Dasqua 2020-2021 (2nd Edition)





E-mail: online 2@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

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 Angles. (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 measur-

ing 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 fromstock (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.

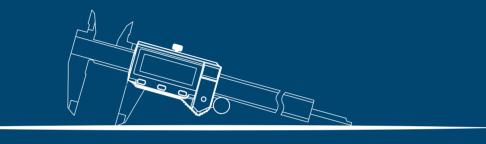
WARRANTY AND SERVICE/TRAINING COURSE

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).



CONTENTS

01	CALIPER		07	CALIBRATION GAUGE 	BLOCK		
	Calipers Special Calipers	001-022 023-032		Thread Plug Gauges Calibration Gauge Block Sets Pin Gauges	137-141 142-147 148-148		
02	MICROMETER		08	TOOL SETTING MEASU	RING GAUGE		
	Micrometers Special Micrometers	033-055 056-070		Precision Levels	149-160		
03	INDICATOR		09	COMPARATIVE MEASURING GAUGE			
	Dial Indicators Dial Test Indicators Dial Bore Gauges Thickness Gauges Magnetic Bases	071-085 086-092 093-098 099-107 107-115	10	Feeler Gauges Angle Gauges Taper Gauges Other Gauges WELDING GAUGES	161-165 166-168 169-170 170-171		
04	HEIGHT GAUGE		10		170 177		
	Height Gauges	116-119		Welding Gauges	172-177		
05	ANGLE MEASURING		11	COMBINATION KITS			
	Angle Measuring Tools Angle Comparing Tools	120-125 126-131		Measuring Tool Sets	178-184		
06	PRECISION LEVEL		12	INSTRUMENT			
06	PRECISION LEVEL			Instruments	185-215		
	Precision Levels	132-136					





VERNIER CALIPER

Distinct lines and figures

finish beam

Jaws ground to raise

the accuracy of measurement

laser etched on satin chrome

Surfaces of beam ground

(Parallelism less than 0.015,

20% better than normal) to

ensure smooth movement

110 120

throughout

MONOBLOCK VERNIER

Unit:mm

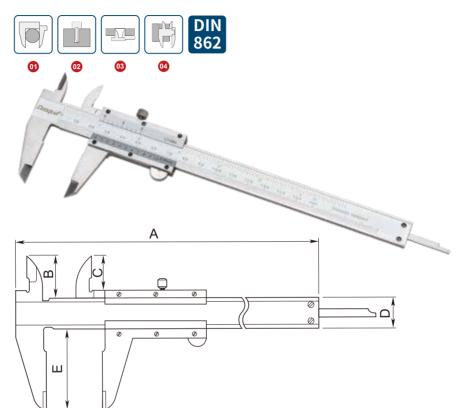
CALIPER

warranty cad in it

• Strictly made in accordance with DIN862

• Supplied in fitted solid ABS case and

1380-3015 0-300/0-12" 0.02/0.001" 410 28 22 20 64 0.03



- 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

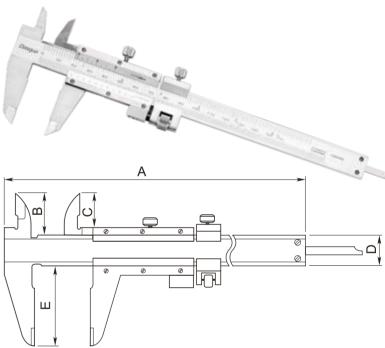
	·m	

Code	Range	Graduation	Α	В	С	D	Е	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







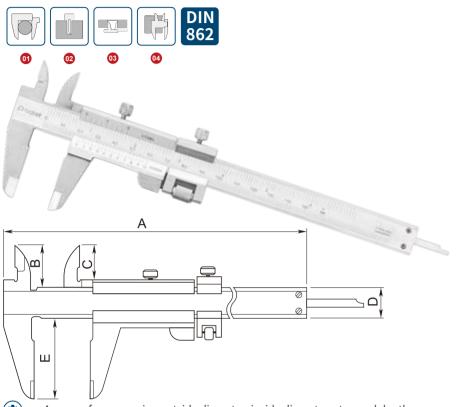
- 4 usages for measuring outside diameter, inside diameter, step and depth
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Distinct lines and figures etched against satin chrome finish
- With locking screw for stable reading
- With fine adjustment

Code	Range	Graduation	A	В	С	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

Dasqua*

MONOBLOCK VERNIER CALIPER

WITH FINE ADJUSTMENT



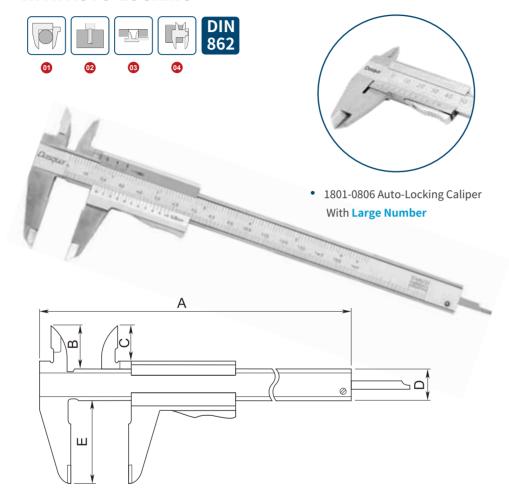
- 4 usages for measuring outside diameter, inside diameter, step and depth
- Made of solid stainless steel
- Strictly made in accordance with DIN862
- Distinct lines and figures etched against satin chrome finish
- With locking screw for stable reading
- With fine adjustment
- Monoblock structure

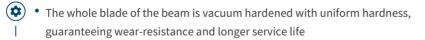
Unit:mm

Code Range		Graduation	Α	В	С	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





• 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	Α	В	С	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 DIN 861

MADE OF STEEL



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

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 DIN 861

MADE OF CERAMIC



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

(5/s)		Unit:mm
Code	Grade	Contents
6201-3505	1	1 each of gauge block 41.3,131.4;

DEPTH BASE ATTACHMENT



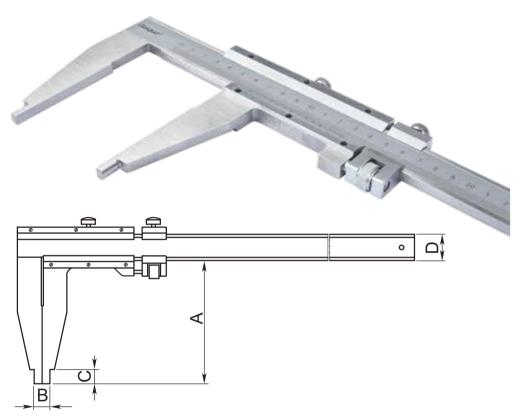
- Increasing the stability of caliper measurement
- Made of solid stainless steel
- Measuring surfaces ground for ultimate accuracy

Code	A	В	С	D	E	Application
01-1001	16.5	9	75	18	30	Base Length 75mm,for width of the beam 16mm



VERNIER CALIPER

WITH NIB STYLE JAWS



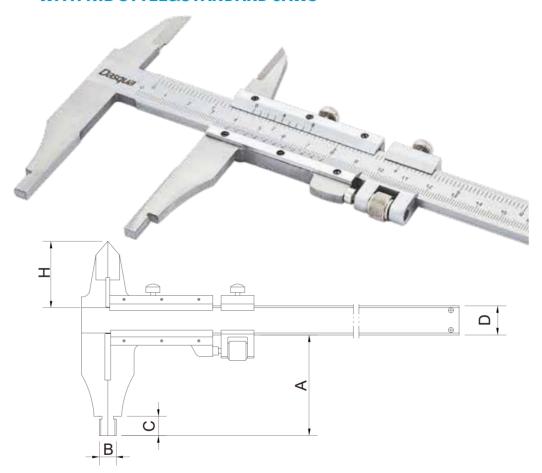
- With fine adjustment
 - Hardened ground jaws with precision lapped measuring faces
- Satin chrome finish, hardened stainless steel throughout for longer life
 - Distinct lines and figures etched against satin chrome finish

Unit:mm

Code	Range	Graduation	Α	В	С	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



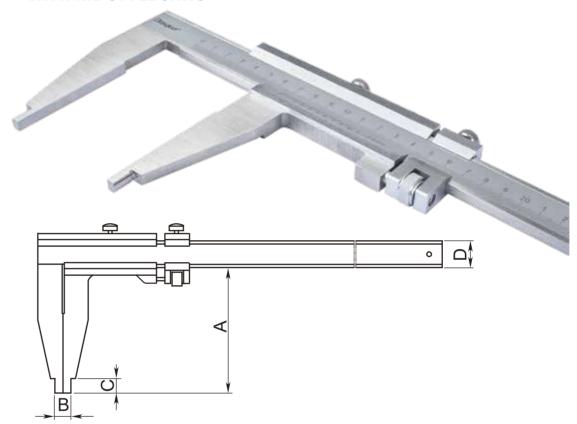
- With fine adjustment
- Hardened ground jaws with precision lapped measuring faces
- Satin chrome finish, hardened stainless steel throughout for longer life
 - Distinct lines and figures etched against satin chrome finish

Unit:mm

								0
Code	Range	Graduation	A	В	С	D	н	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



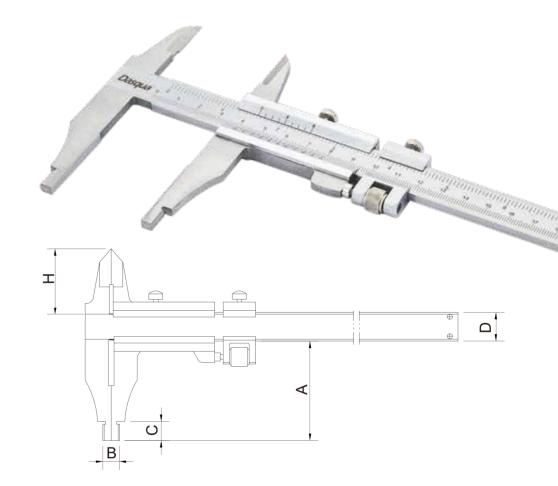
- With fine adjustment
 - Hardened ground jaws with precision lapped measuring faces
- Satin chrome finish, hardened stainless steel throughout for longer life
 - Distinct lines and figures etched against satin chrome finish

Unit:mm

Code	Range	Graduation	A	В	С	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

Code	Range	Graduation	Α	В	С	D	н	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



• Precision ground racks

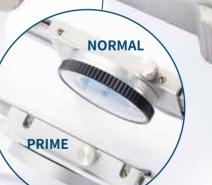
Top quality inner works with unique precision ground racks





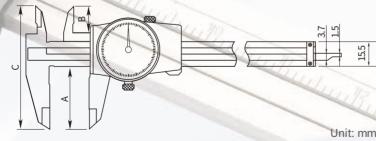
Metal housing improving

its shock-proof ability



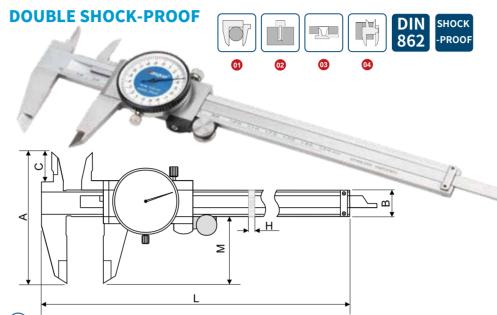
 Jaws ground to raise the accuracy of measurement

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



Code	Range	Graduation	А	В	С	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



- 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

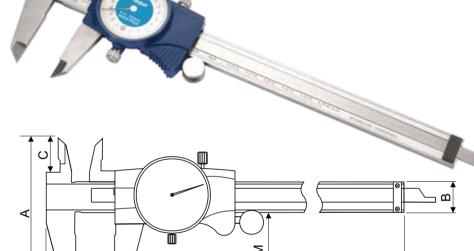
	m	

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

DIAL CALIPER









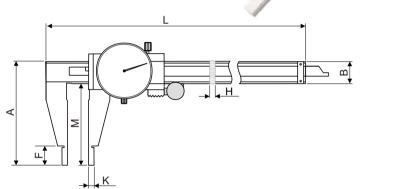
- 4 usages for measuring outside diameter, inside diameter step and depth
- Strictly made in accordance with DIN862
- With locking screw for stable reading
- Large dial for easy and clear reading
 - With dustproof shield for easy holding

Code	Range	Graduation	L	Α	В	С	М	Accuracy
1345-0105	0-150	0.02	236	77	16	16.5	40	±0.03
1345-0110	0-200	0.02	285	88	16	19.5	48	±0.03
1345-0115	0-300	0.02	410	110	20	22.5	62	±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	Α	В	F	н	K	М	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"



OIL & WATER PROOF DIGITAL CALIPER

Dasqua Bu















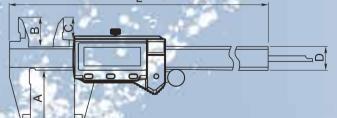
 Not only IP67 against water and dust, but also good oil proof ability Digit Size:11.5mm • 20% larger than normal screens; Larger size digital screen for easy reading



 Electronic components sealed to improve its anti-liquid ability

 Jaws ground to raise the accuracy of

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



Code	Range	Resolution	Α	В	С	D	L	Accuracy
15-1005-A	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.02/0.001"
15-1010-A	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
15-1015-A	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	0.03/0.0015"

DIGITAL CALIPER

WITH CARBIDE-TIPPED JAW

DIN 862 mm Data output

BIG SCREEN DIGITAL CALIPER

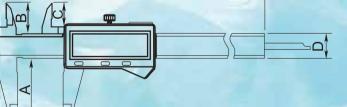


 Surfaces of beam ground (Parallelism:0.015) to ensure smooth movement throughout

Digit Size:11.5mm

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

With fractional function



Special glass grating adapted

ı	Code	Range	Resolution	Α	В	С	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"

• Mini model for great portability

• Made of solid stainless steel

• Strictly made in accordance with DIN862

								Unit:m
Code	Range	Resolution	Α	В	С	D	L	Accuracy
2050-0005	0-100/0-4"	0.01/0.0005"	30	17	12	13	170	0.02/0.00

MINI DIGITAL CALIPER

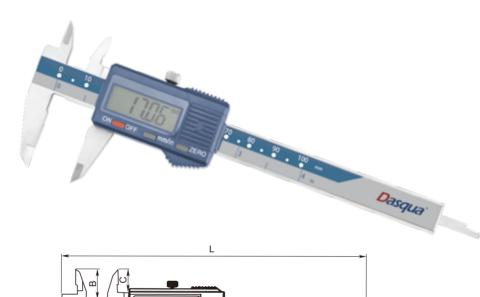




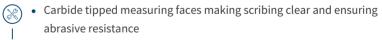














- Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth throughout

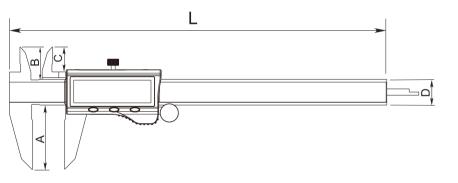
U	n	II'	t:	n	11	m

Code	Range	Resolution	Α	В	С	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





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

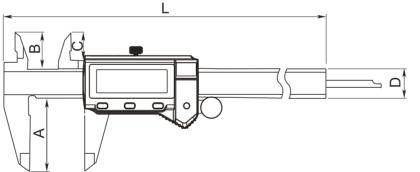


								Unit:mm
Code	Range	Resolution	Α	В	С	D	L	Accuracy
2115-2305	0-150/0-6"	0.01/0.0005"	40	20	15.5	16	235	0.02/0.001"
2115-2310	0-200/0-8"	0.01/0.0005"	50	24	19.5	16	287	0.03/0.0015"
2115-2315	0-300/0-12"	0.01/0.0005"	60	26	21.5	16	390	0.03/0.0015"









• With calibration certificate

• 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

IP54 WATER PROOF DIGITAL CALIPER

Code	Range	Resolution	Α	В	С	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 ABSOLUTE FUNCTION

Code	Range	Resolution	Α	В	С	D	L	Accuracy
2010-1005	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.02/0.001"
2010-1010	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
2010-1015	0-300/0-12"	0.01/0.0005"/1/128"	60	26	21.5	16	390	0.03/0.0015"

WITH 0.005MM RESOLUTION

Unit:mm

Code	Range	Resolution	Α	В	С	D	L	Accuracy
2005-1005	0-150/0-6"	0.005/0.0005"	40	20	15.5	16	235	0.02/0.001"
2005-1010	0-200/0-8"	0.005/0.0005"	50	24	19.5	16	287	0.03/0.0015"
2005-1015	0-300/0-12"	0.005/0.0005"	60	26	21.5	16	390	0.03/0.0015"

WITH WIRELESS SYSTEM

Code	Range	Resolution	Α	В	С	D	L	Accuracy
2025-1005	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.5	16	235	0.02/0.001"
2025-1010	0-200/0-8"	0.01/0.0005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
2025-1015	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





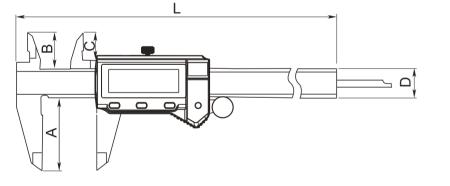








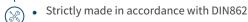




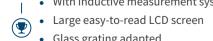








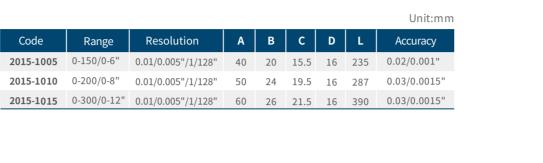




Glass grating adapted

IP67 protection against liquid

IP54 WATER PROOF HEAVY DUTY DIGITAL CALIPER





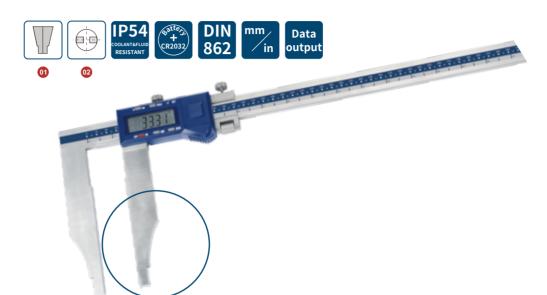
Unit:mm

Code	Range	Resolution	Α	В	С	D	L	Accuracy
2015-2405	0-150/0-6"	0.01/0.005"/1/128"	40	20	15.5	16	235	0.02/0.001"
2015-2410	0-200/0-8"	0.01/0.005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
2015-2415	0-300/0-12"	0.01/0.005"/1/128"	60	26	21.5	16	390	0.03/0.0015"

WITH WIRELESS SYSTEM

Unit:mm

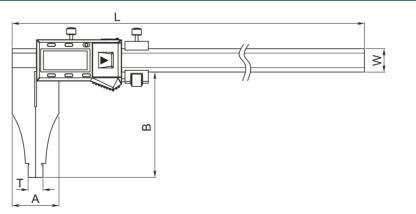
Code	Range	Resolution	Α	В	С	D	L	Accuracy
2020-1005	0-150/0-6"	0.01/0.005"/1/128"	40	20	15.5	16	235	0.02/0.001"
2020-1010	0-200/0-8"	0.01/0.005"/1/128"	50	24	19.5	16	287	0.03/0.0015"
2020-1015	0-300/0-12"	0.01/0.005"/1/128"	60	26	21.5	16	390	0.03/0.0015"



EUROPEAN STYLE

Unit:mm

Code	Range	Resolution	L	А	В	W	Т	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	В	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

Code	Range	Resolution	L	Α	В	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"



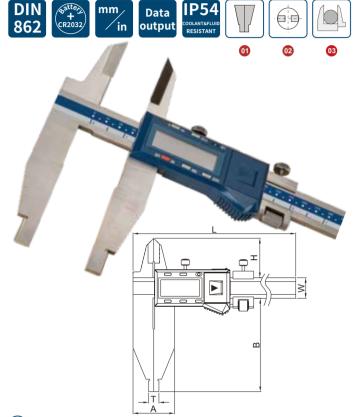




CALIPER

IP54 WATER PROOF HEAVY DUTY DIGITAL CALIPER

WITH UPPER JAWS

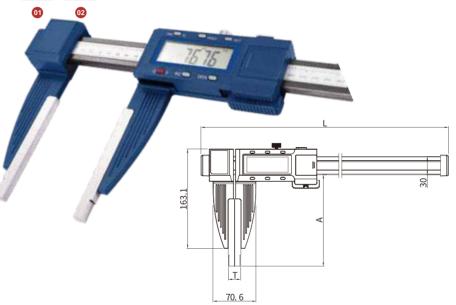


- With sturdy frame and big size for high stability
 - Made of solid stainless steel
- Strictly made in accordance with DIN862
- With fine adjustment
- Unit:mm 0.01/0.0005" 770 54 150 24 20 60 0.05/0.002" **2710-1115** 0-1000/0-40" 0.01/0.0005" 1210 60 150 30 20 63 0.06/0.0025"

With Data-Output and Metric-Inch-Fraction Conversion function

IP65 WATER PROOF ULTRA-LIGHT GIANT CALIPER







• Lightweight 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

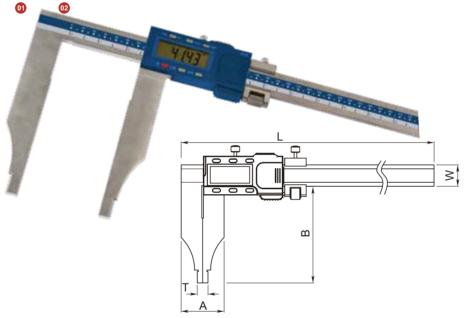
Unit:mm

Code	Range	Resolution	Α	Т	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

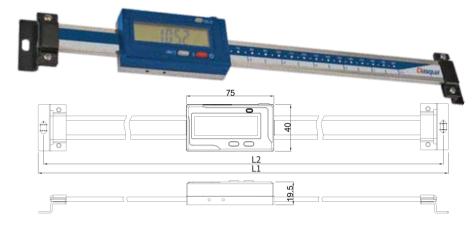


- With Data-Output and Metric-Inch-Fraction Conversion function
 - IP65 protection against liquid
- Product built-in wireless system is optional (Code: 2510-3115)

Unit:mm

Code	Range	Resolution	L	A	В	w	Т	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"

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	L 2	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

Code	Range	Resolution	L1	L 2	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"

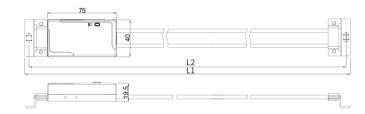




IP54 WATER PROOF DIGITAL SCALE

WITH SEPARATE READOUT







• Made of solid stainless steel, widened and thickened



• 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

racy
001"
0015"
0015"
002"
0025"
0(

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

					OIIIC.IIIIII
Code	Range	Resolution	L1	L 2	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"

Unit·mm

MONOBLOCK DEPTH **VERNIER GAUGE**



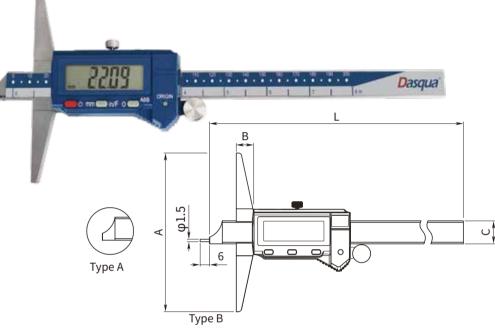
- Hardened ground jaws with precision lapped measuring faces
- Satin chrome finish, hardened stainless steel throughout for longer life
- Distinct lines and figures etched against satin chrome finish

					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

WITH ABSOLUTE FUNCTION





- Used to measure step and depth
- 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
- With Absolute-Reference System and no need to set the reference point

at every power-on

U	n	it	:	r	n	r	1

Code	Range	Resolution	Α	В	С	L	Style	Accuracy
2230-8105	0-150/0-6"	0.01/0.0005"	100	11	14.5	232.5	Туре А	0.03/0.0015"
2230-8115	0-200/0-8"	0.01/0.0005"	100	11	14.5	285	Туре А	0.03/0.0015"
2230-8125	0-300/0-12"	0.01/0.0005"	150	13.5	14.5	390	Туре А	0.04/0.0015"
2250-2105	0-150/0-6"	0.01/0.0005"	100	11	14.5	232.5	Туре В	0.03/0.0015"
2250-2110	0-200/0-8"	0.01/0.0005"	100	11	14.5	285	Туре В	0.03/0.0015"
2250-2115	0-300/0-12"	0.01/0.0005"	150	13.5	14.5	390	Туре В	0.04/0.0015"

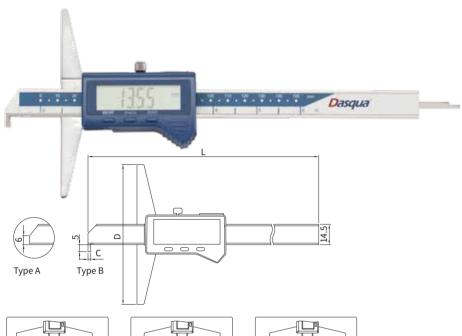




DIGITAL DEPTH CALIPER

WITH BAR

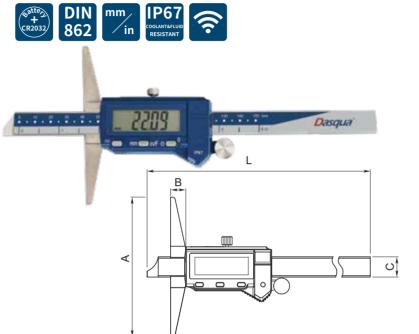




- Used to measure step and depth
- Made of solid stainless steel, widened and thickened
- Strictly made in accordance with DIN862
 - Hardened, ground and lapped measuring surfaces for longer service life

Code	Range	Resolution	Α	С	L	Style	Accuracy
2001-2005	0-150/0-6"	0.01/0.0005"	100	/	230	Туре А	±0.03
2001-2010	0-200/0-8"	0.01/0.0005"	100	/	280	Туре А	±0.03
2001-2015	0-300/0-12"	0.01/0.0005"	100	/	380	Туре А	±0.04
2001-1005	0-150/0-6"	0.01/0.0005"	100	2	230	Туре В	±0.03
2001-1010	0-200/0-8"	0.01/0.0005"	100	2	280	Туре В	±0.03
2001-1015	0-300/0-12"	0.01/0.0005"	100	2	380	Туре В	±0.04

IP67 WATER PROOF DIGITAL DEPTH CALIPER



- Used to measure step and depth
- 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 Unit:mm

Code	Range	Resolution	A	В	С	L	Accuracy
2330-1105	0-150/0-6"	0.01/0.0005"	100	11	14.5	232.5	0.03/0.0015"
2330-1110	0-200/0-8"	0.01/0.0005"	100	11	14.5	285	0.03/0.0015"
2330-1115	0-300/0-12"	0.01/0.0005"	150	13.5	14.5	390	0.04/0.0015"

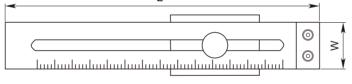
WITH WIRELESS SYSTEM

Unit:mm

Code	Range	Resolution	A	В	С	L	Accuracy
2330-3105	0-150/0-6"	0.01/0.0005"	100	11	14.5	232.5	0.03/0.0015"
2330-3110	0-200/0-8"	0.01/0.0005"	100	11	14.5	285	0.03/0.0015"
2330-3115	0-300/0-12"	0.01/0.0005"	150	13.5	14.5	390	0.04/0.0015"

MARKING GAUGE



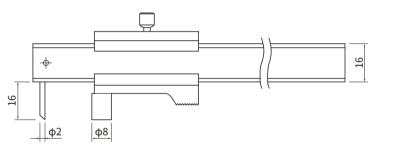


- Perfect tool for engineers, craft persons, model makers for a variety of marking out jobs
- Made of high quality steel
- Stress-relieved and precision ground in pairs
- Distinct lines and figures laser etched on beam

