



Ultra holding power magnetic stand **250 kgf**  
Professional precision Bench Centers

**Professional Manufacturer**



*Professional technology, Heart service*



**HANN YAN PRECISION IND. CO., LTD.**

# Company Profile

Hann Chang enterprise, founded in 1991 and the principal business was only the inner diameter grinding initially. Setting up additional mold department for customers to develop and design exclusive molds and fixtures on next year. The customers demand the processing accuracy day by day increased, but our bench centers and magnet stand inspection are not enough for us to meet customer requirement due to its quality. Therefore Han Yann Precision Industry Co., Ltd. was established in 2009, and thus their own R & D design, manufacturing magnetic stand and bench centers related products. It won Japan and a number of new national invention patent. Han Yann itself will use their practical experience to supply with the consumers more accurate, more stable quality, processing and inspection smoother on the industrial measuring instruments. Accumulated 20 years have been awarded the highly positive evaluation of the domestic and foreign customers.

High precision, well stability and durability are main reason to get the customer's trust.

Business philosophy : **【 Professional technology, heart service 】**

Quality first, honest service, research and innovation, excellence, and sustainable management.

The company will be more positive and innovative research and development of new products to meet the different needs of customers of various measurement instruments. At the same time, we will be more professional 、 innovation 、 responsibility 、 positive attitude of excellence to continue efforts and move forward. Hope to provide a higher quality for the industrial measuring instruments.



# Company Profile

## Our Inspecting Equipment



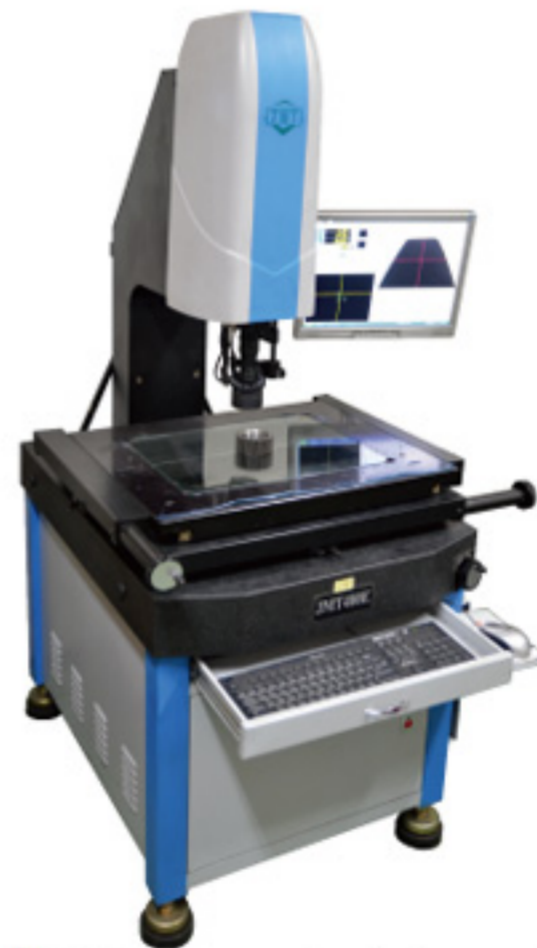
3D measuring instrument



Roundness tester



2D measuring instrument



Vision measuring instrument

## Patented Certificate Document





# Concentricity Gauge



Model No.: **CRL901X**

- Metal base
- X axis slide moved and positioned easily
- Two indicator stands can be put any position
- Deflection & concentricity measurement
- Inner & outer diameter measure simultaneously



Model No.: **CRL905AX**

- Metal base
- X axis slide moved and positioned easily
- Two indicator stands can be put any position
- Deflection & concentricity measurement
- Inner & outer diameter measure simultaneously



Model No.: **CRL905G**

- Granite base
- Measuring with height gauge
- Indicator stand is not included
- For small shaft and parts measurement
- For measuring deflection only



Model No.: **CRL905GY**

- Granite base
- Y axial with slide table
- For measuring deflection only



Model No.: **CRL905GX**

- Granite base
- X axis slide moved and positioned easily
- Two indicator stands can be put any position
- For small shaft and parts measurement
- Inner & outer diameter measure simultaneously

