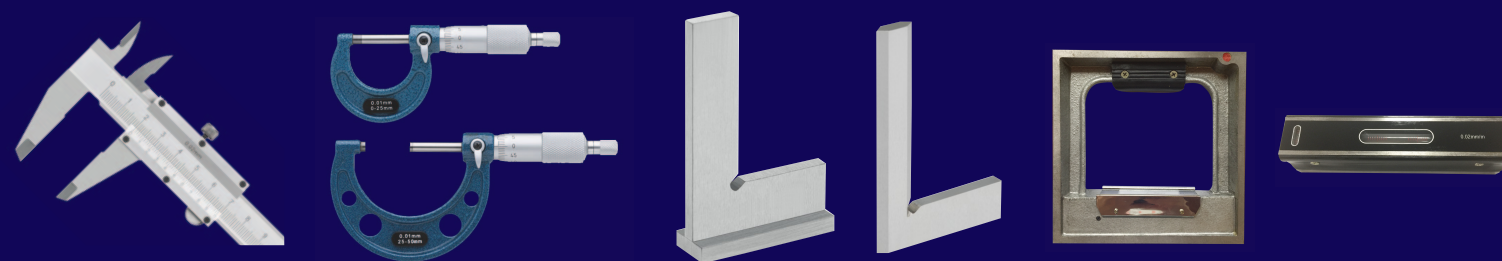


## Professional Precision Processing



## MEASURING TOOLS



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上海天赛星工贸有限公司  
SHANGHAI UNI-STAR INDUSTRIAL & TRADING CO.,LTD.



## Profile

Founded in 2002, Shanghai Uni-Star quickly developed into a strong enterprise combining advantages of own production abilities and efficient trading team.

We are ready to provide you with an integrated solution starting from professional manufacturing, design and inspection, and reaching comprehensive sales supported by the best combination of high quality goods, competitive prices, excellent service and best-performing innovations.



## Our Manufacturing Basis includes

3 own factories;  
well-equipped modern laboratory;  
1000 partner factories all over China.

## Our Service Abilities are assured by

50 employees;  
4 Sales teams;  
3 purchasing teams who are responsible for certain product categories;  
5000m2 of warehouse area.

## Our Sales Experience is based on

15 years of exporting activity;  
Hundreds of customers all over the world;  
Good knowledge of the markets involved.

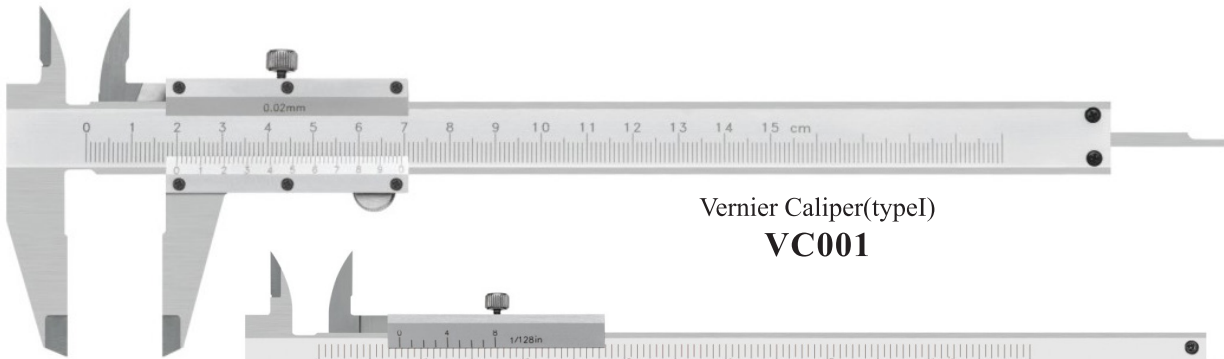
Shanghai Uni-star's main directions are cutting tools, measuring tools, fasteners and hand tools. Our factories and laboratories are constantly modernized to reach higher quality of products and improve any aspects of the service. Our product range is rapidly expanding to meet any of your needs on the best terms and within the shortest period of time.

**With us, you will get high-quality products at the best prices enjoying efficient approach and excellent service. You are right to choose us!**

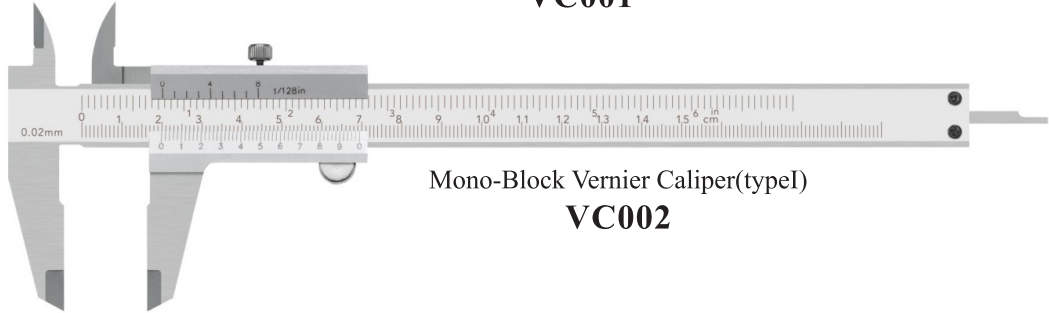
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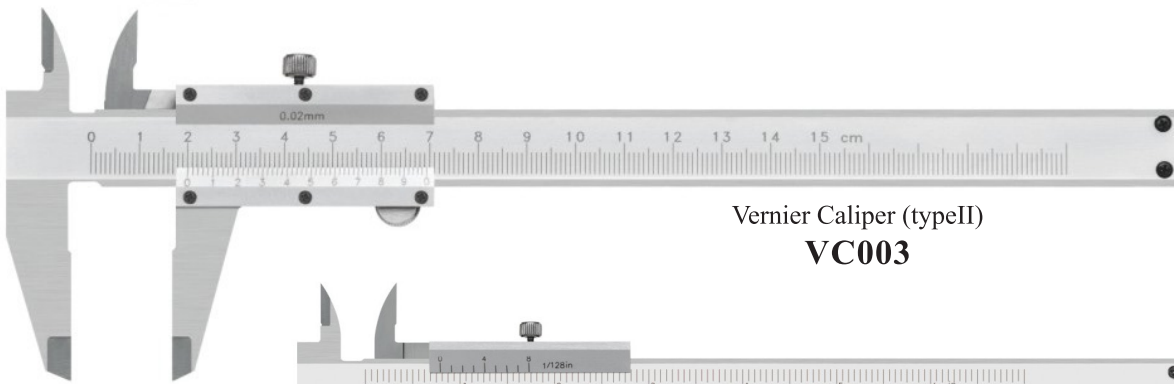


Vernier Caliper(type I)  
**VC001**

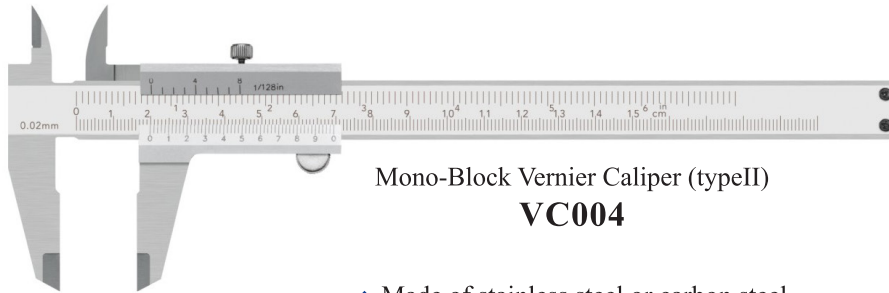


Mono-Block Vernier Caliper(type I)  
**VC002**

- ◆ Made of stainless steel or carbon steel.
- ◆ Can measure OD, ID and depth.
- ◆ Can be with thumb roller for range 200mm or more.



Vernier Caliper (type II)  
**VC003**

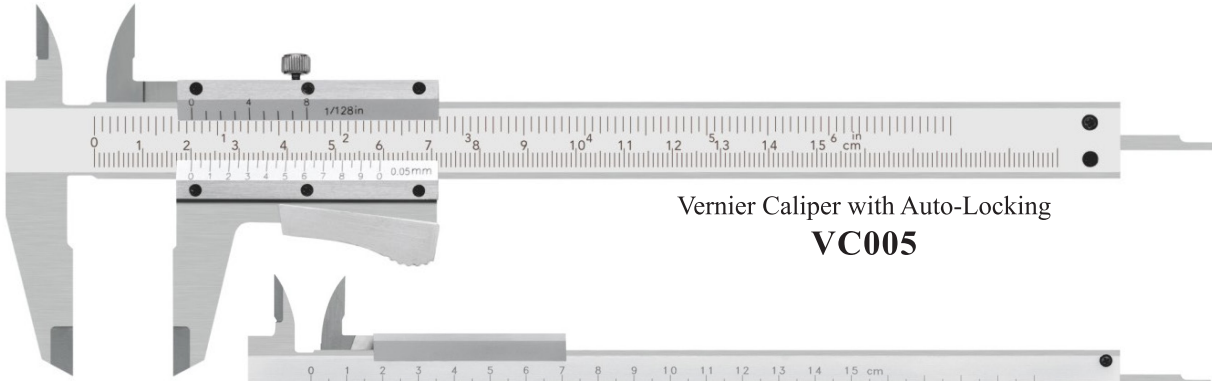
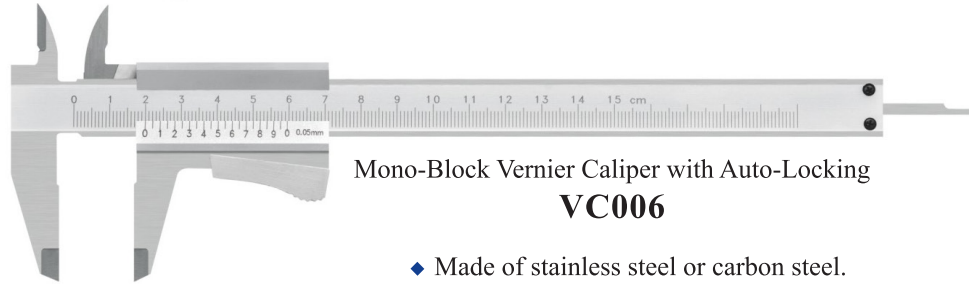


Mono-Block Vernier Caliper (type II)  
**VC004**

- ◆ Made of stainless steel or carbon steel.
- ◆ Can measure OD, ID
- ◆ Can be with thumb roller for range 200mm or more.

Range(mm)	Grad(mm)	A(mm)	B(mm)	C(mm)	We also could provide the following standard
0-100	0.05	12.5	30	13	German Standard/ Japanese Standard/Russian Standard
0-150		17.5	40	14.5	
0-200		18.8	50	17	
0-250		22.8	50	17	
0-300		22.8	65	17	
0-500		38.5	100	25	
0-600	38.5	100	25		
0-100	0.02	12.5	30	13	
0-150		17.5	40	14.5	
0-200		18.8	50	17	
0-250		22.8	50	17	
0-300		22.8	65	17	
0-500		38.5	100	25	
0-600	38.5	100	25		

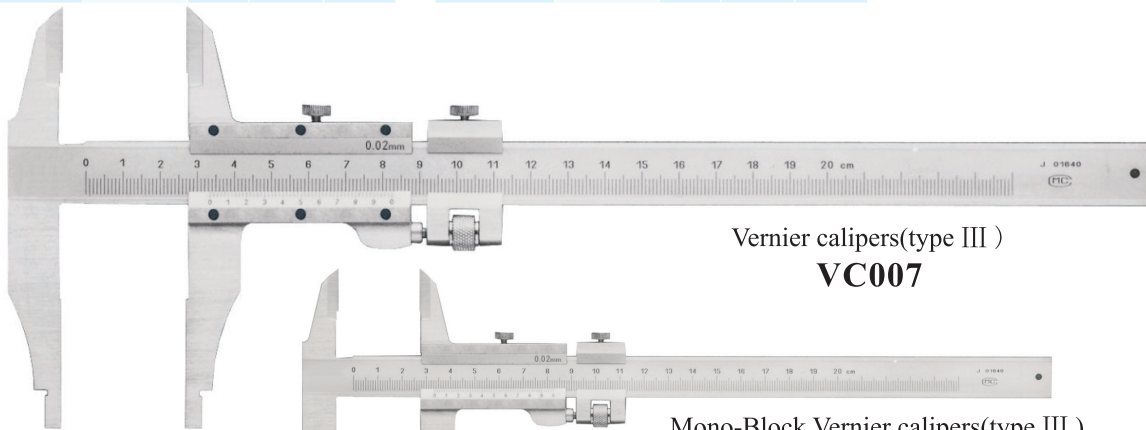
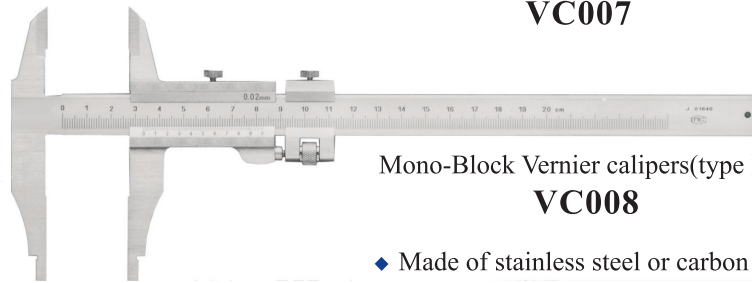
Range(mm)	Grad(mm)	A(mm)	B(mm)	C(mm)	We also could provide the following standard
0-100/4"	0.05/1/128"	12.5	30	13	German Standard/ Japanese Standard/Russian Standard
0-150/6"		17.5	40	14.5	
0-200/8"		18.8	50	17	
0-250/10"		22.8	50	17	
0-300/12"		22.8	65	17	
0-500/20"		38.5	100	25	
0-600/24"	38.5	100	25		
0-100/4"	0.02/0.001"	12.5	30	13	
0-150/6"		17.5	40	14.5	
0-200/8"		18.8	50	17	
0-250/10"		22.8	50	17	
0-300/12"		22.8	65	17	
0-500/20"		38.5	100	25	
0-600/24"	38.5	100	25		


 Vernier Caliper with Auto-Locking  
**VC005**

 Mono-Block Vernier Caliper with Auto-Locking  
**VC006**

- ◆ Made of stainless steel or carbon steel.
- ◆ Can measure OD, ID, depth and step.

Range(mm)	Vernier(mm)	A(mm)	B(mm)	C(mm)
0-150	0.05	21	40	16
0-200		24	50	16
0-250		26	64	16
0-300		26	64	16
0-150	0.02	21	40	16
0-200		24	50	16
0-250		26	64	16
0-300		26	64	16

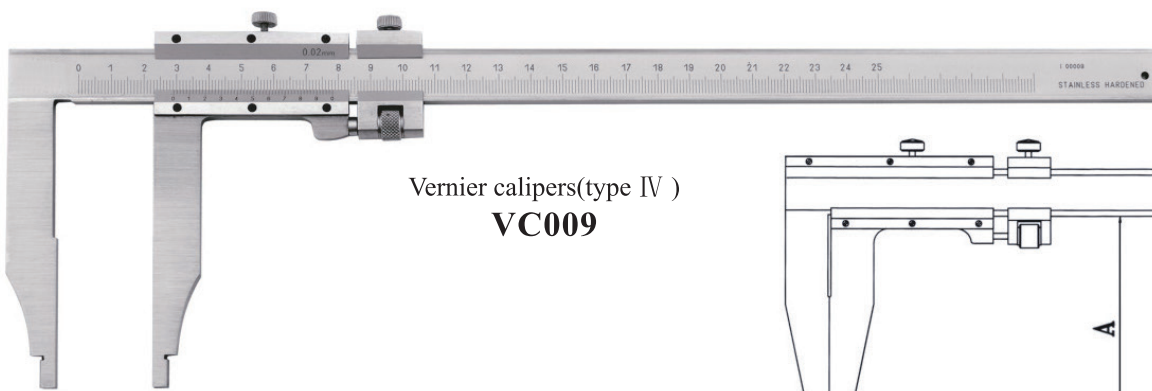
Range(mm)	Vernier(mm)	A(mm)	B(mm)	C(mm)
0-150/0-6"	0.05/1/128"	21	40	16
0-200/0-8"		24	50	16
0-250/0-10"		26	64	16
0-300/0-12"		26	64	16
0-150/0-6"	0.02/0.001"	21	40	16
0-200/0-8"		24	50	16
0-250/0-10"		26	64	16
0-300/0-12"		26	64	16


 Vernier calipers(type III)  
**VC007**

 Mono-Block Vernier calipers(type III)  
**VC008**

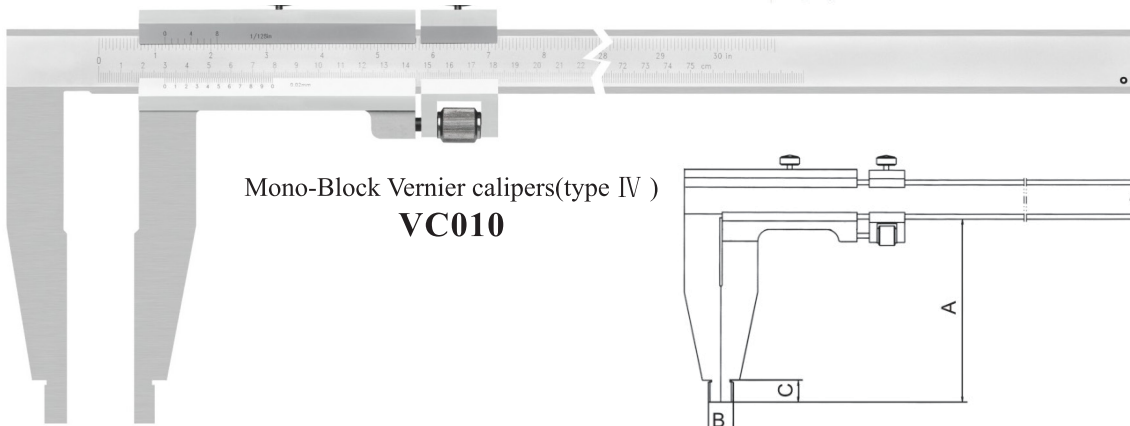
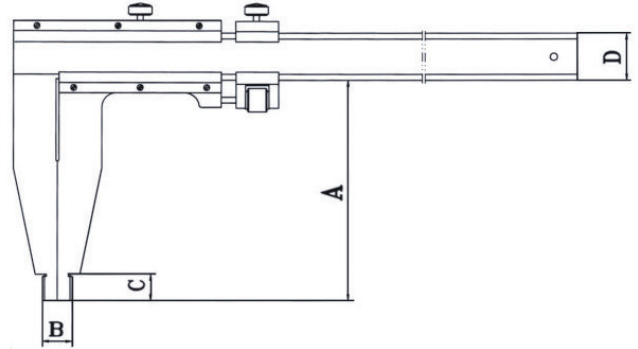
- ◆ Made of stainless steel or carbon steel.
- ◆ Can measure OD, ID, and step.
- ◆ Special longjaws design

Range(mm)	Grad(mm)	Jaw Length(mm)A		B(mm)	C(mm)	Width(mm)D		H(mm)
		Normal jaw	Long jaw			Normal jaw	Long jaw	
0-200	0.05	60	90	10	10	17	17	36.5
0-300		60	90	10	10	17	17	36.5
0-500		100	125/150/250	10	12	25	32	55
0-600		100	125/150/250	10	12	25	32	55
0-800		125	150/200/250	20	18	32	32	64
0-1000		125	150/200/250	20	18	32	32	64
0-1500		125	150/200/300	20/30	20	41.5	53	64/73
0-2000		150/200	300/350	20/30	20	53	53	73
0-3000		150/200	300/350	20/30	20	53	53	73
0-200		0.02	60	90	10	10	17	17
0-300	60		90	10	10	17	17	36.5
0-500	100		125/150/250	10	12	25	32	55
0-600	100		125/150/250	10	12	25	32	55
0-800	125		150/200/250	20	18	32	32	64
0-1000	125		150/200/250	20	18	32	32	64
0-1500	125		150/200/300	20/30	20	41.5	53	64/73
0-2000	150/200		300/350	20/30	20	53	53	73
0-3000	150/200		300/350	20/30	20	53	53	73