					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

	0.	 	• •
A			ч

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

Dasqua° 023



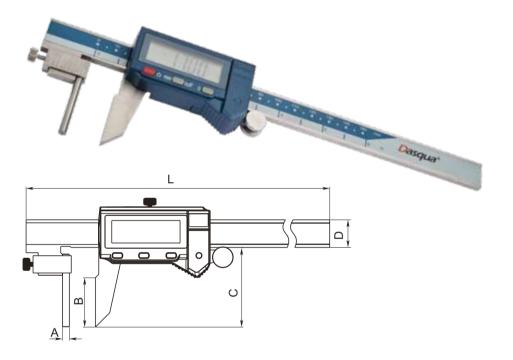
DIGITAL TUBE THICKNESS CALIPER











- Used to measure tube thickness
 - 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	Α	В	С	D	L	Accuracy
2060-1105	0-150/0-6"	0.01/0.0005"/ 1/128"	Ψ4	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"

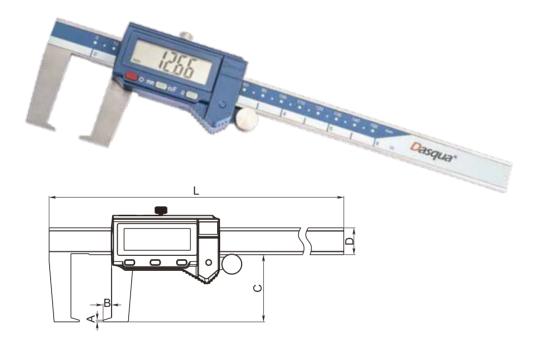
DIGITAL OUTSIDE NECK CALIPER













- 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

- 1	Init-mon	
·	Jnit:mm	

Code	Range	Resolution	Α	В	С	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"

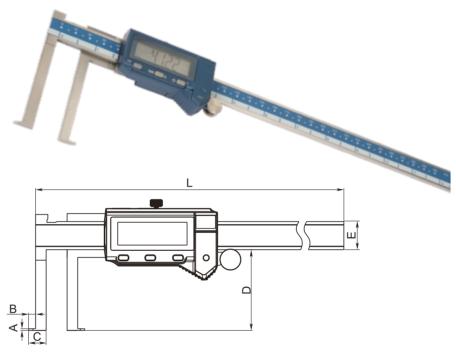
DIGITAL INSIDE GROOVE MEASURING CALIPER













- 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	Α	В	С	D	Ε	L	Accurac
2570-5105	10-150/0.39-6"	0.01/0.0005"	1	4	10	46	16	235	0.03/0.001
2570-5110	11-200/0.43-8"	0.01/0.0005"	1	5	11	56	16	287	0.03/0.001
2570-5115	12-300/0.47-12"	0.01/0.0005"	1.5	5	12	66	16	390	0.04/0.001

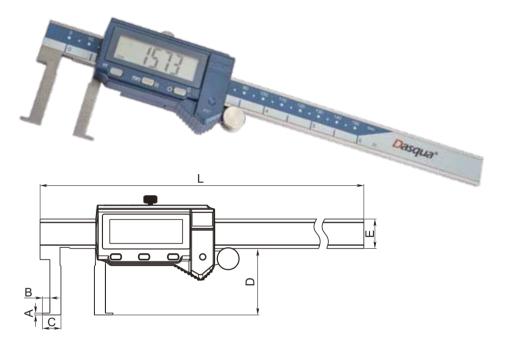
DIGITAL INSIDE NECK CALIPER

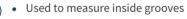












Made of solid stainless steel

• 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

Code	Range	Resolution	Α	В	С	D	Е	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





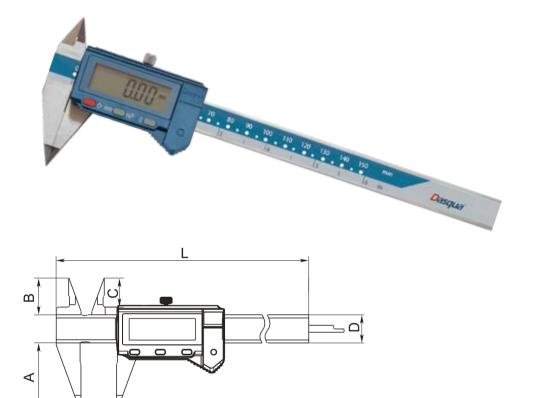
DIGITAL POINT CALIPER

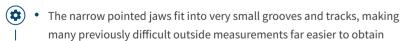












• Strictly made in accordance with DIN862

With depth bar

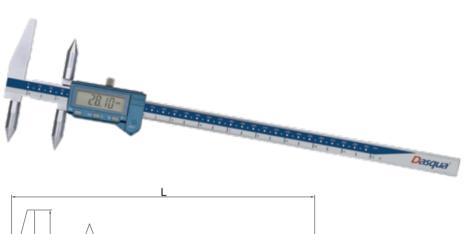
Dasqua°

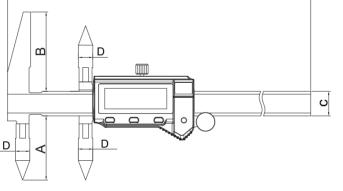
y									
Code	Range	Resolution	Α	В	С	D	L	Accuracy	
2090-0010	0-150/0-6"	0.01/0.0005"/1/128"	40	20	15.4	16	235	0.03/0.0015"	

DIGITAL CENTERLINE & APOTHEM CALIPER









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

Code	Apothem Range	Centerline Range	Resolution	A	В	С	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

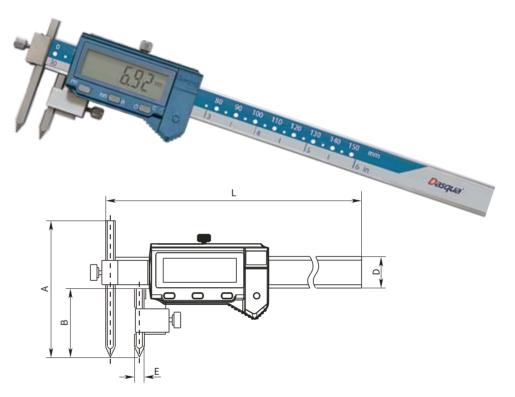
Unit:mm

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

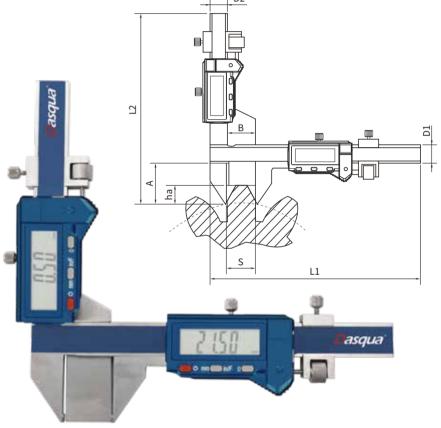
								Official
Code	Range	Resolution	A	В	D	E	L	Accuracy
2730-3105	10-150	0.01/0.0005"	65	32	16	φ10	236	±0.05
2730-3110	10-200	0.01/0.0005"	65	32	16	φ10	286	±0.07
2730-3115	10-300	0.01/0.0005"	65	32	16	φ10	396	±0.09

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



Code	Range	Resolution	L1	L2	Α	В	D 1	D 2	Accuracy
75-1105	M1-25	0.01/0.0005"/1/128"	170	165	30.5	21	16	16	±0.04
75-1110	M5-50	0.01/0.0005"/1/128"	220	190	55	50.5	16	16	±0.04



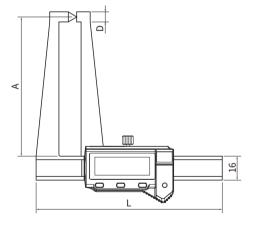
DIGITAL DISK-BRAKE CALIPER













- 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

0.01/0.0005"/1/128" 93 6 230

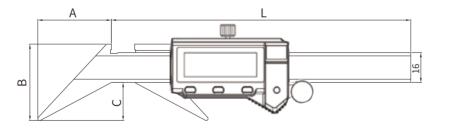
DIGITAL ARC-RADIUS CALIPER







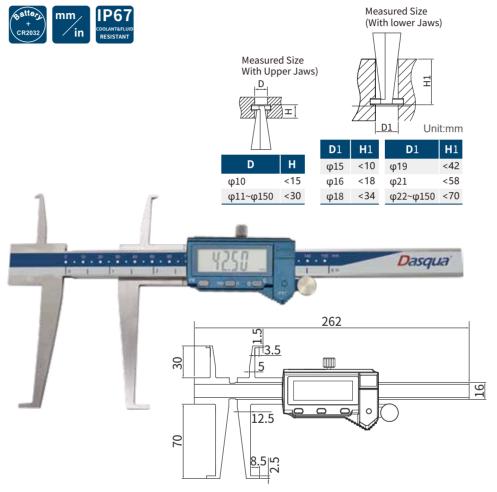




- Used to measure non-full-round arc
- Made of solid stainless steel
- IP54 protection against liquid
 - Hardened, ground and lapped measuring surfaces for longer service life
- Measuring surfaces ground for ultimate accuracy and smooth movement throughout

Code	Range	Resolution	Α	В	С	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



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

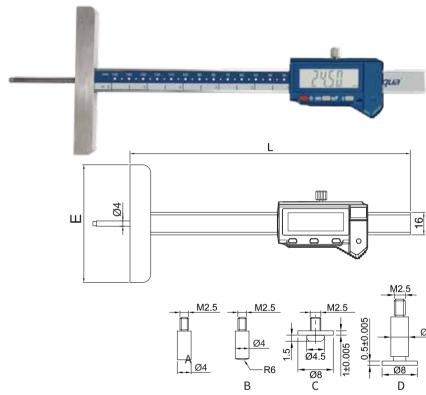
					Unit:mm
Cod	de	Range of upper jaw	Range of lower jaw	Resolution	Accuracy
2240-	0025	10-150/0.39-6"	15-150/0.59-6"	0.01/0.0005"	±0.04
2240-	0026	10-200/0.39-8"	15-200/0.59-8"	0.01/0.0005"	±0.04
2240-0	0027	10-300/0.39-12"	15-300/0.59-12"	0.01/0.0005"	±0.05

DIGITAL DEPTH GAUGE

WITH ROUND DEPTH BAR







Remark: 4 types of contact points optional

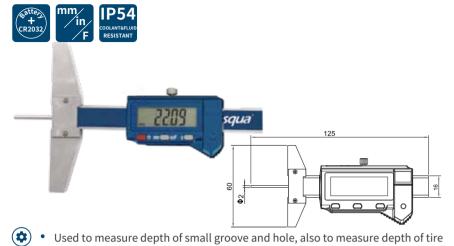
- Specially designed for narrow bore depth
 - With thin and long depth measuring bar
- Pointed contact, flat contact or spherical contact is optional.
- Made of high quality stainless steel
- Zero setting at any position

Code	Range	Resolution	L	E	Accuracy
2730-0010	0-100/0-4"	0.01/0.0005"/1/128"	200	85	±0.02
2730-0015	0-120/0-4.7"	0.01/0.0005"/1/128"	300	101	±0.03
2730-0020	0-200/0-8"	0.01/0.0005"/1/128"	300	101	±0.03
2730-0025	0-300/0-12"	0.01/0.0005"/1/128"	400	101	±0.04



CALIPER

MINI DIGITAL DEPTH GAUGE



With thin and long depth measuring bar

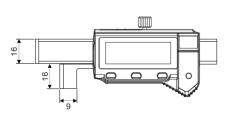
Zero setting at any position

• Made of high quality stainless steel

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

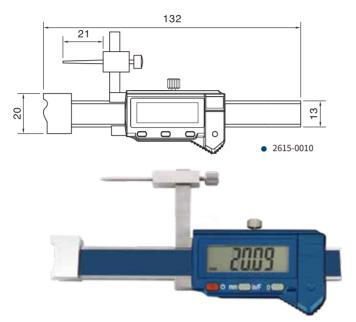
Code	Range	Resolution	Accuracy
2615-0005	0-12.7	0.01/0.0005"/1/128"	±0.03

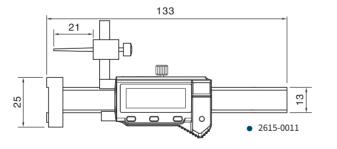
DIGITAL STEP & GAP GAUGE







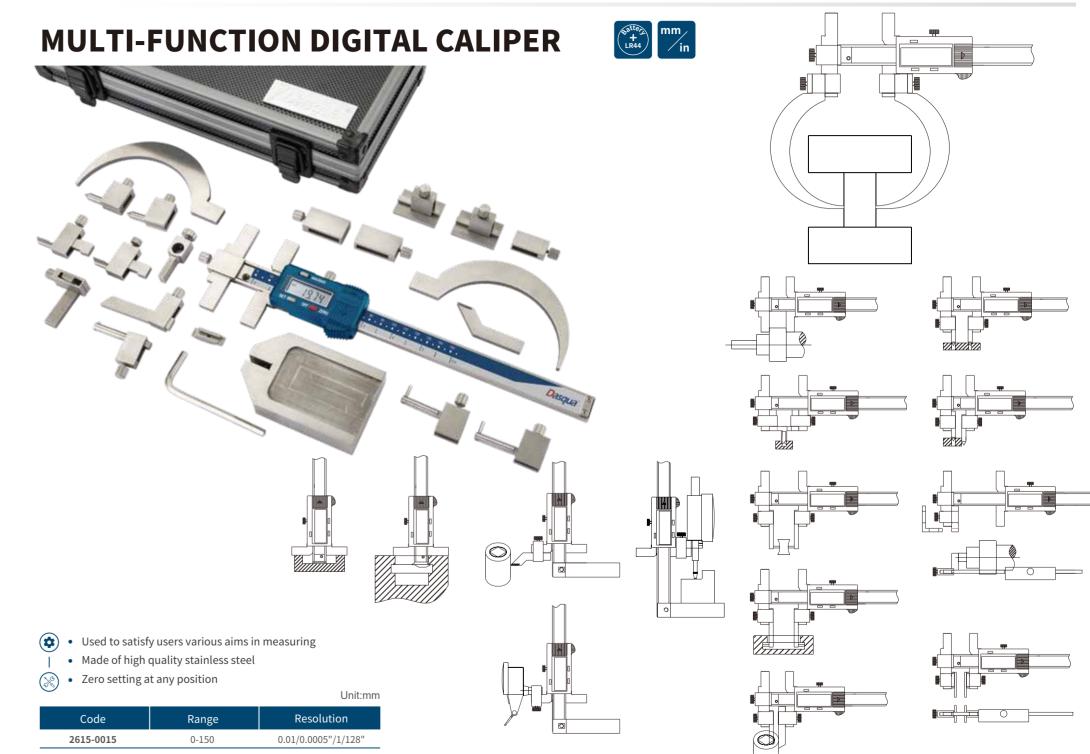




- Digital step gauge, also known as high and low gauges
 - Used for checking the mutual position of two adjacent surfaces of vehicles
- Zero setting at any position

		*4						
u	n	IT	٠.	m	٦r	Υ	٦.	
v		10	. !					

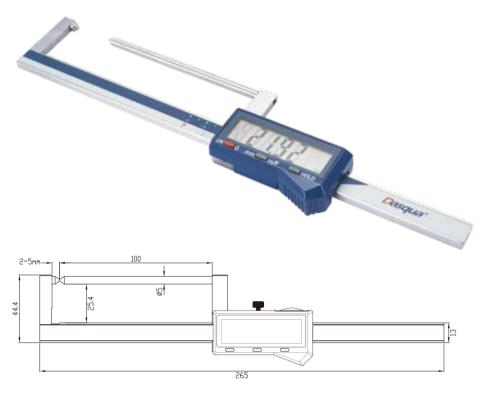
Code	Range	Resolution	Accuracy
2615-0010	-10-30	0.01/0.0005"/1/128"	±0.02
2615-0011	-10-30	0.01/0.0005"/1/128"	±0.02

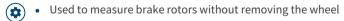


BRAKE ROTOR GAUGE WHEEL ON CALIPER









Made of solid stainless steel

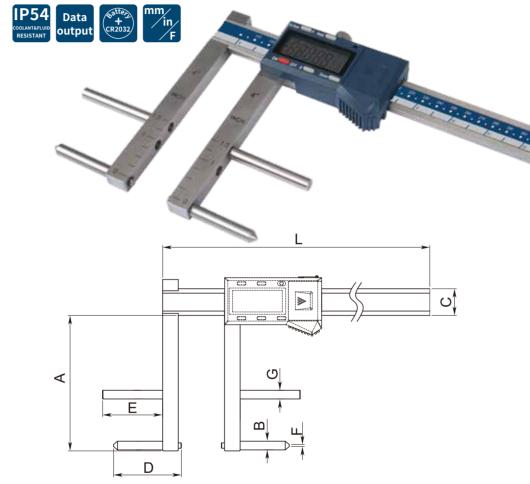
• Hold function for easy recording of measurement

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





Made of solid stainless steel

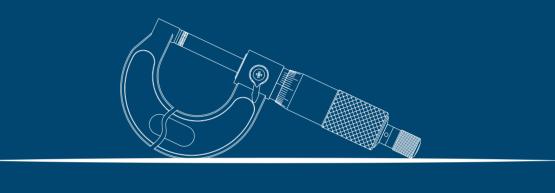
Strictly made in accordance with DIN862

With Hold and Metric-Inch-Fraction Conversion function

Hardened, ground and lapped measuring surfaces for longer service life

Code	Range	Resolution	Α	В	С	D	Ε	F	G	L	Accuracy
2220-8103	100-500/4-20"	0.01/0.0005"/1/64"	101 35	m6 5	20	50.8	45	(n1 5	(n.6.5	520	0.06/0.0025"

Unit:mm



MICROMETER

BORN IN ITALY, RAISED BY THE WORLD

OUTSIDE MICROMETER

WITH STAINLESS STEEL SPINDLE



• Strictly made in accordance with DIN 863

• Spindle thread hardened, ground and lapped for ultimate accuracy

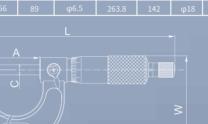






• Clear graduations laser-etched

constant force(5-8N normal standar





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

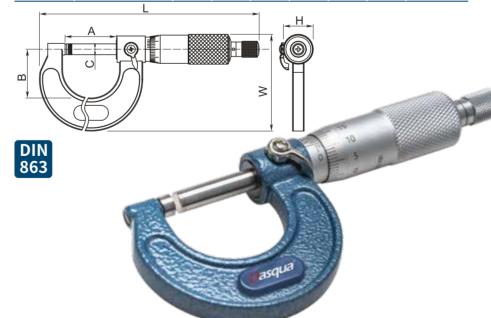
Clear graduations laser-etched on satin chrome finish for easy reading

With spindle lock

• Carbide measuring surfaces ground for longer service life

Unit:mm

Code	Range*Graduation	A	В	С	L	W	Н	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"



OUTSIDE MICROMETER

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

Code	Range*Graduation	L	В	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





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



Code	Range	Graduation	L	н	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



Code	Range	Graduation	L	н	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**



- 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



In	It:	m	m	

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 $\phi30$
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 $\phi30$

MADE OF STAINLESS STEEL



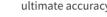
Code	Grade	Contents
6111-1210	0	The size of each gauge block 2.5,5.1,7.7,10.3,12.9,15.0,17.6,20.2,22.8,25.0; 1 pc optical with a flat glass $\phi30$
6111-1211	1	The size of each gauge block 2.5,5.1,7.7,10.3,12.9,15.0,17.6,20.2,22.8,25.0; 1 pc optical with a flat glass $\phi30$

OUTSIDE MICROMETER

WITH ADJUSTABLE ANVILS



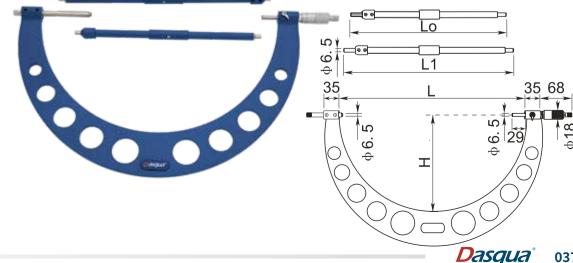
- Wide measuring range with adjustable extension anvil collars
- Strictly made in accordance with DIN 863
- With ratchet stop for constant pressure
- Spindle thread hardened, ground and lapped for



- Clear graduations laser-etched on satin chrome finish for easy reading
- With spindle lock



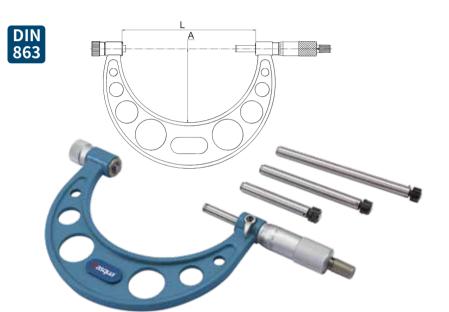
Code	Range	Graduation	L	н	Lo/L1	Accuracy
4800-0005	300-400	0.01	410	215	325/375	0.011
4800-0010	400-500	0.01	510	265	425/475	0.013
4800-0015	500-600	0.01	610	315	525/575	0.015
4800-0020	600-700	0.01	710	365	625/675	0.016
4800-0025	700-800	0.01	810	415	725/775	0.018
4800-0030	800-900	0.01	910	465	825/875	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"



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



			٠	٤.				
U	r	٦		Т	•	ı	Υ	٦

Code	Range	Graduation	А	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	Α	В	С	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



- 1	Пr	n id	 m	m

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

L	_	i÷	n		r		
J	ı	ΙL	П	I	I	I	I

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

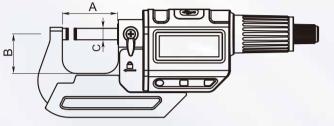
New special carbide

anvil instead of

off carbide tip

used on measuring

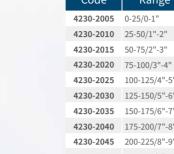
traditional easy-wear



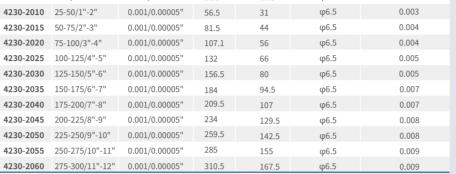










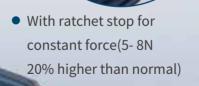












IP65 WATER PROOF DIGITAL OUTSIDE MICROMETER

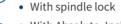


• With large easy-to-read LCD screen

• Strictly made in accordance with DIN863



• Spindle hardened, ground and lapped for ultimate accuracy







IP65 protection against liquid

• Stainless steel newly adapted on spindle

• Carbide measuring surfaces ground for longer service life

		n	

Code	Range	Resolution	Α	В	С	L	W	н	Accuracy
4410-1105	0-25/0-1"	0.001/0.00005"	29.8	24.5	φ6.5	159.5	59.6	23.5	0.003/0.00015
4410-1110	25-50/1-2"	0.001/0.00005"	55.3	31	φ6.5	188.5	75.7	23.5	0.003/0.00015
4410-1115	50-75/2-3"	0.001/0.00005"	80.8	44	φ6.5	219	90.7	23.5	0.004/0.00015
4410-1120	75-100/3-4"	0.001/0.00005"	105.8	56	φ6.5	246.5	107.2	23.5	0.004/0.00015
4410-1125	100-125/4-5"	0.001/0.00005"	130.8	68	φ6.5	278	125.3	23.5	0.005/0.0002"
4410-1130	125-150/5-6"	0.001/0.00005"	155.8	81	φ6.5	307.5	141.3	23.5	0.005/0.0002"



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

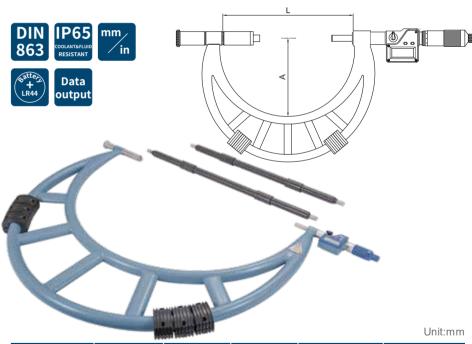


• Standard collars: Within 1000mm/40": 25mm/1", 50mm/2"



· Pipe combined frame for light weight and high rigidity

• IP65 protection against liquid



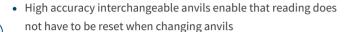
Code	Range	A	L	Resolution	Accuracy
4905-0005	300-400	224	409	0.001/0.00005"	0.011
4905-0006	400-500	275	509	0.001/0.00005"	0.013
4905-0007	500-600	321	609	0.001/0.00005"	0.015
4905-0008	600-700	371	709	0.001/0.00005"	0.016
4905-0009	700-800	426	809	0.001/0.00005"	0.018
4905-0010	800-900	476	909	0.001/0.00005"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



IP65 WATER PROOF OUTSIDE MICROMETER

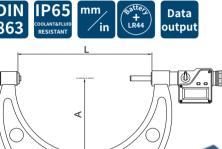
WITH INTERCHANGEABLE ANVILS

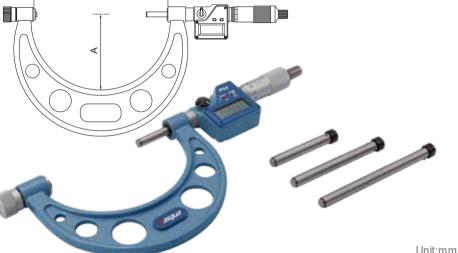






IP65 protection against liquid





				OIIIL.IIIII		
Code	Range	Resolution	Anvil(pcs)	Α	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

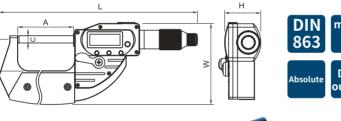
IP65 WATER PROOF DIGITAL QUICK-MOVE MICROMETER

Code	Range	Resolution	Α	В	С	L	W	Н	Accuracy
4220-2105	0-25/0-1"	0.001/0.00005"	29.8	25.4	φ6.5	168.6	64.6	30.8	0.003/0.00015
4220-2110	25-50/1-2"	0.001/0.00005"	55.3	31	φ6.5	197.2	80.5	30.8	0.003/0.00015
4220-2115	50-75/2-3"	0.001/0.00005"	80.3	44	φ6.5	227.5	96	30.8	0.004/0.00015
4220-2120	75-100/3-4"	0.001/0.00005"	105.3	56	φ6.5	257.6	112.5	30.8	0.004/0.00015

WITH WIRELESS SYSTEM

Unit:mm

Code	Range	Resolution	Α	В	С	L	W	н	Accuracy
4610-3105	0-25/0-1"	0.001/0.00005"	29.8	25.4	φ6.5	168.6	64.6	30.8	0.003/0.00015"
4610-3110	25-50/1-2"	0.001/0.00005"	55.3	31	φ6.5	197.2	80.5	30.8	0.003/0.00015
4610-3115	50-75/2-3"	0.001/0.00005"	80.3	44	φ6.5	227.5	96	30.8	0.004/0.00015"
4610-3120	75-100/3-4"	0.001/0.00005"	105.3	56	φ6.5	257.6	112.5	30.8	0.004/0.00015







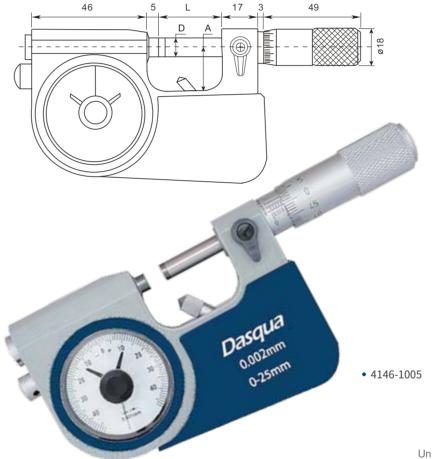






DIAL SNAP MICROMETER

- Retractable anvils with indicator to quickly check go/no-go of mass-produced parts
- Clear graduations laser-etched on satin chrome finish for easy reading for
- double-checking
- Spindle hardened, ground and lapped for ultimate accuracy
- With spindle lock



