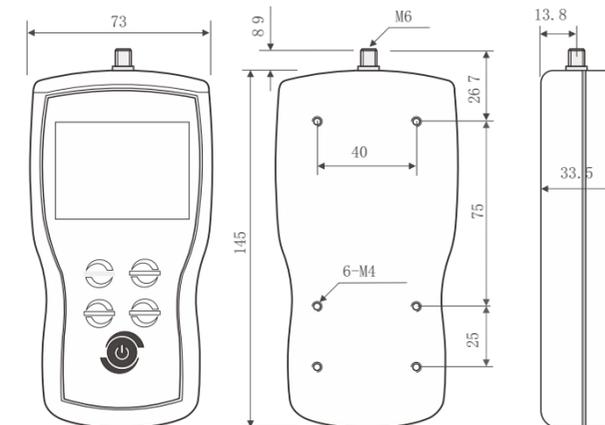
- All standard roughness gauge included together with comparison chart
- Easy to checking all surface roughness.
- Set include gauge as below:  
 consist of 30 specimens .size: 7/8x3/8",including:  
 2 specimens checking Flat lapping 2 and 4 μ" AA  
 4 specimens checking External grinding 8,16,32 and 63 μ" AA  
 6 specimens checking surface grinding 2,4,8,16,32 and 63 μ" AA  
 6 specimens Turing 16,32,63,125,250 and 500 μ" AA  
 6 specimens checking Vernical milling 16,32,63,125,250 and 500 μ" AA  
 6 specimens checking Horizontal milling 16,32,63,125,250 and 500 μ" AA



Code	Pieces
1804-6310	30

## DIGITAL FORCE GAUGE

- Ergonomic, durable, heavy-duty metal construction
- Touchpad to minimized disturbance
- Automatic reversible display
- Automatic display direction converting
- Variety of alarm output function
- USB port for upload to PC
- 10N,20N,50N,100N,200N,500N available

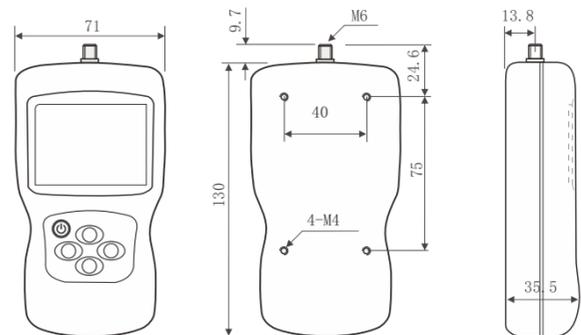


Code	Capacity / Resolution					
	N	Kgf	Lbf	Ozf	Gf	mN
1804-1105	10/0.001	1/0.0001	2.2/0.0005	35/0.01	1000/0.1	10000/1
1804-1115	1000/0.1	100/0.001	220/0.05	3500/1	-	-

Accuracy	±0.2% FS
Display	160*128 matrix LCD with LED Backlight
Units	N, gf, kgf, ozf, and lbf
Measuring Mode	Track, Peak, AutoPeak
Overload Capacity	120% F.S
Sampling Rate	2000 Hz
Memory	1000 data
Temperature Effects	<0.03% FS/ °C
Power	3.6VDC Ni-MH batteries
Charger / Adaptor	USB/BM charger, 110~240VAC
Outputs	USB, Set point output, RS232C
Operating Environment	-10 to 40°C , 20 to 80%RH
Selectable Units	N, kgf, lbf, ozf and/or gf
Dimensions	160*73*34mm
Weight	0.7 kg (1.5 lb)

MiniPrinter	Rs232 Cable	Ergonomics measuring kit
Motorised Test Stand	Manual Test Stand	

## DIGITAL FORCE GAUGE



- Ergonomic, durable, heavy-duty metal construction
- Lighter weight, more suitable for handheld operation
- Reversible display
- Charger with US/EUR/UK Plugs selectable 50N,100N,500N available