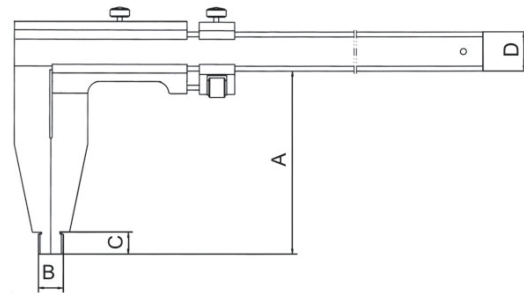
Range(mm)	Grad(mm)	Jaw Length(mm)A		B(mm)	C(mm)	Width(mm)D		H(mm)
		Normal jaw	Long jaw			Normal jaw	Long jaw	
0-200/8"	0.05/1/128"	60	90	10	10	17	17	36.5
0-300/12"		60	90	10	10	17	17	36.5
0-500/20"		100	125/150/250	10	12	25	32	55
0-600/24"		100	125/150/250	10	12	25	32	55
0-800/32"		125	150/200/250	20	18	32	32	64
0-1000/40"		125	150/200/250	20	18	32	32	64
0-1500/60"		125	150/200/300	20/30	20	41.5	53	64/73
0-2000/80"		150/200	300/350	20/30	20	53	53	73
0-3000/120"		150/200	300/350	20/30	20	53	53	73
0-200/8"		0.02/0.001"	60	90	10	10	17	17
0-300/12"	60		90	10	10	17	17	36.5
0-500/20"	100		125/150/250	10	12	25	32	55
0-600/24"	100		125/150/250	10	12	25	32	55
0-800/32"	125		150/200/250	20	18	32	32	64
0-1000/40"	125		150/200/250	20	18	32	32	64
0-1500/60"	125		150/200/300	20/30	20	41.5	53	64/73
0-2000/80"	150/200		300/350	20/30	20	53	53	73
0-3000/120"	150/200		300/350	20/30	20	53	53	73



Vernier calipers(type IV )  
**VC009**



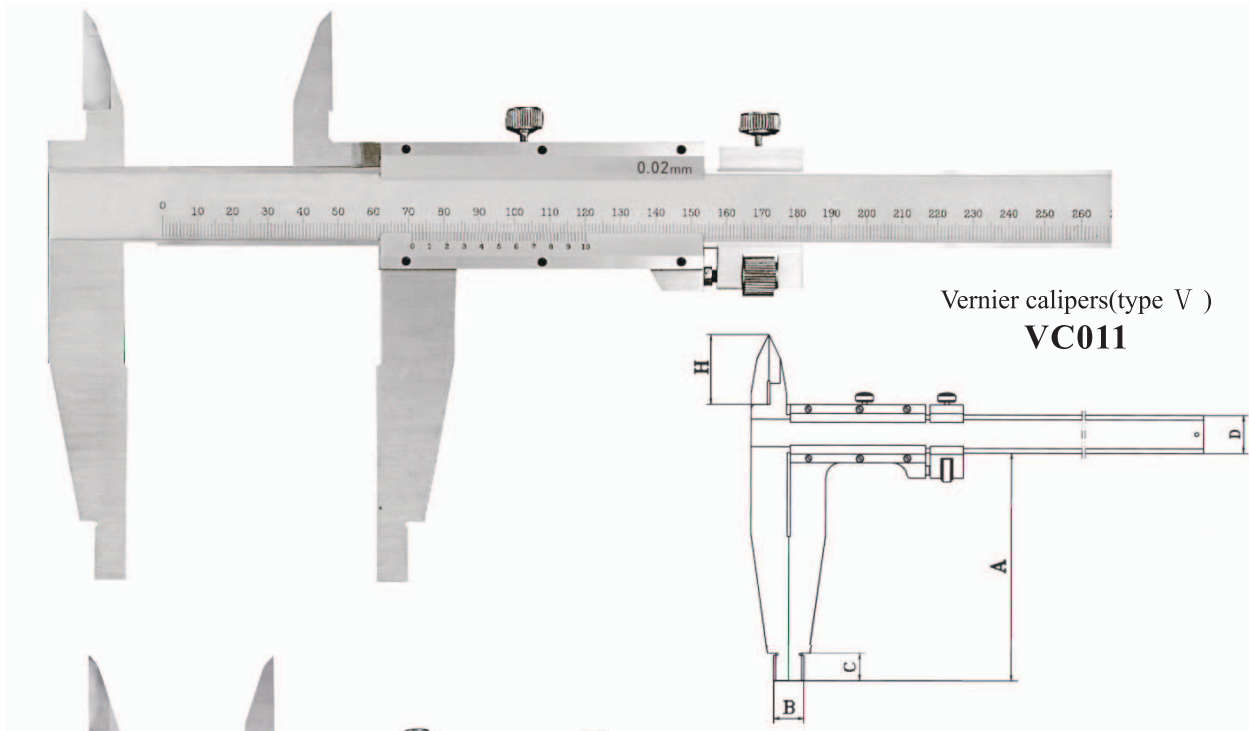
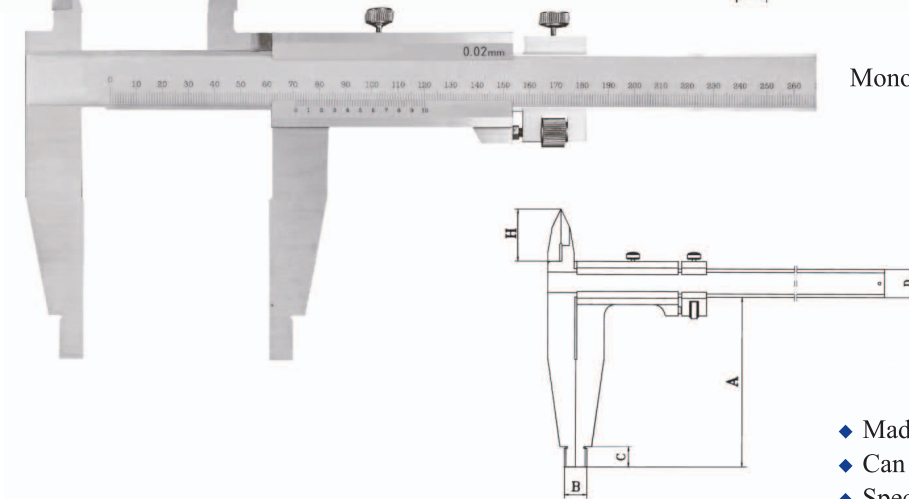
Mono-Block Vernier calipers(type IV )  
**VC010**



- ◆ Made of stainless steel or carbon steel.
- ◆ Can measure OD, ID, and step.
- ◆ Special long jaws design

Range(mm)	Grad(mm)	Jaw Length(mm)A		B(mm)	C(mm)	Width(mm)D		
		Normal jaw	Long jaw			Normal jaw	Long jaw	
0-500	0.05	100	125/150/250	10	12	25	32	
0-600		100	125/150/250	10	12	25	32	
0-800		125	150/200/300	20	18	32	32	
0-1000		125	150/200/300	20	18	32	32	
0-1500		125	150/200/300	20/30	20	32/41.5	32/41.5	
0-2000		150/200	300/350	20/30	20	52	52	
0-2500		150/200	300/350	20/30	20	52	52	
0-3000		150/200	300/350	20/30	20	52	52	
0-500		0.02	100	125/150/250	10	12	25	32
0-600			100	125/150/250	10	12	25	32
0-800	125		150/200/300	20	18	32	32	
0-1000	125		150/200/300	20	18	32	32	
0-1500	125		150/200/300	20/30	20	32/41.5	32/41.5	
0-2000	150/200		300/350	20/30	20	52	52	
0-2500	150/200		300/350	20/30	20	52	52	
0-3000	150/200		300/350	20/30	20	52	52	

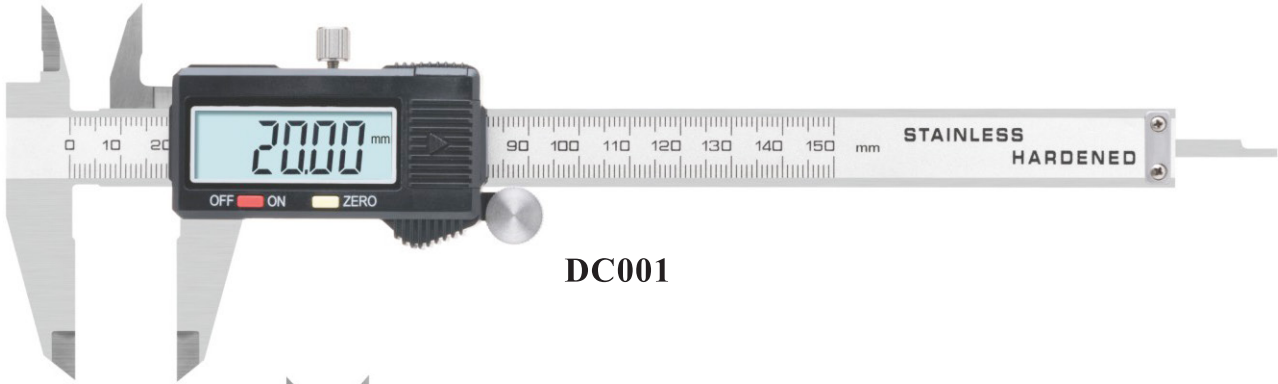
Range(mm)	Grad(mm)	Jaw Length(mm)A		B(mm)	C(mm)	Width(mm)D		
		Normal jaw	Long jaw			Normal jaw	Long jaw	
0-500/20"	0.05/1/128"	100	125/150/250	10	12	25	32	
0-600/24"		100	125/150/250	10	12	25	32	
0-800/32"		125	150/200/300	20	18	32	32	
0-1000/40"		125	150/200/300	20	18	32	32	
0-1500/60"		125	150/200/300	20/30	20	32/41.5	32/41.5	
0-2000/80"		150/200	300/350	20/30	20	52	52	
0-2500/100"		150/200	300/350	20/30	20	52	52	
0-3000/120"		150/200	300/350	20/30	20	52	52	
0-500/20"		0.02/0.001"	0.02	100	125/150/250	10	12	25
0-600/24"			100	125/150/250	10	12	25	32
0-800/32"	125		150/200/300	20	18	32	32	
0-1000/40"	125		150/200/300	20	18	32	32	
0-1500/60"	125		150/200/300	20/30	20	32/41.5	32/41.5	
0-2000/80"	150/200		300/350	20/30	20	52	52	
0-2500/100"	150/200		300/350	20/30	20	52	52	
0-3000/120"	150/200		300/350	20/30	20	52	52	


 Vernier calipers(type V )  
**VC011**

 Mono-Block Vernier calipers (type V )  
**VC012**

- ◆ Made of stainless steel or carbon steel.
- ◆ Can measure OD, ID, and step.
- ◆ Special long jaws design

Range(mm)	Grad(mm)	Jaw Length(mm)A		B(mm)	C(mm)	Width(mm)D		H(mm)	
		Normal jaw	Long jaw			Normal jaw	Long jaw		
0-200	0.05	60	90	10	10	17	17	22	
0-300		60	90	10	10	17	17	22	
0-500		100	125/150/250	10	12	25	32	40	
0-600		100	125/150/250	10	12	25	32	40	
0-800		125	150/200/300	20	18	32	32	47	
0-1000		125	150/200/300	20	18	32	32	47	
0-1500		125	150/200/300	20/30	20	32/41.5	32/41.5	47/54	
0-2000		150/200	300/350	20/30	20	52	52	54	
0-2500		150/200	300/350	20/30	20	52	52	73	
0-3000		150/200	300/350	20/30	20	52	52	73	
0-200		0.02	60	90	10	10	17	17	22
0-300			60	90	10	10	17	17	22
0-500	100		125/150/250	10	12	25	32	40	
0-600	100		125/150/250	10	12	25	32	40	
0-800	125		150/200/300	20	18	32	32	47	
0-1000	125		150/200/300	20	18	32	32	47	
0-1500	125		150/200/300	20/30	20	32/41.5	32/41.5	47/54	
0-2000	150/200		300/350	20/30	20	52	52	54	
0-2500	150/200		300/350	20/30	20	52	52	73	
0-3000	150/200		300/350	20/30	20	52	52	73	

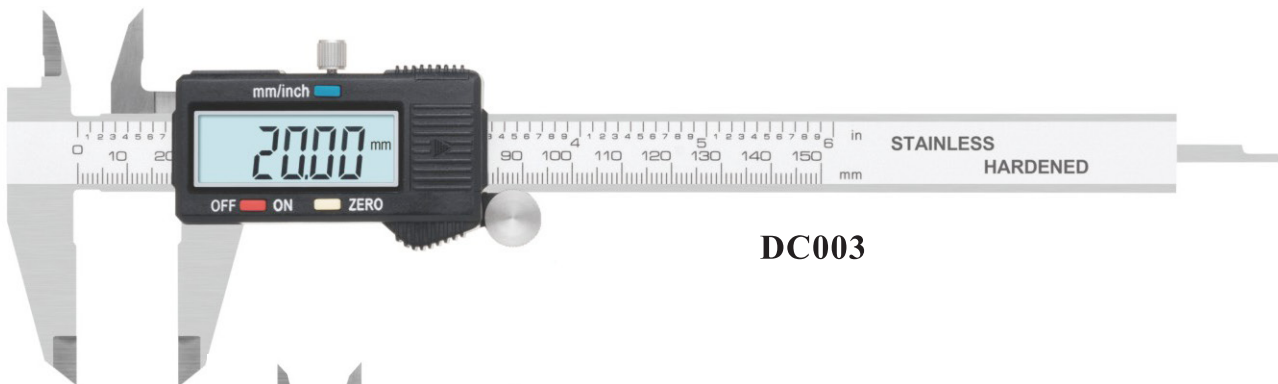
Range(mm)	Grad(mm)	Jaw Length(mm)A		B(mm)	C(mm)	Width(mm)D		H(mm)	
		Normal jaw	Long jaw			Normal jaw	Long jaw		
0-200/8"	0.05/1/128"	60	90	10	10	17	17	22	
0-300/12"		60	90	10	10	17	17	22	
0-500/20"		100	125/150/250	10	12	25	32	40	
0-600/24"		100	125/150/250	10	12	25	32	40	
0-800/32"		125	150/200/300	20	18	32	32	47	
0-1000/40"		125	150/200/300	20	18	32	32	47	
0-1500/60"		125	150/200/300	20/30	20	32/41.5	32/41.5	47/54	
0-2000/80"		150/200	300/350	20/30	20	52	52	54	
0-2500/100"		150/200	300/350	20/30	20	52	52	73	
0-3000/120"		150/200	300/350	20/30	20	52	52	73	
0-200/8"		0.02/0.001"	60	90	10	10	17	17	22
0-300/12"			60	90	10	10	17	17	22
0-500/20"	100		125/150/250	10	12	25	32	40	
0-600/24"	100		125/150/250	10	12	25	32	40	
0-800/32"	125		150/200/300	20	18	32	32	47	
0-1000/40"	125		150/200/300	20	18	32	32	47	
0-1500/60"	125		150/200/300	20/30	20	32/41.5	32/41.5	47/54	
0-2000/80"	150/200		300/350	20/30	20	52	52	54	
0-2500/100"	150/200		300/350	20/30	20	52	52	73	
0-3000/120"	150/200		300/350	20/30	20	52	52	73	



DC001



DC002



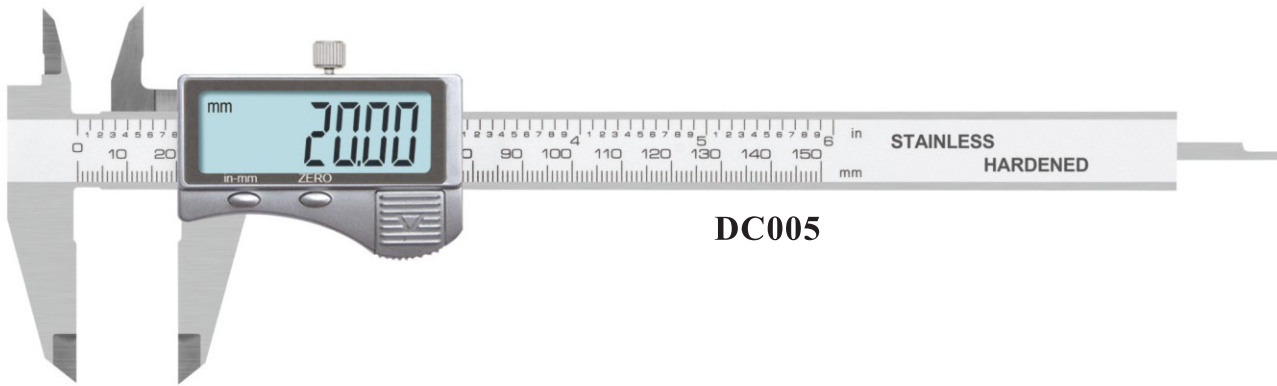
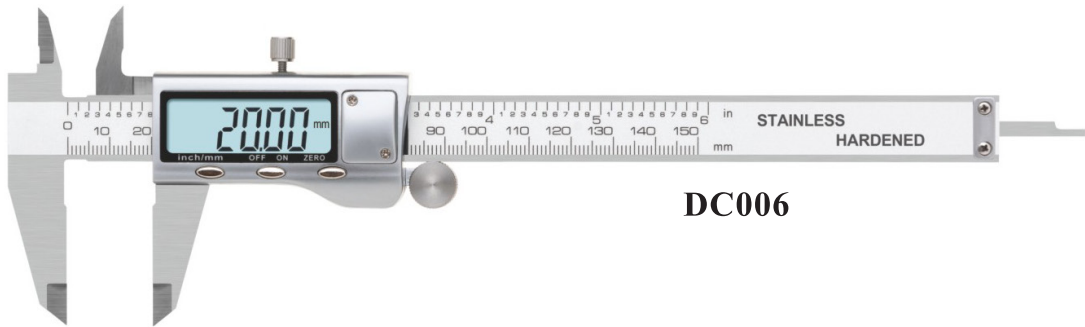
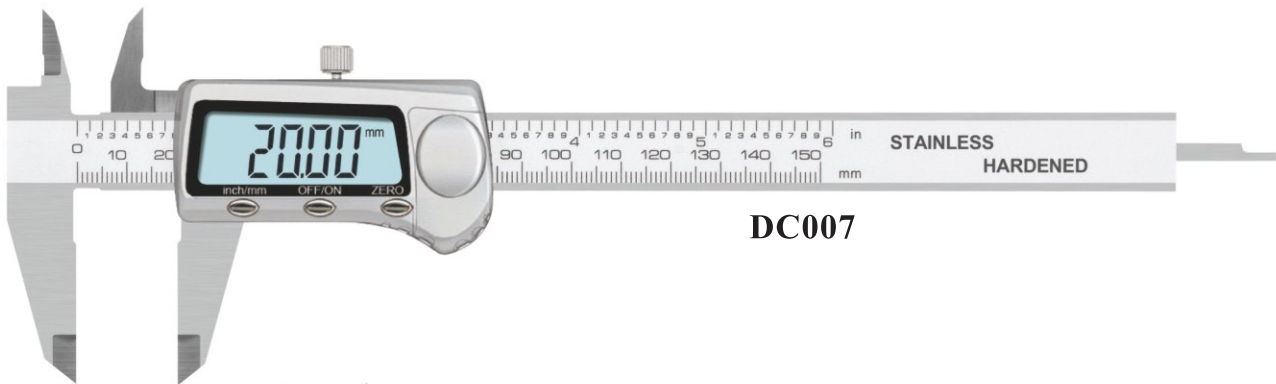
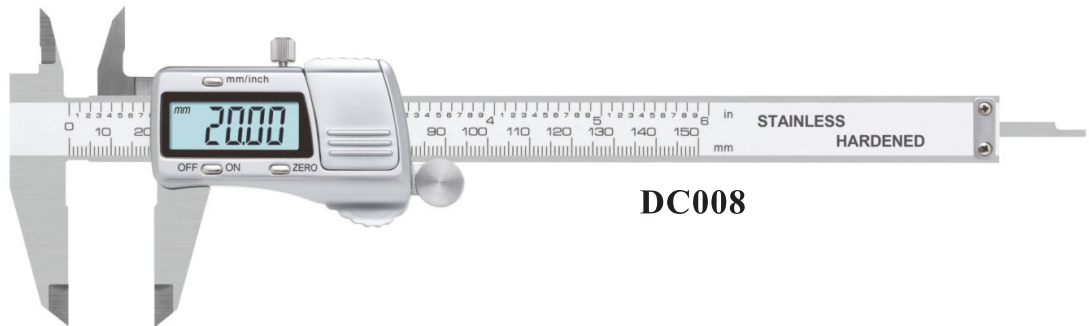
DC003



DC004

- ◆ Made of stainless steel or carbon steel.
- ◆ Can measure length, OD, ID and depth.
- ◆ With LCD display; ON/OFF switch; mm/in conversion;
- ◆ Origin button for zero setting at any position.