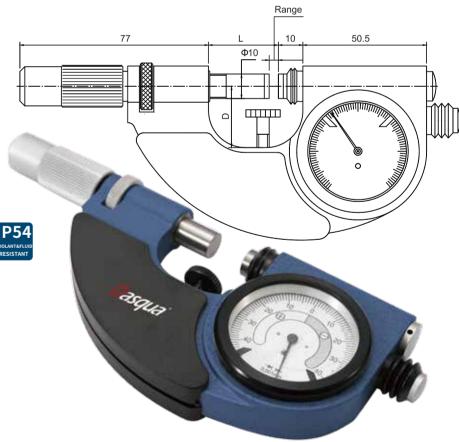
Un	it:	m	m	

Code	Range	Graduation of Micrometer Head	Graduation of Indicator	A	D	L
4146-1005	0-25	0.002	0.001	19	φ6.5	28.5
4146-1010	25-50	0.002	0.001	30	φ6.5	53.5
4146-1015	50-75	0.002	0.001	45	φ6.5	78.5
4146-1020	75-100	0.002	0.001	57	φ6.5	103.5
4146-1000	0-25	0.002	0.001	19	φ8	28.5

DIAL SNAP GAUGE

- Strictly made in accordance with DIN863
- Direct GO/NG judgement for mass produced parts
- Operating and display units antiglare with satin chrome finish
- Adjustable tolerance makers
- Constant measuring force
 - IP54 protection against liquid
 - Carbide measuring face: Φ10

Code	Range	Graduation	L	D
4146-5105	0-25	0.001	28.5	25
4146-5110	25-50	0.001	53.5	35
4146-5115	50-75	0.001	78.5	47.5
4146-5120	75-100	0.001	103.5	60

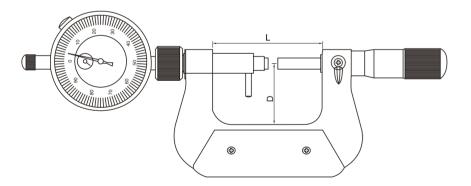


MICROMETER

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





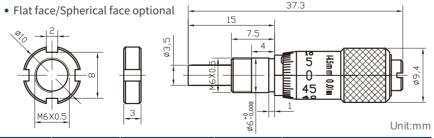
I Init·mm

					Officialiti
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



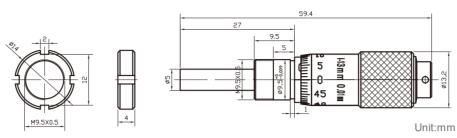
6.5MM MICROMETER HEAD

- 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



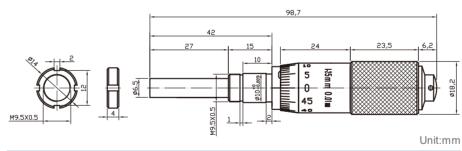
Code	Range	Graduation	Accuracy	Remark
4811-8105	0-6.5	0.01	0.04	/
4833-8105	0-6.5	0.01	0.04	W/Clamp Nut
4733-8105	0-6.5	0.01	0.04	W/Clamp Nut/Spherical

13MM MICROMETER HEAD



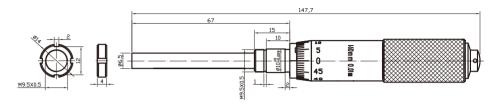
Code	Range	Graduation	Accuracy	Remark
4811-8110	0-13	0.01	0.04	/
4833-8110	0-13	0.01	0.04	W/Clamp Nut
4811-7310	0-13	0.01	0.04	W/Spindle Lock
4833-7310	0-13	0.01	0.04	W/Clamp Nut+W/Spindle Lock
4711-8110	0-13	0.01	0.04	Spherical
4733-8110	0-13	0.01	0.04	W/Clamp Nut/Spherical
4711-7314	0-13	0.01	0.04	W/Spindle Lock/Spherical
4733-7310	0-13	0.01	0.04	W/Clamp Nut+W/Spindle Lock/Spherical

25MM MICROMETER HEAD



Code	Range	Graduation	Accuracy	Remark
4811-8115-A	0-25	0.01	0.04	/
4833-8115-A	0-25	0.01	0.04	W/Clamp Nut
4811-7315-A	0-25	0.01	0.04	W/Spindle Lock
4833-7315-A	0-25	0.01	0.04	W/Clamp Nut+W/Spindle Lock
4711-8115-A	0-25	0.01	0.04	Spherical
4733-8115-A	0-25	0.01	0.04	W/Clamp Nut/Spherical
4711-7315-A	0-25	0.01	0.04	W/Spindle Lock/Spherical
4733-7315-A	0-25	0.01	0.04	W/Clamp Nut+W/Spindle Lock/Spherical

50MM MICROMETER HEAD



Unit:mm

Code	Range	Graduation	Accuracy	Remark
311-8120-A	0-50	0.01	0.04	/
33-8120-A	0-50	0.01	0.04	W/Clamp Nut
311-7320-A	0-50	0.01	0.04	W/Spindle Lock
33-7320-A	0-50	0.01	0.04	W/Clamp Nut+W/Spindle Lock
11-8120-A	0-50	0.01	0.04	Spherical
′33-8120-A	0-50	0.01	0.04	W/Clamp Nut/Spherical
11-7320-A	0-50	0.01	0.04	W/Spindle Lock/Spherical
′33-7320-A	0-50	0.01	0.04	W/Clamp Nut+W/Spindle Lock/Spherical

INCH MICROMETER HEAD



- 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

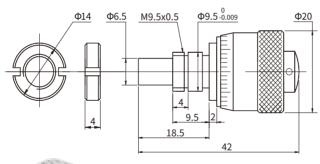


- Strictly made in accordance with DIN863
 - Operating and display units antiglare with satin chrome finish
 - Stainless spindle is hardened throughout and ground
 - Rapid drive with integrated ratchet
 - Carbide tipped measuring face

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

• Strictly made in accordance with DIN863

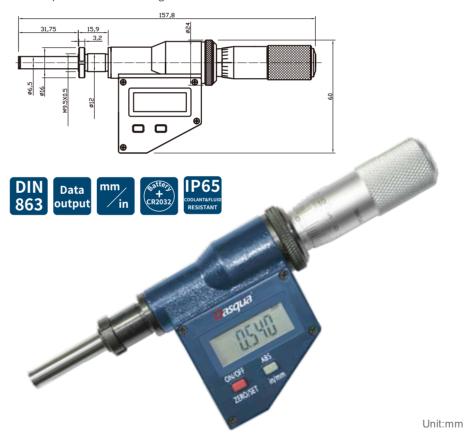


• IP65 protection against liquid

• 3V lithium battery CR2032

• SPC data output

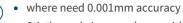
- With carbide measuring face
- With painted frame
- Flat face (spherical tip optional)
- Spindle hardened and ground



Code	Range	Resolution	Accuracy
4910-2130	0-25/0-1"	0.001/0.00005"	0.003/0.00015"
4910-2135	0-50/0-2"	0.001/0.00005"	0.003/0.00015"

DIGITAL MICROMETER HEAD

• Mount on precision equipment or machinery like machines, fixed devices, special tools, etc



• Stictly made in accordance with DIN863



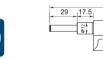
- Equipped with large LCD screen for easy reading
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Carbide measuring surfaces ground for longer service life
- Flat face/Spherical face optional

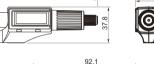
Code	Range	Resolution	Accuracy
4910-2110	0-15/0-0.5"	0.001/0.00005"	0.003/0.00015"
4910-2115	0-25/0-1"	0.001/0.00005"	0.003/0.00015"

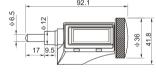










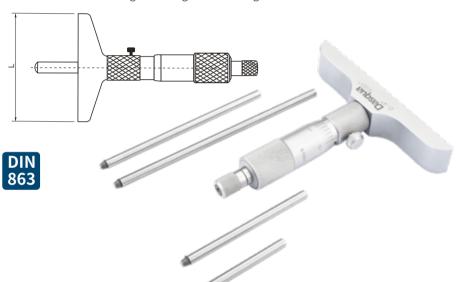






DEPTH MICROMETER

- 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



		-			Unit.min
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

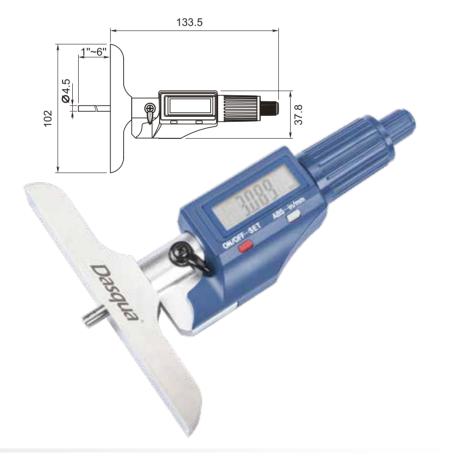






Unit:mm

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

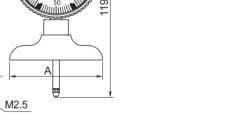
• Hardened base with fine lapped contact surface

• Extension rods of different lengths offering larger measuring ranges

Range Graduation Base Length(A) Depth

5821-1105 0-10





Unit:mm

Remark With 5 rods 1-5", step by 1" With 5 rods 1-5", step by 1'

With 9 rods 10-90, step by 10





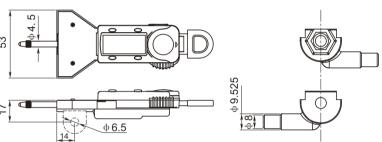


Hardened, ground and lapped measuring face

• Spring-loaded and hold measurement button for easy-to-use

Supplied in fitted case

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"



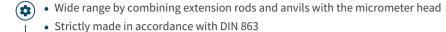








TUBULAR INSIDE MICROMETER





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





		m	

				OIIIL.IIIIII
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



1 1 1	
I Init:	r

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



- Used to measure various inside dimensions
- With ratchet stop for constant pressure



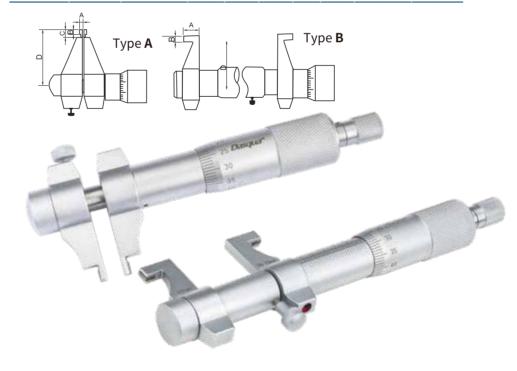
- Spindle thread hardened, ground and lapped for ultimate accuracy
 - Clear graduations laser-etched on satin chrome finish for easy reading



- With spindle lock
 - Carbide measuring surfaces ground for longer service life
 - An inside micrometer set is optional

Unit:mm

Code	Range	Graduation	Туре	Α	В	С	D	Accuracy	Ring gage
4911-8105	5-30	0.01	А	2.3	4.5	5.5	27.5	±0.005	✓
4911-8110	25-50	0.01	В	12.3	4.5	/	27.5	± 0.006	\checkmark
4911-8115	50-75	0.01	В	12.3	4.5	/	27.5	± 0.007	/
4911-8120	75-100	0.01	В	12.3	4.5	/	27.5	± 0.008	/
4911-8125	5-100	0.01	/	/	/	/	/	/	/
4912-5105	0.2-1.2"	0.001"	Α	2.3	4.5	5.5	27.5	±0.00025"	\checkmark
4912-5110	1-2"	0.001"	В	12.3	4.5	/	27.5	±0.0003"	\checkmark
4912-5115	2-3"	0.001"	В	12.3	4.5	/	27.5	±0.00035"	/
4912-5120	3-4"	0.001"	В	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



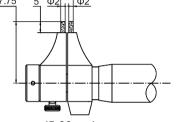
Clamp wheel for quick and precise fixing



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





3 POINTS INSIDE MICROMETER

• Applied for measuring through-holes and blind-holes

• With extension rods which are available in deeper holes

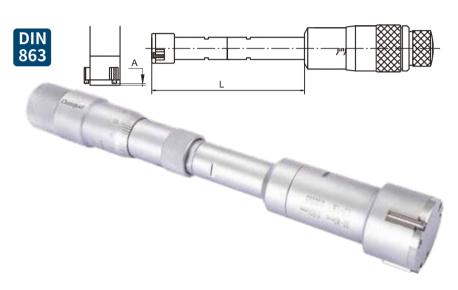
• With Ratchet stop for constant force

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





Unit:mm

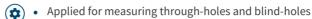
Code	Range	Setting Ring	Graduation	L	A	Accuracy
4411-5101	6-8	φ6	0.001	54.5	1.5	0.004
4411-5102	8-10	φ8	0.001	54.5	1.5	0.004
4411-5103	10-12	φ10	0.001	54.5	1.5	0.004
4411-5104	12-16	φ12	0.005	80	0.5	0.004
4411-5105	16-20	φ16	0.005	80	0.5	0.004
4411-5106	20-25	φ20	0.005	90	0.5	0.004
4411-5107	25-30	φ25	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	Α	Accuracy
4411-9205	6-12	φ8/φ10	0.001	50	54.5	1.5	0.004
4411-3210	12-20	φ16	0.005	100	80	0.5	0.004
4411-3215	20-50	φ25/φ40	0.005	150	90/97	0.5	0.004
4411-3220	50-100	φ62/φ87	0.005	150	114	0.5	0.005
4412-0205	0.275-0.5"	0.35"/0.5"	0.0001"	4"	2.18"	0.06"	0.00016"
4412-4210	0.5-0.8"	0.65"	0.0002"	6"	3.2"	0.02"	0.00016"
4412-4207	0.8-2"	1"/1.6"	0.0002"	6"	3.6"/3.88"	0.02"	0.00016"
4412-4208	2-4"	2.5"/3.5"	0.0002"	6"	4.56"	0.02"	0.0002"

IP54 WATER PROOF DIGITAL 3 POINTS INSIDE MICROMETER



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



1	г	٠	r	Y	٦	r	Y	٦	
	н	ι	1				1	1	

Code	Range	Setting Ring	Resolution	Α	В	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

Code	Range	Resolution	Setting Ring	Extension Rod(C)	Α	В	Accuracy
511-9205	6-12	0.001/0.00005"	φ8/φ10	101.6	55	1/1.5	0.004
511-9210	12-20	0.001/0.00005"	φ16	152.4	80	0.5	0.004
511-9215	20-50	0.001/0.00005"	φ25/φ40	152.4	90/105	0.5	0.004
511-9220	50-100	0.001/0.00005"	φ62/φ87	152.4	127	0.5	0.005

IP65 WATER PROOF DIGITAL 3 POINTS INSIDE MICROMETER



• 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



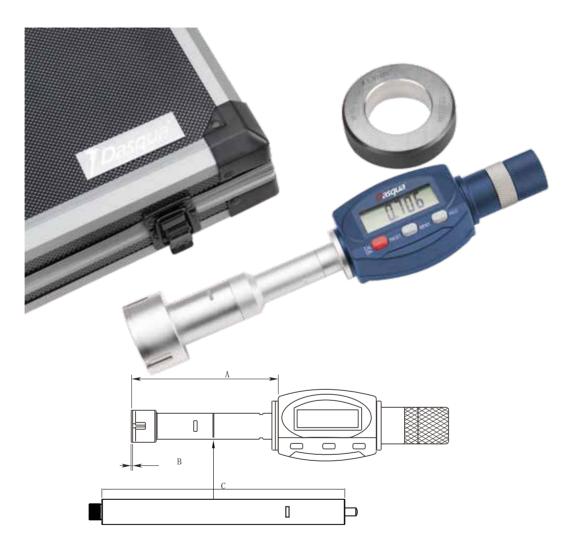






Unit:mm

Code	Range	Setting Ring	Resolution	Α	В	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

Code	Range	Resolution	Setting Ring	Extension Rod	Α	В	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	EO 100	0.001/0.00005"	(062/007	152.4	127	0.5	0.005

Unit:mm

DIGITAL 3-POINT PISTOL BORE GAUGE

• 3V Lithium battery CR2032

SPC data output

• Built in wireless data transmission (optional)

• With ratchet for constant measuring pressure

• Measuring contact points are designed to allow measurements near the bottom of blind holes

• With carbide measuring face

• Additional extensions can be added to increase the measuring depth (12mm above optional)

Setting rings for origin point setting





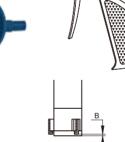












Code	Range	Setting Ring	Resolution	A	В	Accuracy
4600-0001	6-8	φ6	0.001/0.00005"	55	1	0.004
4600-0002	8-10	φ8	0.001/0.00005"	55	1.5	0.004
4600-0003	10-12	φ10	0.001/0.00005"	55	1.5	0.004
4600-0004	12-16	φ12	0.001/0.00005"	80	0.5	0.004
4600-0005	16-20	φ16	0.001/0.00005"	80	0.5	0.004
4600-0006	20-25	φ20	0.001/0.00005"	90	0.5	0.004
4600-0007	25-30	φ25	0.001/0.00005"	90	0.5	0.004
4600-0008	30-40	φ30	0.001/0.00005"	105	0.5	0.004
4600-0009	40-50	φ40	0.001/0.00005"	105	0.5	0.005
4600-0010	50-63	φ50	0.001/0.00005"	127	0.5	0.005
4600-0011	62-75	φ62	0.001/0.00005"	127	0.5	0.005
4600-0012	75-88	φ75	0.001/0.00005"	127	0.5	0.005
4600-0013	87-100	φ87	0.001/0.00005"	127	0.5	0.005

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

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











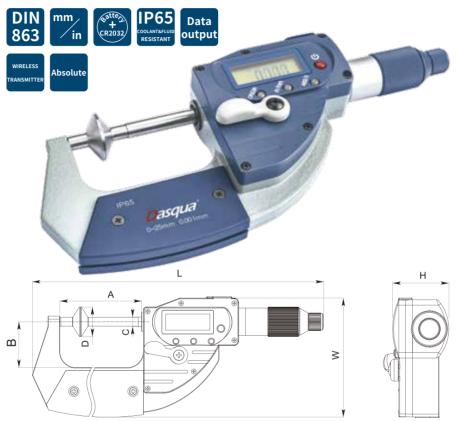




- Used to easily measure root tangent length of spur gears and helical gears
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched on satin chrome finish for easy reading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

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

DIGITAL QUICK-MOVE DISC MICROMETER





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"

- 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

4220-2104 0-25/0-1" 0.001/0.00005" 55.3 **4220-2108** 25-50/1-2" 0.001/0.00005" 80.3

В	С	D	L	W	н	Accuracy
31	φ6.5	φ20	197.2	80.5	30.8	0.003/0.00015"
44	φ6.5	φ20	227.5	96	30.8	0.003/0.00015"

Unit:mm

DIGITAL DISC MICROMETER

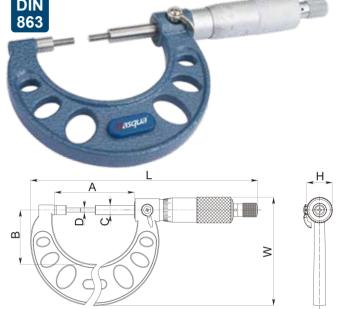


- Used to easily measure root tangent length of spur gears and helical gears
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- With Absolute and Metric-Inch Conversion System

- 11	n	п	۲.	m	۱r	\sim
U		ч	١.		11	11

Code	Range	Resolution	А	В	С	D	L	W	н	Accurac
4110-0005	0-25/0-1"	0.001/0.00005"	55.3	31	φ6.5	φ20	197.2	80.5	30.8	0.003/0.000
4110-0010	25-50/1-2"	0.001/0.00005"	80.3	44	φ6.5	φ20	227.5	96	30.8	0.003/0.000
4110-0015	50-75/2-3"	0.001/0.00005"	105.3	56	φ6.5	φ20	257.6	112.5	30.8	0.004/0.000
4110-0020	75-100/3-4"	0.001/0.00005"	132	66	φ6.5	φ20	269.7	127.8	30.8	0.004/0.000

SPLINE MICROMETER



- 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

										OTIIL.II
Code	Range	Graduation	Α	В	С	D	L	W	н	Accuracy
710-1005	0-25	0.01	56	38	φ6.5	φ3.0	160	76	φ18	0.004/0.00015
710-1010	25-50	0.01	81	51	φ6.5	φ3.0	185.5	91	φ18	0.004/0.00015
710-1015	50-75	0.01	106	63.5	φ6.5	φ3.0	210.5	105	φ18	0.005/0.0002'
710-1020	75-100	0.01	131	76	φ6.5	φ3.0	237.3	125	φ18	0.005/0.0002
710-2005	0-1"	0.001"	56	38	φ6.5	φ3.0	160	76	φ18	0.004/0.0001
710-2010	1-2"	0.001"	81	51	φ6.5	φ3.0	185.5	91	φ18	0.004/0.0001
710-2015	2-3"	0.001"	106	63.5	φ6.5	φ3.0	210.5	105	φ18	0.005/0.0002
710-2020	3-4"	0.001"	131	76	φ6.5	φ3.0	237.3	125	φ18	0.005/0.0002
710-2305	0-1"	0.0001"	56	38	φ6.5	φ3.0	160	76	φ18	0.004/0.0001
710-2310	1-2"	0.0001"	81	51	φ6.5	φ3.0	185.5	91	φ18	0.004/0.0001
710-2315	2-3"	0.0001"	106	63.5	φ6.5	φ3.0	210.5	105	φ18	0.005/0.0002
710-2320	3-4"	0.0001"	131	76	φ6.5	φ3.0	237.3	125	φ18	0.005/0.0002

Dasqua*

DIGITAL SPLINE MICROMETER



- 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

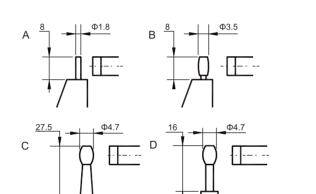
Unit:mm

Code	Range	Resolution	Α	В	С	D	L	W	н	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







- - 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	Туре	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

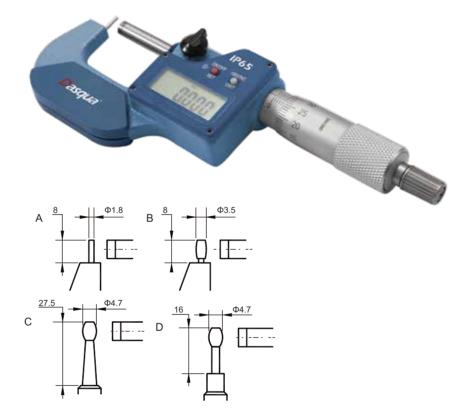
DIGITAL TUBE MICROMETER











- 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	Туре	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

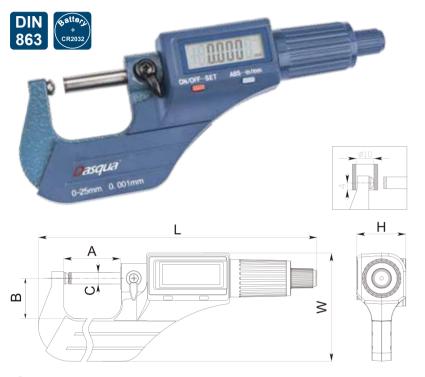




- Used to measure wall thickness of tubes
 - Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- S-F:Spherical anvil and flat spindle S-S:Spherical anvil and spherical spindle
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Clear graduations laser-etched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

0 0.	. ор о оа.	anvit and spire						01111
Code	Range	Graduation	Α	В	С	н	Style	Accurac
510-1005	0-25	0.01	31	29.5	φ6.5	φ18	S-F	0.004
510-1010	25-50	0.01	56	38	φ6.5	φ18	S-F	0.004
510-1015	50-75	0.01	81	51	φ6.5	φ18	S-F	0.005
510-1020	75-100	0.01	106	63.5	φ6.5	φ18	S-F	0.005
510-2005	0-1"	0.001"	31	29.5	φ6.5	φ18	S-F	0.004
510-2010	1-2"	0.001"	56	38	φ6.5	φ18	S-F	0.004
510-2015	2-3"	0.001"	81	51	φ6.5	φ18	S-F	0.005
510-2020	3-4"	0.001"	106	63.5	φ6.5	φ18	S-F	0.005
510-2305	0-1"	0.0001"	31	29.5	φ6.5	φ18	S-F	0.004
510-2310	1-2"	0.0001"	56	38	φ6.5	φ18	S-F	0.004
510-2315	2-3"	0.0001"	81	51	φ6.5	φ18	S-F	0.005
510-2320	3-4"	0.0001"	106	63.5	φ6.5	φ18	S-F	0.005
330-1005	0-25	0.01	32	24	φ6.5	φ18	S-S	0.004
330-1010	25-50	0.01	57	32	φ6.5	φ18	S-S	0.004
330-1015	50-75	0.01	82	45	φ6.5	φ18	S-S	0.005
330-1020	75-100	0.01	107	57	φ6.5	φ18	S-S	0.005

DIGITAL SPHERICAL ANVIL TUBE MICROMETER



- 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

									OTHL.IIIII
Code	Range	Resolution	Α	В	С	L	w	н	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"
4520-3405	0-25/0-1"	0.001/0.00005"	31.5	22.5	φ6.5	155	60.2	27.3	0.003/0.00015"
4520-3410	25-50/1-2"	0.001/0.00005"	56.5	31	φ6.5	185.4	77.9	27.3	0.003/0.00015"
4520-3415	50-75/2-3"	0.001/0.00005"	81.5	44	φ6.5	211.9	93.4	27.3	0.004/0.00015"
4520-3420	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



- 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:

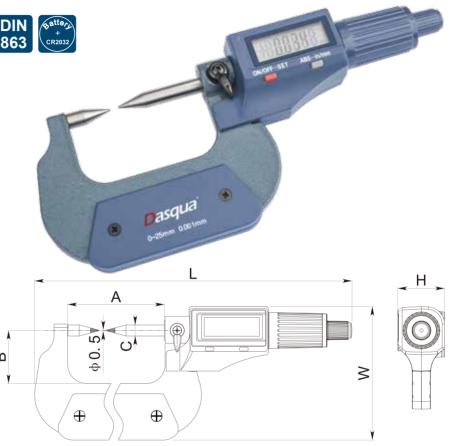
F-F:Flat Anvil and Flat Spindle

S-S:Spherical Anvil and Spherical Spindle

Unit-mm					
I Init-mm		1	*4		
	- 1	ın	IT.	m	m

Code	Range	Graduation	Α	В	С	Н	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

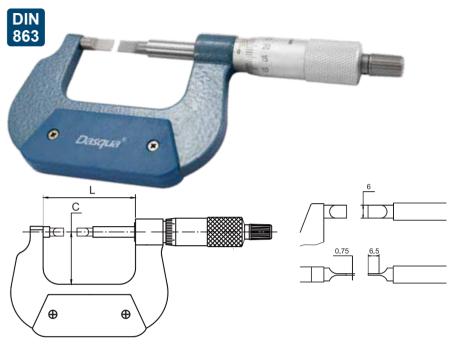


- Used to measure the web thickness of drills, small grooves and other hard to reach dimensions
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
 - With Absolute and Metric-Inch Conversion System
 -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

U	r	٦	i	+-	r	Y	١	r	Y
$^{\circ}$	ч	1		ι.	. 1		1	1	

Code	Range	Resolution	Α	В	С	L	w	н	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