Accuracy	± 0.3% F.S
Display	160*128 matrix LCD with LED Backlight
Units	N, gf, kgf, ozf, and lbf.(Selectable)
Measuring Mode:	Track, Peak, Preset
Overload Capacity	120% F.S
Sampling Rate	1000 Hz
Memory	500 data
Temperature Effects	<0.03% FS/ °C
Power	Ni-MH rechargeable batteries
Charger / Adaptor	USB charger, Input:110~240VAC
Outputs	USB, Set point output, RS232C
Operating Environment	-10 to 40°C , 20 to 80%RH
Selectable Units	N, kgf, lbf, ozf and/or gf
Dimensions	150*72*33mm
Weight	0.45 kg (1 lb)

MiniPrinter	Rs232 Cable
Motorised Test Stand	Manual Test Stand

Code	Capacity / Resolution				
	N	Kgf	Lbf	Ozf	Gf
1804-1120	10/0.01	1/0.001	2.2/0.001	35/0.01	1000/1
1804-1125	1000/1	100/0.01	220/0.1	3500/1	-

## FORCE GAUGE



Analog Force Gauge with compact size, high accuracy, they are easy to operate and handy to carry out, and can show the unit of newton and kilogram at the same time. The PEAK/TRACK knob of it can switch between the peak value load test and the continuous load test. They are excellent products which can take the place of the old style force gauges, and widely applied in electric, high & low voltage electric appliance, hardware, automobile parts, lighter and ignition system, light industry, mechanical, textile and so on industries for test of pull or push load test insertion force or pull and destructive experiment.

- The compact design, easy to carry
- The operation is simple and can be used combining with all kinds of fixture;
- The peak value holding function and duration test function switch freely;
- Newton and kg, according to two units at the same time do not need to unit conversion;
- Can be installed on a variety of test the machine as a dedicated tester use
- 10N,100N,500N available

Code	Capacity(N)	Graduation(N)
1804-1130	10	0.5
1804-1131	50	0.25
1804-1132	500	2.5

## VISION MACHINE SYSTEM MANUAL



### APPLICATION

Widely used in the field of electronics, machinery, instrument and plastic, G series video measuring system is used in two dimension measuring.

- High resolution imported color camera
- By availing the auxiliary light adjusting function of the software, the user knows whether the light is saturated.
- The laser indicator can quickly locate the target workpiece, which is suitable for measuring sophisticated workpiece.
- Auxiliary height measuring can be achieved.
- "T" groove type worktable can house various fixtures
- The resolution of the linear scale is 0.5um
- Foot switch and software facilitate operation of the machine

Code	1804-7006	1804-7003
Metal worktable size(mm)	500x330	450x280
Glass worktable size(mm)	350x250	306x196
Travel(mm)	300x200	250x150
X,Y, Z axis resolution	0.5μm	
Accuracy(μm)	E1XY=(2.5+L/100)μm	
Weight (kg)	140	120
Z axis travel (mm)	200	
Camera	1/3" color CCD camera	
Zoom lens:	0.7X-4.5X	
Total magnification:	26.6X -171X	
Field view	8.1mm -1.3mm	
Power	AC 100-240V 50/60Hz	
Spare parts	1.0X lens cone (standard )	
Optional	Crosshair, DC3000 digital display, Renishaw MCP probe,coaxial light lens.	

## AUTOMATIC VISION MACHINE SYSTEM



Widely used in the field of machinery, electronics, instrument and plastic CNC video measuring system is used in two dimension measurement, especially in non-contact measuring, quick batch measuring, and measuring of sophisticated workpiece.