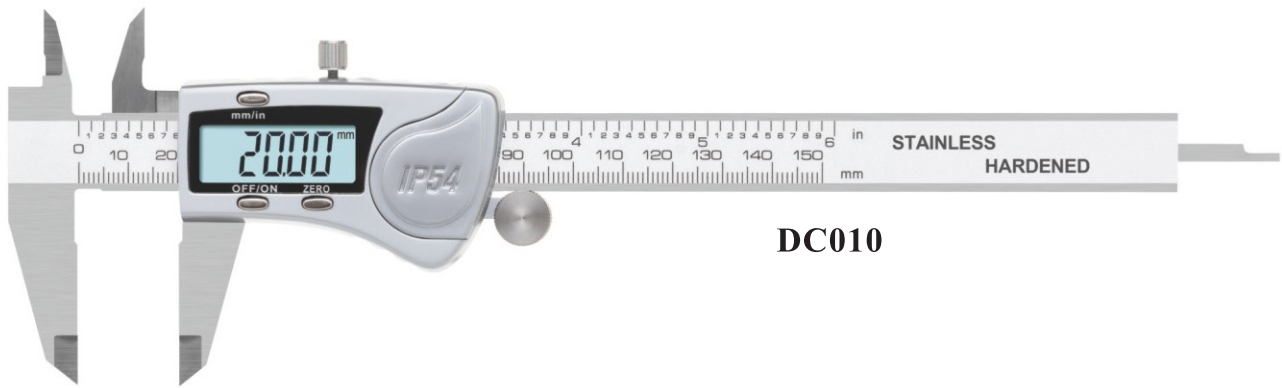
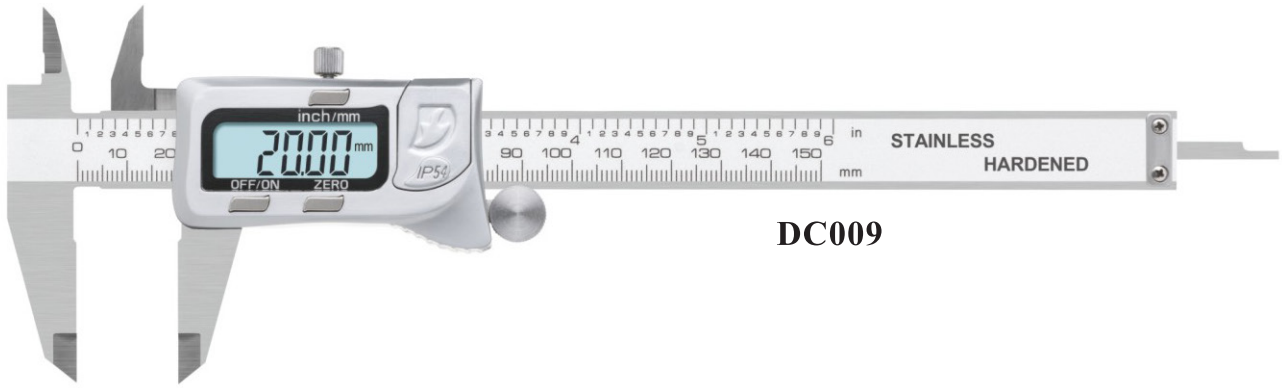
Range	Resolution	Accuracy	Voltage
100mm/4"	0.01mm/0.0005"	±0.003mm	1.5V
150mm/6"	0.01mm/0.0005"	±0.003mm	1.5V
200mm/8"	0.01mm/0.0005"	±0.004mm	1.5V
300mm/12"	0.01mm/0.0005"	±0.005mm	1.5V


**DC005**

**DC006**

**DC007**

**DC008**

- ◆ Made of stainless steel or carbon steel.
- ◆ Can measure length, OD, ID and depth.
- ◆ With LCD display; ON/OFF switch; mm/in conversion;
- ◆ Origin button for zero setting at any position.

Range	Resolution	Accuracy	Voltage
150mm/6"	0.01mm/0.0005"	±0.003mm	1.5V
200mm/8"	0.01mm/0.0005"	±0.004mm	1.5V
300mm/12"	0.01mm/0.0005"	±0.005mm	1.5V





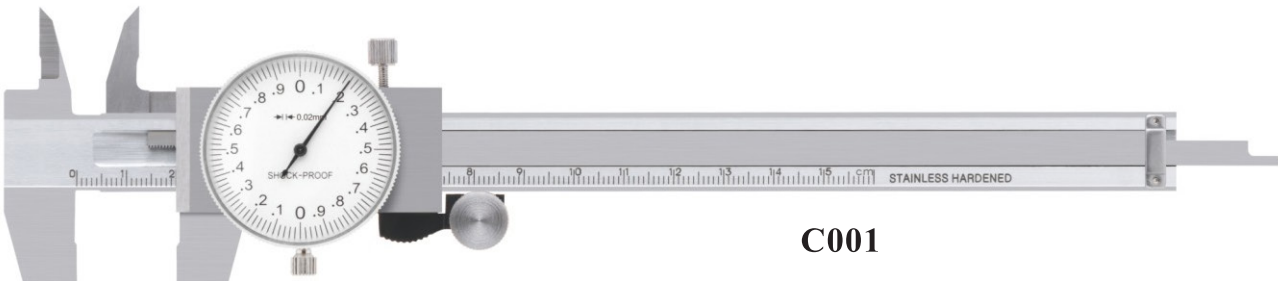
### NO. Samples For Digital Calipers

### Available length

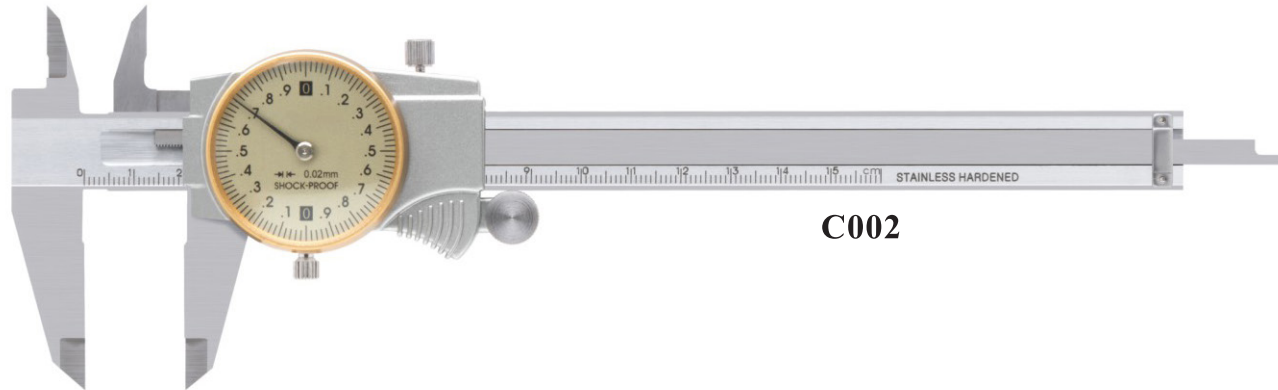
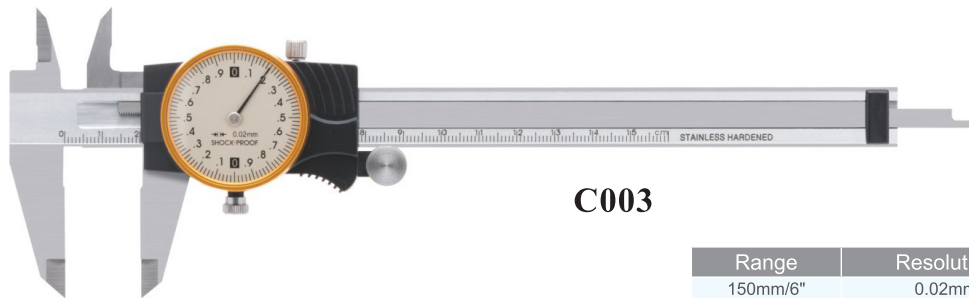
NO.	Sample Description	Available length
01	STAINLESS HARDENED	150,200,300,500(mm)
02	STAINLESS HARDENED	150,200,300,500,600,800,1000(mm)
03	ELECTRONIC DIGITAL CALIPER	150,200,300(mm)
04	ELECTRONIC DIGITAL CALIPER	150mm
05	ELECTRONIC DIGITAL CALIPER	150mm
06	ELECTRONIC DIGITAL CALIPER	150mm
07	ELECTRONIC DIGITAL CALIPER	150mm
08	ELECTRONIC DIGITAL CALIPER	150mm
09	ELECTRONIC DIGITAL CALIPER	150mm
10	STAINLESS HARDENED	150mm
11	STAINLESS HARDENED	150mm
12		150,200,300,500,800,1000,1500(mm)
13		150,200,300,500,1000(mm)
14	STAINLESS HARDENED	150,200,300,500,1000(mm)
15	STAINLESS HARDENED	150,200,300,500,1000(mm)
16		400,500,600,800,1000(mm)
17	STAINLESS HARDENED	150mm
18	ELECTRONIC DIGITAL CALIPER	150mm
19	DIGITAL	150,200,300,500(mm)
20	ELECTRONIC DIGITAL CALIPER	150,200,300,500,1000(mm)

- ◆ Made of stainless steel or carbon steel.
- ◆ Can measure length, OD, ID and depth.
- ◆ With LCD display.
- ◆ It can work after cleaning the splashed water on it. The degree of protection is IP54.
- ◆ With on/off button and data output interface.
- ◆ Zero setting at any position.
- ◆ mm/in system conversion at any position.

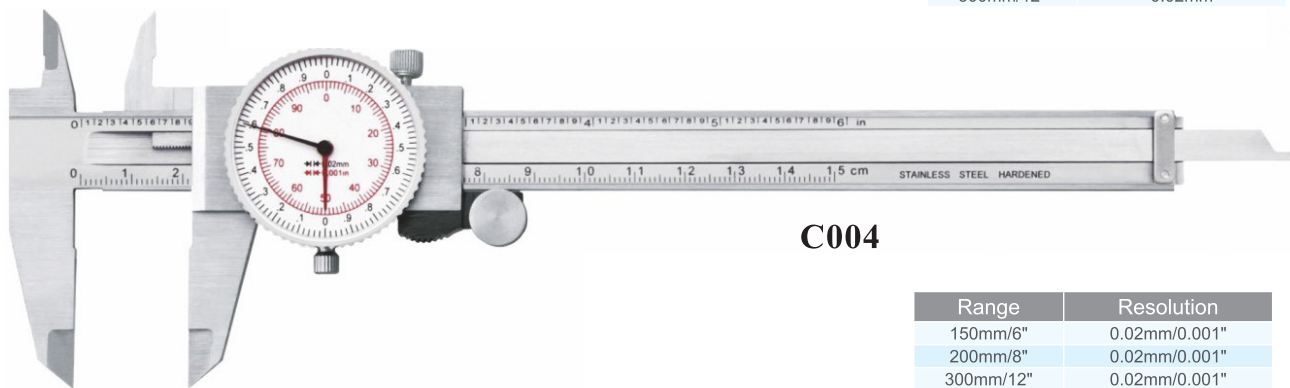
Range	Resolution	Accuracy	Voltage
150mm/6"	0.01mm/0.0005"	±0.003mm	3V
200mm/8"	0.01mm/0.0005"	±0.004mm	3V
300mm/12"	0.01mm/0.0005"	±0.005mm	3V
300mm/12"	0.01mm/0.0005"	±0.005mm	1.5V


**C001**

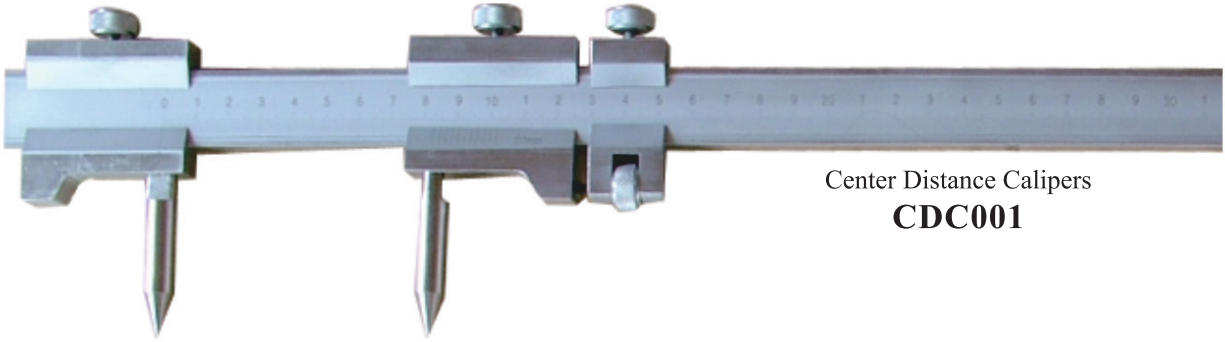
Range	Resolution
150mm/6"	0.02mm/0.001"
200mm/8"	0.02mm/0.001"
300mm/12"	0.02mm/0.001"


**C002**

**C003**

Range	Resolution
150mm/6"	0.02mm
200mm/8"	0.02mm
300mm/12"	0.02mm


**C004**

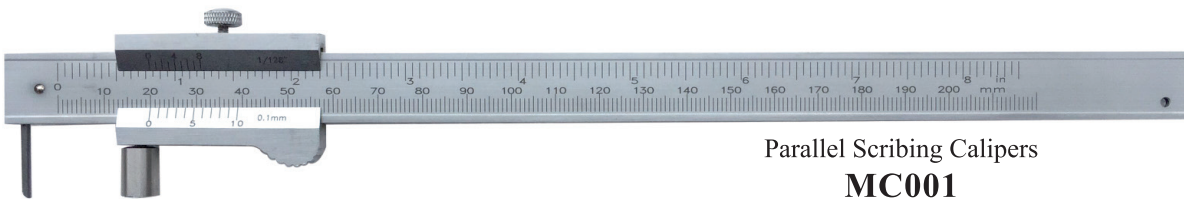
Range	Resolution
150mm/6"	0.02mm/0.001"
200mm/8"	0.02mm/0.001"
300mm/12"	0.02mm/0.001"



Center Distance Calipers  
**CDC001**

Range(mm)	Verier(mm)
0-300	0.1
0-500	
0-1000	
0-1500	
0-2000	
0-3000	

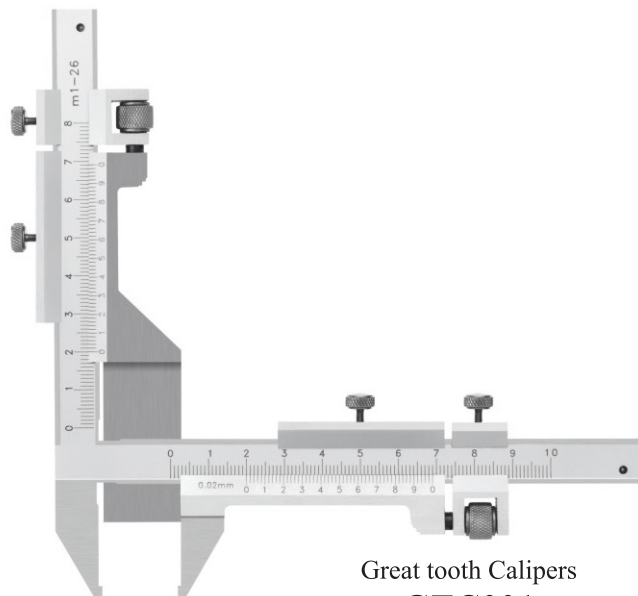
Range(mm)	Verier(mm)
0-300/12"	0.1/1/128"
0-500/20"	
0-1000/40"	
0-1500/60"	
0-2000/80"	
0-3000/120"	



Parallel Scribing Calipers  
**MC001**

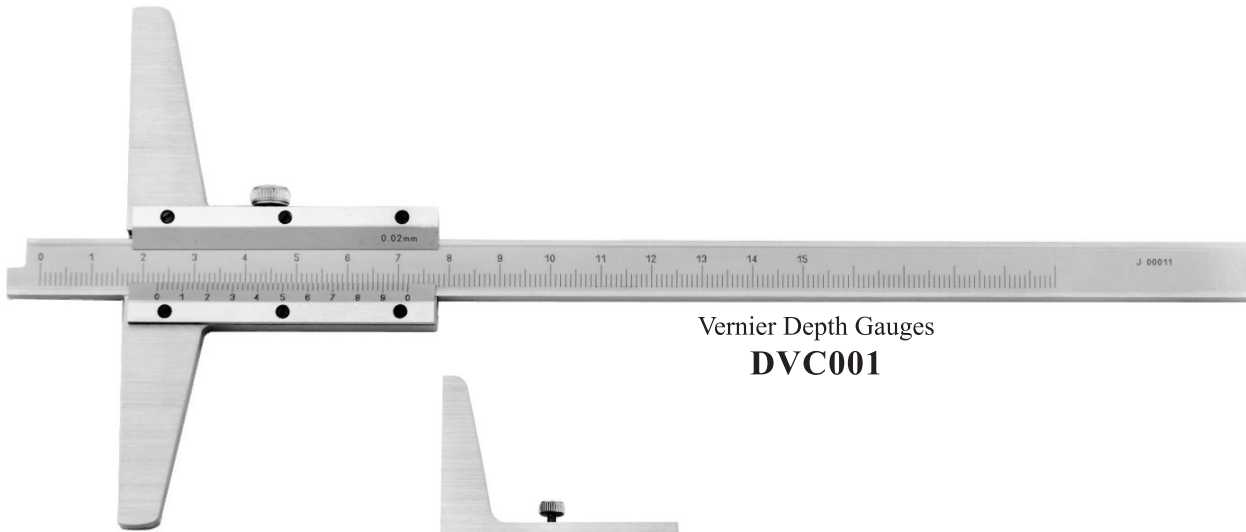
Range(mm)	Verier(mm)
200	0.1
400	

Range(mm)	Verier(mm)
200/8"	0.1/1/128"
400/16"	

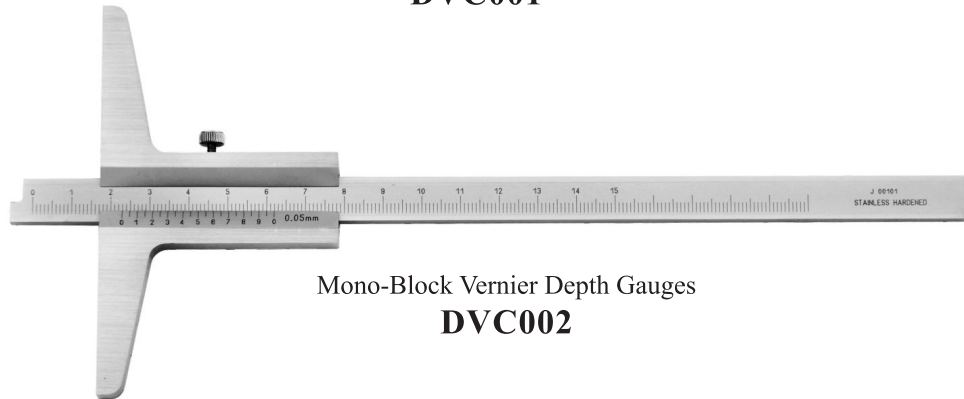


Great tooth Calipers  
**GTC001**

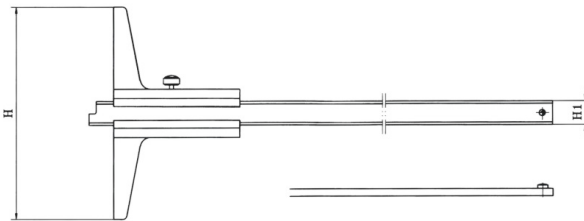
Range(mm)	Verier(mm)
M1-18	0.02mm
M1-28	
M15-55	



Vernier Depth Gauges  
**DVC001**



Mono-Block Vernier Depth Gauges  
**DVC002**

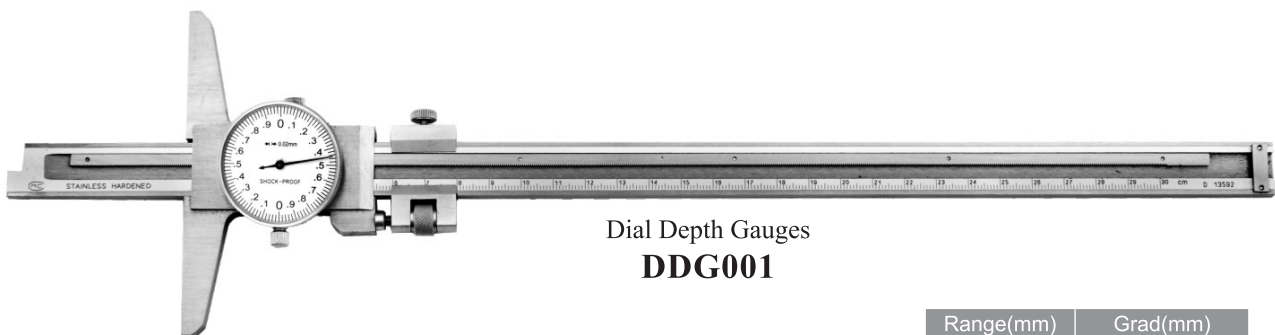


- ◆ Made of stainless steel or carbon steel.
- ◆ will limit screw to prevent the slider from pulling out.