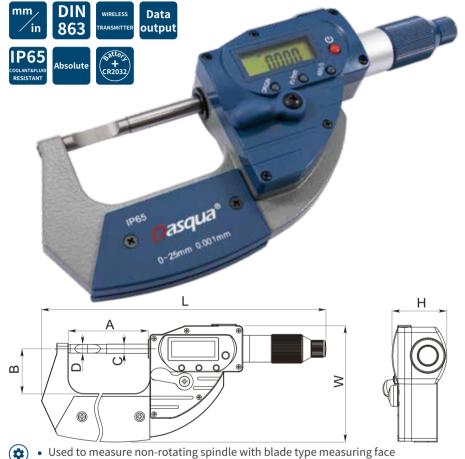


- Used to measure non-rotating spindle with blade type measuring face
- Stainless steel newly adapted on spindle
 - Strictly made in accordance with DIN863
 - Spindle thread hardened, ground and lapped for ultimate accuracy

 n	11	m	m	

				0
Code	Range	Graduation	С	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

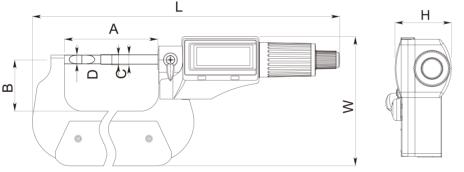


- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
- Spindle thread hardened, ground and lapped for ultimate accuracy
- With Absolute and Metric-Inch Conversion System

• Wit	With ratchet stop for constant force									
Code	Range	Resolution	Α	В	С	D	L	w	н	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

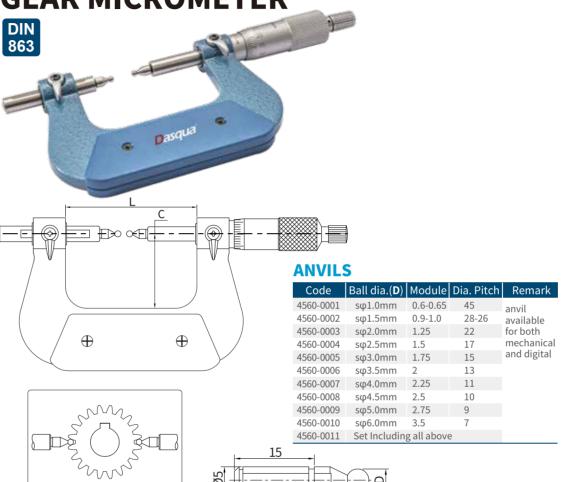




- Used to measure non-rotating spindle with blade type measuring face
- Stainless steel newly adapted on spindle
- Strictly made in accordance with DIN863
 - Spindle thread hardened, ground and lapped for ultimate accuracy
- With Absolute and Metric-Inch Conversion System

										Officialiti
Code	Range	Resolution	Α	В	С	D	L	W	н	Accuracy
4570-3005	0-25/0-1"	0.001/0.00005"	55.3	31	φ6.5	φ6	197.2	80.5	30.8	0.003/0.00015"
4570-3010	25-50/1-2"	0.001/0.00005"	80.3	44	φ6.5	φ6	227.5	96	30.8	0.003/0.00015"
4570-3015	50-75/2-3"	0.001/0.00005"	105.3	56	φ6.5	φ6	257.6	112.5	30.8	0.004/0.00015"
4570-3020	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



- 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

\circ					0
Code	Range	Graduation	С	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

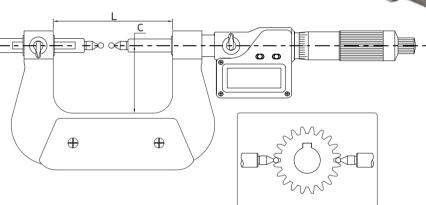
DIGITAL GEAR MICROMETER











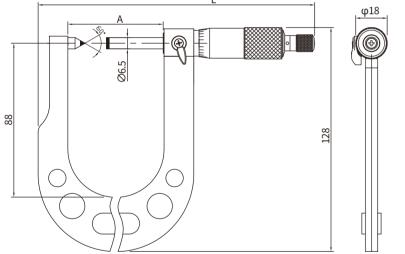
- Strictly made in accordance with DIN863
 - Used to measure over-pin diameter of external gears
- Interchangeable ball tips for various gear modules (0.6~3.5) are optional.
- IP65 protection against liquid

· With ratchet for constant measuring pressure

Code	Range	Resolution	С	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





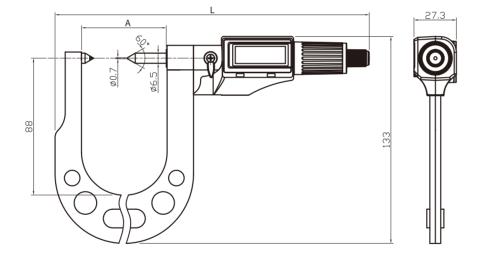


- Strictly made in accordance with DIN863
- To measure brake disc thickness in car
- With carbide measuring face
 - With ratchet for constant measuring force

Code	Range	Graduation	Α	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







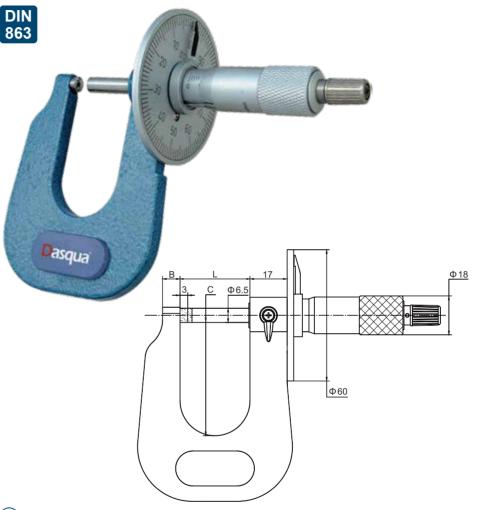
Unit:mm

- 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	А	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



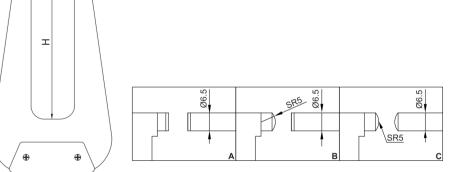
- Strictly made in accordance with DIN863
- A dial is attached to the sleeve for making easy and
- quick reading of sheet metal thickness
- With carbide measuring face
- With ratchet for constant measuring force

Unit:mm

•						0
Code	Range	Graduation	L	В	С	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

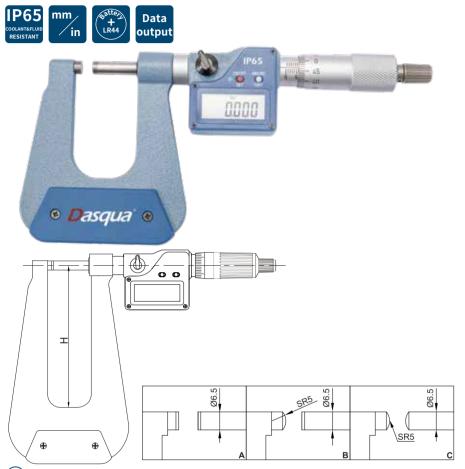




- Strictly made in accordance with DIN863
- Deep throat frame for measuring thickness of sheet metal,
- paper, plastic and rubber parts
- With carbide measuring face
- With ratchet for constant measuring force

Code	Range	Graduation	Н	Style	Accuracy
4561-1005	0-25	0.01	150	А	0.006
4561-1010	0-25	0.01	150	В	0.006
4561-1015	0-25	0.01	150	С	0.006
4561-1020	0-25	0.01	300	В	0.007

DIGITAL SHEET METAL MICROMETER



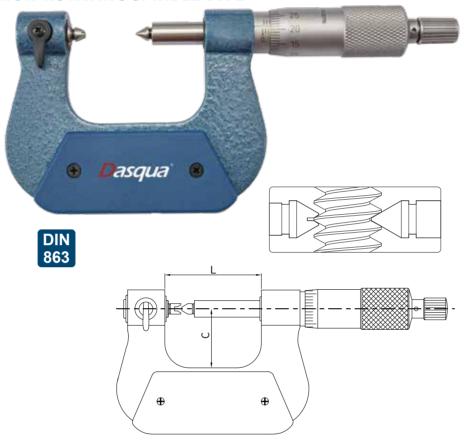
- Strictly made in accordance with DIN863
 - · Deep throat frame for measuring thickness of sheet metal,
- paper, plastic, and rubber parts
 - With carbide measuring face
- With ratchet for constant measuring pressure
 .___
 - IP65 protection against liquid

Unit:mm

Code	Range	Resolution	н	Style	Accuracy
4560-4005	0-25/0-1"	0.001/0.00005"	150	А	±0.003
4560-4010	0-25/0-1"	0.001/0.00005"	150	В	±0.003
4560-4015	0-25/0-1"	0.001/0.00005"	150	С	±0.003
4560-4020	0-25/0-1"	0.001/0.00005"	300	В	±0.004

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
- Dimension of anvil-tail: Φ5X15mm
- With ratchet for constant measuring pressure
 - Without screw thread heads, which can be found and ordered in page 68

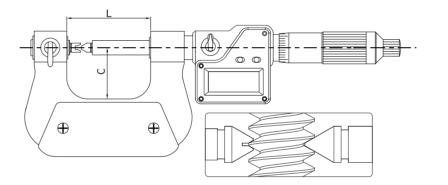
Code	Range	Graduation	L	С	Accuracy
4157-4005	0-25	0.01	42	26	0.004
4157-4010	25-50	0.01	67	38	0.004
4157-4015	50-75	0.01	92	50	0.005
4157-4020	75-100	0.01	118	62	0.005

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
- Without screw thread heads, which can be found and ordered in page 68

Unit:mm

Code	Range	Graduation	L	С	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 68

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

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



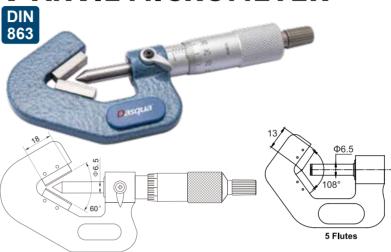


			Unit:mm
Code	Thread type	Pitch	Remark
4560-6001 4560-6002 4560-6003 4560-6004 4560-6006 4560-5501	Metric 60° Metric 60° Metric 60° Metric 60° Metric 60° Metric 60° Wetric 60° Withworth 55° Withworth 55°	0.4-0.5/64-48TPI 0.6-0.9/44-28TPI 1-1.75/24-14TPI 2-3/13-9TPI 3.5-5/8-5TPI 5.5-7/4.5-3.5TPI 60-48TPI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

		Size			Size		Size	
Grade 0 ± 0.00025	Grade 1 ± 0.0005		Grade 0 ± 0.00025	Grade 1 ± 0.0005	Size	Grade 0 ± 0.00025	Grade 1 ± 0.0005	Size
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	m0.866	4090-7764	4091-5544	m3 106			

Code

V-ANVIL MICROMETER



- 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	n	ı.	t٠	n	٦r	$\gamma \gamma$		
U	ш	Ш	ι.	ш	ш	ш		

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

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



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
•			•	

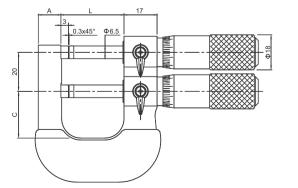
LIMIT MICROMETER

- 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	С	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	Code Range		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



GROOVE MICROMETER



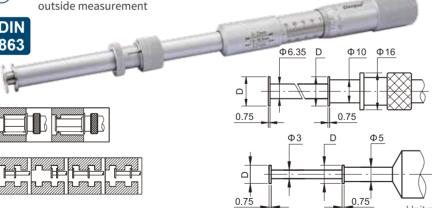
• Strictly made in accordance with DIN863

Flanged measuring faces for measuring width, depth, and location



• With non-rotating spindle

• Provided with 2 types of laser engraved graduations for inside and outside measurement



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

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



Calibration Certificate

Serial Sunday Selector	88 SW Gredate	1,00100000 (mm) 3,00100000	Date of Yest; ment	14.08.201
Manufacturer: Des	riport.	Mee	euring Standard	26-97901
		Error Curve		
Total Control				
II min	*****************			
40 01	7,777	08 08 07	100	
01		05 06 07	100	
	Compliance	05 05 07	Actual Value	
	Com Name	Tolerancellum		200
	E Name			200
	Error Names	1.0		2000 4/7 1/7
	Correct Name:	10		



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

different colors

reading

for easy and correct

	Code	Range	Graduation	Accuracy	Hysteresis	Range/Rev	Reading	Housing Diameter
5	5181-0005-A	0-1	0.001	0.005	0.002	0.2	0-100-0	φ58

DIAL INDICATOR 5111-0000 Metric Dial indicator • 5122-4205 Inch Size Dial indicator

Code	Range	Graduation	Style	Α	В	С	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:mm

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
5122-4220	0-1"	0.001"	lug back	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

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



lug back 8 φ58 φ8 18.5 φ55 0.017



DIAL INDICATOR SHOCK PROOF DIN 878







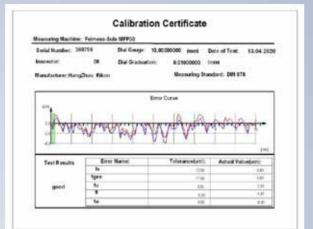
WITH SHOCK RESISTANT ABILITY

Code	Range	Graduation	Style	Α	В	С	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

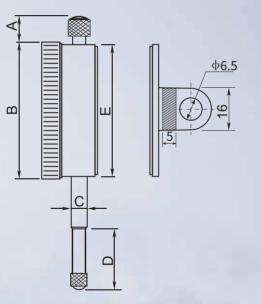


 Jeweled bearing can reduce the friction, making higher sensitivity and quick response

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



Each indicator is with a matched certificate



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

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	Α	В	С	D	Е	Accuracy	Hystere
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

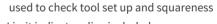
DIAL INDICATOR

WITH 0.001MM GRADUATION





- With calibration certificate
- Used to measure surface flatness as well as axial runout and also

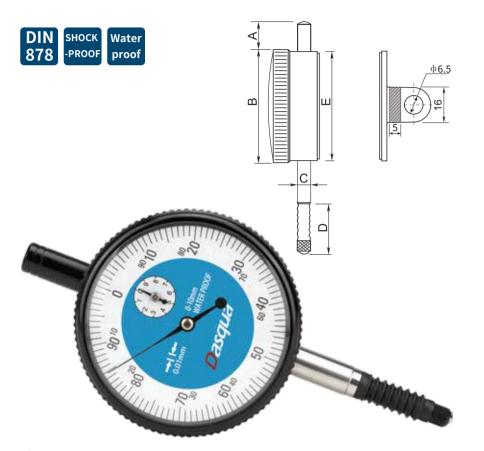


- Limit indicator clips included
- Strictly made in accordance with DIN878
 leweled bearings arm I
 - Jeweled bearings providing the lowest possible bearing friction
 - With narrowed range and higher accuracy

Code	Range	Graduation	Style	Α	В	С	D	Ε	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



• Used to measure surface flatness as well as axial runout and also used to check tool set up and squareness

Strictly made in accordance with DIN878

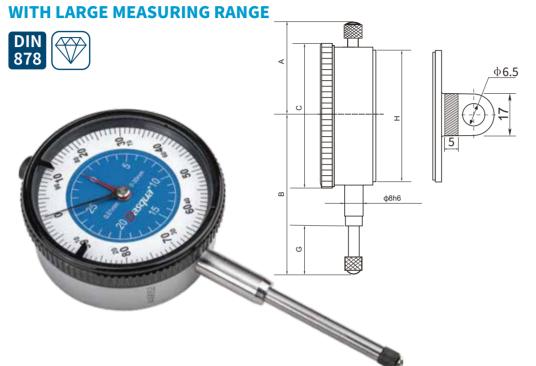
• O-ring seal on safety cap for bezel and rotating dial

Hardened gears-lasting against indicator failure due to shock or wear

IJ	r	٦	г	t	r	Υ	٦	r	Υ	٦.	
U	ı	ı	ı	L	ı	ı	ı	ı	ı	ı	

Code	Range	Graduation	Style	Α	В	С	D	Е	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

DIAL INDICATOR



- 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

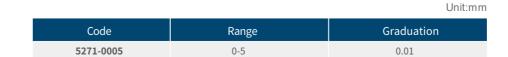
Unit:mm

Code	Range	Graduation	Style	Α	В	С	G	н	Accuracy	Hysteresis	Protection Standard
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	$\phi 53.5$	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	$\phi 53.5$	0.04	0.008	Jeweled Bearing
5121-1215	0-50	0.01	lug back	108.3	126.2	φ58	57.7	$\phi 53.5$	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

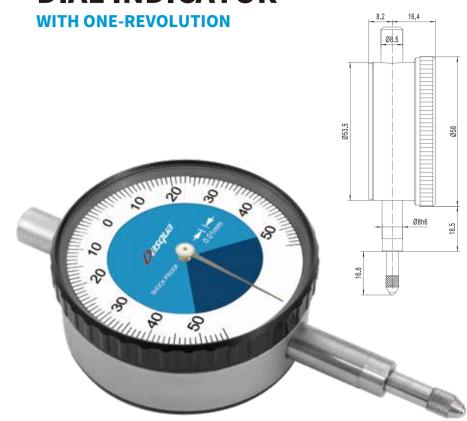
BACK PLUNGER DIAL INDICATOR



- 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



DIAL INDICATOR



• 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 misinterpreted

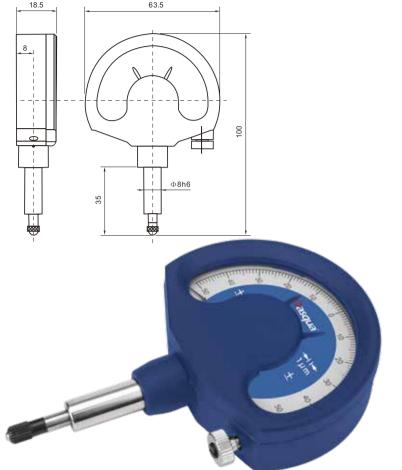
• An unique shock-proof mechanism is incorporated, providing improved immunity to shock due to sudden spindle retraction caused by high impact

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



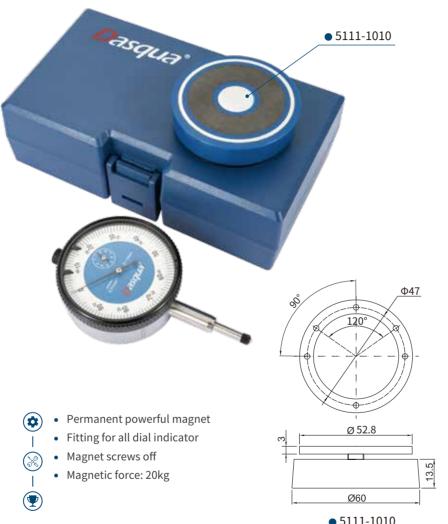
- IP53 protection against liquid
- To check parallelism, smoothness and through running
- Sturdy metal housing with sturdy plastic cover
- Stem and spindle hardened and lapped
- Adjustable tolerance fingers
- With spindle lifting cable

Unit:mm

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

DIAL INDICATOR

WITH MAGNETIC LUG BACK



		•	Unit:mm
Code	Covering	Range	Graduation
5111-1010	/	/	/
5111-0001	5111-1010	/	/
	5111-0000	0-10	0.01
5122-4211	5111-1010	/	/
J122-7211	5122-4210	0-1"	0.001"

MULTIFUNCTIONAL DIGITAL INDICATOR

 Glass grating for high accuracy and stable performance

• The functions of tolerance set

Alarm light is available for

sizes qualified or not.

and tolerance alarm are optional.

quick-checking whether products'

WITH TOLERANCE ALARM

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

End Point: (0~12.7)mm

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

Serial No.: 20A1351

Each indicator is with a matched certificate.

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



5260-3705

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



DIGITAL INDICATOR





- 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
- 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 AND TOLERNCE ALARM





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
5260-4205	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



• Wireless system built-in (optional)

• With Absolute-Reference System and no need to set the reference point at every power-on

Unit:mm

- Large easy-to-read digital display
- · With ABS and Metric/Inch Conversion System

• With long battery-use

Code	Range	Resolution	А	В	С	D	Е	F	G	н	Accuracy
5340-810	5 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"
5340-811	0 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"
5340-811	5 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"
5340-910	5 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
5340-911	0 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
5340-911	5 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	Α	В	С	D	E	F	G	н	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	m61 1	m6 5	(08 or 3/8"	m4.5	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

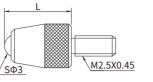
Unit:mm

Code	Range	Resolution	Α	В	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"



BALL POINT

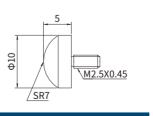




		Unit:mm
Code	Material of measuring face	L
5221-6101	Carbide	7.3
5221-6103	Ceramic	7.3
5221-6104	Carbide	8.3
5221-6106	Carbide	12.1
5221-6107	Carbide	14
5221-6108	Carbide	15
5221-6109	Ceramic	15
5221-6110	Carbide	17
5221-6111	Carbide	19.3
5221-6112	Carbide	20
5221-6113	Ceramic	20
5221-6114	Carbide	22
5221-6115	Carbide	25
5221-6116	Ceramic	25
5221-6117	Carbide	30
5221-6118	Ceramic	30

SPHERICAL POINT





Code	Material of measuring face
5221-6401	steel

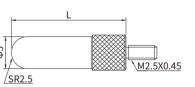
BALL POINT



Code	Material of measuring face	SФD
5221-6301	steel	1
5221-6302	carbide	1.5
5221-6303	carbide	1.8
5221-6304	carbide	2.5
5221-6305	carbide	4

SHELL TYPE POINT

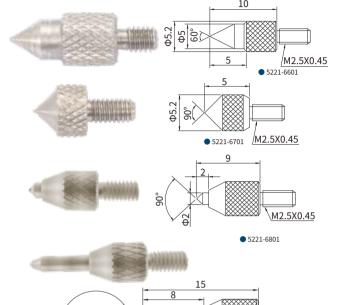




Unit:mm

Code	Material of measuring face	L
5221-6202	steel	5
5221-6203	steel	10
5221-6205	steel	15
5221-6207	steel	20
5221-6208	steel	25
5221-6210	steel	30

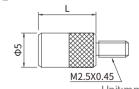
CONICAL POINT



Code	Material of measuring face
5221-6601	steel
5221-6701	steel
5221-6801	steel
5221-6901	steel

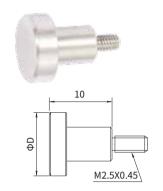
FLAT POINT





Code	Material of measuring face	L
5221-7101	steel	8
5221-7102	steel	10

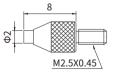
FLAT POINT



		OIIIL.IIII
Code	Material of measuring face	ΦD
5221-7201	steel	10
5221-7202	steel	15
5221-7203	steel	20
5221-7204	steel	25
5221-7205	steel	30

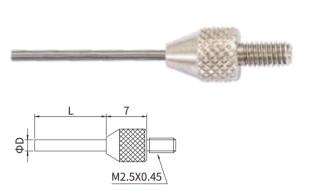
FLAT POINT





	Onichini
Code	Material of measuring face
5221-7301	carbide

NEEDLE POINT



Unit:mm

Code	Material of measuring face	ΦD	L
5221-7701	steel	0.45	3
5221-7702	steel	0.45	5
5221-7703	carbide	1	3
5221-7704	carbide	1	5
5221-7705	carbide	1	8
5221-7706	carbide	1	10
5221-7707	carbide	1	20
5221-7708	carbide	1	40
5221-7709	carbide	1.5	5
5221-7710	carbide	1.5	10
5221-7711	carbide	1.5	13
5221-7712	carbide	1.5	20
5221-7713	carbide	1.5	40
5221-7714	carbide	2	8
5221-7715	carbide	2	18
5221-7716	carbide	2	28

carbide

5221-7717

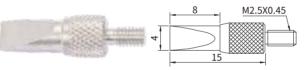
NEEDLE POINT



Code	Material of measuring face	L1	L	SR	Φd
5221-76)1 steel	11	15	0.4	2
5221-76)2 steel	13	17	0.2	2
5221-76	og steel	21	25	0.4	3
5221-76)4 steel	31	35	0.4	3

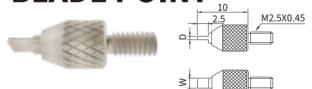
Unit:mm

KNIFE EDGE POINT



Code	Material of measuring face
5221-7001	steel

BLADE POINT



Material of measuring face	D	W
steel	0.4	2
steel	0.6	2
steel	1	4
	measuring face steel steel	measuring face steel 0.4 steel 0.6

ROLLER POINT



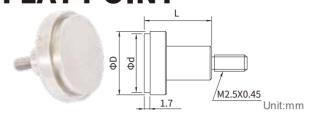
Code	Material of measuring face
5221-7901	steel

EXTENSION ROD

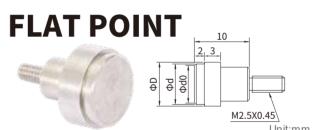


Code	Material of measuring face	L
5221-8001	steel	10
5221-8002	steel	15
5221-8003	steel	20
5221-8004	steel	25
5221-8005	steel	30
5221-8006	steel	35
5221-8007	steel	40
5221-8008	steel	45
5221-8009	steel	50
5221-8010	steel	55
5221-8011	steel	60
5221-8012	steel	65
5221-8013	steel	70
5221-8014	steel	75
5221-8015	steel	80
5221-8016	steel	90
5221-8017	steel	100

FLAT POINT

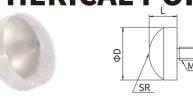


Code	Material of measuring face	flatness(μm)	Φd	ΦD	L
5221-9001	carbide	3	4.3	5.2	5
5221-9002	carbide	3	6.5	7	10
5221-9003	carbide	3	9.5	10.5	10
5221-9004	carbide	5	15	17	10
5221-9005	carbide	5	20	22	10
5221-9006	carbide	5	25	27	10
5221-9007	carbide	5	30	32	10



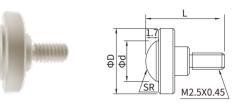
				OII	11.111111
Code	Material of measuring face	flatness(μm)	Φd	Φd0	ΦD
5221-9008	carbide	3	6.4	3	7
5221-9009	carbide	3	8	4.5	9

SPHERICAL POINT



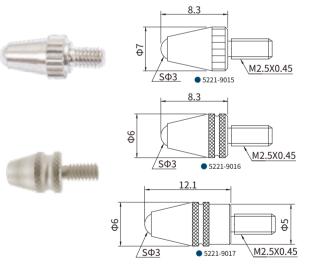
Code	Material of measuring face	ΦD	SR	L
5221-9010	steel	5.5	5	3
5221-9011	steel	7.9	5	5

SPHERICAL POINT



Code	Material of measuring face	ΦD	Φd	SR	L
5221-9012	carbide	5.5	5	3	3
5221-9013	carbide	7.9	5	5	5
5221-9014	carbide	10	7	5	5

POINT FOR SPECIAL INDICATOR



Code	Material of measuring face
5221-9015	carbide
5221-9016	carbide
5221-9017	carbide

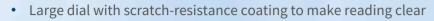
DIAL TEST INDICATOR

Made in Europe

Dasqua Bu DIN 2270

WITH 0.001MM GRADUATION







• With high abrasion resistance and non-magneticness

Owning water proof ability

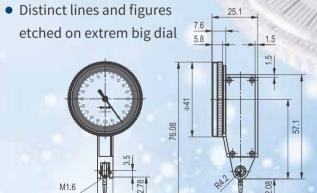
• Used to measure surface flatness, straightness and axial runout and easy to reach places where

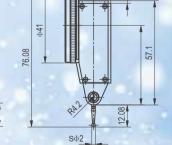
normal indicators can't reach



 Each test indicator is examed carefully and enclosed with calibration certificate.