- Automatic focusing, automatic edge detection, powerful programming and automatic measuring function
- Sub pixel subdivision technology helps improve edge resolution
- The machine can be operated by either the joystick or the software programming
- SPC data processing contributes to fixture measurement in large scale
- Servo motor control in X, Y, and Z axis leads to quick and high precision positioning and stable operation
- Independently developed embedded module control system ensures more stable operation by integrating the sophisticated control system within the instrument
- The five- ring-eight-section surface cold light source is suitable for measuring sophisticated workpiece
- The laser indicator can quickly locate the position of the workpiece

Code	1804-7005
Metal worktable size(mm)	500x330
Glass worktable size(mm)	350x250
Travel(mm)	270x170
X,Y, Z axis resolution	0.5μm
Accuracy(μm)	E1XY=(2.5+L/100)μm
Weight (kg)	168
Z axis travel (mm)	150
Camera	1/2" color CCD camera
Zoom lens	0.7X-4.5X
Total magnification:	20X -128X
Object view	11.1mm -1.7mm
Power	AC 100-240V 50/60Hz
Spare parts	0.5X lens cone (standard )
Optional	Auto zoom lens, laser shifter, MCP probe



## STEREO ZOOM MICROSCOPE

- Image always in focus throughout zoom range
- Stereo-tube can be rotated a full 360° for viewing at any angle
- Bilateral zoom control knob adds convenience and increases operator efficiency
- Diopter adjustment for both eyepieces



Code	1804-7015
Zoom scale of objective	0.7×-4.5×
Eyeiece and view field diameter	WF10X, 20mm
Total magnification	0.7×-4.5×
Working distance	95mm
Interpupillary adjustment distance	55-75mm
Round working stage diameter	50 mm
Dioptic adjustment range	±5diopter
Illumination	Input voltage :AC 110V or 220V Oblique illumination:12V,10W halogen lamp (with cup)
Output	Transmitted illumination:12V,10W halogen lamp (alternative lamp:5 W fluorescent lamp )

## TABLE MAGNIFIER WITH ILLUMINATION

- The LED magnifying lamp is portable and can be used whenever you want
- Lens size: 5"(127mm)
- Diopter: 3diopter/5diopter/8diopter for choice
- Optional with switching power
- Life of the LED: 20000h
- Luminance: 1000Lux
- Colour available: white



Code	1030-2005
magnification	2.25x
Lens	3D/5D/8D
Lens size	5"(127mm)
Illumination	60pcs LED, 12W
Power	100-240V~; 50/60Hz
Product size	226x56x1185mm

## DIGITAL POCKET SCALE

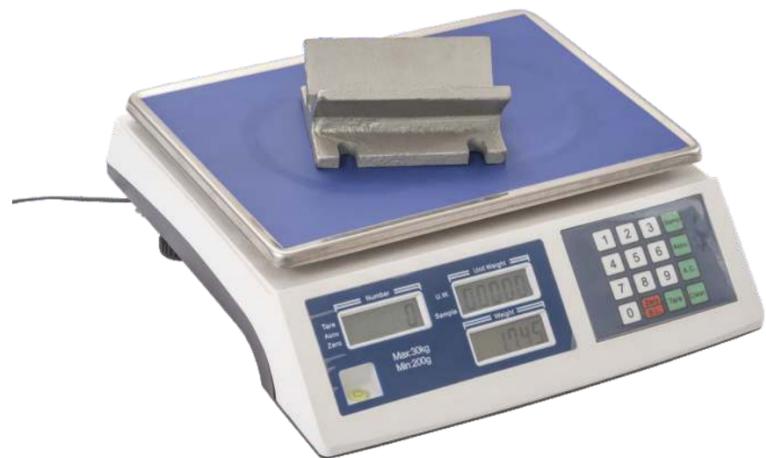
- Material:ABS engineering plastic housing and stainless steel table-boa
- Display: LCD display with blue backlight
- Equipped with a high precision strain gauge sensor system for accurate weighing
- Stainless Steel platform and Ultra-thin (19mm thickness)
- Multiple weighing units : G/ CT/OZT/OZ/ /DWT / GN
- Zero setting and tare function, counting and weighing function, auto zero tracking
- Low battery indication and overload warning
- 2\*AAA battery, easy to change and long stand-by time
- Auto power off, when there is on operation for a certain time
- Self-test when turned on



Code	1030-2010
Range	0-500g/0.01g
Scale Size	16.4X10X2cm
Platform Size	11.3X9cm
Display size	4.6X4.8X0.11cm
Product net weight	300g