Depth Gauges

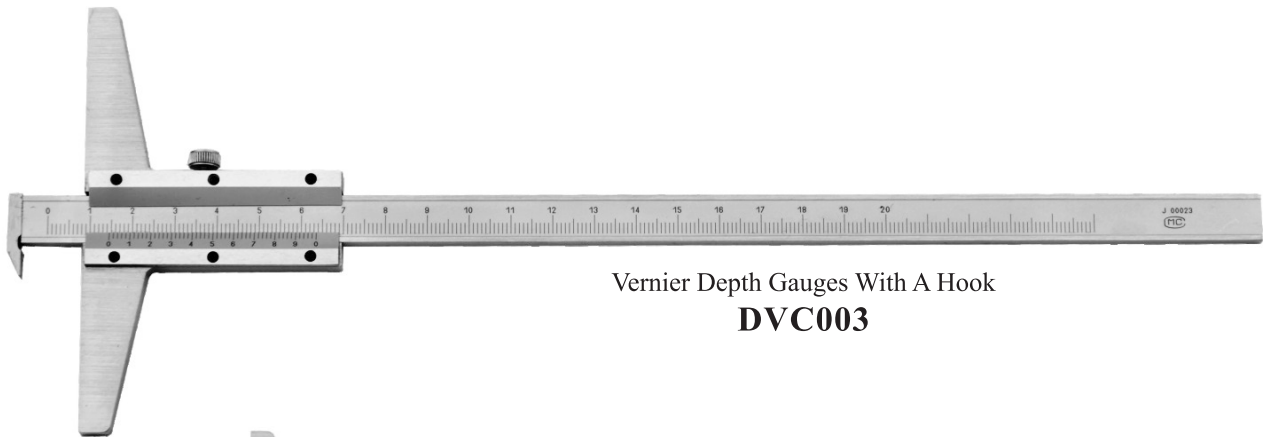
Range(mm)	Grad(mm)	H(mm)	H1(mm)
0-150	0.05	102/150	11.5
0-200		102/150	11.5
0-300		102/150	11.5
0-500		102/150	11.5
0-1000		102/150	15.5

Range(mm)	Grad(mm)	H(mm)	H1(mm)
0-150/6"	0.05/1/128"	102/150	11.5
0-200/8"		102/150	11.5
0-300/12"		102/150	11.5
0-500/20"		102/150	11.5
0-1000/40"		102/150	15.5

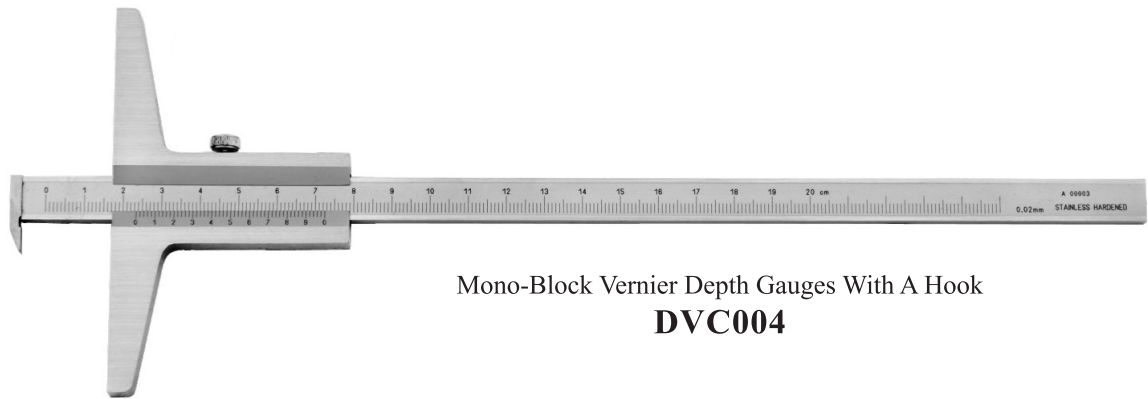


Dial Depth Gauges  
**DDG001**

Range(mm)	Grad(mm)
0-200mm	0.01mm
0-300mm	
0-200mm	
0-300mm	0.02mm
0-8"	0.001"
0-12"	

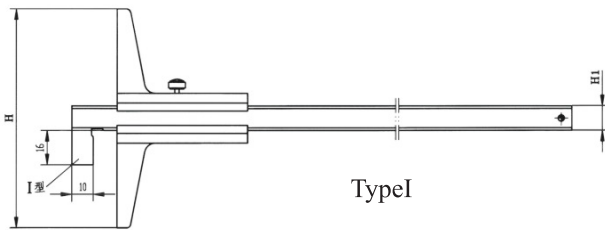


Vernier Depth Gauges With A Hook  
**DVC003**

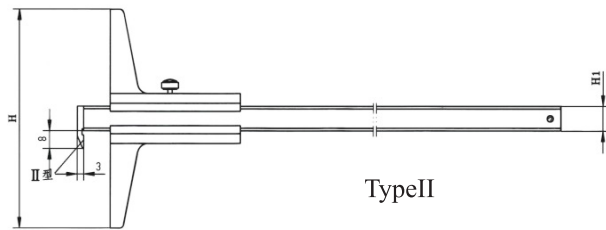


Mono-Block Vernier Depth Gauges With A Hook  
**DVC004**

Depth Gauges



Type I

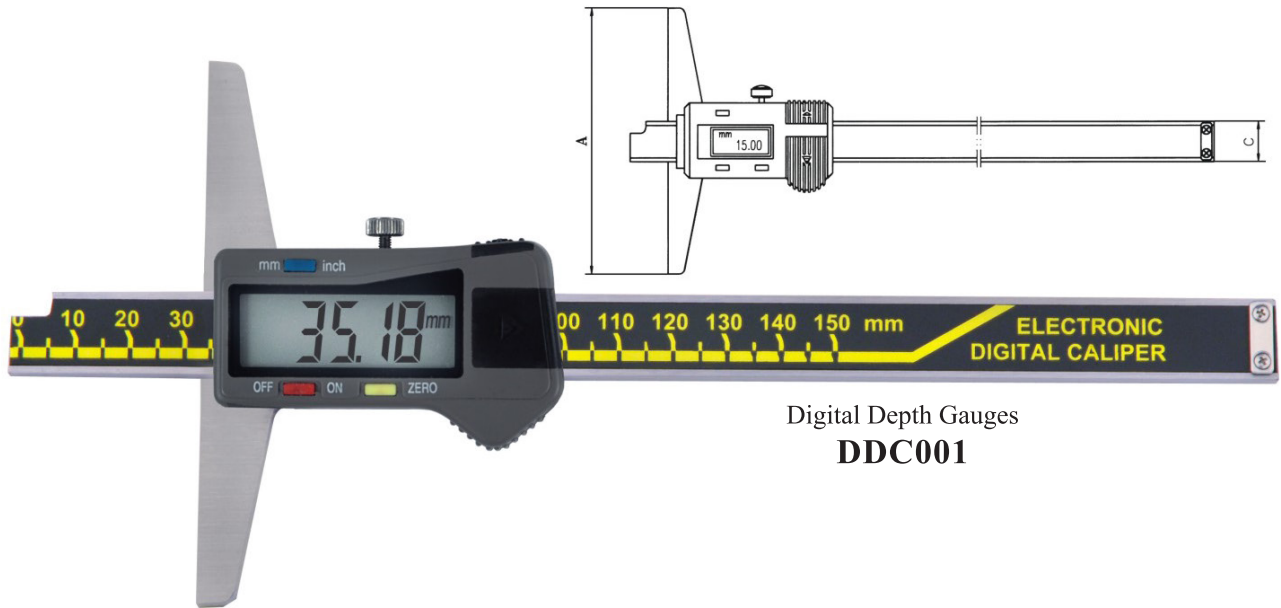


Type II

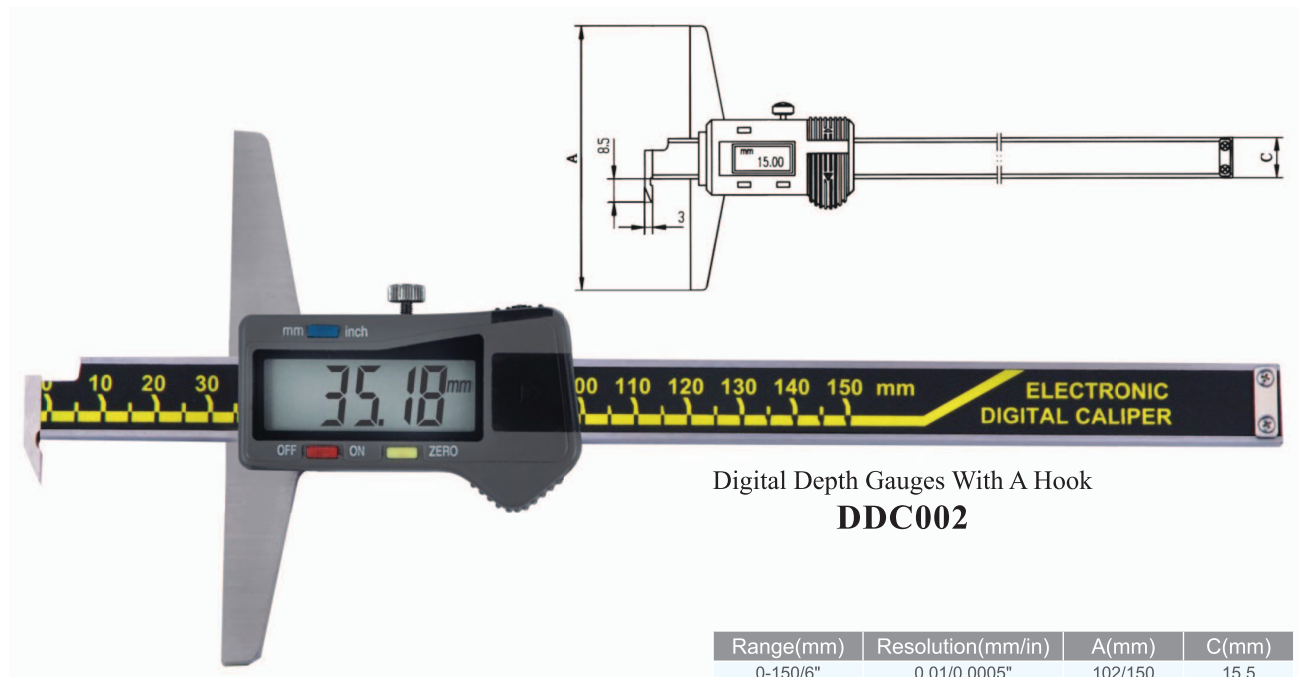
- ◆ Made of stainless steel or carbon steel.
- ◆ For depth, step, internal and external groove measurements.
- ◆ There are two types of hooks for choice (Type I & Type II)

Range(mm)	Grad(mm)	H(mm)	H1(mm)
0-150	0.05	102/150	11.5
0-200		102/150	11.5
0-300		102/150	11.5
0-500		102/150	11.5
0-150	0.02	102/150	11.5
0-200		102/150	11.5
0-300		102/150	11.5
0-500		102/150	11.5
0-1000		102/150	15.5

Range(mm)	Grad(mm)	H(mm)	H1(mm)
0-150/6"	0.05/1/128"	102/150	11.5
0-200/8"		102/150	11.5
0-300/12"		102/150	11.5
0-500/20"		102/150	11.5
0-150/6"	0.02/0.001"	102/150	11.5
0-200/8"		102/150	11.5
0-300/12"		102/150	11.5
0-500/20"		102/150	11.5
0-1000/40"		102/150	15.5



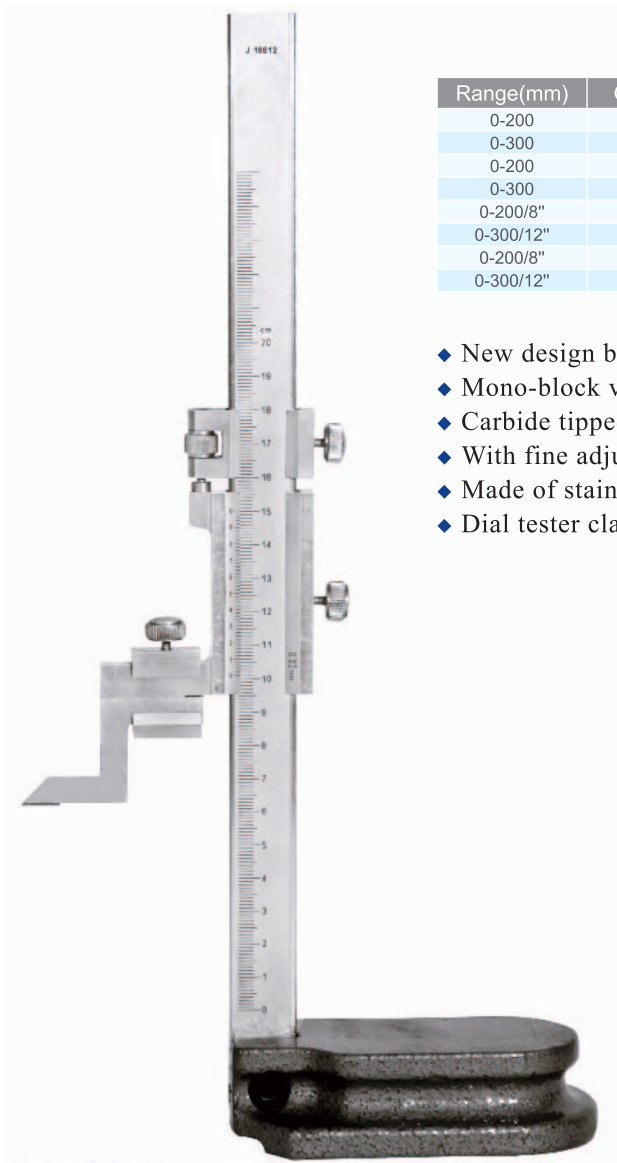
Digital Depth Gauges  
**DDC001**



Digital Depth Gauges With A Hook  
**DDC002**

- ◆ Made of stainless steel or carbon steel.
- ◆ For depth, step, internal and external groove measurements.
- ◆ With on/off button and data output interface.
- ◆ Zero setting at any position.
- ◆ mm/in system conversion at any position.

Range(mm)	Resolution(mm/in)	A(mm)	C(mm)
0-150/6"	0.01/0.0005"	102/150	15.5
0-200/8"	0.01/0.0005"	102/150	15.5
0-300/12"	0.01/0.0005"	102/150	15.5
0-500/20"	0.01/0.0005"	102/150	17
0-1000/40"	0.01/0.0005"	102/150	25



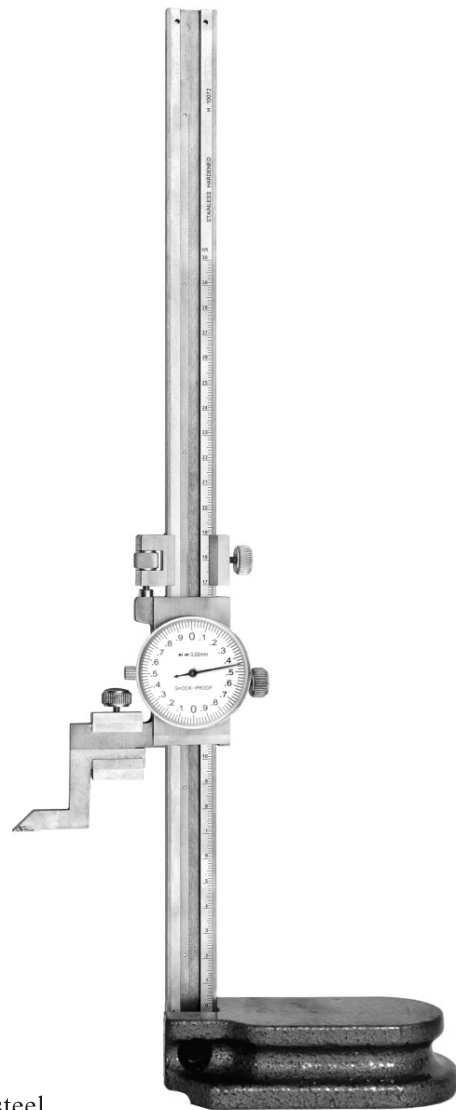
Range(mm)	Grad(mm)	H(mm)	C(mm)
0-200	0.05	330	20
0-300	0.05	430	20
0-200	0.02	330	20
0-300	0.02	430	20
0-200/8"	0.05/1/128"	330	20
0-300/12"	0.05/1/128"	430	20
0-200/8"	0.02/0.001"	330	20
0-300/12"	0.02/0.001"	430	20

- ◆ New design base for easy holding.
- ◆ Mono-block vernier.
- ◆ Carbide tipped scriber.
- ◆ With fine adjustment.
- ◆ Made of stainless steel or carbon steel.
- ◆ Dial tester clumper is optional.

Mono-Block Vernier Height Gauges  
**HVC001**

Range(mm)	Grad
0-200mm	0.02
0-300mm	
0-200mm	0.01
0-300mm	
0-8"	0.001"
0-12"	

- ◆ Carbide tipped scriber.
- ◆ With fine adjustment.
- ◆ Made of stainless steel or carbon steel.



Dial Height Gauges  
**HVC002**



- ◆ Carbide tipped scriber.
- ◆ Easy and error-free re-ading with both
- ◆ up and down digital counters as well as a dial.
- ◆ The counters and dial can be set zero at any position.
- ◆ Provided with a feed wheel for easy course feeding

Range(mm)	Grad(mm)
0-300	0.01
0-450	
0-500	
0-600	

Double-Beam Dial Height Gauges  
**HVC003**

Range(mm/in)	Resolution(mm/in)
0-200/8"	0.01/0.0005"
0-300/12"	
0-500/20"	
0-600/24"	
0-1000/40"	
0-1500/60"	

- ◆ Carbide tipped scriber.
- ◆ With fine adjustment.
- ◆ With on/off button and data output interface.
- ◆ Zero setting at any position.
- ◆ mm/in system conversion at any position.
- ◆ With data holding function.



Digital Height Gauges  
**HVC004**





**OM001**



**OM002**



**OM003**



**OM004**

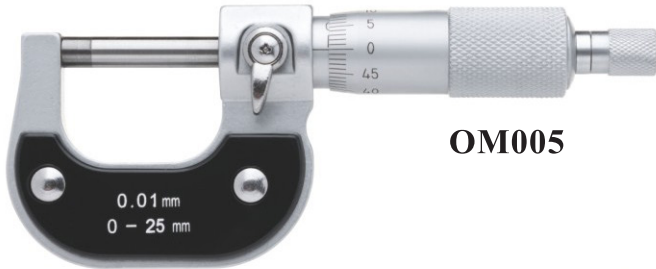
- ◆ Painted frame
- ◆ Carbide tipped measuring face

Range	Resolution	Range	Resolution
0-25mm	0.01mm	0-1"	0.0001"
25-50mm		1-2"	
50-75mm		2-3"	
75-100mm		3-4"	
100-125mm		4-5"	
125-150mm		5-6"	
150-175mm		6-7"	
175-200mm		7-8"	

Micrometers

- ◆ Painted frame
- ◆ Carbide tipped measuring face

Range	Resolution	Range	Resolution
0-25mm	0.01mm	0-1"	0.0001"
25-50mm		1-2"	
50-75mm		2-3"	
75-100mm		3-4"	
100-125mm		4-5"	
125-150mm		5-6"	
150-175mm		6-7"	
175-200mm		7-8"	



**OM005**

- ◆ Chrome Plated frame
- ◆ Carbide tipped measuring face



**OM006**

Range	Resolution
0-25mm	0.01mm
25-50mm	
50-75mm	
75-100mm	
100-125mm	
125-150mm	
150-175mm	
175-200mm	

Range	Resolution
0-1"	0.0001"
1-2"	
2-3"	
3-4"	
4-5"	
5-6"	
6-7"	
7-8"	

Range(mm)	Grad(mm)	H(mm)
100-125	0.01	73.5
125-150		86
150-175		98.5
175-200		111
200-225		123.5
225-250		136
250-275		148.5
275-300		161
100-125	0.001	73.5
125-150		86
150-175		98.5
175-200		111
200-225		123.5
225-250		136
250-275		148.5
275-300		161

- ◆ Painted sheet frame
- ◆ Carbide tipped measuring face



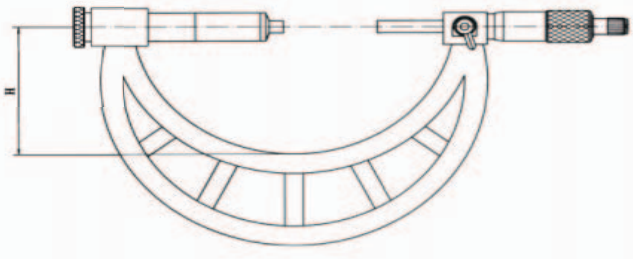
**OM007**

Micrometers



**OM008**

Range(mm)	Grad(mm)	H(mm)
300-400	0.01	225
400-500		275
500-600		325
600-700		375
700-800		430
800-900		480
900-1000		530



- ◆ With interchangeable standard anvils.
- ◆ Painted pipe frame.
- ◆ Carbide tipped measuring face.



**DOM001**

Range(mm)	Resolution(mm)
100-125	0.001/0.00005"
125-150	
150-175	
175-200	
200-225	
225-250	
250-275	
275-300	

- ◆ ON/OFF/ORIGIN for switching on or off the micrometer,press and hold on this button for displaying starting value.
- ◆ mm/in for metric and inch conversion.
- ◆ ABS/INC for absolute and relative measurement conversion.
- ◆ HOLD for reading holding.
- ◆ Capacity system with data output interface,IP65 protection.
- ◆ Painted steel frame with heat isolate holder.
- ◆ Carbide tipped measuring faces.
- ◆ Spindle made of high grade steel and hardened.
- ◆ Ratchet system for providing measuring force.
- ◆ Accessories:Packing box,battery,wrench,calibration rod(range more than 25mm),user manual.