## Specifications

Unit:mm

Model No.	Center Height	Concentric accuracy	Roundness accuracy	L / W / H	Parts diameter	Parts Length	Basic weight(KG)	Weight loaded (KGS.)
<b>CRL901X</b>	90	0.003	0.003	300 / 200 / 130	Ø3~40	Ø0~150	13	10
<b>CRL905AX</b>	90	0.003	0.003	300 / 200 / 140	Ø5~70	Ø0~150	15	10
<b>CRL905G</b>	90	0.003	0.003	300 / 300 / 160	Ø5~70	Ø0~150	25	10
<b>CRL905GY</b>	90	0.003	0.003	300 / 200 / 160	Ø5~70	Ø0~150	18	10
<b>CRL905GX</b>	90	0.003	0.003	300 / 200 / 160	Ø5~70	Ø0~150	20	10

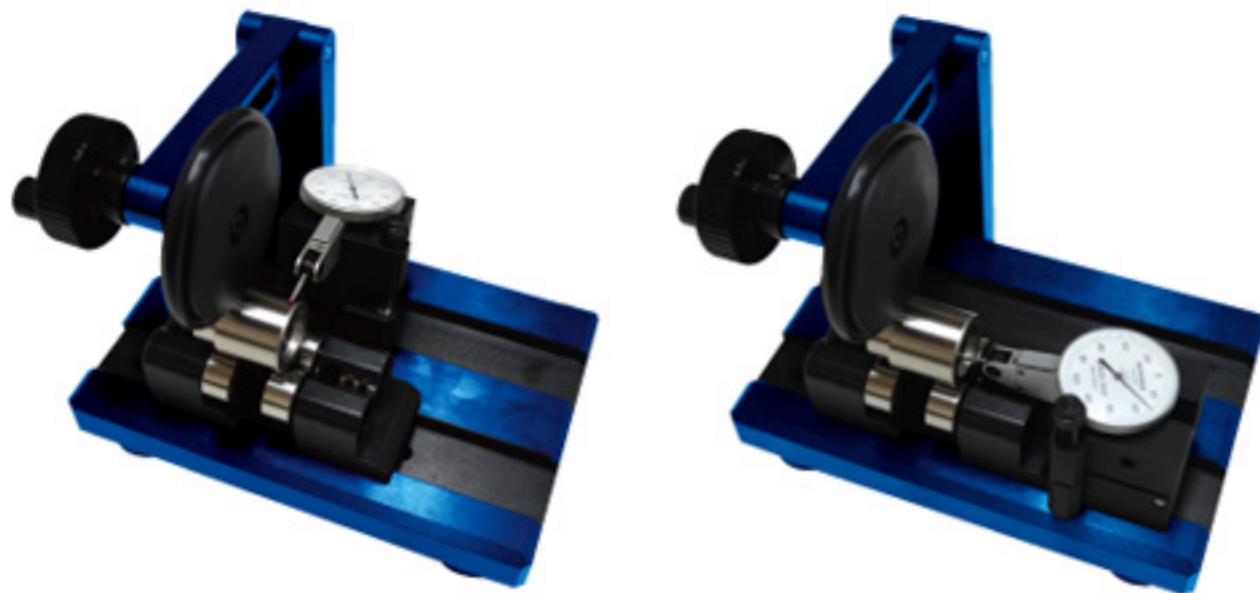
※ Tailstock use high graded cast iron.

※ Dovetail type dial gauge is not included.

※ Use for small parts such as shaft, tube, bush, screw etc...deflection and concentricity measuring inspection.