## WEIGHING SCALES

- Rechargeable battery inside ,low power consumption RS-232 interface for option
- RS-232 interface for option
- Display: LCD display with blue backlight
- Capacity:6kg,15kg,30kg
- Precision 1/6000, 1/15000,1/30000



Code	1030-2015	1030-2017	1030-2019
Capacity	6KG	15KG	30KG
Display	LED/LCD		
Counting scale	16 keys /24keys with 7 memory		
Weighing scale	8 keys(LCD), 6 keys/8 keys		
Pan size	210mm/270mm (19 mold/queen mold) 325*225mm (king mold0		
Precision	1/6000	1/15000	1/30000

## WEIGHT SETS

- Made with stainless steel material
- With inspection certificate.



Code	1030-2020	1030-2025	1030-2030
Range	1mg-100g	1mg-200g	1mg-1kg
Weight			1x 1mg weights
		1x 1mg weights	2x 2mg weights
	1x 1mg weights	2x 2mg weights	1x 5mg weights
	2x 2mg weights	1x 5mg weights	1x 10mg weights
	1x 5mg weights	1x 10mg weights	2x 20mg weights
	1x 10mg weights	2x 20mg weights	1x 50mg weights
	2x 20mg weights	1x 50mg weights	1x 100mg weights
	1x 50mg weights	1x 100mg weights	2x 200mg weights
	1x 100mg weights	2x 200mg weights	1x 500mg weights
	2x 200mg weights	1x 500mg weights	1x 1g weights
	1x 500mg weights	1x 1g weights	2x 2g weights
	1x 1g weights	2x 2g weights	1x 5g weights
	2x 2g weights	1x 5g weights	1x 10g weights
	1x 5g weights	1x 10g weights	2x 20g weights
	1x 10g weights	2x 20g weights	1x 50g weights
	2x 20g weights	1x 50g weights	1x 100g weights
1x 50g weights	1x 100g weights	2x 200g weights	
1x 100g weights	2x 200g weights	1x 500g weights	
		1x 1kg weights	

# HD INSPECTION CAMERA

Code: 1030-2125



1/9 inch HD CMOS image sensor made in USA. image sensor is the soul to a borescope. We believe US sensor make it better.

**720p HD**

**IP67**

- 180° image rotation and mirror flip feature
- Large 4.3" (109 mm) color TFT LCD screen
- 9 mm camera probe with a 2.9 ft (88cm) flexible goose-neck cable

4.3" IPS LCD Screen gives you a wide view crystal clear display. You can see more details in a more convenient way.

**IPS**



**720P HD Camera Photo Capture**

9mm

### Specs

Camera head size	Image sensor	Camera resolution	Lcd display size	Lcd resolution	Camera fov (field of view)	Camera dof (depth of field)	Camera probe length	Camera waterproof
9mm	1/9" cmos	1280x720pix	4.3 inch	480x272pix	63 degree	1.2-3.5inch	2.9ft	Ip67
Power	Working hours	Light source	Recording medium	Still image storage format	Image capture	Image flip/zoom	Interface	
4 pcs dry battery	2.5- 3.0 hours	4 pcs led	Internal memory	Jpeg 1280x720	Yes (picture only)	Yes	Usb	



**Drop Protection**



**Long-Lasting Battery**

CE FC RoHS

## MULTIFUNCTION VIDEO SCOPE



This Multifunction video inspection has been designed as a user friendly and economical way of solving hidden problems and increasing productivity (eg. Inspect vent pipe and system of air conditioner, machine equipment, engine and so on) It is widely applied for maintenance of the industry, the building, the aviation, the vehicles also easy to inspect the pick up small objects, record image