**DOM002**



**DOM003**



**DOM004**



**DOM005**



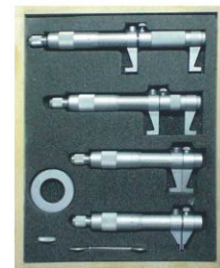
**DOM006**

- ◆ Painted frame
- ◆ Carbide tipped measuring face
- ◆ With on/off button
- ◆ Zero setting at any position.
- ◆ mm/in system conversion at any position.

Range	Resolution
0-25mm/0-1"	0.001mm/0.0005"
25-50mm/1-2"	
50-75mm/2-3"	
75-100mm/3-4"	

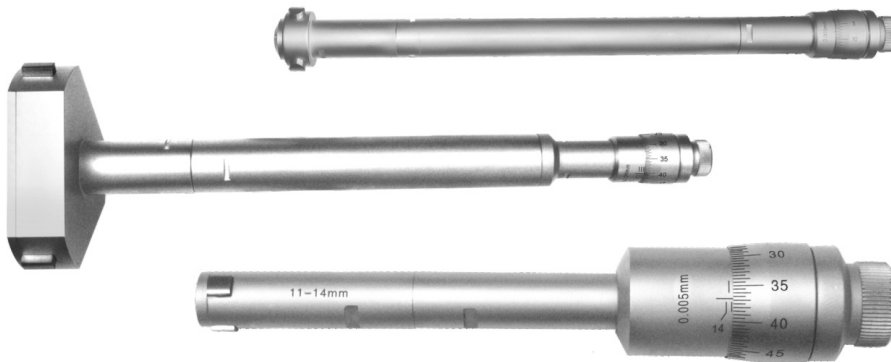


Range	Resolution
5-30mm	0.01mm
25-50mm	
50-75mm	
75-100mm	
100-125mm	
125-150mm	
150-175mm	
175-200mm	0.01mm
set	
5-75mm	0.01mm
5-100mm	



Inside Micrometers  
**IM001**

- ◆ For inside measurements.
- ◆ Carbide measuring faces.

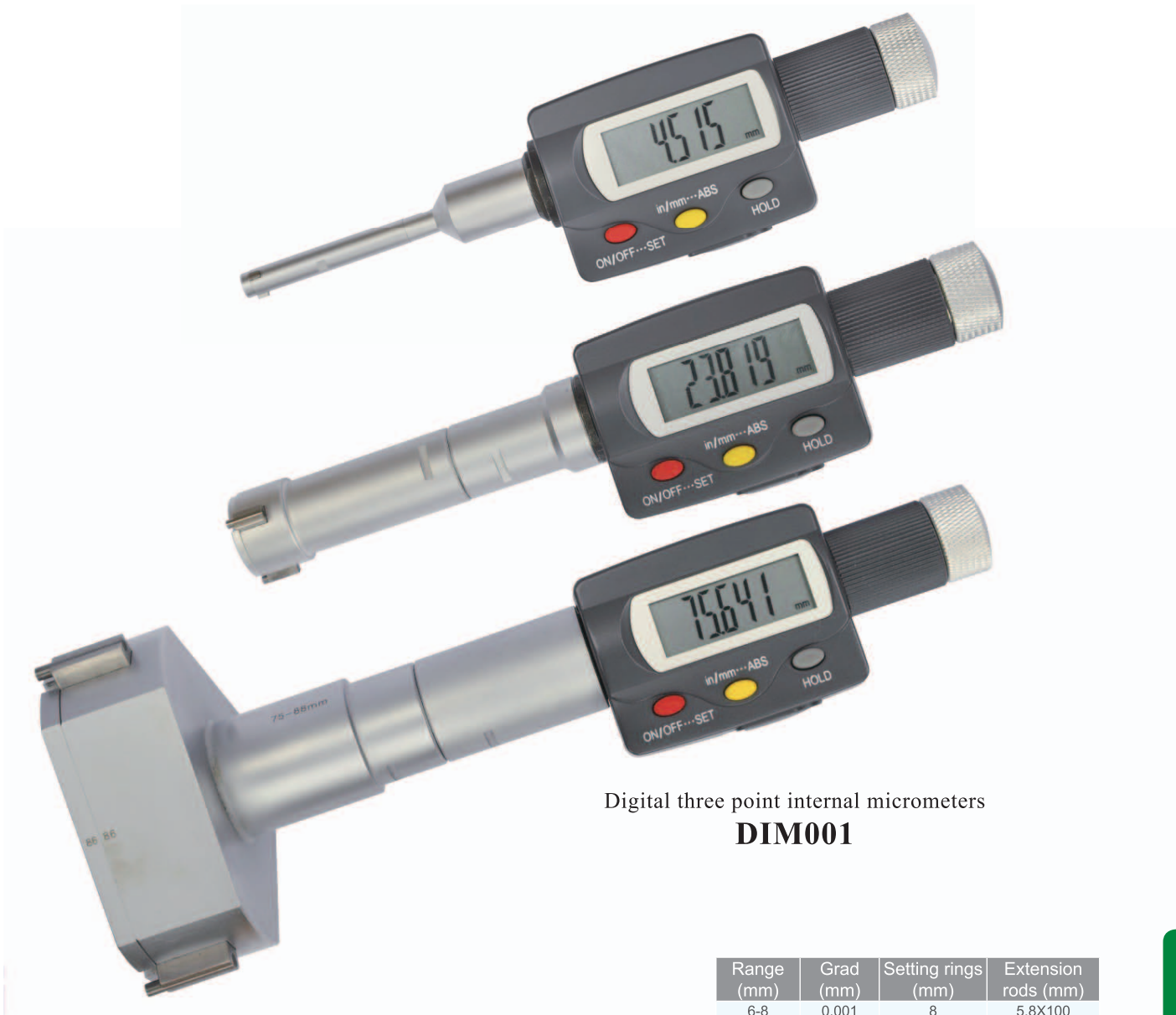


Three point internal micrometers  
**IM002**

- ◆ For through hole measuring.
- ◆ With extension rod for deep hole measuring.
- ◆ With set ring(under 100mm)
- ◆ Contact point can be either carbide or hardened steel

Range (mm)	Grad. (mm)	Setting rings (mm)	Extension rods (mm)	A (mm)	B (mm)	C (mm)
6-8	0.001	8	5.8X100	1.5	2.5	52
8-10	0.001	8	5.8X100	1.5	2.5	52
10-12	0.001	10	5.8X100	1.5	2.5	52
11-14	0.005	14	10.8X100	2	4.5	78
12-16	0.005	12	10.8X100	2	4.5	78
14-17	0.005	14	10.8X100	2	4.5	78
16-20	0.005	16	10.8X100	2	4.5	78
17-20	0.005	20	10.8X100	2	4.5	78
20-25	0.005	20	17X150	7	7	82
25-30	0.005	30	17X150	7	7	82
30-35	0.005	30	17X150	7	7	82
30-40	0.005	30	23.5X150	2.5	11	97
35-40	0.005	40	17X150	7	7	82
40-50	0.005	40	23.5X150	2.5	11	97
50-60	0.005	60	23.5X150	4	13	100
50-63	0.005	50	23.5X150	4	13	100
60-70	0.005	60	23.5X150	4	13	100
62-75	0.005	62	23.5X150	4	13	100
70-80	0.005	80	23.5X150	4	13	100
75-88	0.005	75	23.5X150	4	13	100
80-90	0.005	80	23.5X150	4	13	100
87-100	0.005	87	23.5X150	4	13	100
90-100	0.005	90	23.5X150	4	13	100



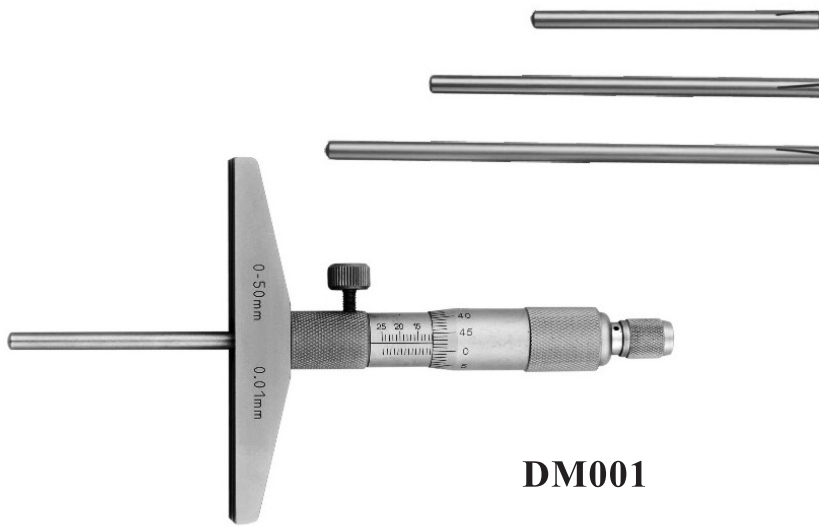


Digital three point internal micrometers  
**DIM001**

- ◆ For blind hole or through hole measuring.
- ◆ With extension rod for deep hole measuring.
- ◆ With set ring (under 100mm).
- ◆ Contact point can be either carbide or hardened steel.
- ◆ With on/off button
- ◆ Zero setting at any position.
- ◆ mm/in system conversion at any position.

Range (mm)	Grad (mm)	Setting rings (mm)	Extension rods (mm)
6-8	0.001	8	5.8X100
8-10	0.001	8	5.8X100
10-12	0.001	10	5.8X100
11-14	0.005	14	10.8X100
12-16	0.005	12	10.8X100
14-17	0.005	14	10.8X100
16-20	0.005	16	10.8X100
17-20	0.005	20	10.8X100
20-25	0.005	20	17X150
25-30	0.005	30	17X150
30-35	0.005	30	17X150
30-40	0.005	30	23.5X150
35-40	0.005	40	17X150
40-50	0.005	40	23.5X150
50-60	0.005	60	23.5X150
50-63	0.005	50	23.5X150
60-70	0.005	60	23.5X150
62-75	0.005	62	23.5X150
70-80	0.005	80	23.5X150
75-88	0.005	75	23.5X150
80-90	0.005	80	23.5X150
87-100	0.005	87	23.5X150
90-100	0.005	90	23.5X150

Digital Micrometers

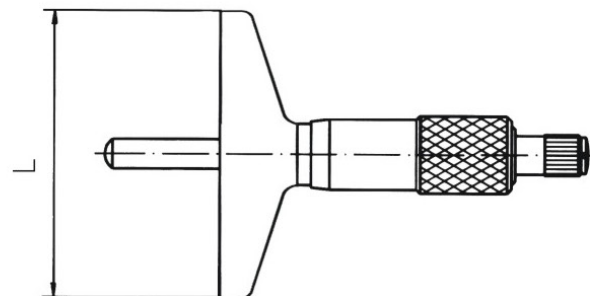


**DM001**



**DM002**

- ◆ With interchangeable anvils for wide measuring range.
- ◆ Micrometers need not be set zero again after precision anvils are interchanged.
- ◆ Accuracy: Micrometer head:  $\pm 0.03\text{mm}$  ( $\pm 0.00015''$ )  
 Flatness: L: 60mm, 64mm is  $2.0\mu\text{m}$  ( $0.00008''$ )  
 L: 100mm, 102mm is  $4.0\mu\text{m}$  ( $0.00016''$ )



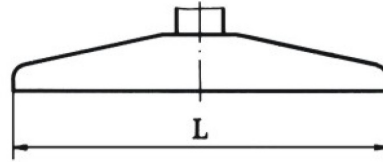
Depth Micrometers

Range	Grad	L(mm)	Anvil pieces
0-25mm	0.01mm	63	1
0-50mm		100	2
0-75mm		100	3
0-100mm		100	4
0-150mm		100	6
0-200mm		100	8
0-300mm		100	12

Range	Grad	L(mm)	Anvil pieces
0-1"	0.001"	63	1
0-2"		100	2
0-3"		100	3
0-4"		100	4
0-6"		100	6
0-8"		100	8
0-12"		100	12



Dial Depth Micrometers  
**DM003**



Range(mm)	Resolution(mm/in)	L(mm)
0-100	0.01	80
0-100	0.01/0.0005"	80
0-100	0.001/0.00005"	80

- ◆ Equipped with a shock-proof dial indicator
- ◆ With interchangeable rods(spherical head) for wide measuring range.



**DM004**



**DM005**



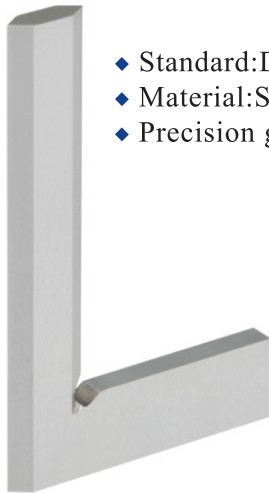
**DM006**

Range	Grad	L(mm)	Anvil pieces
0-25mm	0.001mm	63	1
0-50mm		100	2
0-75mm		100	3
0-100mm		100	4
0-150mm		100	6
0-200mm		100	8
0-250mm		100	10
0-300mm		100	12

- ◆ With precision interchangeable anvils and free of zero setting after changed.
- ◆ Wide measuring range with multiple hardened anvils.

Depth Micrometers

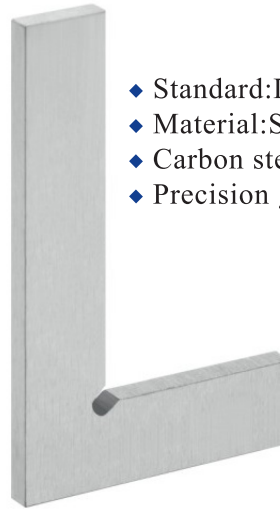




- ◆ Standard:DIN875/GOST
- ◆ Material:Stainless steel or Carbon steel
- ◆ Precision grade:00, 0, 1

Range
60*40mm
70*50mm
75*50mm
100*60mm
100*70mm
125*80mm
150*100mm
160*100mm
200*130mm
250*160mm
300*200mm

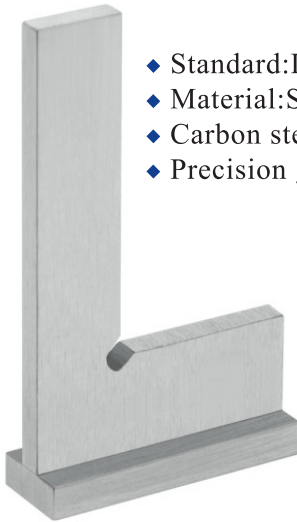
Knife Edge Square  
**SQ001**



- ◆ Standard:DIN875/GOST
- ◆ Material:Stainless steel or Carbon steel
- ◆ Precision grade:0, 1, 2

Range
60*40mm
70*50mm
80*50mm
100*70mm
125*80mm
150*100mm
160*100mm
200*130mm
250*165mm
300*200mm
400*250mm
500*330mm
600*400mm
630*400mm

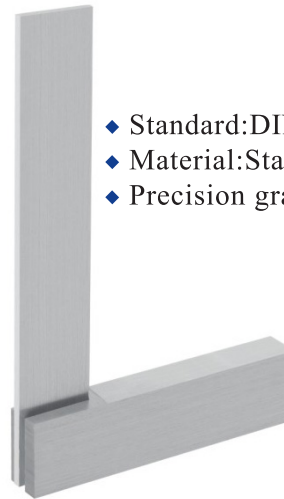
Flat Square  
**SQ002**



- ◆ Standard:DIN875/GOST
- ◆ Material:Stainless steel or Carbon steel
- ◆ Precision grade:0, 1, 2

Range
60*40mm
70*50mm
80*50mm
100*70mm
125*80mm
150*100mm
160*100mm
200*130mm
250*165mm
300*200mm
400*250mm
500*330mm
600*400mm
630*400mm

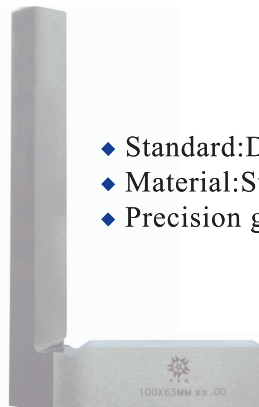
Flat Square With Base  
**SQ003**



- ◆ Standard:DIN875/GOST
- ◆ Material:Stainless steel or Carbon steel
- ◆ Precision grade:0, 1, 2

Range
60*40mm
70*50mm
80*50mm
100*70mm
125*80mm
150*100mm
160*100mm
200*130mm
250*165mm
300*200mm
400*250mm
500*330mm
600*400mm
630*400mm
800*500mm
1000*630mm

With Wide Base Square  
**SQ004**



- ◆ Standard:DIN875/GOST
- ◆ Material:Stainless steel or Carbon steel
- ◆ Precision grade:00, 0, 1

Range
63X35X10.3X10.3
100X63X14.5X14.5
160X100X20X20
200X130X20X20
250X160X20X20

Rhombus Square  
**SQ005**



Special square  
**SQ006**

- ◆ Material: Carbon steel, Stainless steel
- ◆ Angle: 45°, 60°, 135°
- ◆ Flattype, with base
- ◆ Precision grade: DIN875/II

Angle Size
45°, 60°
45°, 60°
45°, 60°
45°, 60°
135°
135°
135°
135°



Knife Edge Straight Ruler  
**SQ007**

- ◆ Standard: DIN875/GOST
- ◆ Material: Stainless steel or Carbon steel
- ◆ Precision grade: 00, 0

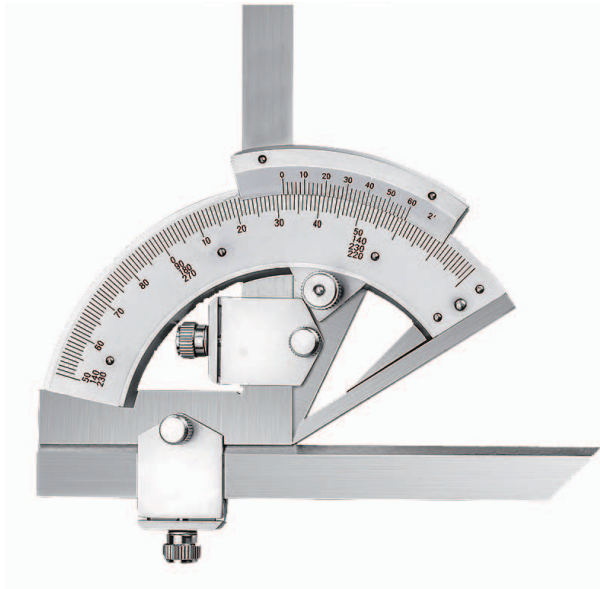
Range	Resolution	Resolution
50mm	DIN874 0	DIN874 00
75mm	DIN874 0	DIN874 00
100mm	DIN874 0	DIN874 00
125mm	DIN874 0	DIN874 00
150mm	DIN874 0	DIN874 00
175mm	DIN874 0	DIN874 00



Cast Iron Square Ruler  
**SQ008**

- ◆ Material: HT200-250
- ◆ Precision grade: 0, 1, 2

Size(mm)	Straightness of datum surface			Straightness of measuring surface			Verticality of measuring surface vs. datum surface		
	Precision grade(μm)								
	0	1	2	0	1	2	0	1	2
150x100	2	4	8	1.5	2.5	5	4	8	16
300x200	3	6	11	2	4	7	6	11	22
400x300	3.5	7	12	2	4	8	7	12	25
500x350	4	8	15	2.5	5	10	8	15	30
630x400	4.5	9	18	3	6	12	9	18	35
800x500	5	10	20	3	7	14	10	20	40
1000x630	6	12	25	4	8	16	12	25	50
1250x800	8	15	30	5	10	20	15	30	60
1600x1000	10	18	35	6	12	24	18	38	70
2000x1250	12	22	40	8	15	30	22	46	80