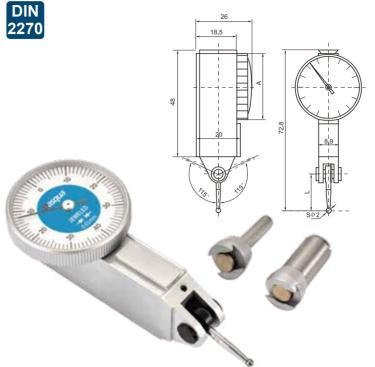
 Jeweled bearing and ruby contact point to ensure high durability





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

DIAL TEST INDICATOR



- 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(
5221-0005	0.8	0.01	φ30	16.5
5221-0000	0.8	0.01	φ37.5	16.5

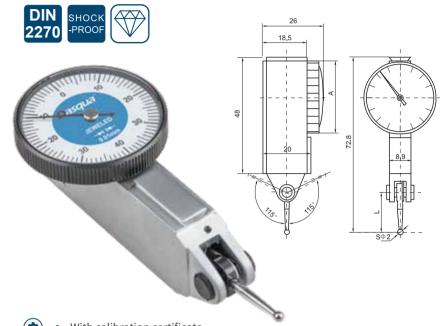
INCH SIZE

Unit:mm

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

DIAL TEST INDICATOR

WITH SHOCK-PROOF GEARING



- 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

Code	Range	Graduation	Casing Diameter(A)	Length of Stylus(L)
5221-1129	0.8	0.01	φ30	16.5
5221-1140	0.8	0.01	φ37.5	16.5
5221-3105	0.2	0.002	φ30	16

INCH SIZE

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

WITH LONG STYLI



• With long styli for easily measuring hard-to-get places

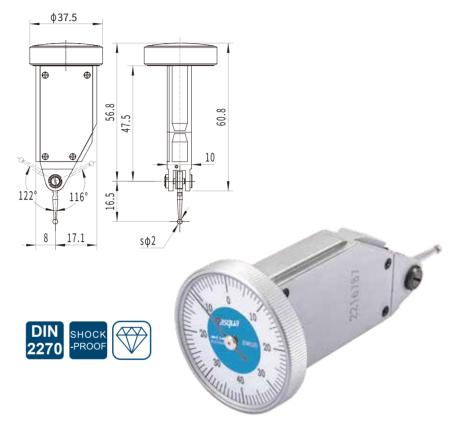
• With calibration certificate

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

Code	Range	Graduation	Casing Diameter(A)	Length of Stylus(L)
5221-1215	0.8	0.01	φ30	30
5221-1220	0.8	0.01	φ37.5	30
5221-1205	0.8	0.01	φ30	46.4
5221-1210	0.8	0.01	φ37.5	46.4

BACK PLUNGER DIAL TEST INDICATOR



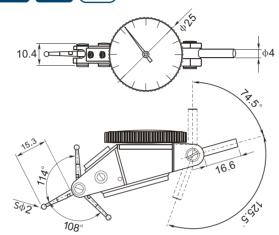
- With upward dial for measuring up side of a large workpiece or high workbench
- With calibration certificate
- Tough shock-proof gearing
- A hard frame body providing excellent rigidity
- White edge of dial for easy to read
- Hardened and ground contact point
- Satin chrome-finish case for durability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

Unit:mm

Code	Range	Graduation	Casing Diameter	Length of Stylus
5461-0005	0.8	0.01	ф37.5	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

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





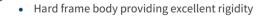
BI-DIRECTIONAL TEST INDICATOR AND MAG BASE SET







• Bi-directional constant clockwise rotation



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

Code	Range	Resolution	A	В	С	D	E	F	Accuracy
5410-8105	0-0.5/0-0.02"	0.01/0.0005"	47.65	40	44.6	13.27	20	sφ2	±0.010
5410-8110	0-0.8/0-0.03"	0.01/0.0005"	47.65	40	44.6	13.27	20	sφ2	±0.020
5410-9105	0-0.4/0-0.02"	0.001/0.00005"	47.65	40	44.6	13.27	20	sφ2	±0.020





STYLI FOR DIAL TEST INDICATOR







5221-1005
 Made of steel

de of ruby	

		Unit:mm
Code	Size	Points' Material
5221-1005	16xφ1	steel
5221-1006	16.5xφ2	steel
5221-1007	17xφ3	steel
5221-1044	16хф1	carbide
5221-1045	16.5xφ2	carbide
5221-1050	17xφ3	carbide
5221-1070	16.5xφ2	ruby
5221-1071	17xφ3	ruby
5221-1105	30.5xφ2	ruby
5221-1110	46.5xφ2	ruby

DIAL BORE GAUGE SET

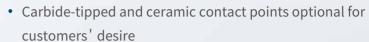
WITH EXTRA LONG RANGE

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



• Strictly made in accordance with DIN878



Dasqua







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	500
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

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	250
5511-2140	250-450	0.001	250
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"
EE12 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















• 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

1	* 4			
n	IT.	m	m	

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



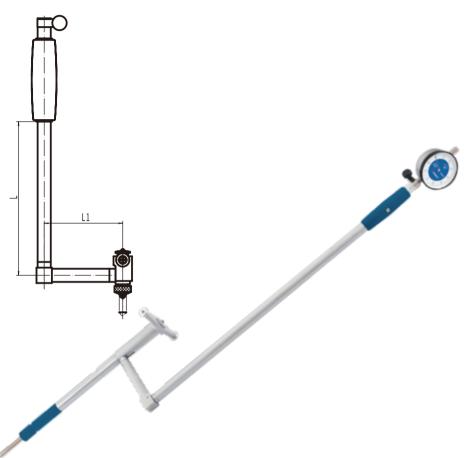
Code	Range	Graduation	Depth
5411-0005	35-50	0.01	500
5411-0010	50-160	0.01	500
5411-0015	35-50	0.01	1000
5411-0020	50-160	0.01	1000
5411-0025	160-250	0.01	1000
5411-0030	250-450	0.01	1000





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



- 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

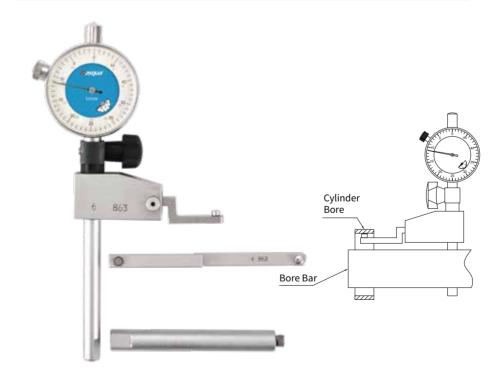
Code	Range	Graduation	Depth
5581-0005	400-800	0.01	400
5581-0010	400-800/16"-32"	0.002/0.0005"	400

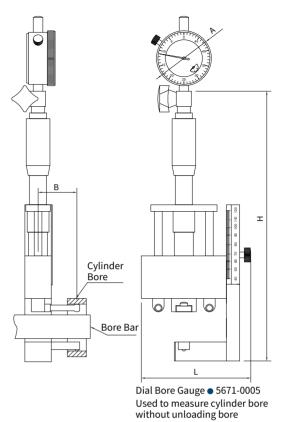
GAUGE FOR BEARING METAL BORING MACHINE

• 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

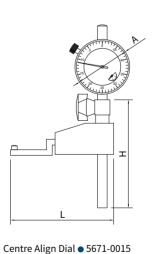
- Large dial for easy reading
- Graduation:0.01mm
- Accuracy:0.03mm

								Unit:mm
Code	Name	Range	Graduation	A	В	L	н	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	ϕ 36-66(Use to ϕ 32 bore bar) ϕ 50-100(Use to ϕ 45 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

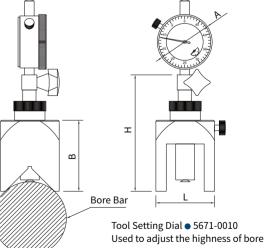








Used to adjust the concentricity of cylinder bore and bore bar





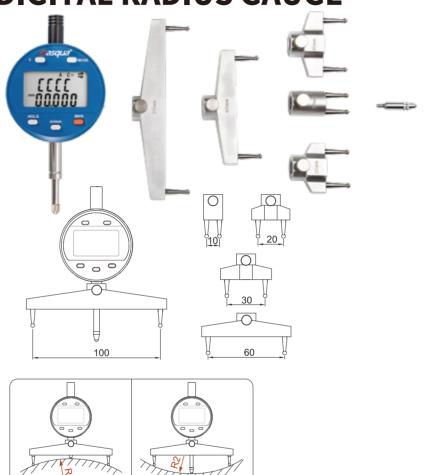
CRANKSHAFT TESTER

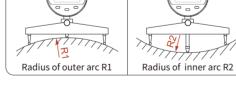


- To Measure crankshaft deflection
- The balance block is mounted on the back of dial indicator to keep the dial indicator facing up
- Measuring range: 60-500mm
- Graduation:0.01mm
- Rotatable dial.supplied with extensions

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

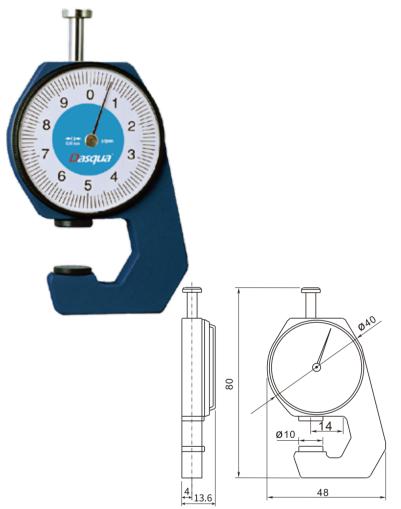
Unit:mm

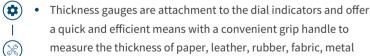
Code	Outside Diameter Range	Inside Diamter Range	Graduation	Radius Accuracy
5831-0005	5-700	6.5-700	0.005/0.0015"	<1%

INTERCHANGEABLE POINTS BORE GAUGE



THICKNESS GAUGE





• Stainless spindle, hardened and precision ground

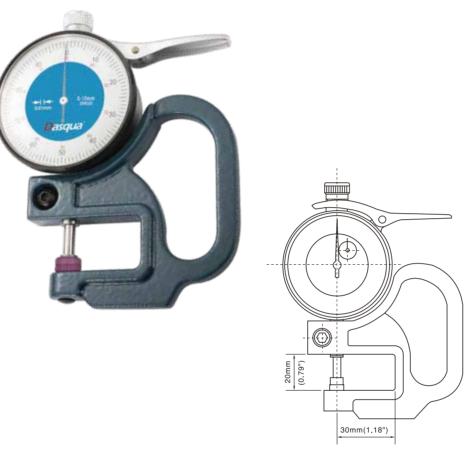
plate, glass ,plastic plate, etc

• With steel or ceramic measuring faces

• Sturdy light metal frame, lacquered, with spindle lifting lever

			Officiali
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

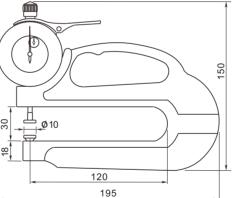
Stainless spindle, hardened and precision ground

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





• 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

0.0005"

 ± 0.001 "

• Provide quick and efficient inspection of thickness

0-0.5"

5842-4110

Unit:mm Graduation Code Range Accuracy 5841-1105 0-10 0.01 ± 0.02 5841-1110 0-20 0.01 ± 0.03

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 plat, 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

Un	it:	mr
OH	н.	1111

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



DIGITAL THICKNESS GAUGE



- 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

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

DIGITAL THICKNESS GAUGE



- 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

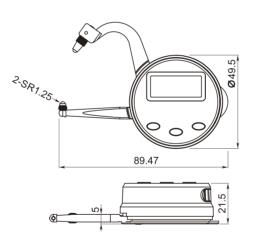
Unit:mm

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

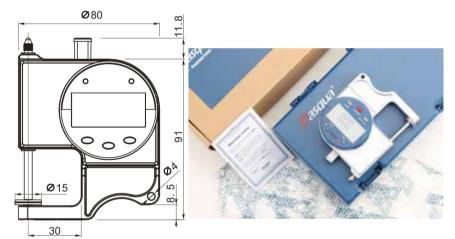
Unit:mm

Code	9	Range	Resolution	Accuracy
2140-81	105	0-25/0-1"	0.01/0.0005"/1/64"	0.05/0.002"

DIGITAL THICKNESS GAUGE





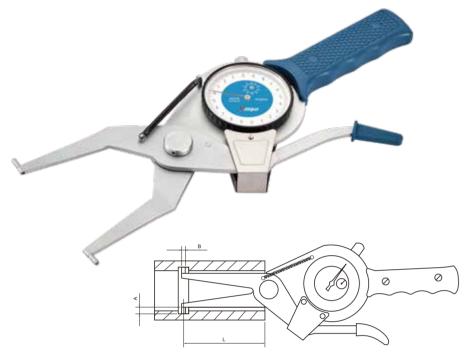


- Spring load movement with a push button
- Large LCD display for easy and clear readings
- Thickness measurement of different materials



Resolution Accuracy 2140-8110 0-25/0-1" 0.01/0.0005"/1/128" 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

						UIIII.IIIII
Code	Range	Graduation	Accuracy	Α	В	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

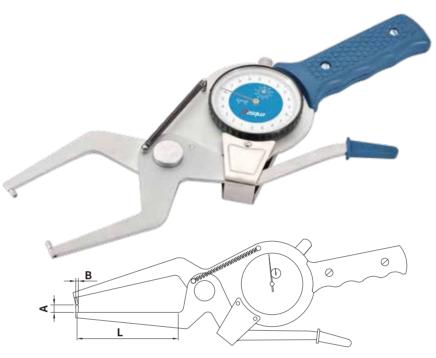


- Versatile internal dial caliper gauge for measuring inside diameter, ring groove bottom diameter and inside step diameter or special holes of the workpiece
- The gauge is spring loaded and makes point contact at a constant measuring force
- With large LCD display for clear and error-free readings adings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

I Init-mm

						OHILHIII
Code	Range	Resolution	Accuracy	L	Α	D
5811-0005	15-35	0.01/0.0005"	±0.035/0.002"	50	3	φ3
5811-0010	35-55	0.01/0.0005"	$\pm 0.035/0.002$ "	80	6	φ3
5811-0015	55-75	0.01/0.0005"	±0.035/0.002"	90	8	φ3
5811-0020	75-95	0.01/0.0005"	$\pm 0.035/0.002$ "	100	8	φ3
5811-0025	95-115	0.01/0.0005"	±0.035/0.002"	150	10	φ3.2
5811-0030	115-135	0.01/0.0005"	±0.035/0.002"	150	10	φ3.2

EXTERNAL DIAL CALIPER GAUGE



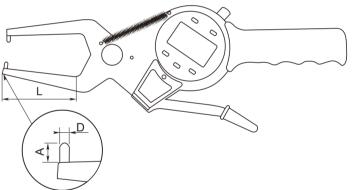
- Versatile external dial caliper gauge for measuring outside diameter, ring groove bottom diameter, narrow grooves and the dimensions that hard to reach
- The gauge is spring loaded and makes point contact at a constant measuring force
- · Carbide measuring contact points
- Can be set with a micrometer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

Unit:mm

Code	Range	Graduation	Accuracy	А	В	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





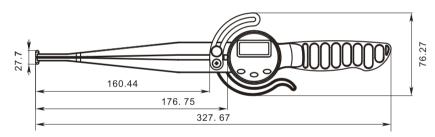
- Versatile internal dial caliper gauge for measuring outside diameter, ring groove bottom diameter, narrow grooves and the dimensions that hard to reach
- The gauge is spring loaded and makes point contact at a constant measuring force
 - With large LCD display for clear and error-free readings
- Carbide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

3	output for	SPC and	alysis	

							OHILHIII
	Code	Range	Resolution	Accuracy	Α	D	L
	5630-1005	0-20	0.01/0.0005"	±0.035/0.002"	6	φ3	60
į	5630-1010	20-40	0.01/0.0005"	±0.035/0.002"	6	φ3	60
	5630-1015	40-60	0.01/0.0005"	±0.035/0.002"	6	φ3	55
į	5630-1020	60-80	0.01/0.0005"	±0.035/0.002"	6	φ3	55
į	5630-1025	80-100	0.01/0.0005"	±0.035/0.002"	6	φ3	55

CALIPER GAUGE





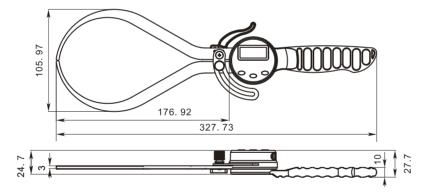


- Make quick and accurate inside measurements of different materials
 - Perfect for woodworking, carpentry, metal fabrication, etc
- High hardness and wear resistance
 - With large LCD display for clear and error-free readings
- The gauge is spring loaded and makes point contact at a constant measuring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

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	12.7-216/0.5-8.5"	0.1/0.005"/1/64"	0.3/0.02"

EXTERNAL DIGITAL







- 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

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"

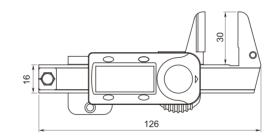
SNAP ACTION CALIPER









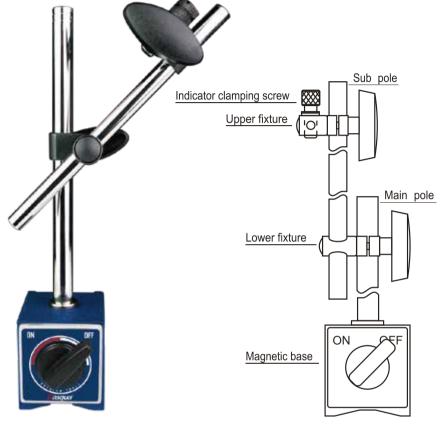


- With spring-loaded mechanism to allow quick and efficient measurements
 - With large LCD display for clear and error-free readings

Hanging loop included for attachment to belt or chain

- Wide jaw for easy position
 - Hardened stainless steel construction
- Unit:mm Resolution Accuracy 2140-8101 0.0005"/0.01/1/64 0.03/0.0015" 0-25/0-1"

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
 - 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

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



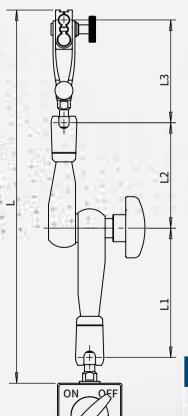


LOCK 'T MAGNETIC BASE



• 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





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

- 11	nit:	mm
U	HILL.	111111

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
7121-0035	100kg	73 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

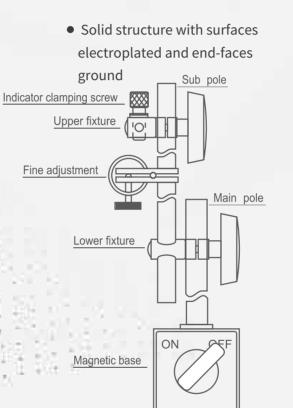
Ergonomic-designed tightening knob provides comfortable and firm grip; Flexible and super strong rotary joints, providing smooth adjustments in any direction or location

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/off switch for magnet, easy to move the base without the influence of magnetic force.





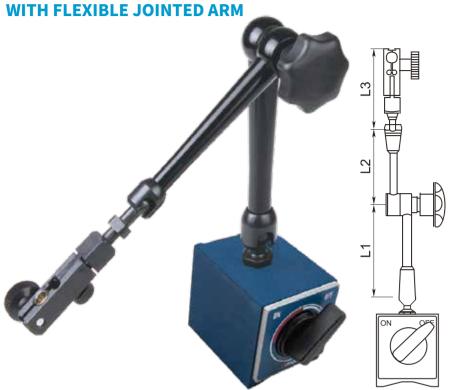


Code	Holding Power	Base	Main Pole	Sub Pole	Dia. of Clam Hold	weight
7122-0004	60kg	60x50x55	φ12x176	φ10x150	φ6/φ8	1.5kg
7122-0005	80kg	60x50x55	φ12x176	φ10x150	φ6/φ8	1.5kg
7122-0010	100kg	73x50x55	φ16x255	φ14x165	φ6/φ8	2.3kg
7122-0015	130kg	117x50x55	φ20x355	φ14x210	φ6/φ8	3.7kg
7123-1004	60kg	60x50x55	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 fine adjustment device, which is heat-treated to ensure stability and durability.

MAGNETIC STAND







• Ball joints enables quick and easy positioning, all three joints are controlled by a tightening knob





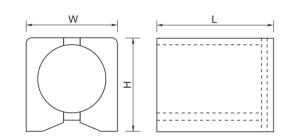
- With clamp hole, dovetail groove, which can clamp many types of indicators
- 150° V-grooved base, can be placed on the cylindrical surfaces for easily fixing the indicators
- On/off switch for magnet, easy to move the base without the influence of magnetic force

Unit:mm

Code	Holding Power	Base	Arm length	L1	L2	L3	Dia. of Clam Hold	Weight
7312-0005	30kg	35x30x35	158	56	51	17	φ6/φ8/Devotail	0.4kg
7312-0010	80kg	60x50x55	310	110	101	73	$\phi 6/\phi 8/Devotail$	1.4kg
7312-0015	100kg	73x50x55	385	147	130	76	φ6/φ8/Devotail	1.8kg
7312-0020	130kg	117x50x55	635	285	225	76	φ6/φ8/Devotail	5.0kg

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/off switch for magnet, easy to move the base without the influence of magnetic force

• Blue wrinkle finish on non-working surfaces

Unit:mm

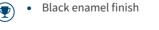
Code	Holding Power	size(L x W x H)	Thread	Magnet Type	Weight
7000-0005	80kg	60x50x55	M8x1.25	Ferrite	1.0kg
7000-0010	100kg	73x50x55	M8x1.25	Ferrite	1.3kg
7000-0015	130kg	117x50x55	M8x1.25	Ferrite	2.0kg
7000-0020	30kg	35x30x35	M5x0.8	NdFeB	0.2kg

MAGNETIC STAND



• 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/off switch
- Low height enables fast, safe and easy mounting on machines and jigs



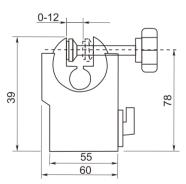
Unit:mm

Code	Holding Power	Base	Stem	Dia. of Clam Hold	Weig
7511-0005	15kg	φ30x25	65	φ6/φ8/Devotail	2008
7521-0005	20kg	73x37x12	/	φ8	160
7521-0010	20kg	73x37x26	/	φ8	3008

MICROMETER STAND

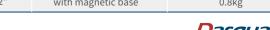
WITH MAGNETIC BASE





- 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

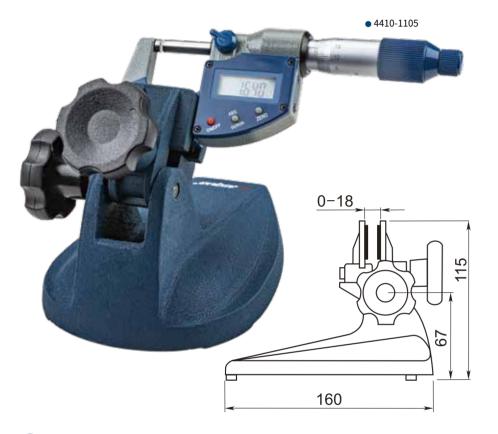
Capacity Magnetic Weight 7111-1000 up to 300/12" with magnetic base 0.8kg







MICROMETER STAND

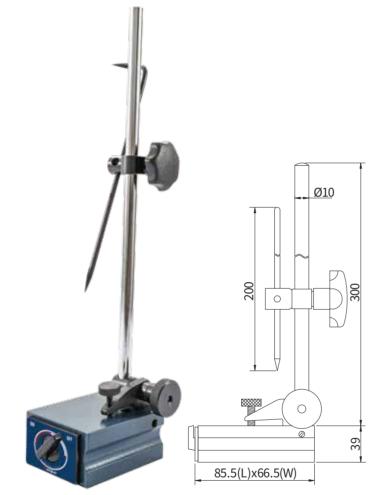


- Keep hands free for operating micrometer and positioning workpiece
- Perfect for batch or mass production measurements in manufacturing
- 150° V-grooved base can be placed on the cylindrical surfaces for easily
- On/off switch for magnet, easy to move the base without the influence of magnetic force
- Blue enamel finish Without digital micrometer, which can be found and ordered in page 41

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
- Brightness can be adjusted to dark, bright and mild

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

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





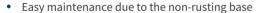
PRECISION GRANITE **COMPARATOR STAND**

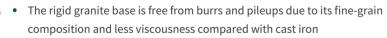
WITH FINE ADJUSTMENT













- Measuring surface fine ground and diamond lapped
- Hardened column with height adjustment and setting ring
- Dial indicator shank φ8 mm
- With fine adjustment over the entire travel

Unit:mm

Code	Base	Pole	Dia. of Clam Hole
7812-0015	300x200x60	φ30x300	φ8/3/8"

PRECISION GRANITE COMPARATOR STAND

WITH CAST IRON ANVIL





- 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	φ25x180	φ60	φ8/3/8"
7712-0030	φ25x180	80x80	φ8/3/8"

PRECISION MEASURING TABLE **WITH CERAMIC ANVIL**





• Indicator holder φ8 mm

• The table is of high-quality ceramic, lapped

• Ra≤0.1µm

Code	Pole	Base	Dia. of Clam Hold	Weight
7712-0020	φ25x180	φ60	φ8/3/8"	1.6kg
7712-0025	φ25x180	80x80	φ8/3/8"	2.5kg

HEAVY DUTY PRECISION BENCH CENTER



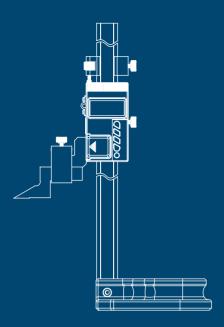
- Used to make fast and precise checks of runout on cylindrical/tapered parts
- Base and center-stocks are made of stress-relieved and aged cast iron
- Centers are made of hardened and precision ground steel
 - Extra heavy duty adjustable indicator holder included
- Quick release centers, #2 Morse taper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

-1	n	ıt٠	m	m

Code	Distance between	Center height	Range	Ac	curacy
Code	two centers	Center neight	i neight Kange	Parallelism(µm)	Verticality(μm)
7851-0005	200	100	φ200	≪8	≤ 5
7851-0006	300	100	φ200	≪8	≤ 5
7851-0007	300	170	φ340	≪8	≤5
7851-0008	300	300	φ600	≤ 8	≤ 5
7851-0009	500	170	φ340	≤ 8	≤ 5
7851-0011	500	300	φ600	≤ 8	≤ 5
7851-0013	1000	300	φ600	≤10	≪8
7851-0014	1500	250	φ500	≤20	≤16
7851-0015	2000	230	φ460	≤30	≤20
7851-0016	2500	300	φ560	≤30	≤30







HEIGHT GAUGES

BORN IN ITALY, RAISED BY THE WORLD

BORN IN ITALY, RAISED BY THE WORLD HEIGHT GAUGE

VERNIER HEIGHT GAUGE

MADE OF STAINLESS STEEL



• Designed for scribing from a vertical base

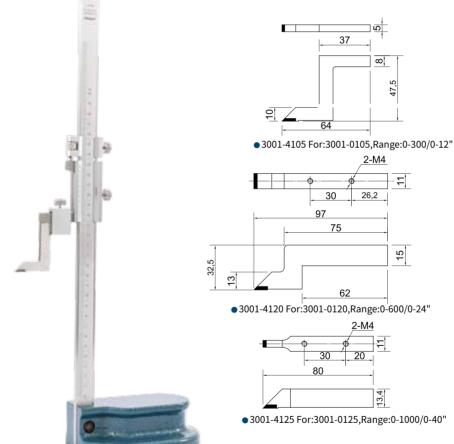
• Stain chrome finished scales for glare-free reading