Code	1030-2035	1030-2040	1030-2045
Outer diameter of camera head	5.5mm	9mm	12mm
Focal length	10mm	50mm	50mm and 50cm (for your choice)
Viewable angle	60°		
Probe length for choice	1m/2m/3m or customized (max length 15m including extension) (1030-2035 Max length 15m including extension)		
Extension for choice	1m, 2m, 3m		
Image display	3.5" TFT/LCD		
Image storage media	Micro SD card (Support up to 16G)		
Image resolution	640×480 pixels		
LCD Resolution	320×240 pixels		
Image zooming	4 times		
TV output format	NTSC/PAL		
Wireless transmission frequency	2414MHz, 2432MHz, 2450MHz, 2468MHz		
Wireless transmission distance	Up to 10M; If no obstacles, will more than 10M		
Attachment	Micro SD card, one into two cable, Micro SD to SD transition pocket, TV cable, USB cable		
Probe length	100cm or your required length		
Probe and camera head protection	IP67		

- 3.5" color LCD with high visibility
- Flexible probe with memory
- Fully adjustable LED lights
- With function of taking photos, video, rotation, partial zoom,
- TF memory card and USB interface
- The monitor can be apart from the grip to transmit image wirelessly
- Four wireless frequency for your choice

## INFRARED THERMOMETER

- It is widely applied for measuring temperature in the automobile, the electric power, the chemical industry, the food processing and so on
- Measure the surface temperature at a safe distance
- Auto power off



Code	1030-2001
Range	-20°C~320(°C-4°F~608)°F
Pixel	8:1 optical resolution
Temperature Unit	°C or °F selectable
Accuracy	+/- 40F(20C)

## INFRARED THERMOMETER WITH LARGE RANGE

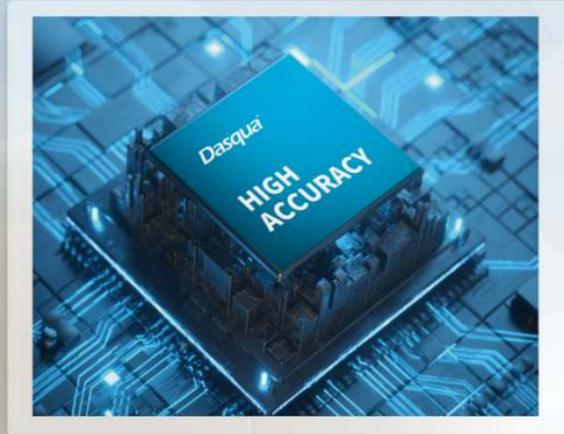
- During the measurement, the max. reading will be displayed beside the "MAX" icon
- LASER EMITTER: Class IIIa Laser ( American Standard ), or Class II Laser ( European standard )
- Laser pointer
- Easy to read digital LCD display with blue backlight



Code	1030-2003
Range	-40°C~580°C(-40°F~1076°F)
Resolution	±0.1°C
Display resolution	630~660nm
Optical ratio (D:S)	12:1
Spectral Response	8~14µm
Response Time	500mSec, 95% response
Repetition	1% of reading or 1°C

# COMBUSTIBLE GAS LEAK DETECTOR

Code: 1030-2130



## Audio-Visible Buzzer Alarm

Can detect many kinds of flammable gas

$\text{CH}_4$ Acetone	$\text{CO}$ GAS/Carbon monoxide	 Gasoline/alcohol
$\text{CH}_2\text{C}_{12}$ Propane	$\text{C}_6\text{H}_6$ benzene	$\text{C}_2\text{H}_4\text{O}$ Ethylene Oxide
$\text{C}_5\text{H}_{14}$ Hexane	$\text{C}_6\text{H}_{10}$ N-butane	$\text{C}_2\text{H}_2$ Acetylene

## Wide Application



It is widely used in: gas pipeline detection, household gas prevention, metallurgy, tunnel and mine operation, oil and gas mining, dangerous goods storage warehouse, etc

## Combustible Gas Detection

Launch Prepare <30s

Quick Response <5s

- Detection range: 50-10000PPM(based on methane)
- Sensitivity: 2 level
- Alarm: sound
- Response time: Instantaneous
- Operating temperature: 14°F to 122°F