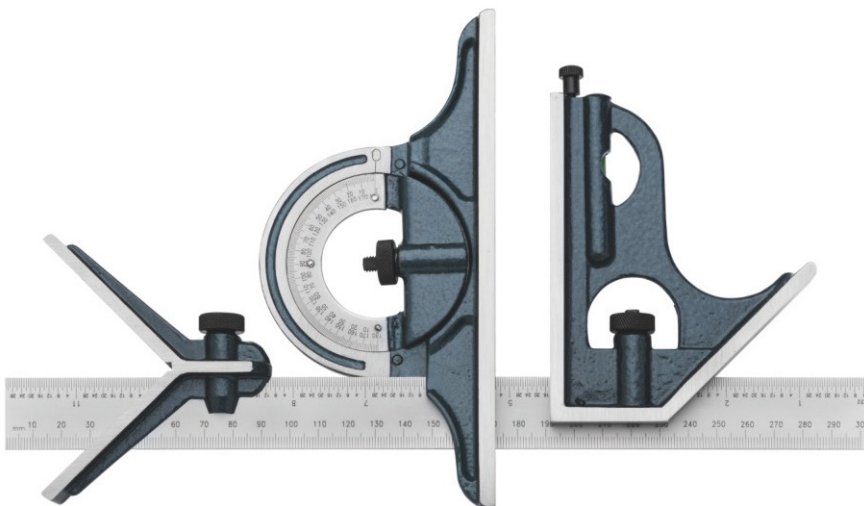
Magaluma Square Ruler  
**SQ009**

size	weight
630*400	5
800*500	7
1000*630	9
1250*800	11
1600*1000	13
2000*1250	15



Universal Bevel Protractor  
**SQ010**

Range	Resolution	Finish
0-360°	5'	CR-PLATE



Combination Square Set Protractor  
**SQ011**

Range	Resolution	Finish
12"/300mm 0-180°	1"	SPRAY-PAINT



Clamping Type Protractor  
**SQ012**

- ◆ Material: Carbon Steel, Stainless Steel
- ◆ Angle: 0°~180°

Dia of Protractor	Length of blade	Range	Resolution
80mm	120mm	0-180°	1°
120mm	150mm	0-180°	1°
150mm	200mm	0-180°	1°
200mm	300mm	0-180°	1°
300mm	500mm	0-180°	1°

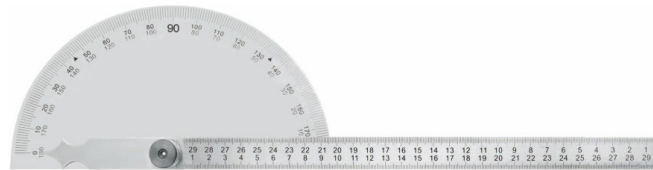
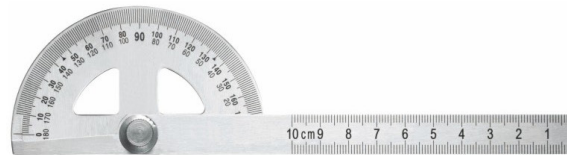
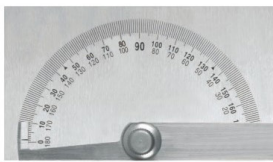
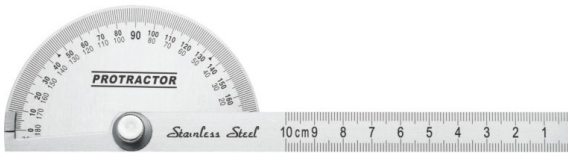


Plate Protractor  
**SQ013**

- ◆ Material: Carbon Steel, Stainless Steel
- ◆ Angle: 0°~180°
- ◆ Type of plate: Semi-round, Rectangle, Hollow

Dia of Protractor	Range	Resolution
90*150mm	0-180°	1°
80*120mm	0-180°	1°
120*150mm	0-180°	1°
150*200mm	0-180°	1°
200*300mm	0-180°	1°
300*500mm	0-180°	1°



Adjustable Protractor  
**SQ014**

- ◆ Material: Carbon Steel
- ◆ Angle: 10°~170°
- ◆ Adjustable

Dia of Protractor	Length of blade	Range	Resolution
100mm	150mm	10-170°	1°
150mm	300mm	10-170°	1°
200mm	400mm	10-170°	1°
250mm	500mm	10-170°	1°
300mm	600mm	10-170°	1°



Frame Precision Level  
**MPE-001**

1) Function:

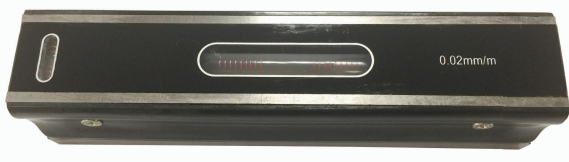
It is used for checking the straightness of machines and equipment, as well as the inclination angle.

2) Characters :

- To measure the angle change through the bubble moves.
- Square shape

3) Parameters:

Specification(mm)	Graduation(mm/m)
150*150*38	0.02~0.05
200*200*40	0.02~0.05
250*46*46	0.02~0.05
300*300*45	0.02~0.05



Master Precision Level  
**MPE-002**

1) Function:

It is used for checking the straightness of machines and equipment, as well as the inclination angle.

2) Characters :

- To measure the angle change through the bubble moves.
- Strip shape

3) Parameters:

Specification(mm)	Graduation(mm/m)
150*40*44	0.02~0.05
200*46*46	0.02~0.05
250*46*46	0.02~0.05
300*46*46	0.02~0.05



Master Precision Level  
**MPE-003**

1) Function:

It is used for checking the straightness of machines and equipment, as well as the inclination angle.

2) Characters :

- To measure the angle change through the bubble moves.
- Strip shape

3) Parameters:

Specification(mm)	Graduation(mm/m)
150*38*59	0.02~0.3
200*44*69	0.02~0.3
300*44*69	0.02~0.3



Small Precision Level  
**MPE-004**

1) Function:

It is used for checking the straightness of machines and equipment, as well as the inclination angle.

2) Characters :

- To measure the angle change through the bubble moves.
- Including the frame level and master level

3) Parameters:

Type	Specification(mm)	Graduation(mm/m)
Frame level	100*100*32	0.02~0.05
Master level	100*30*35	0.02~0.05
	84*20*21	0.1~0.45



Optical Composite Image Level  
**MPE-005**

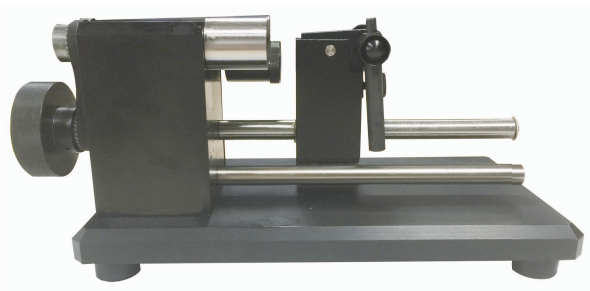
1)Function

Precision measurement of the roundness.concentric,circularrunout and the difference of cross section

Precision measurement of external cylindrical parameters and internal cylindrical parameters at the same time

Precision measurement of multiple spot parameters at the same time

Specification	Measuring Capacity(mm)	Graduation value(mm/m)
165*47	0-10	0.01



Composite Tester  
**MPE-006**

1) Function:

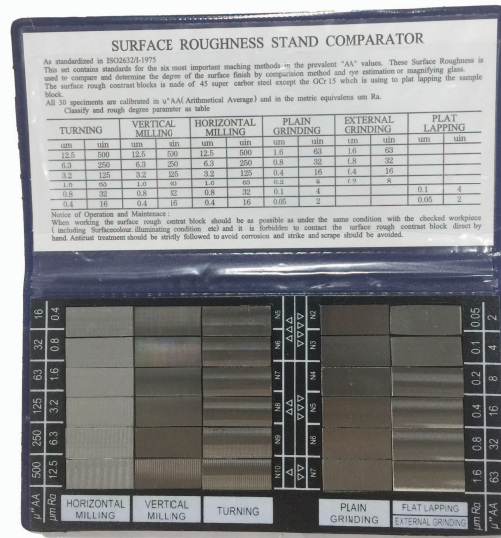
·Precision measurement of the roundness, concentric, circularrunout and the difference of cross section

·Precision measurement of external cylindrical parameters and internal cylindrical parameters at the same time

·Precision measurement of multiple spot parameters at the same time

2) Parameters:

Operation method	Applicable Diameter	Applicable Length
Manual	3-25	102
	10-50	152
	20-102	203
Power Drive	10-50	152
	20-102	203



Comparison Sample Block of Surface Roughness  
**MPE-007**

1) Function:

It is used for checking the surface roughness of machine parts

2) Characters :

Including: Seven Sets, Six Sets and Single block.

·Seven pcs: turning, shaping, vertical milling, plain milling, plain grinding, external grinding, polishing

·Six pcs: turning, shaping, vertical milling, plain milling, plain grinding, external grinding

·Single: sample block of turning, shaping, vertical milling, plain milling, plain grinding, external grinding, polishing, boring

Turning		Vertical milling		Horizontal milling		Plain grinding		External grinding		Plat lapping	
um	uin	um	uin	um	uin	um	uin	um	uin	um	uin
12.5	500	12.5	500	12.5	500	1.6	63	1.6	63		
6.3	250	6.3	250	6.3	250	0.8	32	0.8	32		
3.2	125	3.2	125	3.2	125	0.4	16	0.4	16		
1.6	63	1.6	63	1.6	63	0.2	8	0.2	8		
0.8	32	0.8	32	0.8	32	0.1	4			0.1	4
0.4	16	0.4	16	0.4	16	0.05	2			0.05	2



Dial Indicators  
**MTC001**

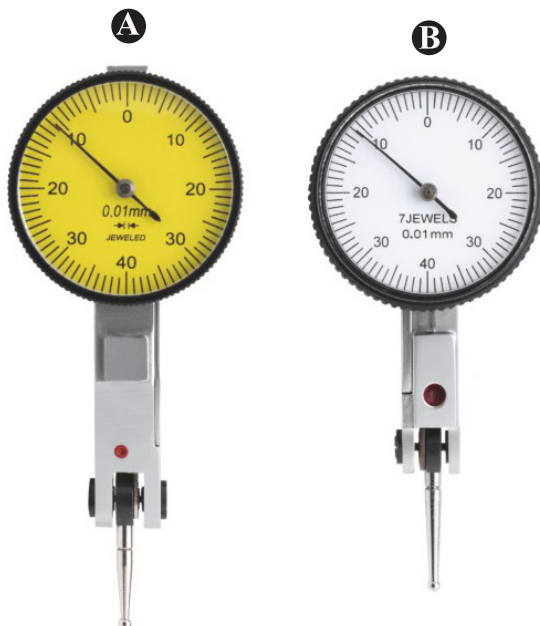
Range	Resolution	Diameter
0-3mm	0.01mm	φ58mm
0-5mm	0.01mm	φ58mm
0-10mm	0.01mm	φ58mm
0-20mm	0.01mm	φ58mm
0-25mm	0.01mm	φ58mm
0-30mm	0.01mm	φ58mm
0-50mm	0.01mm	φ58mm

Range	Resolution	Diameter
0-0.25"	0.001"	φ58mm
0-0.5"	0.001"	φ58mm
0-1"	0.001"	φ58mm
0-0.25"	0.0005"	φ58mm
0-0.5"	0.0005"	φ58mm
0-1"	0.0005"	φ58mm



Digital Dial Indicator  
**MTC002**

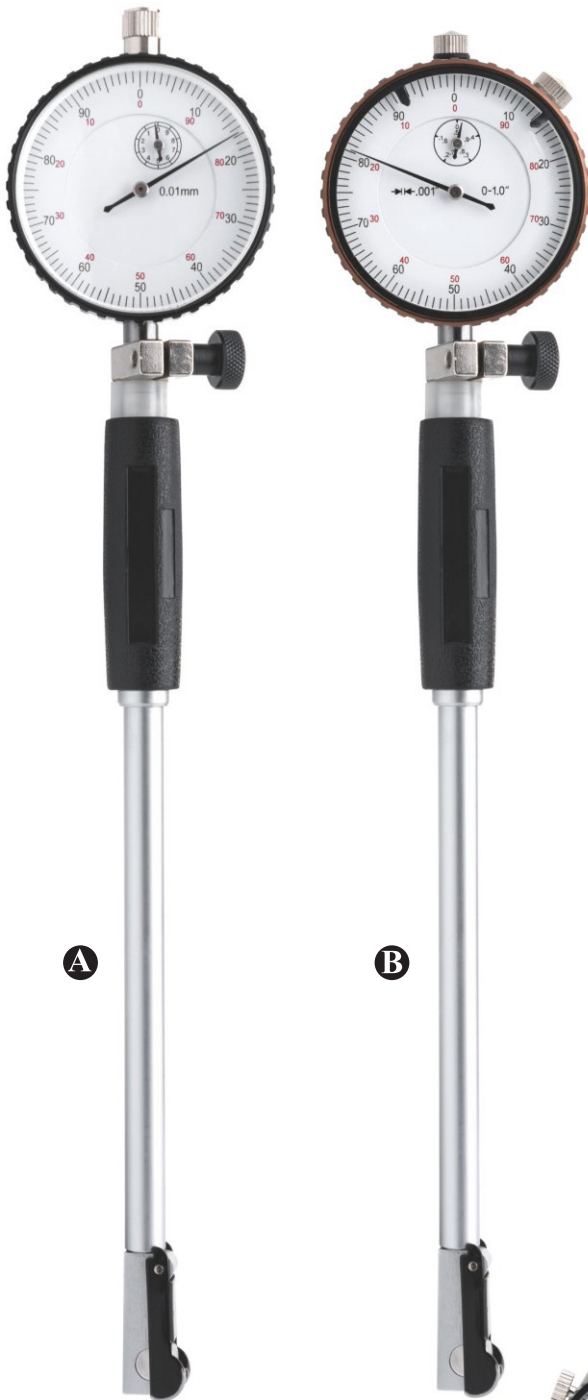
Measuring Range	Resolution	Accuracy
0-12.7/0.5"	0.01/0.0005"	±0.03
0-12.7/0.5"	0.01/0.0005"	±0.03
0-12.7/0.5"	0.001/0.00005"	±0.007
0-12.7/0.5"	0.001/0.00005"	±0.007



Indicating Dial Indicator  
**MTC003**

Range	Resolution	Diameter
0-0.8mm	0.01mm	φ32mm
0-0.8mm	0.01mm	φ32mm





Range	Resolution	Depth	Anvils	Washers
6-10mm	0.01mm	40mm	9	
10-18mm	0.01mm	100mm	9	1
18-35mm	0.01mm	125mm	7	
35-50mm	0.01mm	150mm	3	
50-100mm	0.01mm	150mm	5	
50-160mm	0.01mm	150mm	5	1
100-250mm	0.01mm	200mm	4	1
160-250mm	0.01mm	250mm	5	
250-450mm	0.01mm	250mm	5	1
6-10mm	0.01mm	40mm	9	
10-18mm	0.01mm	100mm	9	1
18-35mm	0.01mm	125mm	7	
35-50mm	0.01mm	150mm	3	
50-160mm	0.01mm	150mm	5	

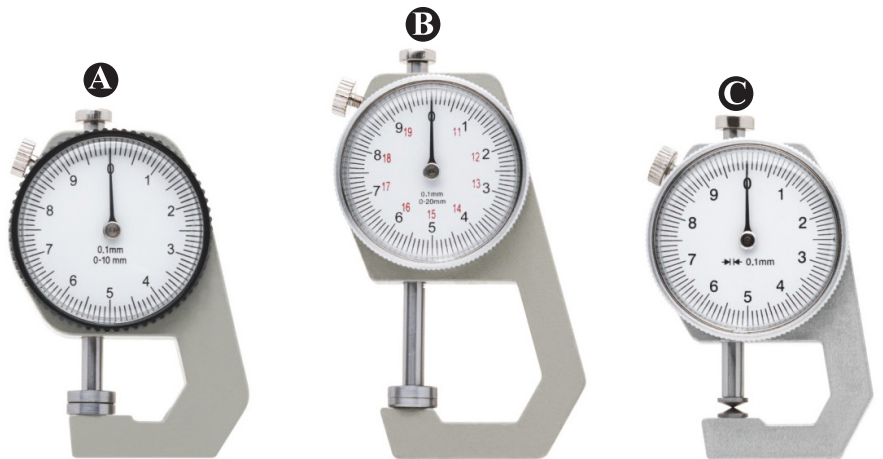
Range	Resolution	Depth	Anvils	Washers	Sub-anvils
1.4-2.4"	0.001"	6"	6	3	
2-4"	0.001"	6"	11	3	
2-6"	0.001"	6"	11	3	1
6-10"	0.001"	16"	6	5	1
10-16"	0.001"	16"	6	5	2
1.4-2.4"	0.0005"	6"	6	3	
2-4"	0.0005"	6"	11	3	
2-6"	0.0005"	6"	11	3	1
6-10"	0.0005"	16"	6	5	1
10-16"	0.0005"	16"	6	5	2

A

B

Dial Bore Gauges  
**MTC004**

Range	Resolution
0.1mm	0-10mm
0.1mm	0-20mm
0.1mm	0-10mm
0.1mm	0-20mm



Thickness Dial Indicator  
**MTC005**



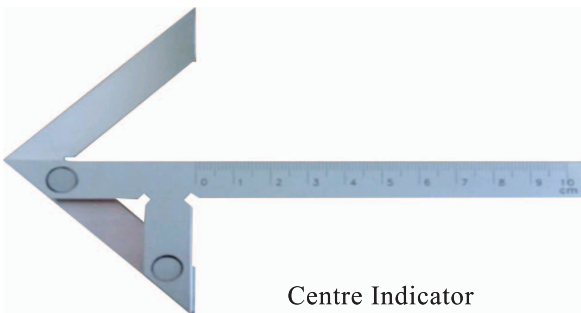
Dial Thickness Indicator  
**MTC006**

Range	Reading	Accuracy
0-10*30mm	0.01mm	±0.03mm



Dial Thickness Gauges  
**MTC007**

Range	Reading	Accuracy
0-10mm	0.01mm	±0.03mm
0-10mm	0.001mm	±0.007mm



Centre Indicator  
**MTC008**

Range
100x70
150x130
200x150



Marking Gauges  
**SG001**

Range	Resolution	Range	Resolution
200mm	0.1m	8"	0.005"
250mm	0.1m	10"	0.006"
300mm	0.1m	12"	0.007"



Feeler Gauge  
**SG002**

No.1	No.2	No.3	No.4
0.02	0.02	0.50	0.10
0.03	0.03	0.55	0.10
0.04	0.04	0.60	0.20
0.05	0.05	0.65	0.30
0.06	0.06	0.70	0.40
0.07	0.07	0.75	0.50
0.08	0.08	0.80	0.60
0.09	0.09	0.85	0.75
0.10	0.10	0.90	0.80
	0.15	0.95	0.90
	0.20	1.00	1.00
	0.25		
	0.30		
	0.35		
	0.40		
	0.45		
	0.50		



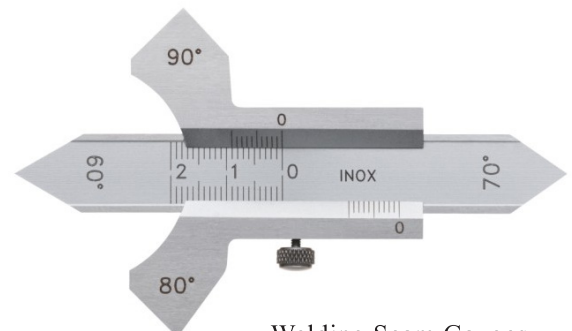
R-Gauge  
**SG003**

No.1	1	1.5	1.6	2	2.5	3	4	5	6			
No.2	8	10	12	16	20	25						
No.3	7	8	9	10	11	12	14	16	18	20	22	25



Pitch Gauge  
**SG004**

M60°	M55°	M60-M55°	M60-M55°
0.4	28	0.5	0.5 28
0.45	24	0.6	0.6 24
0.5	20	0.7	0.7 20
0.6	19	0.75	0.75 19
0.7	18	0.8	0.8 18
0.75	16	1	1 16
0.8	14	1.25	1.25 14
1	12	1.5	1.5 12
1.25	11	1.75	1.75 11
1.5	10	2	2 10
1.75	9		9
2	8		8
2.5	7		7
3	6		6
3.5	5		5
4	4 1/2		4 1/2
4.5	4		4
5			
5.5			
6			



Welding Seam Gauges  
**SG005**

Range	Resolution	Accuracy
0-20mm	0.1mm	±0.1mm



Compass  
**SG006**

Range
100mm
125mm
150mm
200mm
250mm
300mm
400mm
500mm
600mm
800mm
1000mm



Compass with Wing  
**SG007**

Range
100mm
125mm
150mm
200mm
250mm
300mm
400mm
500mm
600mm
800mm
1000mm



Compass with Wing and pen Hold  
**SG008**

Range
100mm
125mm
150mm
200mm
250mm
300mm
400mm
500mm
600mm
800mm
1000mm



Square Legs  
Spring Compass  
**SG009**

Range
100mm
125mm
150mm
200mm
250mm
300mm
400mm
500mm
600mm



Square Legs Spring  
Inside Divider  
**SG010**

Range
100mm
125mm
150mm
200mm
250mm
300mm
400mm
500mm
600mm



Square Legs Spring  
Outside Divider  
**SG011**

Range
100mm
125mm
150mm
200mm
250mm
300mm
400mm
500mm
600mm



Flat Spring Compass  
**SG012**

Range
75mm
100mm
125mm
150mm
200mm
250mm
300mm
400mm
500mm
600mm



Flat Spring Inside Divider  
**SG013**

Range
75mm
100mm
125mm
150mm
200mm
250mm
300mm
400mm
500mm
600mm



Flat Spring Outside Divider  
**SG014**

Range
75mm
100mm
125mm
150mm
200mm
250mm
300mm
400mm
500mm
600mm



Inside Divider  
**SG015**

Range
125mm
150mm
175mm
200mm
250mm
300mm
400mm
500mm
600mm
800mm
1000mm



Outside Divider  
**SG016**

Range
125mm
150mm
175mm
200mm
250mm
300mm
400mm
500mm
600mm
800mm
1000mm



Magnetic Base  
**SG019**

Magnetic Base  
**SG020**

Magnetic	weight	Main Stem	Branch Stem
60kgf/130Lbs	1.8kg		350mm
80kgf/175Lbs	1.8kg		350mm
80kgf/175Lbs	1.6kg	280mm	Red
80kgf/175Lbs	1.6kg	280mm	Blue
80kgf/175Lbs	1.6kg	280mm	Golden
80kgf/175Lbs	1.6kg	280mm	White
80kgf/175Lbs	1.6kg	280mm	Black