At zero-position the scriber coincides exactly with the base

• Carbide tipped scriber for sharp, clean lines

• Beam and slider are made of stainless steel

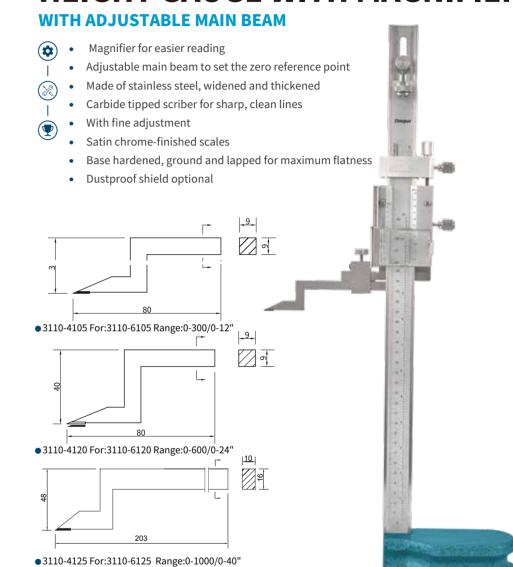
• Dustproof shield optional



Unit:mm

Code	Range	Graduation	Accuracy
3001-0105	0-300/0-12"	0.02/0.001"	± 2 Graduation
3001-0120	0-600/0-24"	0.02/0.001"	± 3.5 Graduation
3001-0125	0-1000/0-40"	0.02/0.001"	±3.5Graduation

HEIGHT GAUGE WITH MAGNIFIER



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



IP65 WATER PROOF HEAVY DUTY DIGITAL HEIGHT GAUGE



Code	Range	Resolution	Accuracy
3130-4703	0-300/0-12"	0.001/0.00005"	0.02/0.0008"
3130-4716	0-600/0-24"	0.001/0.00005"	0.04/0.0015"

WITH WIRELESS TRANSMISSION

Unit:mm

			0
Code	Range	Resolution	Accuracy
3230-4705	0-300/0-12"	0.001/0.00005"	0.02/0.0008"
3230-4710	0-600/0-24"	0.001/0.00005"	0.04/0.0015"

DIGITAL HEIGHT GAUGE

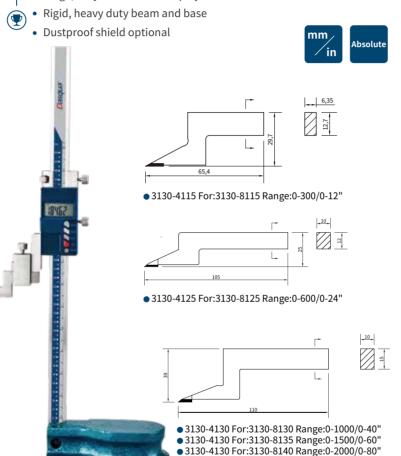
WITH ABSOLUTE LINEAR ENCODER

• Built-in absolute liner 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



A STATE OF THE PARTY OF THE PAR			Unit:mn		
Code	Range	Resolution	Accuracy		
3130-8115	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 DIAL HEIGHT GAUGE



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

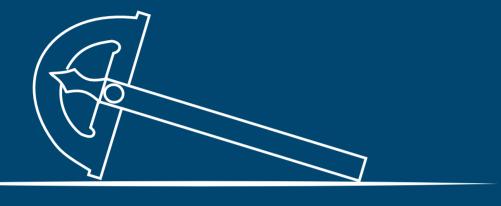
Unit-mm

• 3230-4105 For:3222-4215 Range:0-24" • 3230-4105 For:3222-4220 Range:0-40"

DOUBLE-BEAM DIGITAL HEIGHT GAUGE



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



ANGLE MEASURING

BORN IN ITALY, RAISED BY THE WORLD

4 PCS COMBINATION SQUARE SET

Low surface rough

accuracy with

ground



Strong and elegant packing

4PCS COMBINATION DIGITAL SQUARE SET

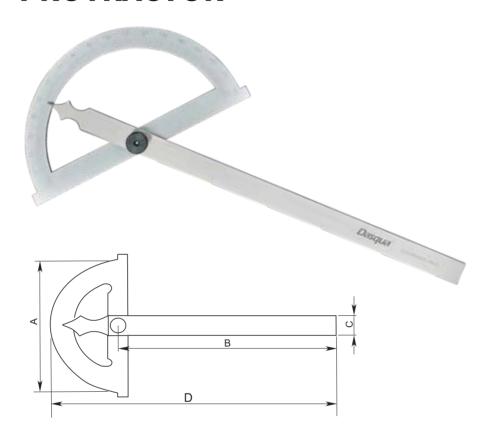


- Higher accuracy with digital protractor newly applied
- Made by procoated mold and no blister on the surface
- Distinct lines and figures against the satin chrome finish making reading easily
- Low surface roughness and high accuracy with surfaces precisely ground

Unit:mm

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

PROTRACTOR



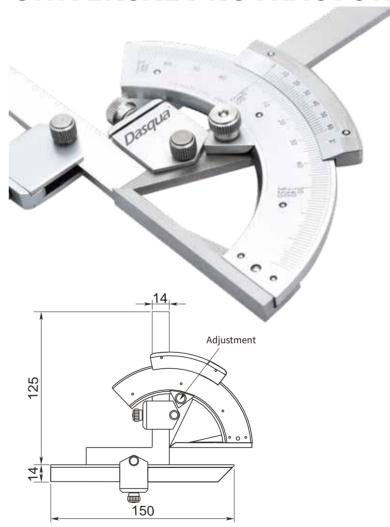
- Made of stainless steel
- Satin chrome finish, anti-rust and durable
- Locking knob can hold any angle
- Multi-purpose, engineering drawing, angle measurement, architectural design,
- woodworking, length measurement, etc

• Packaged in a beautiful and durable leather bag

Unit:mm

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

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

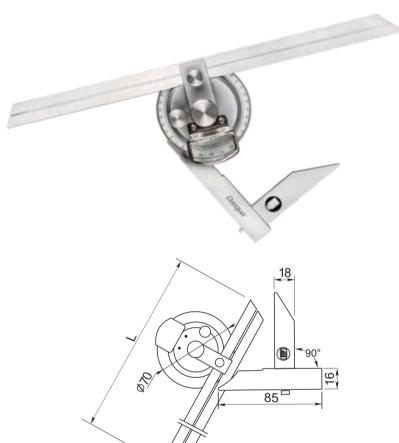


Unit:mm

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

UNIVERSAL PROTRACTOR

WITH FINE ADJUSTMENT AND MAGNIFIER

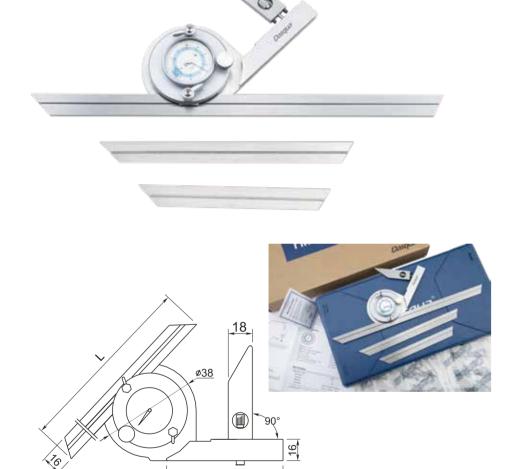


- - Made of stainless steel
 - With a magnifier for easy and clear reading
 - Measuring surface hardened, ground and lapped ensures smooth movement
 - Satin chrome finish, anti-rust and durable
- Provided with three blades (150mm, 200mm, 300mm)

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



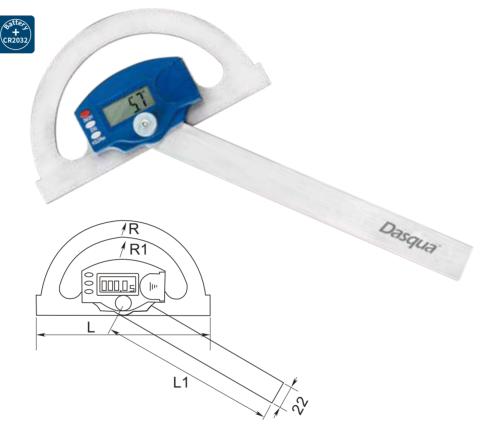
UNIVERSAL DIAL PROTRACTOR



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

INDUSTRIAL DIGITAL PROTRACTOR

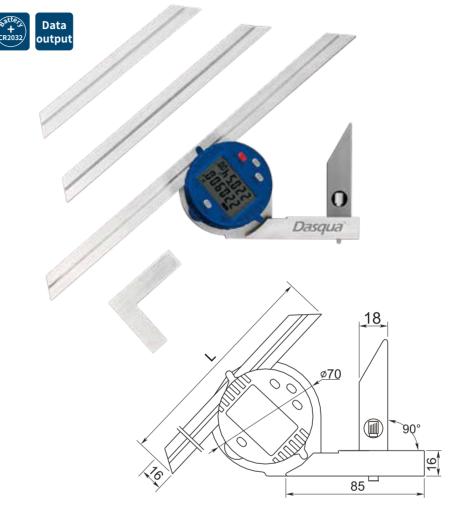


- Measuring range: 0-180°
- Big LCD display for easy and clear reading
- Stainless steel scale, measuring surface hardened, ground and lapped
- Locking knob can hold any angle
- Data hold function, zero setting at any position
 - Satin chrome finish, anti-rust and durable

11	n	it.	m	m	

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 STAINLESS DIGITAL PROTRACTOR



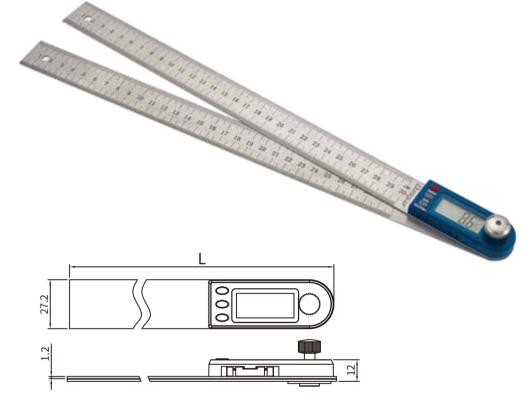
L=150MM/200MM/300MM

- 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 Accuracy 150/200/300 1021-2005 0-360° ±5'





- 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

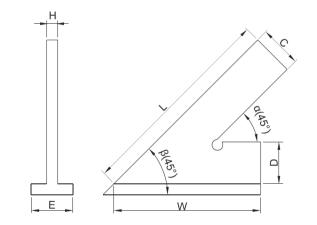
Code	Size	Range	Resolution	L	Accuracy
1022-0200	200	0-360°	0.05°	277	±0.2°
1022-0300	300	0-360°	0.05°	380	±0.2°





45°SQUARE





- 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

						OIII	L.111111
Code	Standard	Size(LxW)	Angle Tolerance	С	D	н	E
9222-3105	DIN875/2	120x80	0.030	20	20	5	20
9222-3110	DIN875/2	150×100	0.035	20	20	5	20
9222-3115	DIN875/2	200x130	0.040	25	25	6	25

60°SQUARE

WITH WIDE BASE



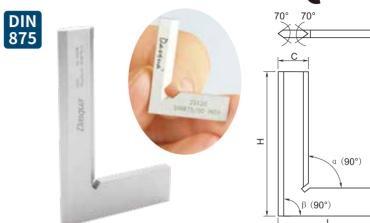
- Precision ground base for measuring and checking the flatness error
- Strictly made in accordance with DIN875
- Made of hardened stainless steel
 - Satin chrome finish for glare-free easy reading
- Measuring surfaces are precision ground and lapped

de	Standard	Size(LxW)	Angle Tolerance	С	D	

Unit:mm

						0111	
Code	Standard	Size(LxW)	Angle Tolerance	С	D	н	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



- Strictly made in accordance with DIN875
- Beveled edges can be used for inside and outside measurement
- Made of hardened stainless steel

9111-1125 DIN875/0 200x130

Measuring surfaces are precision ground and lapped



GRADE 0

Code	Standard	Size(HxL)	Angle Tolerance	С	D	В
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	150×100	0.008	30	30	6

0.009

Unit:mm

Unit:mm

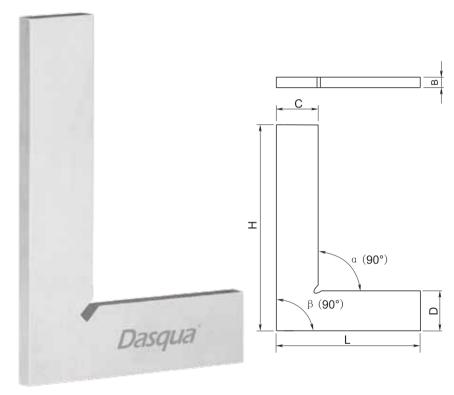
33 33 7

GRADE 00

Code	Standard	Size(HxL)	Angle Tolerance	С	D	В
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





- 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

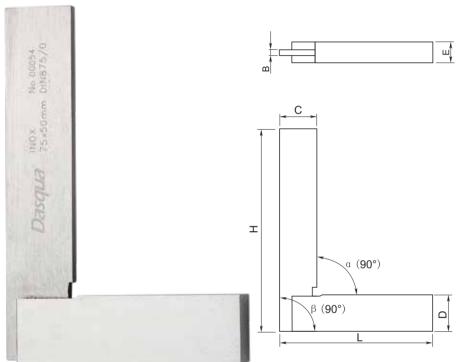
Measuring surfaces are precision ground and lapped	
--	--

Code	Standard	Size(HxL)	Angle Tolerance	С	D	В
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





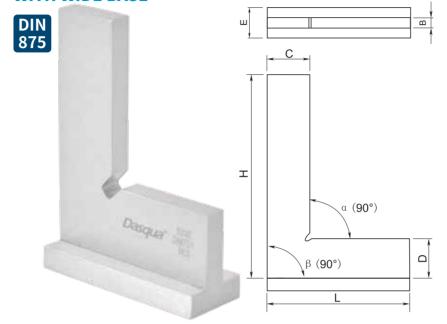
- Precision ground base for measuring and checking the flatness error
 - Used for checking the straightness, parallelism and perpendicularity
- Strictly made in accordance with DIN875
- Made of hardened stainless steel
- Satin chrome finish for glare-free easy reading
 - Measuring surfaces are precision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

ŀ٠	mm	١
١.	11111	

							OTHE.ITHI
Code	Standard	Size(HxL)	Angle Tolerance	С	D	В	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 SQUARE

WITH WIDE BASE





• 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

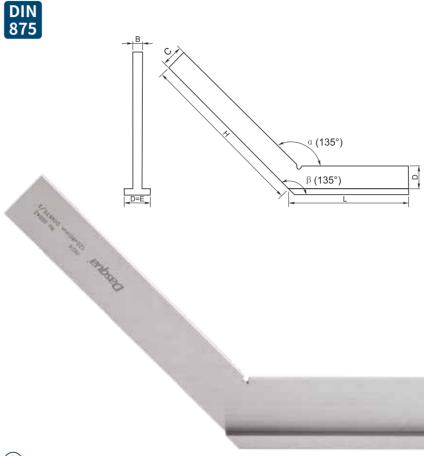
Measuring surfaces are precision ground and lapped

ln	11	·m	m	

Code	Standard	Size(HxL)	Angle Tolerance	С	D	В	Е
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

135°SQUARE

WITH WIDE BASE



- 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	С	D	В
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

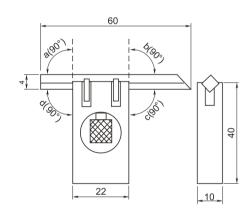


- Use with feeler gauge or light gap method to measure the straightness and parallelism
- Strictly made in accordance with DIN874
- With one beveled edge
- Made of hardened stainless steel
 - Satin chrome finish for glare-free easy reading
 - Measuring surfaces are precision ground and lapped

Code	Standard	Size(L)	Angle Tolerance	Н	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





- 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



		-1	
3	•	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

	OTIICITIITI
Code	
9383-2205	

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

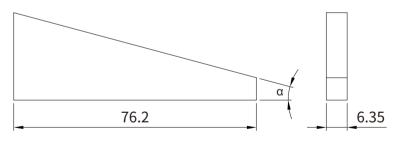


Unit:mm

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



Code	Amount(pcs)	Angle(α)	Angular Precision
9411-1205	10	1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°	±20"
9412-4105	12	$1/4^{\circ},1/2^{\circ},1^{\circ},2^{\circ},3^{\circ},4^{\circ},5^{\circ},10^{\circ},15^{\circ},20^{\circ},25^{\circ},30^{\circ}$	±20"







PRECISION LEVEL

BORN IN ITALY, RAISED BY THE WORLD



PRECISION FRAME LEVEL PRECISION LEVEL

WITH WOODEN HANDLE

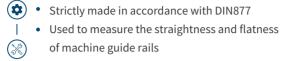
- Used to measure the angle of inclination, flatness and straightness of the machine guide rails, horizontal position and vertical position of equipment setup in machinery industry and instrument manufacturing
- With more artistic wooden handle rather than normal
 - The glass bubble is of great sensitivity 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

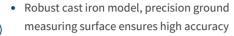
Unit:mm

Code	Range	Graduation
8301-1003-B	150 x 150	0.02
8301-1006-B	200 x 200	0.02
8301-1009-B	250 x 250	0.02
8301-1013-B	300 x 300	0.02

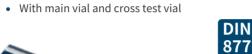








• Base with V-groove to allow use on round bars and shafts, cylindrical surfaces





lln	it٠	m	m

		O'mei'mii
Code	Range	Graduation
8301-0005-A	150	0.05
8301-0010-A	200	0.05
8301-0015-A	250	0.05
8301-0020-A	300	0.05
8301-1005-A	150	0.02
8301-1010-A	200	0.02
8301-1015-A	250	0.02
8301-1020-A	300	0.02
8302-0005-A	6"	0.0005"
8302-0010-A	8"	0.0005"
8302-0015-A	10"	0.0005"
8302-0020-A	12"	0.0005"

PRECISION FRAME LEVEL



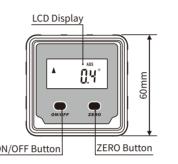
- Strictly made in accordance with DIN877
- Used to measure the straightness and flatness of machine guide rails
- Robust cast iron model, precision ground measuring surface ensures high accuracy
- Base with V-groove to allow use on round bars and shafts

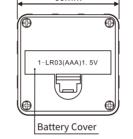
Unit:mm

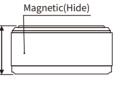
		Omemin
Code	Range	Graduation
8301-0003-A	150 x 150	0.05
8301-0006-A	200 x 200	0.05
8301-0009-A	250 x 250	0.05
8301-0013-A	300 x 300	0.05
8301-1003-A	150 x 150	0.02
8301-1006-A	200 x 200	0.02
8301-1009-A	250 x 250	0.02
8301-1013-A	300 x 300	0.02
8302-0003-A	6" x 6"	0.0005"
8302-0006-A	8" x 8"	0.0005"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

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







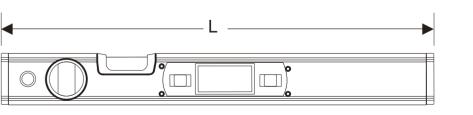


Code	Range	Resolution	Accuracy
8400-0010	4x90°	0.1°	±0.2°

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

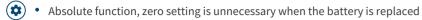
Code	Magnet	Range	Resolution	L	Accuracy
8301-2640	NO	4x90°	0.1°	400	0.2°
8301-2645	YES	4x90°	0.1°	400	0.2°

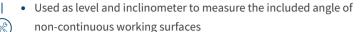


Dasqua°

PRECISION LEVEL BORN IN ITALY, RAISED BY THE WORLD

DIGITAL PROTRACTOR



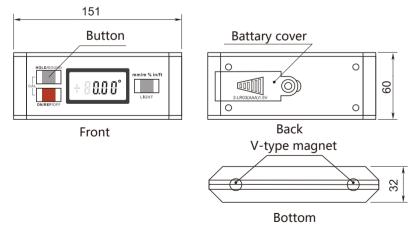


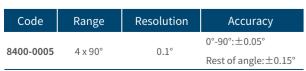


- Backlight function enables it to use in the dim place
- IP65 dust-proof and water-proof













CALIBRATION GAUGE BLOCK

BORN IN ITALY, RAISED BY THE WORLD

Code

6310-0053

6310-0054

6310-0055

6310-0056

6310-0057

6310-0058

6310-0059

6310-0060

6310-0061

6310-0062

6310-0063

6310-0064

6310-0065

6310-0066

6310-0067

6310-0068

6310-0069

6310-0070

6310-0071

6310-0072

6310-0073

6310-0074

6310-0075

6310-0076

6310-0077

6310-0078

GAUGES/GO&NO-GO

THREAD PLUG

GAUGES PRIME Made in Europe

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

Dasgua

Graphical

190857984

Right

Flank Angle

2956'3"

2956'27"

2956'29"

2956'55"

2956'43"

• All Thread Parameters per Pitch Inspection according to ISO Thread

Nr of Starts

Measurement

Master Gauge

Max tol. Measured

13.806

14.664

2.005

Flankpercentage(%)

Setting Gaguge Diame

13.798

14.6579

Measured object Internal Normal Thread Left/Right Thread

20

Go

Min tol.

16.117

13.788

14.646

1.995

2950'0"

Basic Minor Diameter

DIN ISO 1502

M16x2-6g T

DIN ISO 1502 Standard

CERTIFICATE

Cert. Nr.:

Standard

Temperature

Ident Number

Flank Angle

Basic Major Diamet

16.3171

16.3125

16.3136

Basic Major Diameter(mr

Basic Minor Diameter(mm

Basic Pitch Diameter(mm)

Cumulative Pitch Error

• 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.



Machine



IAC Screw Thread Inspection

THREAD PLUG GAUGES/GO&NO-GO

1502

M8*0.75

M10*0.75

M10*1.25

M12*1.25

M12*1.5

M14*1.25

M14*1.5

M16*1.5

M18*1.5

M20*1.5

M22*1.5

M24*1.5

M25*1.5

M26*1.5

M27*1.5

M27*2

M28*1.5

M24*1

M24*2

M16*1

M18*1

M20*1

M14*1

M10*1

M12*1

M8*1

ISO-METRIC

Strictly made in accordance with DIN ISO 1502.

With Go&No-Go ends

Grade 6H

Code

6310-0001

6310-0002

6310-0003

6310-0004

6310-0005

6310-0006

6310-0007

6310-0008

6310-0009

6310-0010

6310-0011

6310-0012

6310-0013

6310-0014

6310-0015

6310-0016

6310-0017

6310-0018

6310-0019

6310-0020

6310-0021

6310-0022

6310-0023

6310-0024

6310-0025

6310-0026

Made of premium steel, hardened, cryogenic treatment

M3*0.5

M4*0.7

M5*0.8

M6*1

M8*1.25

M10*1.5

M14*2

M16*2

M18*2.5

M1*0.25

M1.4*0.3

M1.6*0.35

M2.5*0.45

M3.5*0.6

M20*2.5

M22*2.5

M24*3

M27*3

M30*3.5

M33*3.5

M36*4

M42*4.5

M48*5

M8*0.5

M2*0.4

M12*1.75

• Stable product dimensions, superior surface finish, wear resistance for long service life

Code

6310-0027

6310-0028

6310-0029

6310-0030

6310-0031

6310-0032

6310-0033

6310-0034

6310-0035

6310-0036

6310-0037

6310-0038

6310-0039

6310-0040

6310-0041

6310-0042

6310-0043

6310-0044

6310-0045

6310-0046

6310-0047

6310-0048

6310-0049

6310-0050

6310-0051

6310-0052

With inspection certificate

100	866	te.
-	99	

M30*1

M30*2

M30*1.5

M32*1.5

M33*1.5

M33*2

M35*1.5

M36*1.5

M38*1.5

M40*1.5

M40*2

M42*1.5

M42*2

M45*1.5

M45*2

M48*1.5

M48*2

M50*1.5

M50*2

M52*1.5

M52*2

M55*1.5

M55*2

M58*1.5

M60*2

M36*2

ANSI-INCH



- Strictly made in accordance with ANSI B1.2
- With Go&No-Go ends
- Grade 2B
- Made of premium steel, hardened,



- 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





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

Unit:mm N

6510-0025-NG M48*5



BORN IN ITALY, RAISED BY THE WORLD

THREAD RING GAUGES ANSI-Inch



•	With	inspection	certificate
•	VVICII	mapeedion	ccitiiicate

00					OHIL.HIIII
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

6510-0026-GG M8*0.5 **6510-0052-GG** M28*1.5 **6510-0078-GG** M60*2

6510-0051-GG M27*2 **6510-0077-GG** M58*1.5

No-Go			10 C 4 C 4 C 5 C 5 C 5 C 5 C 5 C 5 C 5 C 5		Unit:mr
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

6510-0051-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 6511-0014-GG 1/2"-20UNF 6511-0014-NG 1/2"-20UNF

_	
	•

- Strictly made in accordance with ANSI B1.2
- With Go&No-Go ends
- Grade 2A
 - Made of premium steel, hardened, c
- 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

No-Go

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



	r	٦	т	٠	r	Y	٦	١
U	ı	I	I	ι	I	I	I	Į

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,	Go Ring Gauge
6311-3105	3/8"-16UNC,1/2"-13UNC	do kilig dauge
6211 2106	6-32UNC,8-32UNC,10-24UNC,12-24UNC,1/4"-20UNC,	No-Go Ring Gauge
6311-3106	3/8"-16UNC,1/2"-13UNC	No-00 King Gauge





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







ı	1	:4.	

DIN ISO ANSI 1502 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





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

3030					Unit:mm
Code	Grade	Piece/Set	Size	Step	Piece
			1.005	/	1
6221-5232	1		1.01-1.09	0.01	9
0221-3232	1	22	1.1-1.9	0.1	9
		32	1-9	1	9
6220-5232	0		10-30	10	3
6220-5232	U		50	/	1
			1.001-1.009	0.001	9
6221-5246	1		1.01-1.09	0.01	9
		4.6	1.1-1.9	0.1	9
6220-5246	6220-5246 0	46	1-9	1	9
			10-100	10	10
			1.005	/	1
6221-5247 1	1	1 47	1.01-1.19	0.01	19
			1.2-1.9	0.1	8
6220-5247	0		1-9	1	9
0220 3241	Ü		10-100	10	10
6221-5287	1		1.001-1.009	0.001	9
0221-3261	1	87	1.01-1.49	0.01	49
6220-5287	0	01	0.5-9.5	0.5	19
0220-3281	U		10-100	10	10
6221-5103	1		1.005	/	1
0221-3103	1	103	1.01-1.49	0.01	49
6220-5103	0	103	0.5-24.5	0.5	49
0220-3103	O		25-100	25	4
			1.0005	/	1
6221-5112	1		1.001-1.009	0.001	9
		112	1.01-1.49	0.01	49
C220 F112	0		0.5-24.5	0.5	49
6220-5112	0		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



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

		UI			
Code	Grade	Piece/Set	Size	Step	Piece
			1.005	/	1
6341-4232	1		1.01-1.09	0.01	9
			1.1-1.9	0.1	9
		32	1-9	1	9
6340-4232	0		10-30	10	3
			50	/	1
			1.001-1.009	0.001	9
6341-4246	1		1.01-1.09	0.01	9
		46	1.1-1.9	0.1	9
6340-4246	0		1-9	1	9
			10-100	10	10
			1.005	/	1
6341-4247	1		1.01-1.19	0.01	19
		47	1.2-1.9	0.1	8
6340-4247	0		1-9	1	9
			10-100	10	10
			0.5	/	1
6341-4283	1		1	/	1
			1.005	/	1
		83	1.01-1.49	0.01	49
C240 4202	0		1.5-1.9	0.1	5
6340-4283	0		2.0-9.5	0.5	16
			10-100	10	10
6341-4287	1		1.001-1.009	0.001	9
	-	87	1.01-1.49	0.01	49
6340-4287	0	0.	0.5-9.5	0.5	19
	, and the second		10-100	10	10
6341-4103	1		1.005	/	1
		103	1.01-1.49	0.01	49
6340-4103	0		0.5-24.5	0.5	49
			25-100	25	4
			1.0005	/	1
6341-4112	1		1.001-1.009	0.001	9
		112	1.01-1.49	0.01	49
6240 4112	0		0.5-24.5	0.5	49
6340-4112	0		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 measuringequipment
- **Grade 2**: Mainly used in workshop to install cutters and workpiece, inspect the gauge block for manufacturing and set measuring equipment



CALIBRATION GAUGE 3650 **BLOCK SET**



MADE OF HIGH-QUALITY STEEL

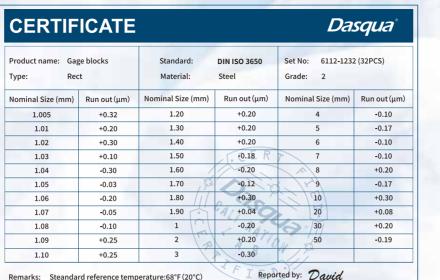
- High-carbon, high-chrome steel provides high hardness (≥63HRC) and wear resistance.
- Strictly made in accordance with DIN ISO 3650.
- made of high-quality alloy steel.
 - Edges are slightly lapped for protection.