CE FC RoHS



# INFRARAED THERMAL IMAGER

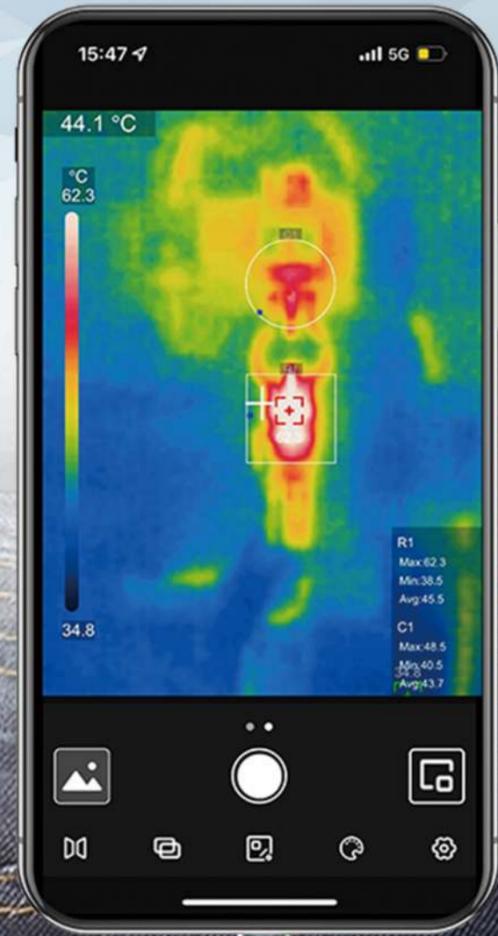


- This instrument is a handheld thermal imager, which is powered by four 1.5V AA ( or equivalent ) batteries
- This instrument image display resolution is 320 x 240 pixels. The temperature of the center point of the displayed measured surface and the highest and lowest temperature of the displayed measured surface can be displayed. You can select any of the three image modes: infrared image, visible image, fusion image
- Captured images can be saved in the TF card, and you can view them through menu and can edit the image files on a computer via USB port



Code	1030-2002
Range	-40~+400°C
Image display resolution	320 x 240 pixels
Display	2.4" (495mmx377mm)
Color Palettes	Iron, Rainbow, White Hot, Red Hot, Black Hot, Lava, Rainbow HC
Detector resolution	120x90
Infrared Spectral Band	8um-14um
Emissivity correction	0.95(default)0.01-0.99
Response time	≤500ms
Built-in Digital Carema	640*480
Storage medium	TF Card, 16GB
Power supply	Li-ion 3.7V/2600mAh

# HIGH RESOLUTION INFRARED THERMAL IMAGING CAMERA



1030-2008 IOS Connector



1030-2007 Type C (USB-UVC ADAPTOR)

\* Bluetooth function for option

## HIGH INFRARED RESOLUTION: 120X90/10800 PIXELS

- Field angle: 50°x38°
- Picture frequency: ≤25Hz

So easy to  
**CARRY AROUND**

Code	Temperature measuring range	Accuracy	Connector Type
1030-2007	-20°C-400°C	±2%	Type C (with USB-UVC Adaptor)
1030-2008	-20°C-400°C	±2%	Lightning (Iphone)

## NON-CONTACT DIGITAL TACHOMETER

- The streamlined appearance design, the body and the palm perfectly match, to ensure more convenient and comfortable use
- Wide application range, large measuring range, high resolution and small error
- Large screen display, clear reading, no parallax
- Automatically memorize the maximum, minimum, final value and 500 instantaneous values
- When the battery voltage is lower than the specified value, it will automatically indicate



Code	1030-2051
Measuring Range	2.5~99999RPM
Resolution	0.1 RPM (0.5~999.9 RPM) 1 RPM (above 1000 RPM)
Measuring distance	50~500mm
Product Size	160mm×74mm×37mm
Product Weight	180g (including battery)
Range Selection	Automatic switching
Accuracy	±(0.05%+1digit)
Power supply	3×1.5V AA UM-4 batteries
Operating Temperature	0~40°C