Magnetic Base  
**SG017**



Magnetic Base  
**SG018**

Magnetic	weight	Main Stem	Branch Stem
60kgf/130Lbs	1.4kg	φ12×176mm	φ10×160mm
80kgf/175Lbs	1.4kg	φ12×176mm	φ10×160mm

Magnetic	weight	Main Stem	Branch Stem
60kgf/130Lbs	1.4kg	φ12×176mm	φ10×150mm
80kgf/175Lbs	1.4kg	φ12×176mm	φ10×150mm

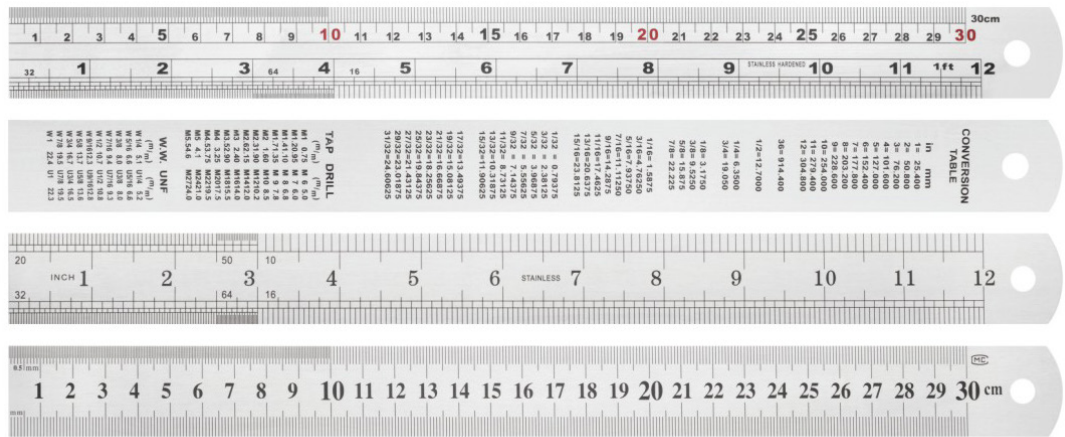


Micrometer Stand  
**SG021**

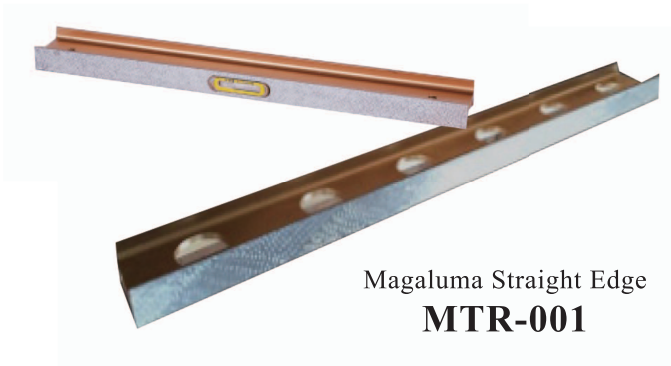
Used For	weight	Specification	Item.No
0-4"/0-100mm	1.2kg	Cast	V09-1091



Specification
150*19*0.8mm
200*13*0.5mm
200*19*0.8mm
300*25*1.0mm
300*27*0.7mm
300*28*1.0mm
500*25*1.0mm
500*28*1.0mm
500*30*1.2mm
600*30*1.2mm
1000*30*1.2mm
1000*35*1.5mm
1200*35*1.5mm
1500*38*1.8mm
2000*40*2.0mm



Stainless Steel Ruler  
**MR001**



Magaluma Straight Edge  
**MTR-001**

- 1) Function:  
Installation, commissioning, overhaul and measurement, etc.
- 2) Characters:  
·High resistance to bending  
·Light in weight and easy to use

Size(mm)	L(mm)	500	1000	1500	2000	2500	3000	3500	4000	5000	5000	6000	6000	7000
	H(mm)	60	60	60	100	100	100	100	150	150	175	150	175	220
A	30	30	30	40	40	40	40	80	80	80	80	80	60	
B	6	6	6	8	8	8	8	10	10	10	10	10	20	
R	4	4	4	6	6	6	6	8	8	8	8	10	12	
Precision grade	0	0	1	1	1	2	2	2	3	2	3	2	2	
Straightness(um)	3	5	15	18	22	48	56	64	160	80	200	100	120	
Parallelism(um)	4	8	22	27	33	72	84	130	240	120	300	150	180	

L:Working Length    A:Working Width    R:Chamfering    G:Total height    B:Support Thickness



Magaluma Knife Straight Edge  
**MTR-002**

- 1) Function:  
It is used for measuring the straightness and Parallelism, and plane precision combined with gauge block.
- 2) Characters:  
·Precision grade: class 0,1  
·Simple in structure, easy and efficient to use

L(mm)	H(mm)	B(mm)
75	22	6
125	27	6
200	30	8
300	40	8
400	45	8
500	50	10

L: Length of measuring face  
H:Height    B:Width



Cast Iron Straight Edge  
**MTR-003**

1) Function:

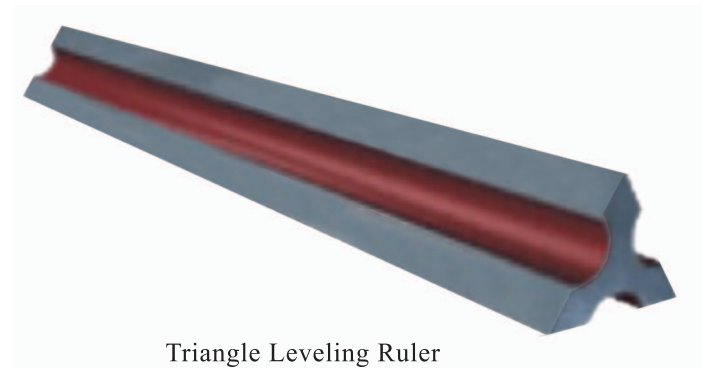
It is used for measuring the straightness and parallelism of machinery, as well as the equipment installation.

2) Characters:

·Material: HT200-250

·Processing:Scraping,precision grinding

Size(mm)	Straightness of working surface			Parallelism between working surfaces			Verticality of measuring surface vs. working surface		
	Precision grade(μm)								
	0	1	2	0	1	2	0	1	2
500x35	3	6	12	4.5	9	18	15	30	60
750x40	4	8	15	6	12	25	20	40	80
1000x50	5	10	20	7.5	15	30	25	50	100
1500x70	7.4	15	30	10	20	40	37	75	150
2000x90	9	18	36	13.5	27	54	45	90	180
2500x90	11	22	44	16	32	65	55	110	220
3000x100	13	26	52	19.5	39	78	65	130	260
3500x100	15	30	60	22	45	90	75	150	300
4000x100	17	34	68	25	50	100	85	170	340
5000x110	21	42	84	30	60	120	105	210	420



Triangle Leveling Ruler  
**MTR-004**

1) Function:

It is used for measuring the straightness and parallelism of machinery, inspecting and repairing the guide rail

2) Characters:

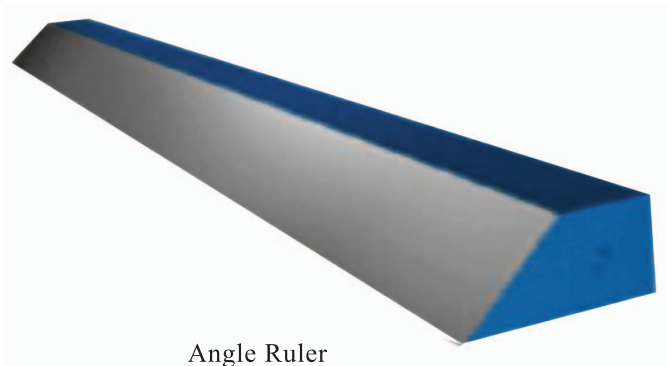
·Material:Stainless steel,Cast steel, Magaluma, Cast Iron(rarely)

·Processing:Precision grinding,Manual grinding

·There are three measuring surfaces which make equilateral triangle

L(mm)	H(mm)	B(mm)
200	---	26
300	---	30
500	---	40

L:Length of measuring surface    H: Height    B: Width



Angle Ruler  
**MTR-005**

1) Function:

It is used for measuring the straightness and parallelism of machinery, inspecting and repairing the guide rail

2) Characters:

·Material:HT200-300

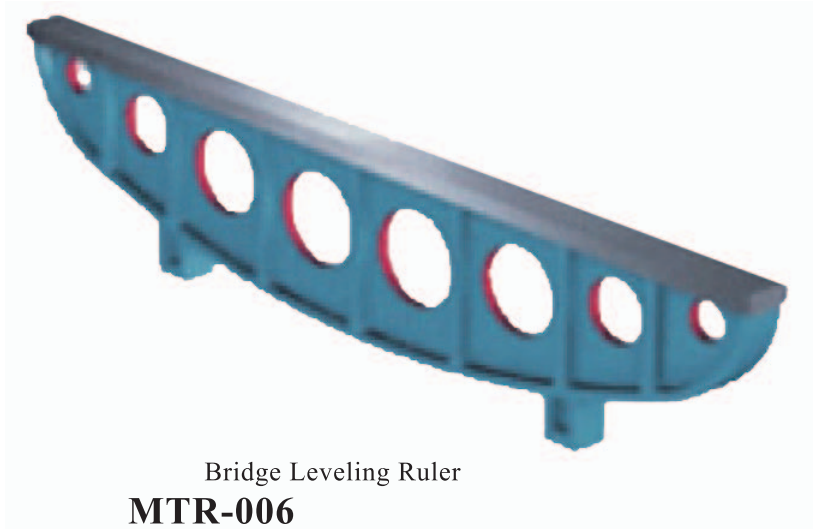
·Working surface: Raised and Sunk

·Angles:45°, 55°, 60°, 90°, 120°

·Light in weight and resistance to rust

Size(mm)	Straightness of working surface(μm)				Tolerance of included angle(mm)			
	0	1	2	3	0	1	2	3
500	3	6	12	24	±0.5	±1	±1.5	±2
750	4	8	15	30	±0.5	±1	±1.5	±2
1000		10	20	40		±1	±1.5	±2
1500		15	30	60		±1	±1.5	±2
2000		18	36	72		±1	±1.5	±2
2500		22	44	88		±1	±1.5	±2
3000			52	104			±1.5	±2
3500			60	120			±1.5	±2
4000			68	136			±1.5	±2
5000				168				±2
6000				210				±2
8000				264				±2





Bridge Leveling Ruler  
**MTR-006**

1) Function:

It is used for measuring the straightness and parallelism of machine tools.

Operating temperature:(20±5)°C

2) Characters:

·Material: HT200-300

·Processing:Scraping,precision grinding

Size(mm)	Verticality of side surface vs.working surface				Straightness of working surface			
	Precision grade(μm)							
	00	0	1	2	00	0	1	2
500x50	1.5	3	6	12	7	14	30	60
750x50	2	4	8	15	10	20	40	80
1000x50	2.5	5	10	20	12	24	50	100
1500x70	4	7.4	15	30	20	40	80	160
2000x80	5	9	18	36	25	50	100	200
2500x90	6	11	22	44	30	60	120	240
3000x100	7	13	26	52		65	130	260
3500x100		15	30	60		75	150	300
4000x100		17	34	68		85	170	340

### Series of Cast Iron Surface Plate

1) Function:

It is used for the plate calibration about equipment testing, lineation, assembling, welding.

2) Characters:

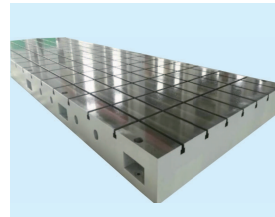
·Material: HT200-300

·It can be made into rib type and box type.

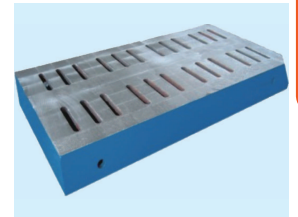
·The working surface can be processed as V type, T type and U type and Round hole, Rectangle hole, etc.

3) Parameters for reference:

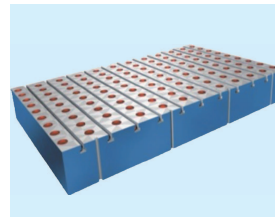
Size(Length x Width)	Precision grade(μm)				Finish plane
	0	1	2	3	
100x100	4	8	26		
200x100	5	10	20		
200x200	5	10	20		
300x200	6	12	24		
300x300	6	12	24		
400x300	6	12	24		
400x400	6	12	24		
500x300	6	12	24		
500x500	7	14	28		
600x400	7	14	28		
600x500	7	14	28		
800x500	8	16	32	80	
800x600	8	16	32	80	
900x600	8	16	32	80	
1000x750	9	18	36	90	
1000x1000	10	20	39	96	
1200x1000		20	39	96	
1500x1000		24	48	120	
1500x1500		25	50	125	
2000x1000		26	52	129	
2000x1500			56	140	
2000x2000			60	152	230
2500x1500			64	152	230
2500x2000			68	168	248
2500x2500			72	180	270
3000x1000				168	248
3000x1500				174	154
3000x2000				184	275
3000x2500				186	276
3000x3000				210	300
4000x1000				210	300
4000x1500				210	300
4000x2000				219	310
4000x2500				228	340
4000x3000				240	360
5000x1500				249	370
5000x2000				255	375
5000x2500				264	390
5000x3000				287	420
6000x1500				287	420
6000x2000				293	430
6000x2500				300	450
6000x3000				308	460
8000x1500				366	500
8000x2000				370	520
8000x2500				375	530
8000x3000				382	570



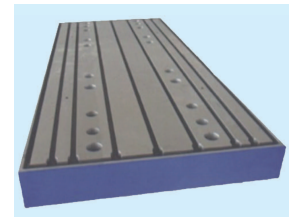
001



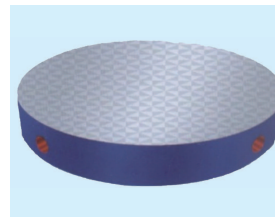
002



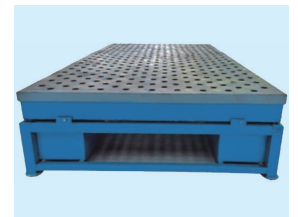
003



004



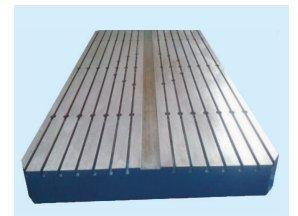
005



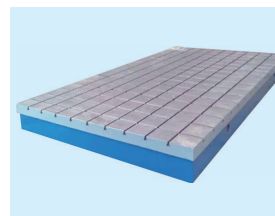
006



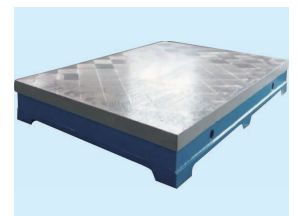
007



008



009



010



## Bending Plate Series

### 1) Function:

It is used for inspecting the right-angle of workpiece.

### 2) Characters:

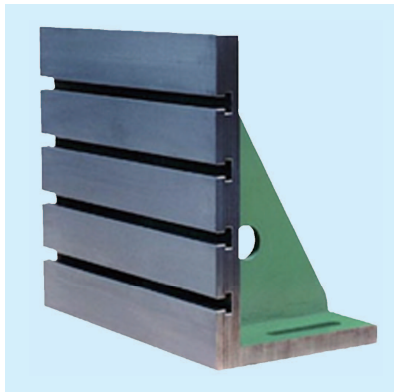
·Standard:GB6092 - 85

·Material: HT200

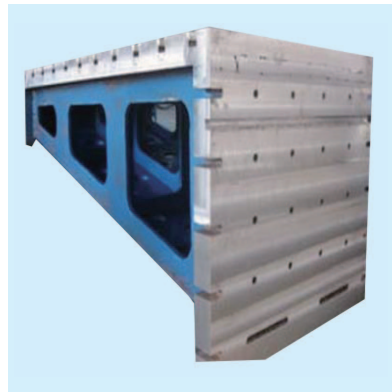
·High precision, good stability and easy to repair

### 3)Parameters:

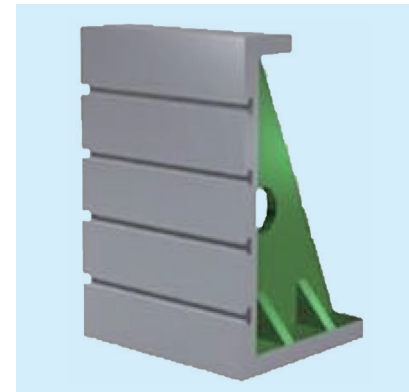
Size(mm)	Verticality of measuring surface vs. datum surface			Flatness and straightness of measuring surface			Flatness and straightness of datum surface		
	Precision grade (μm)								
	1	2	3	1	2	3	1	2	3
200x200	8	16	30	4	8	16	6	12	24
300x200	10	20	40	5	10	20	8	16	30
300x300	10	20	40	5	10	20	8	16	30
400x300	12	24	45	6	12	24	10	20	40
400x400	12	24	45	6	12	24	10	20	40
500x400	14	28	50	7	14	28	12	24	48
500x500	14	28	50	7	14	28	12	24	48
800x600	18	35	60	9	18	35	14	28	55



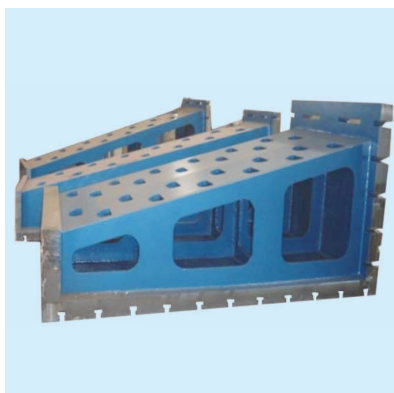
001



002



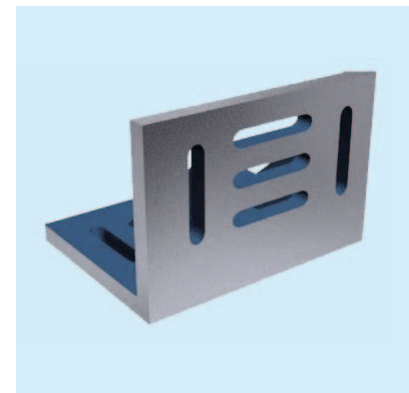
003



004



005



006



Serier of granite Measuring Tools  
**MTG-001**

1) Function:

It is used for the plate calibration about equipment testing, lineation, assembling, welding.

2) Characters:

·Material: Granite

·Processing: Machining and hand grinding

·Black color,even texture, good stability, high strength and hardness

3) Category:

Size(mm)	Precision grade			
	000	00	0	1
	tolerance of Straightness(μm)			
300x300x70	1.5	3	5.5	11
300x400x70	1.5	3	6	12
400x400x70	2	3.5	6.5	13
400x500x100	2	3.5	7	14
400x600x100	2	3.5	7	14
400x630x100	2	3.5	7	14
450x600x100	2	3.5	7	14
500x600x100	2	3.5	7	14
500x800x100	2	4	8	16
600x900x100	2.5	4.5	9	18
600x900x130	2.5	4.5	9	18
1000x630x150	2.5	4.5	9	18
1000x750x150	2.5	4.5	9	18
1000x1000x150	2.5	5	10	20

Size(mm)	Straightness of datum surface		Parallelism between datum surfaces	
	Precision grade(μm)			
	00	0	00	0
500x100x40	1.6	2.6	2.4	3.9
750x100x40	2.1	3.5	3.2	5.3
1000x120x40	3	5	4.5	7.5
1500x150x60	4.4	7.4	6.6	11.1
2000x200x80	5.4	10	8.1	13.5
3000x200x80	8	16	12	24



Granite Leveling Ruler  
**MTG-002**



Granite Square Master  
**MTG-003**

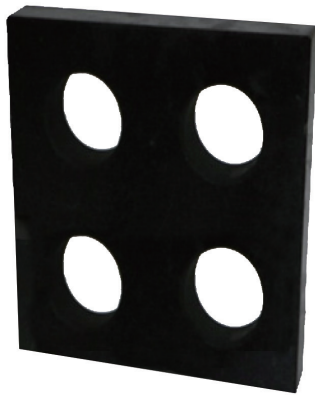
Size(mm)	Verticality of measuring surface vs. datum surface		Straightness of measuring surface		Straightness of datum surface	
	Precision grade(μm)					
	00	0	00	0	00	0
100x63	2	4	1	1	1	1
160x100	2	4	1	2	1	1
250x160	2.5	5	1	2	1	2
400x250	3.5	7	1	2.5	1	2
630x400	4.5	9	1.5	3	1	2.5
1000x630	6	12	2.5	5	1.5	3



Size (mm)	Flatness of working surface and parallelism of opposite surfaces		Squareness between datum surfaces		Tolerance of H.w. between A matched pair	
	Precision grade ( $\mu\text{m}$ )					
	00	0	00	0	00	0
160x25x16	1.5	3	20	40	1.5	3
250x40x25	2	4	30	60	2	4
400x63x40	4	8	40	80	4	8
630x100x63	6	12	50	100	6	12



Granite Parallel Ruler  
**MTG-004**



Granite Square Gauge  
**MTG-005**

Size(mm)	Squareness between measuring surface and datum surface		Flatness and straightness of measuring surface		Flatness and straightness of datum surface	
	Precision Grade ( $\mu\text{m}$ )					
	00	0	00	0	00	0
160x160	2	4	0.8	1.7	2	4
200x200	2	4	0.9	1.8	2	4
250x250	2.2	4.5	1	2	2.2	4.5
300x300	2.6	5.2	1.1	2.3	2.6	5.5
400x400	3	6	1.3	2.6	3	6
500x500	3.5	7	1.5	3	3.5	7
600x600	4.5	9	2	4	4.5	9
800x800	5	10	3	6	5	10
1000x1000	6	12	4	8	6	10

1) Function:

It is used for inspecting the radial run-out, ovality, end surface precision of the axial and disk parts.