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

Dasqua





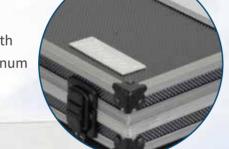
Remarks: Steandard reference temperature:68°F (20°C) Coefficient of thermal expansion :(11.5±1.0)×10 -6/°C

• Stable dimensions with high

accuracy, low surface roughness,

high wringing force.

 Provided with fitted Aluminum case



Dasqua

					Officialli
Code	Grade	Piece/Set	Size	Step	Piece
6110 1222	0		1.005	/	1
6110-1232	Ü		1.01-1.09	0.01	9
6111-1232	1	32	1.1-1.9	0.1	9
0111-1232	1	32	1-9	1	9
6112-1232	2		10-30	10	3
	-		50	/	1
6110-1246	0		1.001-1.009	0.001	9
6111 1246		46	1.01-1.09	0.01	9
6111-1246	1	46	1.1-1.9	0.1	9
6112-1246	2		1-9	1	9
			10-100 1.005	10	10
6110-1247	0		1.005	0.01	1 19
6111-1247	1	47	1.2-1.9	0.01	8
0111-1241	1		1-9	1	9
6112-1247	2		10-100	10	10
			0.5	/	1
6110-1283	0		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		2.0-9.5	0.5	16
			10-100	10	10
6110-1287	0		1.001-1.009	0.001	9
6111-1287	1	87	1.01-1.49	0.01	49
6112-1287	2		0.5-9.5	0.5	19
			10-100 1.005	10	10 1
6110-1201	0		1.005	0.01	49
6111-1201	1	103	0.5-24.5	0.5	49
6112-1201	2		25-100	25	4
6110-1112	0		1.0005	/	1
0110-1112	· ·		1.001-1.009	0.001	9
6111-1112	1	112	1.01-1.49	0.01	49
6112-1112	2		0.5-24.5	0.5	49
0112-1112	Z		25-100	25	4
C110 1122	0		0.5	1	1
6110-1122	0		1 1.0005	<i>I</i>	1
			1.0003	0.001	9
6111-1122	1	122	1.01-1.49	0.01	49
			1.5-1.9	0.1	5
			2.0-25.0	0.5	47
6112-1122	2		30-70	10	5
			75	/	1
			80-100	10	3
6110-3236	0		0.05"	/	1
0220	·		0.1001"-0.1009"	0.0001"	9
6111-3236	1	36	0.101"-0.109"	0.001"	9
			0.11"-0.19" 0.1"-0.5"	0.01" 0.1"	9 5
6112-3236	2		1", 2", 4"	U.1 /	3
C110 2221			0.1001"-0.1009"	0.0001"	9
6110-3281	0	_	0.1001"-0.149"	0.001"	49
6111-3281	1	81	0.05"-0.95"	0.05"	19
6112-3281	2		1"-4"	1"	4

LARGE METRIC GAUGE BLOCK SET



BORN IN ITALY, RAISED BY THE WORLD

8PCS LARGE METRIC

Size

125/150/175/200/250/300/400/500

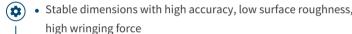
125/150/175/200/250/300/400/500

125/150/175/200/250/300/400/500

GAUGE BLOCK SET

6110-3208

6112-3208





• 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 (≥63HRC) and wear resistance
- Edges are slightly beveled for protection

5PCS LARGE METRIC GAUGE BLOCK SET

Unit:mm

Code	Size	Grade
6110-3205	600/700/800/900/1000	0
6111-3205	600/700/800/900/1000	1
6112-3205	600/700/800/900/1000	2

BLOCK HOLDERS

Unit:mm

Grade

GAUGE



- 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

	Un	it:mm

Code	Туре	Unit	Α	В	С	L	Н
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



CALIPER AND HEIGHT GAUGE CHECKER

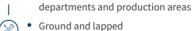


- Used to set and inspect caliper and height gauges
- Ceramic gage blocks can be used in either vertical and horizontal orientation
- Measuring blocks are corrosion-resistant and dimensionally stable
- Supplied with inspection certificate

UI	III.	ш	Ш	ш	

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	±0.007
0431-0013	0-1000	/650/700/750/800/850/900/950/1000	±0.007





• Made by quality steel hardened

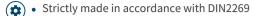
• Chrome steel hardened to Rc 63

,	(1)				Unit:mm
	Code	Including	Diamensional accuracy	Shape Accuracy	Quantity
	6350-0005	sφ1,sφ2,sφ3,sφ10sφ25	0.0025	0.0006	25 pairs





PIN GAUGE SET



Perfect for measuring the hole diameter,

distance between holes, hole location, slot width, used as go&no-go gagues 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



Unit:mm

Code	Amount(Pcs)	Size	Step	Accuary
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, 1.19/1.20/1.211.89/1.90/1.91,1.99/2.00/2.01[30pcs] 2.09/2.10/2.119.99/10.00/10.01[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"



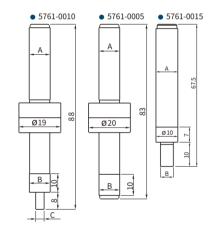


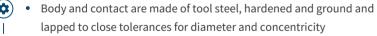
TOOL SETTING MEASURING GAUGES

BORN IN ITALY, RAISED BY THE WORLD

EDGE FINDER









• Ideal for locating work surfaces easily, quickly and accurately

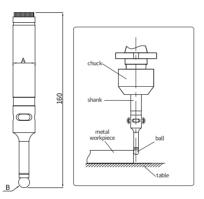
• Useful for identifying center line on jig boring, milling and engraving machines

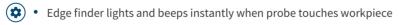
• Rotational speed of spindle approx 400 - 600 rpm

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







• High sensitivity probe for accurate positioning relative to workpiece

Read off any electrically conductive metal

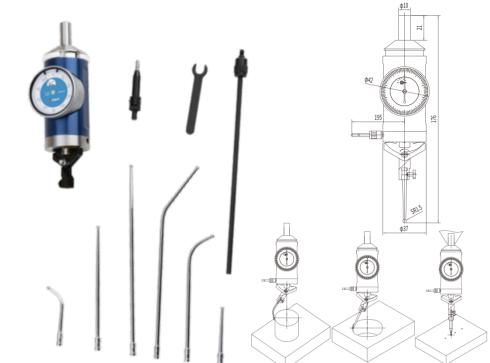
• Used to precisely determine the edge of a workpiece (zero setting)

• Hardened shank and contact ball

Unit:mm	
Accuracy	

Code	Shank(A)	Contact ball(B)	Beeper	Accuracy
5760-1005	φ20	Sφ10	with	0.005

CENTERING INDICATOR GAUGE



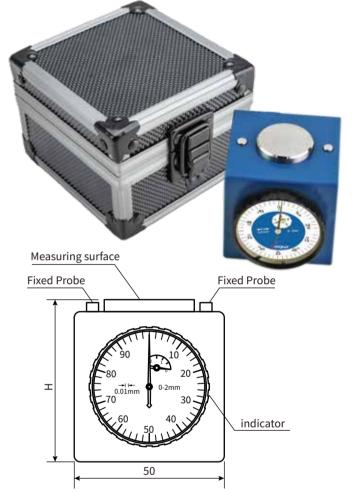
• Use this indicator to quickly center work pieces or fixtures on your bore and milling set-ups

- 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

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

Unit:mm

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

Resolution reaches 0.001mm

• Lighting indicating at "0" More obvious and accurate compared with mechanic zero setting device

Higher than other zero setting devices

• Accuracy (toleranace range): ±0.002mm/0.0001", Repeatability:0.003mm/0.0001"

• 3V Lithium battery CR2032



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



Provided in fitted aluminum case



Height of 100mm optional



 With magnetic base Fixed on machine steadily and shorten tool setting time and improve work

PREMIUM MAGNETIC PARALLEL SET

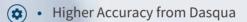
WITH HANDLE



Patented design for easy installation and disassemble







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

• Height tolerence: ±0.005mm Width tolerence: 0.01mm

• Hardness: 55-60HRC



15.22.25.30.32 15.30.35.37.39 25,35,40,45,47

Unit:mm



TOOL SETTING MEASURING GAUGES BORN IN ITALY, RAISED BY THE WORLD

1-2-3 BLOCKS









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

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,

accurate position for workpiece

- convenient to use and maintain • Easy to operate during the drilling, milling, assembling work, convenient to clamp workpiece, and provide the reliable and
- Accuracy: Height ±0.01mm, thickness ±0.01mm, use in pairs: ±0.01mm (height/thickness)
- Edges are slightly beveled
- Superior surface finish: Ra0.4um, high hardness: 56-61HRC, long service life

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 CERTIFICATE

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

 Precision ground with high accuracy: height/width ±0.01mm, parallelism ± 0.005 mm, use in pairs: ± 0.01 mm (height/thickness) and each parallel set is provided with its own inspection report

20CrMnTi

Dasqua

Size:Wide x Height x Length 4.76 x 31.75 x 152.4mm

4.76x 44.45 x 152.4mm

4.76 x 38.1 x 152.4mm 4.76 x 25.4 x 152.4mm - 0.01mm Width Tolerance:

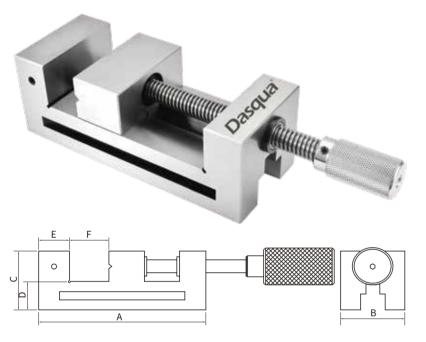
oughness of Working Surface:

oughness of Non-Working Surface: Ra0.4

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"



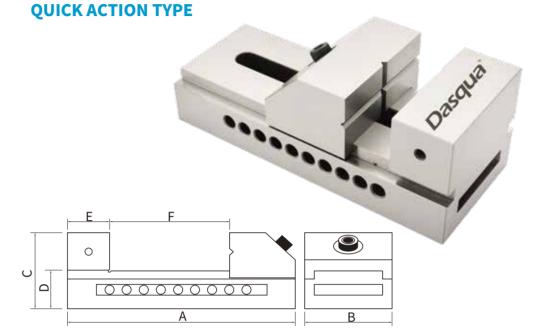
PRECISION TOOLMAKERS **VICE-SCREW GUIDE TYPE**



- Hardened and stabilized
 - Precision ground to a mirror finish
- Squareness of the vice is within 0.005mm and parallelism of the vice is within 0.003mmon 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 powert
 - Particularly suitable for erosion work
 - Can be used on base, either side, end and top

Code	A	В	С	D	Е	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

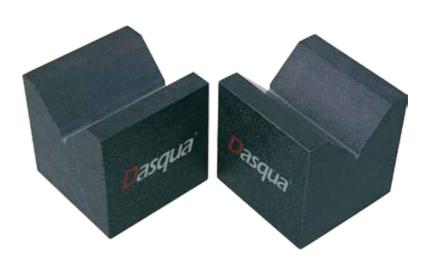


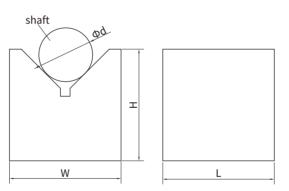
- Hardened and stabilized.
 - Precision ground to a mirror finish
- Squareness of the vice is within 0.005mm and parallelism of the vice is within 0.003mmon all
- Positive download and rapid positioning notches for free Jaw movement
 - Horizontal and Vertical V moveable jaws are provided for holding 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	В	С	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

Unit:mm

	Code	L×W×H	Range of shafts(фd)	Parallelism of V groove to bottom	Height difference of a matched pair	Grade
83	21-1005	70x50x70	5-45	0.003	0.003	00
83	21-1010	100x50x70	5-45	0.004	0.003	00

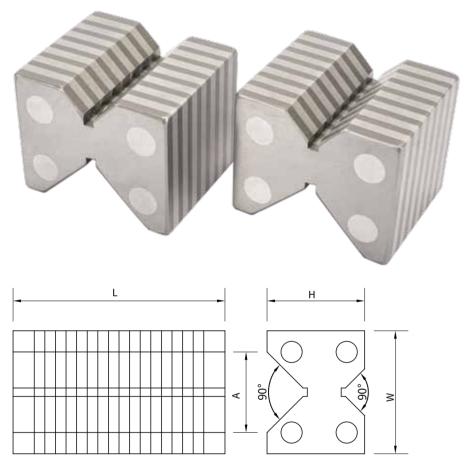
V-BLOCK & CLAMP SET



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

Code	Clamping Range	н	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"

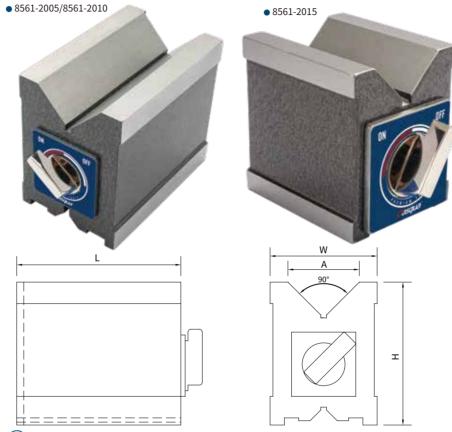
MAGNETIC INDUCTION V-BLOCK



- 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
- Integrally aluminum cast into one solid piece ground all over and series numbered in pairs

Code	LxWxH	Α	Meterial	Weight
8561-2020	100x58x46	38	Steel/Aluminum	1.2kg
8561-2025	50x58x46(2pcs)	38	Steel/Aluminum	0.6kgx2

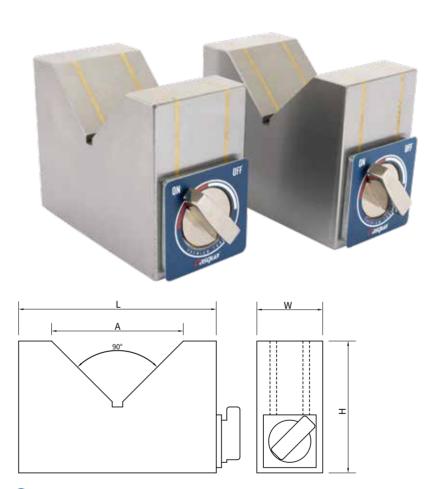
MAGNETIC V-BLOCK

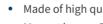


- Magnetic Measuring and Clamping V-Block
 - Hardened, high accuracy, strong magnetic force for grinding, light milling, drilling and inspection of round and square jobs
- All working surfaces are hardened
- Magnetic force on top, bottom and two V grooves
- V groove on the top for large shafts V groove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

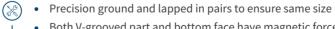
						Omenni
Code	Holding power	L	W	Н	Α	Weight
8561-2005	70kg	100	70	95	46	4.0kg
8561-2010	80kg	115	75	100	50	5.2kg
8561-2015	60kg	70	60	72	36	1.6kg

MAGNETIC V-BLOCK SET





- Made of high quality steel and copper
 - Magnet has an On/Off switch which easily and quickly engages / releases magnet



• Both V-grooved part and bottom face have magnetic force



					Unit:m
Code	Holding power	L x W x H	А	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



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





TOOL SETTING MEASURING GAUGES BORN IN ITALY, RAISED BY THE WORLD

GRANITE SURFACE PLATE



• Meet DIN876, grade 00 is for inspection room or lab, grade 0 is for workshop

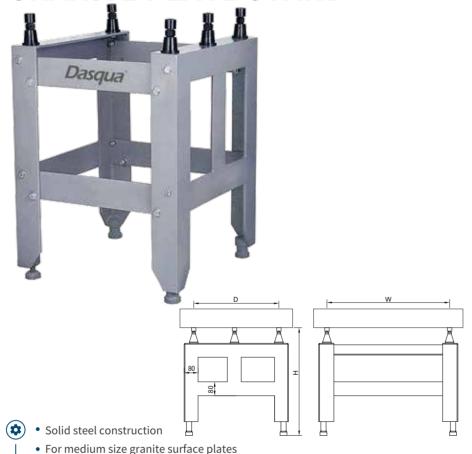
• High density structure thus extremely homogeneous

- Made of granite, free from deterioration or dimensional change over time, minimal changes in dimension due to temperature changes
- Surface plate is lapped and has a satin matt finish to prevent glare
- 100% corrosion proof
- Non-magnetic and non-conductive
- Measuring insruments 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	LxWxH	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



- Adjusting range of jacks
- One foot on the bottom is adjustable

1		Unit.mm
Code	For granite surface plate	WxDxH
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



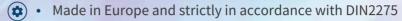






FEELER GAUGE Made in Europe SHIM ROLL





• Surface roughness: Ra 0.4μm

• Hardness: 360-600HV and prolongs the service life significantly

Material: premium stainless steel/alloy steel

- Material: premium stantess steet, and year.
 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			

U	n	÷	+	r	~	1	,	~	`		
U	ш	ш	ι	ı	1	1	1	1	ı		

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





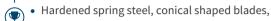


FEELER GAUGE

• Suitable for electronic equipment, mold manufacturing, automotive, automation equipment, precision machinery, metal parts, machinery parts and so on



• High tolerance accuracy for precise measurements



• Nickel plated case with lock nut

• The numbers of size are etched into feeler gauge for easy identification

Polished surface, durable and smooth





				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,
1023-0173	15	0.04-1.00	25	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,
1817-0100	100	0.02-1.00	11	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,
1020 0100	100	0.05 1.00	20	0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00
				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,
1828-0100	100	0.05-1.00	28	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
				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,
1832-0100	100	0.03-1.00	32	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,
1020-0130	130	0.03-1.00	20	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,
1820-0200	200	0.03-1.00	20	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,
1010 0300	300	0.00 1.00	20	0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00
				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",
1732-0035	90/3.5"	0.0015"-0.035"	32	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'',
				0.03/0.025 ,0.03/0.026 ,0.10/0.028 ,0.13/0.03 ,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



With lock nut



• Sizes in mm on each blade



Unit:mm

Code	Length	Range	Amount(Pcs)	Including
1620 0101	100	0.0F 1.00	12	0.05,0.10,0.15,0.20,0.25,0.30,0.40,0.50,
1620-0101	100	0.05-1.00	13	0.60,0.70,0.80,0.90,1.00
1620-0100	100	0.0F 1.00	20	0.05,0.10,0.15,0.20,0.25,0.30,0.35,0.40,0.45,0.50,
1620-0100	100	0.05-1.00	20	0.55,0.60,0.65,0.70,0.75,0.80,0.85,0.90,0.95,1.00

METRIC/INCH SCREW PITCH 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



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
1301-1024	Metric 00	27	0.25-1.00	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,
		20	01. 0.00	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	$4, 4\hbox{-}1/2, 5, 5\hbox{-}1/2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 22,$
1302-2030	WIIILWOILII 33 30	30	4-421PI	24,26,27,28,30,32,34,36,38,40,42TPI
1503-3030	Unified 60°	30	4-42TPI	$4,4\hbox{-}1/2,5,5\hbox{-}1/2,6,7,8,9,10,11,11\hbox{-}1/2,12,13,14,15,16,18,20,$
1303-3030	Offified 00	30		22,24,26,27,28,30,32,34,36,38,40,42TPI
	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,
1500-0052				1.75,2,2.5,3,3.5,4,4.5,5,5.5,6
1000 0001	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,
	Williamortii 33	20		28,30,32,36,40,48,60,62TPI
	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,
1500-1052				4.5,5,5.5,6,6.5,7
	Unified 60°	30	4-42TPI	$4,4\hbox{-}1/2,5,5\hbox{-}1/2,6,7,8,9,10,11,11\hbox{-}1/2,12,13,14,15,16,18,20,$
				22,24,26,27,28,30,32,34,36,38,40,42TPI

ANGLE GAUGE

• Fine machined edges

• Made of hardened stainless steel



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'

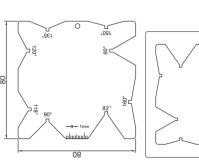
UNIVERSAL CUTTER POINT ANGLE GAUGE

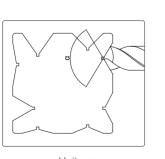
• Easy to measure the angles of top point of drills and countersinks

• Made of premium polished stainless steel

• Thickness: 1.0mm, size: 80x80mm







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

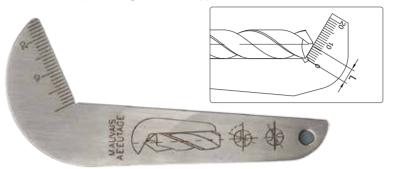
DRILL GRINDING GAUGE

• 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



Codo	Danga	Accuracy			
Code Range	Range	Angle	Length		
8511-0010	tip angle 118°,up to Φ50mm	±0.5°	±0.5		

18PCS ANGLE GAGE SET

• Angles 5° - 90 °

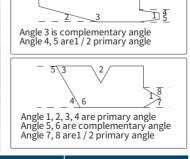
Stainless steel material

• 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



			Unit:mm			
Code		Range	Step	Leaves		
	Code	Range	Step	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	

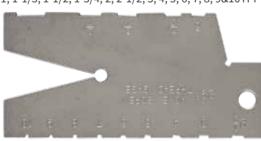
ACME SCREW THREAD GAUGE

• 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



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"(φ83mm)
1041-0025	0-36(0.325"-0.005")	3-1/4"(φ83mm)

TAPER GAUGE





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







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





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



• 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

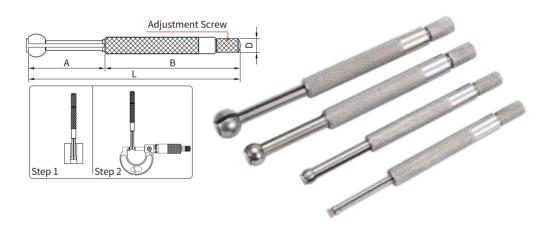
Code	Code Range		
5911-0001	5911-0001 8-12.7,12.7-19,19-32,32-54,54-90,90-150 5/16"-1/2",1/2"-3/4",3/4"-1-1/4",1-1/4"-2-1/8",2-1/8"-3-1/2",3-1/2"-6"		
5911-0002	8-12.7,12.7-19,19-32,32-54,54-90,90-150 5/16"-1/2",1/2"-3/4",3/4"-1-1/4",1-1/4"-2-1/8",2-1/8"-3-1/2",3-1/2"-6"	Up to 150/6"	

SMALL HOLE GAUGE SET

- Measuring range: 3-5 mm, 5-7,5 mm, 7,5-10 mm, 10-13 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	В	D
	3-5/1/8"-1/5"	76	22	53	φ5
5921-0005	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

- Outside Spring Caliper/Inside Spring Caliper/Spring Divider
- Spring Divider Fully hardened and tempered joints, spring,
- washers and divider points
- Outside Spring Caliper Contact ends fully rounded to give
- Inside Spring Caliper Ends fully rounded to give accurate contact with a workpiece
- Measuring and transferring precise dimensions and for various measurements

Size

150/6"

200/8"

250/10"

300/12"

150/6"

200/8"

250/10"

300/12"

100/4"

150/6"

200/8"

250/10"

300/12"

- Precise fine adjustment due to solid nut
- Made of top-grade high carbon steel
- Quick, positive adjustment

Code

1051-0301

1051-0302

1051-0303 1051-0304

1051-0311

1051-0312

1051-0313

1051-0314 1051-0321

1051-0322

1051-0323

1051-0324

1051-0325

• Centrally located adjustment screw to ensure smooth action



Type

outside

outside

outside

outside

inside

inside

inside

inside

divider

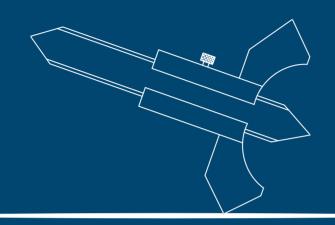
divider

divider

divider

divider





WELDING GAUGE

BORN IN ITALY, RAISED BY THE WORLD

MARKING BLACK

Precision Layout Solution



Gage Holes
Measure the Major Diameter of Bolt
Select Right Size Drills





Measure the Thread



Quick-Check Perpendicularity



Measure Length







 BLACK ANODIZED • CNC MACHINED

> High accuracy & High repeatability & Grounded measuring face

LAYOUT SOLUTION

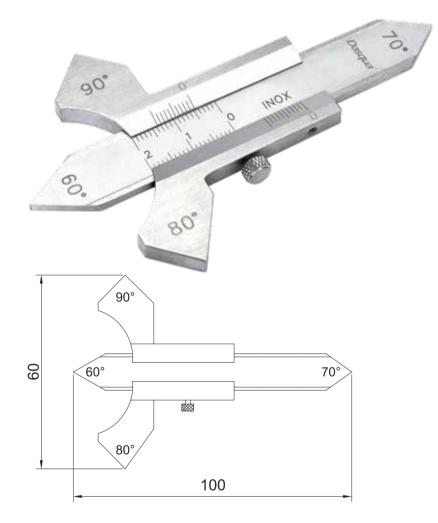


• LASER-ENGRAVING SCALE

Black lines & figures against the sand blasted finish



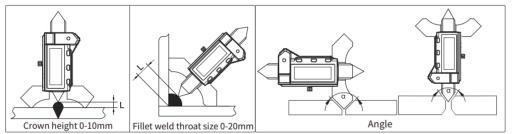
WELDING GAUGE



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

DIGITAL WELDING GAUGE





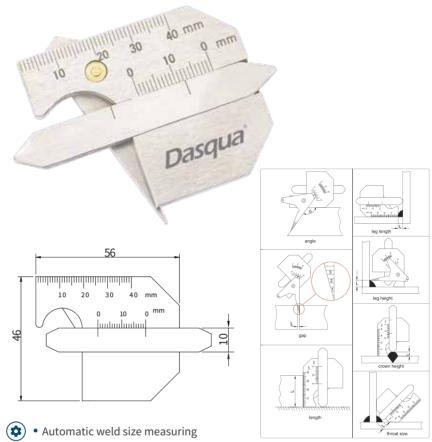
- 60° 70° 80° 90° angle measuring
- Seam crown height inspection
- Fillet weld throat size inspection
- · Made of stainless steel, hardened and ground
- LCD display with clear reading, zero-setting at any position

Unit:mm

- On/Off button, reading switchable mm/inch
- With data output

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

WELDING GAUGE

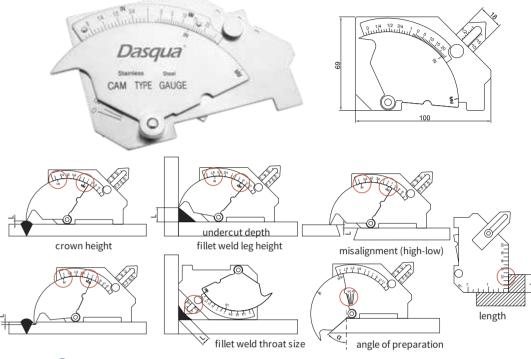


- For accurate calibration of butt and fillet type welds
- Check the throat of fillet weld to determine the leg size of the fillet weld
- Made of stainless steel, hardened and ground
 - Stain chrome plated surface