## CONTACT DIGITAL TACHOMETER

- The tachometer uses microcomputer (CPU) technique; anti-jamming technique for contact measurement of rotation speed (RPM), surface speed (m/min), and contact length (m)
- Wide measuring range and high resolution
- Large screen LCD display provides clear reading
- White back light guarantee reading in any light environment
- Low battery voltage indication
- Surface speed wheel with groove to test surface speed or length of wire, cable, or rope conveniently
- Smooth housing design, comfortable to hold and use



Code	1030-2056
Measuring Range	0.5~19999 RPM; 0.05~1999.9 m/min; 0.05~99999 m
Resolution	Rotation Speed: 0.1 RPM (0.5~999.9RPM) 1 RPM (above 1000RPM) Surface Speed: 0.01m/min (0.05~99.99m/min) 0.1m/min (above 100m/min)
Contact Length	0.02m (0.05~99999m)
Product Size	170mm x 70mm x 35mm
Accuracy	±(0.05%+1digital)
Sampling Time	0.8second (over 60RPM)
Power supply	3x1.5V AA battery
Time Base	6MHz Quartz crystal

## DIGITAL SOUND LEVEL METER

- Altitude up to 2000 meters
- Relative humidity 75% max
- Operation temperature from 0 - 40°C
- Operation Environment: 0 - 40°C (32 - 104°F) 10 - 75%RH
- Storage Environment: -10 - 50°C (14 - 122°F) 10 - 90%RH



Code	1030-2061
Measuring Range	(28)30dB -130dB
Resolution	0.1dB
Accuracy	±1.5dB(reference conditions 94dB@1kHz)
Response time	FAST 125ms / SLOW 1sec
Display Update	2 times / second
Frequency Range	31.5Hz - 8KHz
Frequency Weighting	A / C
Battery Life	Approximately 110 hours
Power supply	One 9V battery
Product Size	185(L)x65(W)x35(H)mm
Product Weight	150g (including battery)
Accessories	9V battery, instruction manual

## BATTERY ACID AND ENGINE COOLANT REFRACTOMETER

- The refractometer measures the freeze point of automotive coolants (propylene glycol and ethylene glycol) from 32°F to -60°F
- It also indicates the specific gravity of battery acid and provides a quick reference of battery charge condition
- It only requires a sample of 2 or 3 drops for fast and accurate readings
- Automatic Temperature Compensation provides repeatable results
- Comes complete with storage case and a screwdriver and vial of distilled water used for calibration



Code	1030-2065
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## DIGITAL AC CLAMP METER

To measure AC current, AC/DC voltage, and Resistance, Continuity tests of diode and circuit. Max voltage between the voltage input end and the earth is CATIII600V.

- Auto/manual ranging
- Data hold
- Display backlight
- Low battery display
- Auto power off
- Safety rating: CAT III 600V



### SPECIFICATION

Code	Function	Range	Resolution	Accuracy
	DC-Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	± (0.8%rdg+2dgt)
		600V	1V	± (1.0%rdg+2dgt)
	AC-Voltage	2V/20V	1mV/10mV	± (1.0%rdg+5dgt)
		200V/600V	0.1V/1V	± (1.2%rdg+5dgt)
	AC-Current	2A/20A	0.001A/0.01A	± (3.0%rdg+15dgt)
		200A/600A	0.1A/1A	± (3.0%rdg+10dgt)
1030-2095	Resistance	200Ω/2KΩ/20KΩ/200KΩ/2mΩ	0.1Ω/0.001KΩ/0.01KΩ/0.1KΩ/0.001mΩ±	± (1.2%rdg+2dgt)
		20mΩ	0.01mΩ	± (2.0%rdg+5dgt)
	Diode	open circuit voltage 1.5V		
	Continuity buzzer	< 60Ω		
	Power supply	3 x 1.5V AAA batteries		

### ACCESSORIES

Main unit	1pc
Probe	2pcs
1.5V battery	3pcs
User Manual	1pc

## DIGITAL MULTIMETER

To measure DC Voltage, AC Voltage, DC Current, Resistance. Continuity tests of diode and circuit. 2000 counts display, With data hold, back light.