2) Characters:

·It is equipped with the granite pedestal, which improves the precision of the instrument.

·It can be worked in any place of the pedestal

·Resistance to rust, easy to operate and keep

Size (mm)	Measured length ( mm )	Measured diameter ( mm )	Precision tolerance ( $\mu\text{m}$ )
300	$\leq 300$	$\leq 340$	$\leq 2$
500	$\leq 500$	$\leq 340$	$\leq 3$
1000	$\leq 1000$	$\leq 340$	$\leq 5$
1500	$\leq 1500$	$\leq 340$	$\leq 6$



Granite Deflection Tester  
**MTG-006**



Deflection Tester(Common)  
**MTD-001**

Size (mm)	Center Height (mm)	Measuring diameter (mm)	Precision	
			Horizontal (μm)	Vertical (μm)
200	100	200	≤ 8	≤ 5
300	100	200	≤ 8	≤ 5
300	170	340	≤ 8	≤ 5
300	300	600	≤ 8	≤ 5
500	170	340	≤ 8	≤ 5
500	250	500	≤ 8	≤ 5

1) Function:

It is used for inspecting the radial run-out ,circular run-out and end surface circular run-out of the axial or disk parts .

2) Characters:

·Novel design,nice shape,high precision and easy to operate.

Size (mm)	Center Height (mm)	Measuring diameter (mm)	Precision	
			Horizontal (μm)	Vertical (μm)
500	300	600	≤ 8	≤ 5
1000	250	500	≤ 10	≤ 8
1000	300	600	≤ 10	≤ 8
1500	250	500	≤ 20	≤ 16
2000	230	460	≤ 30	≤ 20

1) Function:

It is used for inspecting the radial run-out ,circular run-out and end surface circular run-out of high precision parts .

2) Characters:

·It is equipped with a apex(Moh's hardness 4#),which improves the precision. ·Increases the support weight of measured parts.

·Improves the sensitivity of the instrument.

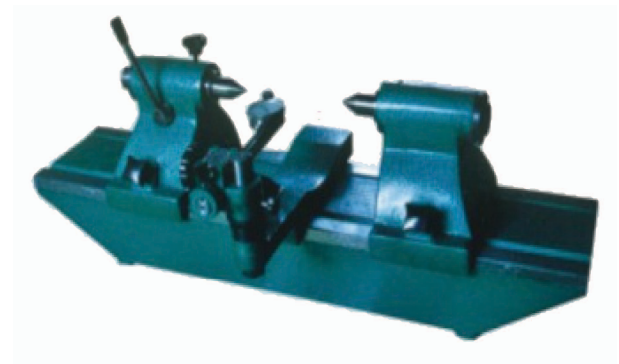
3) Parameters:

·Precision of radial rotation: 0.001mm

·Parallelism from the side guide to the edge line of apex: 0.005mm,0.008mm.

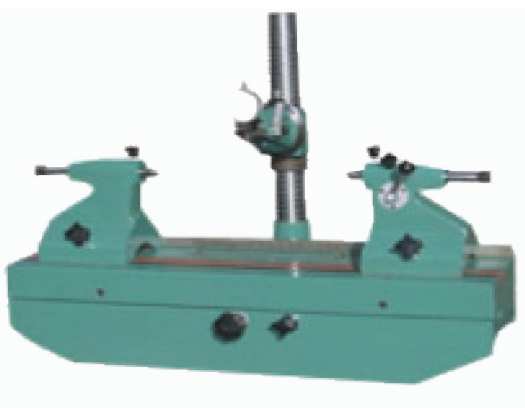
·Maximum diameter of measured parts: 250mm

·Maximum length of measured parts: 300m, 500mm



New Deflection Tester  
**MTD-002**

Deflection Tester



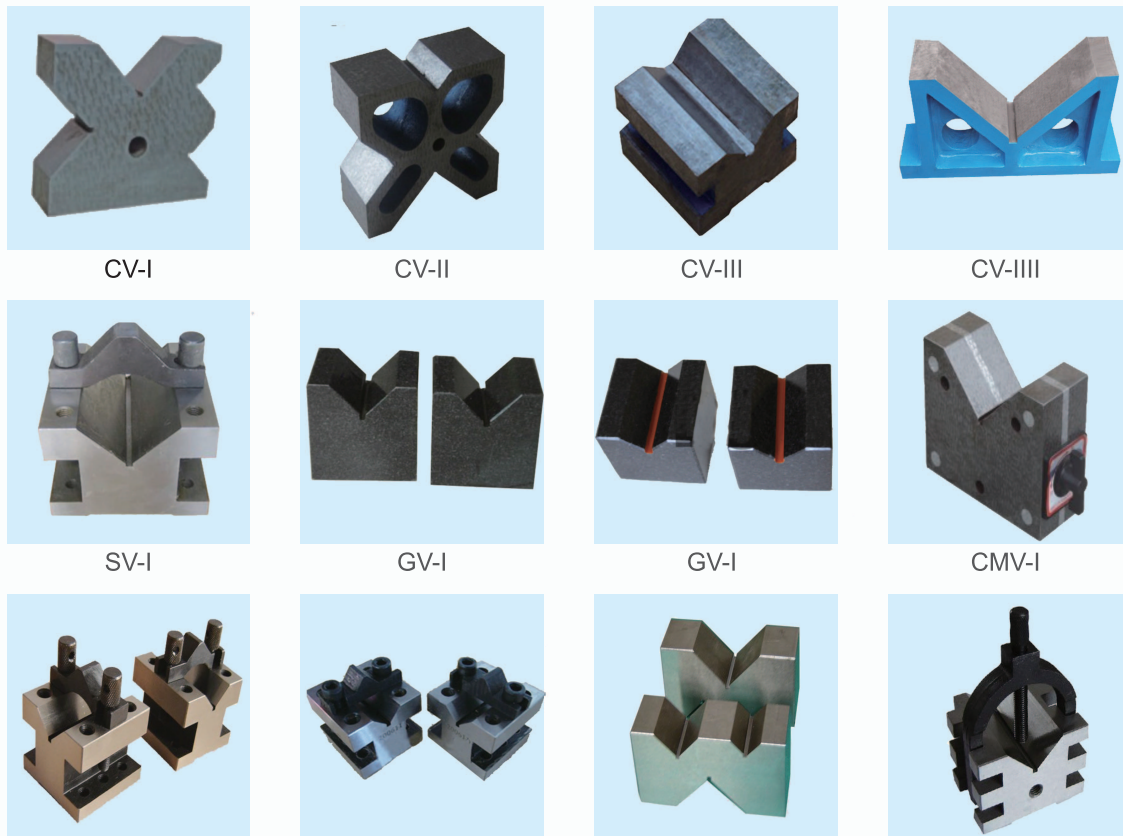
Tester for Gear Bouncing  
**MTD-003**

1) Function:

It is used for inspecting the radial run-out,face run-out of gears and worm with precision grade 6 and below.

2) Characters and Parameters:

Modulus of gears	0.3mm~2mm, 1~6mm		
The maximum diameter of gears	150mm~300mm		
Rotation range	±0°		
Resolution	0.001mm		
During 10 measurements, the value should be within the below stipulation			
	For smooth surface		For gears
without lever	1μm	without lever	3μm
with lever	2μm	---	---



### V-shaped Frame

1) Function:

It is used for detection, lineation, location of precision parts, as well as the clamping in the machine work.

2) Characters:

·Standard:GB4972-85

·Material:Tool Steel, HT200

·Usually supply in pairs

3) Category:

Size (mm)	Platness of working surface			Parallelism between v slot and bottom surface			Parallelism between v slot and side surface			Symmetry between v slot and end surface			Perpendicularly between v slot and end surface			
	Precision grade (μm)															
	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2	
CV-I	100*80*30	1	2		3	6										
	150*125*45	1.2	2.5		4	8										
CV-II	100*100*65					10	20		10	20		20	40			
	150*150*80					15	25		15	25		30	50			
	200*200*90					15	25		15	25		30	50			
	300*300*120					20	30		20	30		40	60			
CV-III	35*35*30	1	2	3	2.5	5	10	2.5	5	10	5	10	20	5	5	10
	60*60*50	1	2	3	2.5	5	10	2.5	5	10	5	10	20	5	5	10
	105*105*80	1.5	3	5	4	8	15	4	8	15	8	16	30	8	8	15
CV-III	150*100*80	2	4	6	4	8	15	4	8	15	8	16	30	8	8	15
SV-I	35*35*40	1	2	3	2.5	5	10	2.5	5	10	5	10	20	5	5	10
	60*60*50	1	2	3	2.5	5	10	2.5	5	10	5	10	20	5	5	10
	105*100*80	1.5	3	5	4	8	15	4	8	15	8	16	30	8	8	15
GV-I	60*60*60	1.5	3		4	8		8	16		8	8		4	8	
	100*100*80	2	4		4	8		4	8		8	16		8	8	
	160*100*160	2.5	5		5	10		5	10		10	20		10	10	
CMV-I	60*60*60	1.5	2	3	2.5	6	12	3	6	12	6	12	22	6	6	12
	100*60*100	1.5	3	5	4	8	15	4	8	15	8	16	30	8	8	15
	150*60*120		4	6		10	20		10	20		20	40			
	200*70*150															
	300*80*220															



Damping Vibration Shim Plate  
**MTS-001**

1) Function:

It is used for supporting machine and adjusting level, thus to damp vibration and reduce noise.

2) Characters:

·Standard:JB/T6607-93

·Type: stationary and mobile

3) Parameters:

Size(mm)	Bolts	Adjusted height (mm)	loading capacity (kg)
Ø40x15	M5x30	5	25
Ø80x25	M10x80	8	250
Ø120x32	M12x100	12	1200
Ø160x35	M16x120	12	3500
Ø185x40	M20x160	12	4200
Ø200x55	M22x160	12	6500
Ø250x60	M24x180	12	7500
Ø315x70	M30x200	12	9500

1) Function:

It can reduce the machine itself vibrates, and prevent the external vibration incoming, thus to guarantee the processed precision and quality.

2) Characters:

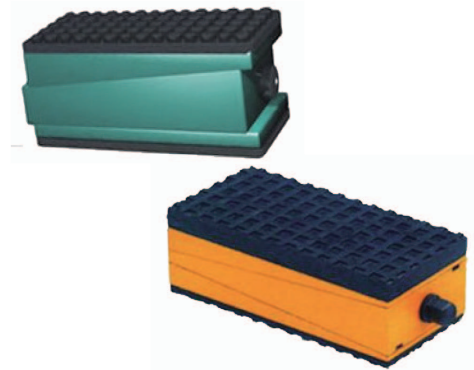
·Material of pad: Butyronitrile synthetic rubber

·Adjust the machine tool position according to production, thus to save the cost of secondary installation

·Three layers

3) Parameters:

Size (mm)	Bolts(mm)	Adjusted height (mm)	loading capacity (kg)
160x80x65	M14	5	600
200x100x70	M16	8	1200
240x120x90	M18	10	1600
300x170x110	M24	12	3500



Damping Vibration Shim Plate  
With Three Layers  
**MTS-002**

1) Function:

It is used for supporting machine and adjusting level, thus to damp vibration and reduce noise.

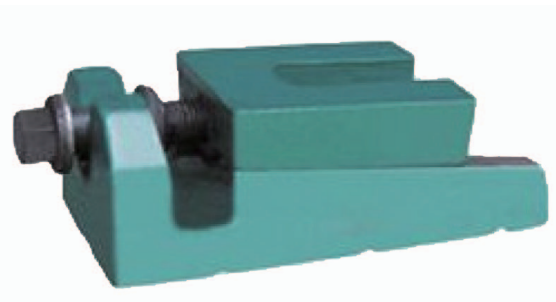
2) Characters:

·Standard:JB/T8775-98

·Including: Two and three layers

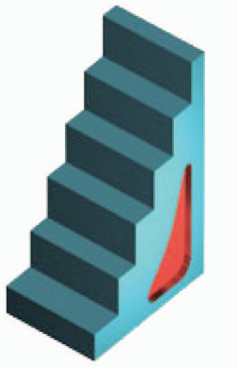
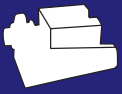
3) Parameters:

Size (mm)	Adjusted height (mm)	loading capacity (kg)
135x50x40	4	600
160x80x55	5	1200
200x90x55	6	2000
220x110x60	8	3500
240x120x70	10	4000
280x130x80	10	4500
300x140x100	12	5000



Adjusting Shim Plate  
**MTS-003**





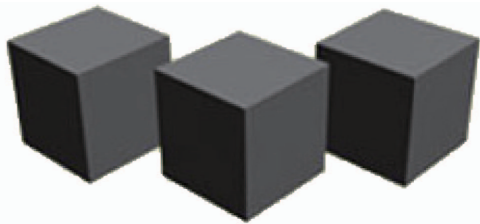
Shim Plate with Steps  
**MTS-004**

- 1) Function:  
It is used for supporting machine and adjusting level, thus to damp vibration and reduce noise.
- 2) Characters:  
·Standard:JB/T8775-98  
·Including fixed and mobile type
- 3) Sizes:  
120x120x50                      120x90x50

- 1) Function:  
It is used for supporting machine and adjusting level, thus to damp vibration and reduce noise.
- 2) Characters:  
·Processing:Forge, Cast and steel plate manufacturing  
·It can be made as any shape and used in any industry.  
·Durable, anti-distortion,weldable
- 3) Parameters:  
·To meet the equipment request,the flatness must be below 0.02mm, smooth finish reach to 0.8 after abrasive machining.  
·Parallelism can reach to 0.1mm for two shim plates combination



Oblique Shim Plate  
**MTS-005**



Contour Shim Plate  
**MTS-006**

- 1) Function:  
It is used for the lineation of machine parts and the datum of machining.
- 2) Characters:  
·Selectable shape and size  
·It provides the supported point,line and plane for hammering
- 3) Sizes:  
30x30x30    40x40x40    50x50x50    60x60x60

- 1) Function:  
It is used for inspecting the supporting capacity, also for lineation.
- 2) Characters:  
·Standard: JB/T3411.58-99  
·Material:Cast iron, steel  
·Flat head and tip head
- 3) Parameters:

Size (mm)	Height (mm)	Outer diameter (mm)
Ø35x60	60	35
Ø50x80	80	50
Ø70x100	100	70
Ø100x150	150	100

.....                      .....



Lifting Jack  
**MTS-007**

1) Function:

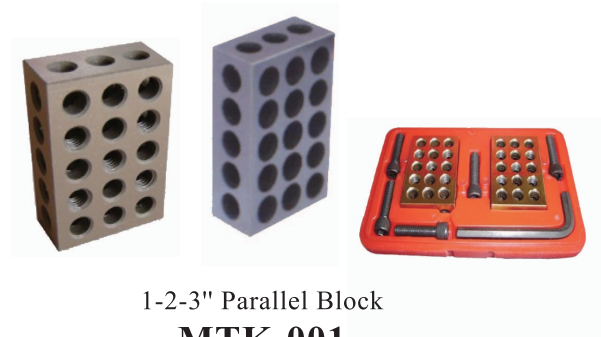
It is used for installation, design and checking work.

2) Characters :

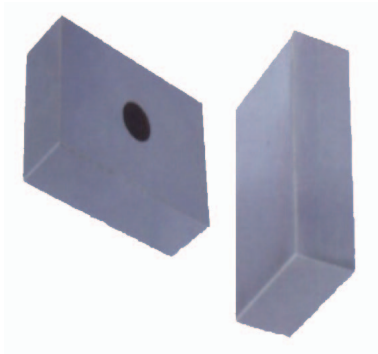
- Material:High-Quality Steel
- Finishing:Titanize,Plain
- Hardness:HRC55-62

3) Parameters:

Parallel range	Squareness	Size range	Hole
0.0002"	0.0003"/1" 0.0001"/1"	±0.0002" 0~0.0003"	11
0.0002"	0.0003"/1" 0.0001"/1"	±0.0002" 0~0.0003"	23



1-2-3" Parallel Block  
**MTK-001**



1-2-3" Parallel Block with No Hole or One Hole  
**MTK-002**

1) Function:

It is used for installation, design and checking work.

2) Characters :

- Material:High-Quality Steel
- Hardness:HRC55-62
- No hole or One hole

3) Parameters:

Parallel range	Squareness	Size range	Hole
0.0002"	0.0003"/1"	±0.0002"	No hole, One hole

1) Function:

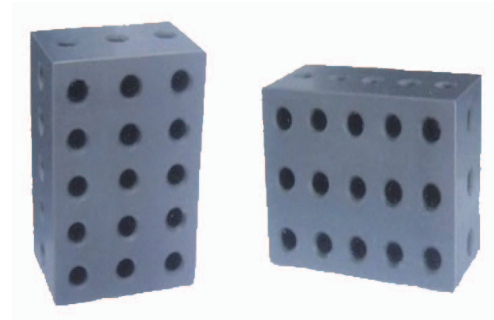
It is used for installation, design and checking work.

2) Characters :

- Material:High-Quality Steel
- Hardness:HRC55-62

3) Parameters:

Parallel range	Squareness	Size range	Hole
0.0003"	0.0003"/1"	0~0.0003"	23



2-3-4" Parallel Block  
**MTK-003**



4-6-8" Parallel Block  
**MTK-004**

1) Function:

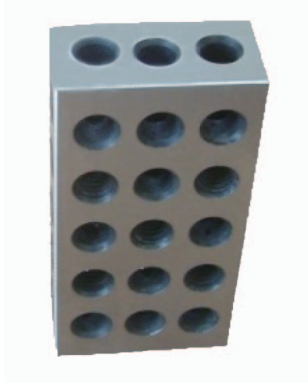
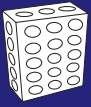
It is used for installation, design and checking work.

2) Characters :

- Material:High-Quality Steel
- Hardness:HRC55-62

3) Parameters:

Parallel range	Squareness	Size range	Hole
0.0005"	0.0005"/1"	±0.0005"	23



Metric Parallel Block  
**MTK-005**

- 1) Function:  
It is used for installation, design and checking work.
- 2) Characters :  
·Material:High-Quality Steel  
·Hardness:HRC55-62
- 3) Parameters:

Specification	Parallel range	Size range	Hole
25-50-75mm	0.005mm	±0.005mm	23
25-50-100mm		±0.005mm	
50-100-150mm		±0.0125mm	

- 1) Function:  
It is used for installation, design and checking work.
- 2) Characters :  
·Material:High-Quality Steel  
·Hardness:HRC55-62
- 3) Parameters:



Metric Parallel Block  
**MTK-006**

Specification Size	Pcs
100x4x (10, 14, 18, 22, 26, 30, 34, 38, 42)	9
160x4x (10, 14, 18, 22, 26, 30, 34, 38, 42)	9
150x8.5x (14, 16, 20, 24, 30, 32, 36, 40, 44)	9
100x (5x16, 6x18, 8x24, 10x30) 150x (12x36, 14x48, 18x60, 22x62) 200x31x15x2.5	9
63x (2.5x8, 3.2x10, 4x12, 5x16, 6.3x20, 100x (4x12, 5x16, 6.3x20, 8x25)	9
150x10x (14, 16, 20, 24, 30, 32, 36, 40, 44)	9
150x10x (14, 16, 18, 20, 22, 24, 26, 28, 30, 32)	10
150x3x (13, 16, 19, 22, 25, 28, 31, 35, 38, 41)	10
150x4.6x (20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 44)	12
150x10x (14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40)	12
120x10x (14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40)	12
150x10x (14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50)	14
150x3x (14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50)	14
150x4x (14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50)	14
150x5x (14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50)	14

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