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

Unit:mm

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

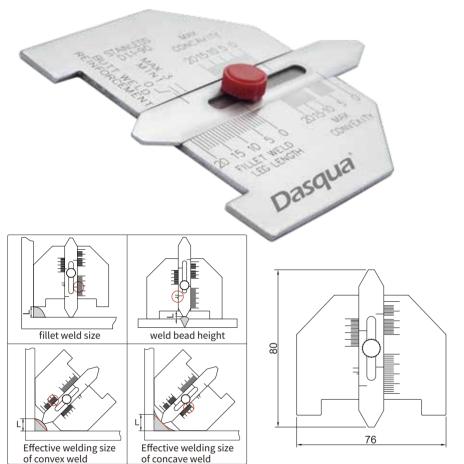
U	n	it	:m

Code	Measurement	Range	Graduation	Accuracy
	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
8511-0030	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

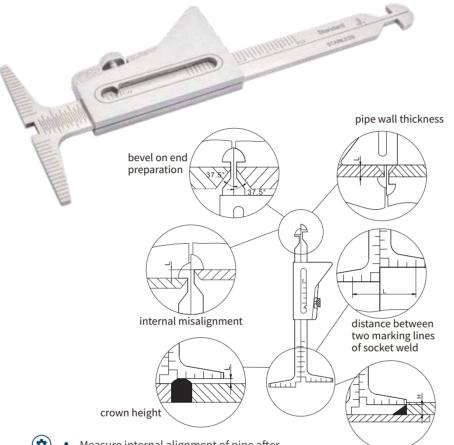


- For accurate calibration of butt and fillet type welds
- Used to measure reinforcement, fillet convexity / concavity throat and leg length
- Made of stainless steel, hardened and ground
- Stain chrome finish surface

BORN IN ITALY, RAISED BY THE WORLD

$\overline{}$				01111.111111
Code	Measurement	Range	Graduation	Accuracy
	fillet weld size	0-20	1	±0.5
8511-0020	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



• Measure internal alignment of pipe after fit-up alignment, cuts radiographic rejects

fillet weld height

Unit:mm

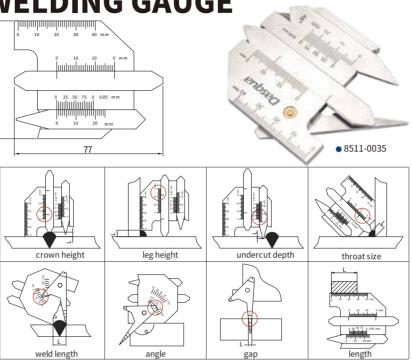
• Measure internal misalignment of pipe before and after tacking

• With opposite movable measuring jaws • For pipe welds up to 35 mm wall thickness

- Made of stainless steel, hardened and ground, polished surfaces
- With reading window, with fixing screw

Code	Measurement	Range	Graduation	Accuracy
	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
8511-0025	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

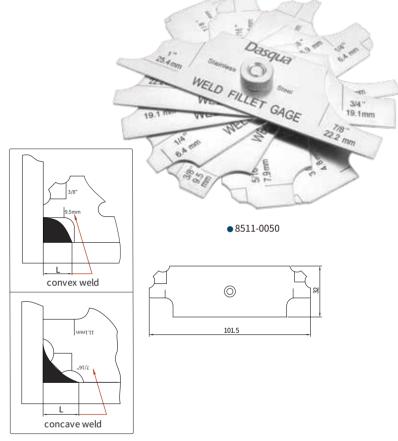
WELDING GAUGE



- 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
	crown height	0-10	1	±0.5
	leg height	0-15	1	±0.5
8511-0035	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
	crown height	0-15	1	±0.5
	leg height	0-15	1	±0.5
	undercut depth	0-5	0.05	±0.05
0511 0040	throat size	0-13	1	±0.5
8511-0040	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	±0.5mm
8511-0050	1/8"(3.2),3/16"(4.8),1/4"(6.4),5/16"(7.9),3/8"(9.5),7/16"(11.1),	
0311 0030	1/2"(12.7),5/8"(15.9),3/4"(19.1),7/8"(22.2),1"(25.4)	±0.02"(0.5)



COMBINATION KITS BORN IN ITALY, RAISED BY THE WORLD

2PCS GENERAL PURPOSE MEASURING SET

4PCS GENERAL PURPOSE MEASURING SET





COMBINATION KITS

BORN IN ITALY, RAISED BY THE WORLD

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



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
	1120-3115	0-150/0-6"	0.05/1/128"	0.05
2210-8203	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"	/



COMBINATION KITS BORN IN ITALY, RAISED BY THE WORLD

4PCS GENERAL PURPOSE





FLEX CHROME MAGNETIC BASE

WITH DIAL INDICATOR SET





• 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
	1804-1065	0-150/0-6"	0.01/0.005"	0.02/0.001"
2210-8204	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"	/

Product list:

• 7611-1015 Flex chrome magnetic base

• Dial Indicator(5111-0000 Metric;5122-4210 Inch)

• 5111-1010 magnetic lug back

Unit:mm

	e Range	Graduation	Holding power
7611-2005 Inch indicate	r 0-1"	0.001"	60KG
7611-1005 Metric indica	tor 0-10	0.01	60KG

FLEX CHROME MAGNETIC BASE

WITH DIAL INDICATOR SET

MAGNETIC BASE

WITH DIAL INDICATOR SET





• 7611-1015 Flex chrome magnetic base

• 5111-1010 magnetic lug back

• 5340-8110 Absolute Digital Indicator



Code	Range	Resolution	Holding Power
7611-0010	0-1"/0-25	0.0005"/0.01	60KG

Unit:mm





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
7611-1011	0-1"	5122-4210	7121-0016	Classic inch
7611-1010	0-10	5121-1106	7312-0010	Pro Metric





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

		0
Code	Range	Graduation
7611-0025	0-1"	0.001"
7611-0030	0-10	0.01

5PCS GENERAL PURPOSE MEASURING SET



Product list:

BORN IN ITALY, RAISED BY THE WORLD

• 1804-1065 Digital Caliper 0-150mm/0-6"

4111-8105 Outside Micrometer 0-25mm*0.01mm

• 2875-4005 Scriber of 175mm with 90° hook

• 5111-0000 Dail indicator 0-10mm*0.01mm,Flat back

9111-1115 90°Beveled Edge Square100*70mm,DIN875/0

• 9000-3100 Ruler 0-150mm/6"*0.5mm/1.0mm/1/64"/1/32"/1/16"graduation on front and back

Unit:mm

Code	Covering	Range	Graduation	Accuracy
	1804-1065	0-150/0-6"	0.01/0.0005"	0.02/0.001"
	4111-8105	0-25/0-1"	0.01	0.004
2210-8210	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 Protractor80*120mm,open Head

• 1501-1024 24pcs Screw pitch gauge 0.25-7.0mm .Thread Angle: 60°

• 1351-0005 Radius gauge1.0-7.0mm,17 blades

• 1820-0100 20pcs Feeler Gauge 100mm*(0.05-1.0mm)

9111-1115 90°Beveled Edge Square100*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
	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°)	/	/
2210-8215	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 Dail indicator 0-10mm*0.01mm,Flat back

• 7122-0004 Magnetic Base with Fine Adjustment 60KG

• 7111-1110 Micrometer Stand

				OHIL.HIH
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



- 1804-1065 Digital Caliper 0-150mm/0-6"
- 4111-8105 Outside Micrometer 0-25mm*0.01mm
 - 5111-0000 Dail indicator 0-10mm*0.01mm,Flat back
- 7122-0004 Magnetic Base with Fine Adjustment 60KG • 1012-1005 Protractor80*120mm,open Head
 - 1501-1024 24pcs Screw pitch gauge 0.25- 7.0mm .Thread Angle: 60°
 - 1351-0005 Radius gauge1.0-7.0mm,17 blades
 - 1820-0100 20pcs Feeler Gauge 100mm*(0.05-1.0mm)
 - 9111-1115 90°Beveled Edge Square100*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



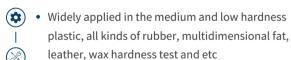
Code	Covering	Range	Graduation	Accuracy
	1804-1065	0-150/0-6"	0.01/0.0005"	0.02/0.001"
	4111-8105	0-25/0-1"	0.01	0.004
	5111-0000	0-10	0.01	0.017
	7122-0004	/	/	/
2210-8205	1012-1005	0-180°	1°	±10'
	1501-1024	0.25-7(Metric 60°)	/	/
	1351-0005	1.0-7.0	/	/
	1820-0100	0.05-1.0(20pcs)	/	/
	9111-1115	90°	/	0.007
	2875-4005	/	/	/
	9000-3100	0-150/0-6"	0.5/1.0/1/64"/1/32"/1/16"	/
	3001-1001	/	/	/

INSTRUMENT

BORN IN ITALY, RAISED BY THE WORLD

SHORE DUROMETER

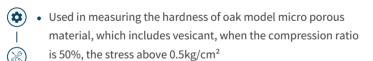




• The product refers to ISO868 and the ISO7619 international standard production

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





• It also can be used in other similar hardness materials

Code	1804-1095
Туре	Shore C
Measuring Range	0-100HC
Pressure Needle Range	2.5mm
Pressure Head Diameter	2.5mm
Outline Dimension	115*60*25mm



	•	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
Гуре	Shore D
Measuring Range	0-100HD
Pressure Needle Range	2.5mm
Pressure Head Diameter	0.1mm
Outline Dimension	115*60*25mm

DIGITAL SHORE DUROMETER









• 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
Туре	Shore A
Resolution	0.5HA
Measuring Range	0-100HA
Pressure Needle Range	2.5mm
Accurancy	2HA

	• Testing the hardness of hard rubber, such as thermoplastic plastic,
Ĭ	bowling,plastic floor and so on



Large LED display for clear and easy reading

• ON/OFF button and data hold button for one-hand-use

Code	1804-1045
Туре	Shore D
Resolution	0.5HD
Measuring Range	0-100HD
Pressure Needle Range	2.5mm
Accurancy	2HD





DIGITAL DUROMETER



• This model is Suitable for measuring thehardness 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

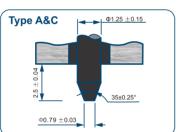
Measurement data can be stored, browsing and batch printing, printiong upload to PC

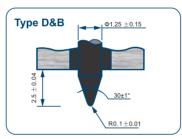
• Measurement mode: Averaging mode, Max Mode, Max-Average mode

Accuracy	≤±1H
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	Туре	Intenter	Applications
1804-1008	А		Soft vulcanized rubber, natural rubber, nitriles, thermoplastic elastomers, flexible polyacrylics and thermosets, wax, felt, and leathers
1804-1009	С		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



• Reduce the deviation caused by manual operation, improve

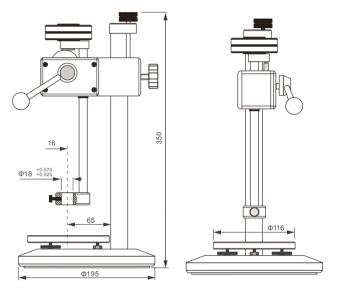
the measurement accuracy and repeatability

Special structure for stable measuring









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.



- The high quality casting and fine craftsmanship ensure accurate, consistent readings
 - Manual testing process, no need for electric controlling

	•
\sim	
(2/)	
(00)	

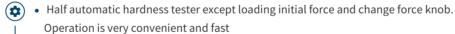
Code	1804-3607
Maximum load	150 kg (1471N)
Load range	60,100,150,kg(588.4N,980.7N,1471N)
Initial range load	10 kg (98.07N)
Maximum test height	108m/m(4-1/4")
Depth of throat	135m/m(5-1/4")
Maximum depth of spindle below base	50m/m(2")
Size of base	180×465m/m(7"-18")
Machine height	630m/m(24-1/2")
Weight (approx)	65 kg (150lbs)

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
Rockwell C standard test block	1
Screwdrivers	2
Level adjusting leg	3
Accessory box	1
Dustproof plastic cover	1
Operation manual	1

ROCKWELL HARDNESS TESTER









• 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
- Save 2000 single testing results and 1000 group results for reviewing and analysis
- Optional blue tooth mini printer is available

Code	1804-3609		
Rockwell scale	HRA、HRB、HRC、HRD、HRE、HRF、HRG、HRH、HR		
NOCKWEII SCAIE	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)		
TotalTotec	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、HR		
Transition Conversion	HR30N、HR45N、HS、HRF、HR15T、HR30T、HR45T、		
Conversion Standards	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		
Powersupply	AC220V/50Hz;AC110V/60Hz		
Dimension(LxWxH)	546x182x755mm		
Gross/Net Weight	110Kg/90Kg		







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)	±(2.6+5) μm (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	$\sqrt{}$		
Height(mm)	709	1009	
Weight(kg)	20	22	

^{*}In test condition and with standard probe

PORTABLE LEEB HARDNESS TESTER

This model is a small, light and portable tester, which is most suitable for testing of heavy, big or outdoor metal parts. It is easy to be used and accurate on curved test surfaces. Especially, it can automatically compensate effect of weight which according to the test direction, can be operated with touch screen and test data could be linked into PC. D.



- Measure in any direction
 - Uses wireless IR to communicate with printer



ASTM A956-02 & DIN 50156



Code	1804-4605	1804-4606	
HL display range	170~960HLD		
Repeatability	6HLD		
Testing direction	All direction		
Optional Impact Device	D, DC, DL, D+15, C, G		
Display	3.9" 2 40*320(with touch scree	n), Bright and clear LCD	
Display	display with back light		
Operating voltage	3.6V (rechargeable Ni-MH battery)		
Charging power supply	DC5V/1A		
Printer	With mini wireless printer	Without mini wireless printer	
Operating environment	Temperature -20°C~+50°C; Humidity 20%~85%		
Storage environment	Temperature -30°C∼+70°C; Humidity 5%∼95%		
Dimensions	130mm*86mm*28mm		
Weight	300g (include D type impact device)		
	Display Unit, Impact Device D, Test Block, Mini-printer,		
	Display Offic, Impact Device D	rest block, Milli-printer,	
Accessories	Charger, Little Support Ring, C	, , ,	
Accessories	, , , ,	, , ,	
Accessories Communication	Charger, Little Support Ring, C	, , ,	
	Charger, Little Support Ring, C	, , ,	





PORTABLE LEEB HARDNESS TESTER



(🗱)	•

- This Portable Hardness Tester is a small, light and portable tester
- It is most suitable for testing of heavy, big or outdoor metal parts



• It conforms to the Standard ASTM A956-02 & DIN 50156

Code	1804-4610	1804-4611	
Accuracy	± 6 HL		
Scales	HRC, HRB, HB, HV, HSD, MPa	ì	
Display	Bright and clear LCD display v	vith backlight	
Testing direction	All direction		
Optional Impact Device	D, DC		
Printer	With mini wireless printer	Without mini wireless printer	
Operating voltage	4.5V (3 AAA batteries)		
Operating environment	Temperature -10~+40°C, Humidity 20%~85%		
Storage environment	Temperature -30~+80°C, Humidity 5%~95%		
Dimensions	152mm*83mm*27mm		
Weight	Approx.190g		
Accessories	Display Unit, Impact Device D, Test Block, Mini-printer,		
Accessories	Charger, Little Support Ring, Cleaning Brush		
Certificate	CE		

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 (±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 th	rough device USB port.	
	DIN 50156 (2007), DGZfP Guideline MC 1 (2008), VDI / VDE		
Standards and	Guideline 2616 Paper 1 (2002), ISO 18625 (2003),		
Guidelines applied	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	НВ
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).





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°		
	- Rockwell, HRC	20 - 70	
	- Brinell, HB	90 - 450	
Measurement hardness range	- Vickers, HV	230 - 940	
	- temporary resistance (tensile strength)Mpa 370 - 1740		
	HV+ / - 3%; HRC+ / - 1,5%; HB+ / - 3%		
Accuracy			
Hardness scale	HRC, HB, HV, MPa		
Materials	- UCI probe - pre-calibrated for steel.		
Materials	- 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		
Powersupply	2 AA batteries		

COATING THICKNESS GAUGE



Very compact size with integrated probe.





• Measurement of non-magnetic coatings on magnetic subsrtates.



- Data memory is up to 500 readings.
- Ready to measure immediately without calibration.
- Easy to perform zero-point correction provides correct
- msasurement results for measuring applications
- with little

changes in shape and substrate material.

- The one-point calibration function allows for an adaptation
- in cases of severel 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	0-100 μ m: \pm 2.0 μ m, 101-1250 μ m \leqslant 2.5%
Data Memory	500 readings
Display	Graphic LCD with
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
Accessories	manual,Manufacturer's certificate.

COATING THICKNESS GAUGE



Very compact size with integrated probe.



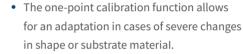
• Magnetic induction method (ISO 2178, ASTM 07091),

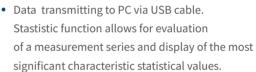


 Measurement of non-magnetic coatings on magnetic substrates.



- 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





le	1804-2010	1804-2011
t method	Magnetic induction	
suring Range	0- 1500μm (0 -60 mil)	
olution	0 - 999μm: 0.1μm, ≥1000μm: 1μm	
uracy	0- 100μm: ± 1.5 μm, 101-1500μm≤1.5	5%
a Memory	Upto 1500 readings	
olay	Graphic LCD with backlight	
ver Supply	1.5V*3 (AAA alkaline batteries)	
erating Temperature	0-50°C	
ension	88x67x30mm	
ght	120g	
iter	Without mini wireless printer	With mini wireless printer
essories	Thickness gauge, Substrate, Certification	n foils set , Data cable,Data
essones	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	\pm (1%H+0.1) mm, H is the actual thickness	
	of the object to be measured	
Powersupply	two AAA alkaline cells 1.5V	
Power consumption	working current is smaller than 20mA(3V)	
Range of operating	0°C~ 40°C	
temperature	0.0~ 40.0	
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

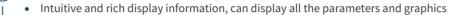
Optional Accessory	5P 10/90 probe (1.2~225.0mm)
	SZ2.5P probe (3.0~300.0mm)
	7РФ6 probe (0.75~60mm)

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







- 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,
resting parameters	Rsk,Rku,Rsm,Rmr,Rx;
Measuring range (um)	Ra: 0.005-16.000
measuring range (uni)	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	

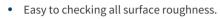
Standard delivery		
Host	1	L
Standard Sensor	1	L
Calibration block and bracket	1	L
Bracket	1	L
Charger	1	L
Adjustable support	1	L
Operating manual	1	L
Warranty card	1	L
Certificate of approval	1	L
Instrument case	1	L



SURFACE ROUGHNESS GAUGE SET







• 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

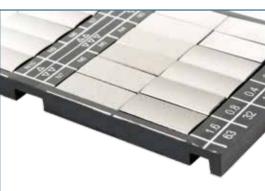
6 specimens Turing 16,32,63,125,250 and 500 $\mu^{\text{\tiny{II}}}$ AA

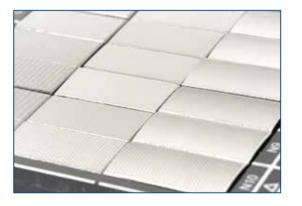
6 specimens checking Vernical milling 16,32,63,125,250 and 500 μ " AA

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



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
	*	MILL
Motorised Test Stand	Manual Test Stand	

Code	Capacity / Resolution					
Code	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	-	-





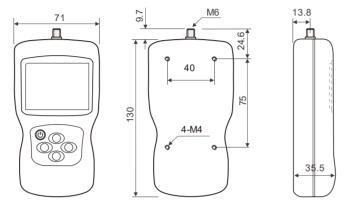
DIGITAL FORCE GAUGE





- 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)





Code Capacity / Resolution			ıtion		
Code	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

INSTRUMENT BORN IN ITALY, RAISED BY THE WORLD

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	
Metal worktable size(mm)	500x330	
Glass worktable s1ze(mm)	350x250	
Travel(mm)	300x200	
X,Y, Z axis resolution	0.5μm	
Accuracy(μm)	E1XY=(2.5+L/IOO)μm	
Weight (kg)	140	
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	I .OX lens cone (standard)	
Optional	Crosshair, DC3000 digital display, Renishaw MCP	
Ориона	probe coaxial light lens.	

SEMIAUTOMATIC 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.



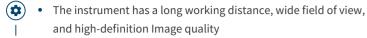
- Automatic focusing, automatic edge detection, powerful programming and automatic measuring function
- Sub pixel subdivision technology helps improve edge resolution
- The machine can be operated by either the joystick or the software programming
- SPC data processing contributes to fixture measurement in large scale
- Servo motor control in X, Y, and Z axis leads to quick and high precision positioning and
- 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

ode	1804-7005	
letal worktable size(mm)	500x330	
lass worktable s1ze(mm)	350x250	
ravel(mm)	270x170	
,Y, Z axis resolution	0.5μm	
ccuracy(μm)	E1XY=(2.5+L/IOO)μm	
/eight (kg)	168	
axis travel (mm)	150	
amera	1/2" color CCD camera	
oom lens	0.7X-4.5X	
otal magnification:	20X -128X	
bject view	11.1mm -1.7mm	
ower	AC 100-240V 50/60Hz	
pare parts	0.5X lens cone (standard)	
ptional	Auto zoom lens, laser shifter, MCP	
paonar	probe	





DIGITAL MICROSCOPE



• Designed with 0.3X 0.5X, 0.75X 1.5X 2X series of auxiliary objective lenses and 0.35X, 0.5X, 0.75X, 1X, 1.5X, 2X series of photographic eyepieces

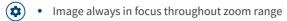
• According to the requirements of users in different occasions, there are a variety of lighting devices specially designed. You can choose to use upper and lower double halogen lamps, upper and lower halogen lamps, single halogen or single fluorescent lamps, ring fluorescent lighting, optical fiber cold light source lighting, and Optional image analysis device for external processing of image analysis

• The brackets are available in column type, mirror arm type and universal bracket



Code	1804-7010	
Zoom scale of objective	0.7×-4.5×	
Photography Eyepiece	0.5×	
Round working stage	405	
diameter	ф95mm	
Knob adjustable range	60mm	
Eleveator adjustment	250	
Range	250mm	

STEREO ZOOM MICROSCOPE



• Stereo-tube can be rotated a full 360° for viewing at any angle

• Bilateral zoom control knob adds convenience and increases operator effiency

• 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
Dioptric adjustment range	±5diopter
Illumination	Input voltage :AC 110V or 220V
	Oblique illumination:12V,10W halogen lamp (with
Output	cup)Transmitted illumination:12V,10W halogen
	lamp(altermative 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



ode	1030-2010
cale Size	16.4X10X2cm
atform Size	11.3X9cm
isplay size	4.6X4.8X0.11cm
roduct 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





Code	1030-2020	1030-2025	1030-2030
Range	1mg-100g	1mg-200g	1mg-500g
			1x 1mg weights
		1x 1mg weights	2x2mg weights
	1x 1mg weights	2x 2mg weights	1x5mg weights
	2x 2mg weights	1x 5mg weights	1x 10mg weights
	1x5mg weights	1x 10mg weights	2x 20mg weights
	1x 10mg weights	2x 20mg weights	1x 50mg weights
Weight	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 500mg weights	1x1g weights
	1x 1g weights	1x 1g weights	2x2g weights
	2x 2g weights	2x 2g weights	1x5g weights
	1x5g weights	1x5g weights	1x 10g weights
	1x 10g weights	1x 10g weights	2x 20g weights
	2x 20g weights	2x 20g weights	1x 50g weights
	1x 50g weights	1x 50g weights	1x 100g weights
	1x 100g weights	1x 100g weights	2x 200g weights
		2x 200g weights	1x 500g weights
			1x 1kg weights

MULTIFUNCTION VIDEO SCOPE



• 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 apart from the grip to transmit image wirelessly

• Four wireless trequency for your choice

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

It is widely applied for maintenance of the industry, the building, the aviation, the vehicles also easy to inspect the pick up samll objects, record image

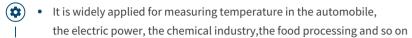
ode	1030-2035
iewable angle	60°
ocal length	10mm
	5.5mm (accessories: mirror, ball guide and
uter diameter of camera head	screw thread protector)
robe length for choice	1 m/2 m/3 m or customized (max length $15 m$
robe length for choice	including extension)
xtension for choice	1m, 2m, 3m
nage display	3.5"TFT/LCD
nage storage media	Micro SD card (Support up to 16G)
nage resolution	640×480 pixels
CD Resolution	320×240 pixels
nage zooming	4 times
V output format	NTSC/PAL
/ireless transmission frequency	2414MHz、2432MHz、2450MHz、2468MHz
/ireless transmission distance	Up to 10M; If no obstacles, will more than 10M
ttachment	Micro SD card、one into two cable、Micro SD to
ttaciiiiciit	SD transition pocket、TV cable、USB cable
robe length	100cm or your required length
robe and camera head protection	IP67





INSTRUMENT BORN IN ITALY, RAISED BY THE WORLD

INFRARED THERMOMETER



• Measure the surface temperature at a safe distance

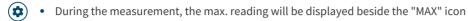
Auto power off





Code	1030-2001
Range	-20°C~320(°C-4°F~608)°F
Pixel	8:1 optical resolution
emperature Unit	°C or °F selectable
Accuracy	+/-40F(20C)

INFRARED THERMOMETER WITH LARGE RANGE



• 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

INFRARAED THERMAL IMAGER



*	This instrument is a handheld thermal imager, which is powered by four 1.5V AA ($\scriptstyle ext{o}$
1	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

• 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



modes: infrared image, visible image, fusion image

de	1030-2002
nge	-20~+400°C
age display resolution	320 x 240 pixels
splay	2.4 inches
lor Palettes	3
etector resolution	32x32
rared Spectral Band	8um-14um
nissivity correction	0.01-1 (adjustable)
sponse time	200ms
ilt-in Digital Carema	640*480
orage medium	TF Card
wersupply	4x1.5V AA (or equivalent) batteries



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

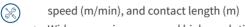


Code	1030-2051		
Measuring Range	2.5~99999RPM		
Resolution	0.1 RPM (0.5~999.9 RPM)		
	1 RPM (above 1000 RPM)		
Measuring distance	50~500mm		
Product Size	160mm×74mm×37mm		
Product Weight	180g (including battery)		
Range Selection	Automatic switching		
Accuracy	±(0.05%+1digit)		
Power supply	3×1.5V AA 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



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		
	Rotation Speed: 0.1 RPM (0.5~999.9RPM)		
Resolution	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)		
Powersupply	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



0 - 40°C (32 - 104°F) 10 - 75%RH



	1030-2061	
Measuring Range	(28)30dB -130dB	
Resolution	0.1dB	
Accuracy	$\pm 1.5 \text{dB(reference conditions 94dB@1kHz)}$	
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	
Powersupply	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



• Comes complete with storage case and a screwdriver and vial of distilled water used for calibration







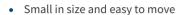


INSTRUMENT BORN IN ITALY, RAISED BY THE WORLD

HIGH ACCURACY DIGITAL HEIGHT GAUGE



• High accuracy for more accurate measuring



• Wide applicable temperature range, cam be used normally during 0-40°C

High durability and the maximum measuring height up to 100mm







7712-0040



7712-0045

HIGH ACCURACY DIGITAL HEIGHT GAUGE

Code	7712-0045	7712-0040	7712-0035
Measuring Range	0-50mm		
Accuracy (20°C)	≤1µm	≤1.5μm	≤3μm
Repeatability (20°C)	0.2μm	0.5μm	1μm
Min. Readout	0.1μm	0.5μm	1μm
Response Speed	Max.up to 5000mm/s		
Measuring Force	1.0	0.8-1.2N	
External Output	USB		
Display	8 Bits G	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	200x250
Power Adapter	Input: AC100-240V 50/60Hz; Output: DC 5V/1A		
Accesories	Stand, Ball Tip, Flat Tip, Conical Tip, Handle, Power Adaptor		
Optional Accesories	Data Transmission Kit, Special Tips, Portable Battery		
Size/mm	200x138x397	200x138x397	250x200x387
Weight	11.6kg	11.6kg	25kg