- Data hold
- Display backlight
- Low battery display
- Safety rating: CAT III 600V



### SPECIFICATION

Code	Function	Range	Resolution	Accuracy
	DC-Voltage	200mV/2V/20V/200V	100μV/1mV/10mV/100V	± (0.5%rdg+2dgt)
		600V	1V	± (0.8%rdg+2dgt)
	AC-Voltage	200V/600V	100mV1V	± (1.2%rdg+10dgt)
		200μA/2mA/20mA	0.1μA/1μA/10μA	± (1%rdg+2dgt)
	DC-Current	200mA	100μA	± (1.5%rdg+2dgt)
		10A	10mA	± (3.0%rdg+2dgt)
1030-2100	Resistance	200Ω/2KΩ/20KΩ	0.1Ω/1Ω/10Ω/100Ω	± (0.8%rdg+3dgt)
		200KΩ/2mΩ		
	Continuity buzzer	about less than 70 ± 30Ω		
	Diode	Open circuit voltage 3.2V		
	Power supply	9V battery, NEDA 1604 6F22 006P type		

### ACCESSORIES

Main unit	1pc
Probe	2pcs
9V battery	1pc
User Manual	1pc

# RADIAL RUNOUT AND HEIGHT TESTER

- Literally, radial runout has a significant influence on the service life of high speed rotary cutting tools. Our Radial runout & height testing device is born for the radial runout detection of milling cutter, boring cutter and drill bit after clamping. In addition, while work with height gauge it will be able to test various length of clamped cutting tools.
- This device equipped principal axis which applies precision ball rotation shafting that can ensure the runout of main axis goes under 0.003mm and runout of the far-end (300mm) on axis goes under 0.005mm.
- Meanwhile, base of this device adopts refractory tire precision casting process cooperating with universal 3D lock' t magnetic base.
- **Measuring platform size: 290x175mm**
- **Measuring range: Φ350x Φ350mm**



Unit:mm

Code	Product Name	Contents
5720-0005	Radial Runout and Height Tester	with holder for 0.002mm graduation Dial Test Indicator [included] and Holder for tool holder shank ISO40/BT40, Digital Height Gauge [Optional]
5720-0010	Radial Runout and Height Tester	with holder for 0.002mm graduation Dial Test Indicator [included] and Holder for tool holder shank ISO50/BT50, Digital Height Gauge [Optional]

# HIGH ACCURACY DIGITAL HEIGHT GAUGE

- High accuracy for more accurate measuring
- Small in size and easy to move
- Wide applicable temperature range, can be used normally during 0-40°C
- High durability and the maximum measuring height up to 100mm



Code	7712-0045	7712-0040	7712-0036	7712-0035
Measuring Range	0-50mm			
Accuracy (20°C)	≤1µm	≤1.5µm	≤3µm	≤3µm
Repeatability (20°C)	0.2µm	0.5µm	1µm	1µm
Min. Readout	0.1µm	0.5µm	1µm	1µm
Response Speed	Max. up to 5000mm/s			
Measuring Force	1.0-1.5N	0.8-1.2N	0.8-1.2N	0.8-1.2N
External Output	USB			
Display	8 Bits Green LED	7 Bits Green LED	7 Bits Green LED	7 Bits Green LED
Probe	Ball Probe, Flat Probe, Conical Probe			
Unit	mm/inch			
Proper Working Environment	Temperature:0°C-40°C ; Humidity:20%-80%			
Table Size/mm	130x130	130x130	130x130	200x250
Power Adapter	Input: AC100-240V 50/60Hz ; Output:DC 5V/1A			
Accessories	Stand, Ball Tip, Flat Tip, Conical Tip, Handle , Power Adaptor			
Optional Accessories	Data Transmission Kit, Special Tips, Portable Battery			
Size/mm	200x138x397	200x138x397	200x138x397	250x200x387
Weight	11.6kg	11.6kg	11.6kg	25kg