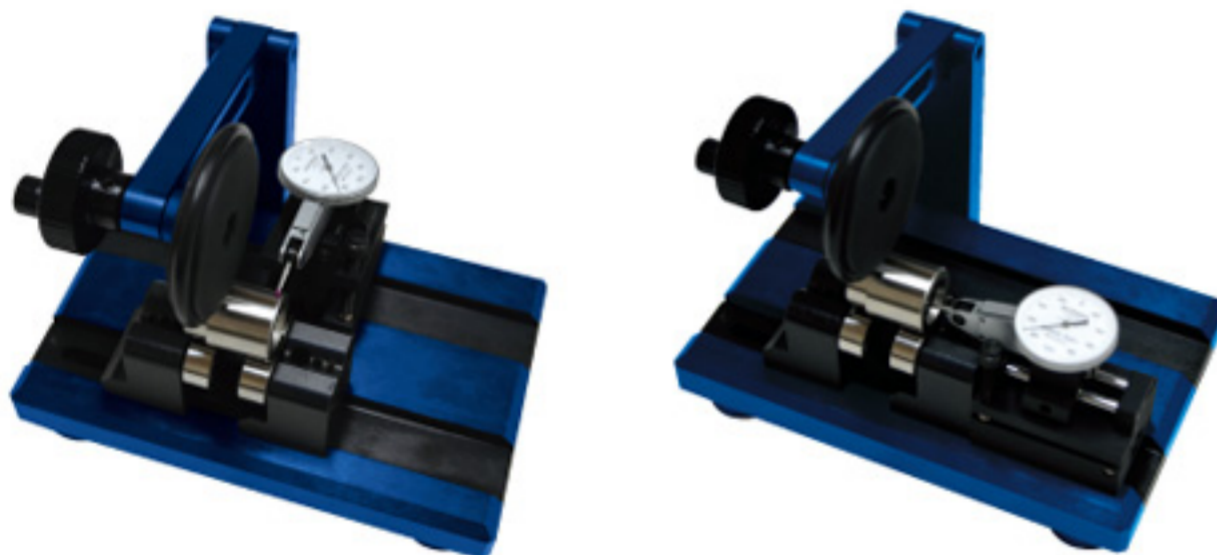
※ Equip with top press roller and parts stopper.

# Concentricity Gauge



## Model No. : **CRL902**

- Metal base.
- Tailstock can be moved and fixed by tool of hex wrench.
- Gauge stand can be moved up or down.
- Gauge stand can be moved by manual and stop at any position.
- Locking gauge stand does not need any tools.
- Gauge stand will be locked automatically when moving to any place.
- Deflection & concentricity have to measure separately.



## Model No. : **CRL902Y**

- Metal base.
- Tailstock can be moved and fixed by tool of hex wrench.
- Gauge stand can be moved up or down.
- Gauge stand can be moved by manual and stop at any position.
- Locking gauge stand does not need any tools.
- Gauge stand will be locked automatically when moving to any place.
- Y axial with slide table can move forward or backward.
- Deflection & concentricity have to measure separately.



## Model No. : **CRL902XY**

- Metal base.
- Tailstock can be moved and fixed by tool of hex wrench.
- Gauge stand can be moved up or down.
- Gauge stand can be moved by manual and stop at any position.
- Locking gauge stand does not need any tools.
- Gauge stand will be locked automatically when moving to any place.
- Y axial with slide table can move forward or backward.
- Deflection & concentricity measure simultaneously.
- Attached two gauge holder stand

## Specifications

Unit:mm

Model No.	Center Height	Concentric accuracy	Roundness accuracy	L / W / H	Parts diameter	Parts Length	Basic weight(KG)	Weight loaded (KGS.)
<b>CRL902</b>	21	0.003	0.003	180 / 135 / 165	Ø5~20	0~130	4.3	5
<b>CRL902Y</b>	31.5	0.003	0.003	200 / 145 / 175	Ø5~20	0~130	5.1	5
<b>CRL902XY</b>	31.5	0.003	0.003	200 / 145 / 175	Ø5~20	0~130	5.5	5

※ Equip with top press roller and parts stopper. ※ Dovetail type dial gauge is not included.

※ Use for small parts such as shaft, tube, bush, screw etc...deflection and concentricity measuring inspection.



# Concentricity Gauge

## Linear slide type



Model No.: **CRL909**

- Base & tailstock use cast iron
- Adapt heavy loaded bearing
- X axial is movable indicator stand
- For multi-stage I.D. & O.D. concentricity inspection
- Attached T-slot



Model No.: **CRL910Y**

- Base & tailstock use cast iron
- Adapt heavy loaded bearing
- Y axial with slide table
- Y axial can be moved forward and backward
- Attached T-slot



Model No.: **CRL911**

- Base & tailstock use cast iron
- Adapt heavy loaded bearing
- X axial is movable indicator stand
- Attached two indicator stands
- Inner & outer diameter measure simultaneously

## Linear slide type



Model No.: **CRL2S912Y**

- X.Y axial Dual slide type
- Y axial with slide table
- X axial attach extra indicator stand for concentricity measurement
- For multi-stage I.D. & O.D. concentricity inspection



Model No.: **CRL2S916Z2**

- X.Y. Z axial Dual slide type
- Height adjustable tailstock
- Y axial with slide table
- Z axial Z2 with drive wheel
- For multi-stage I.D. & O.D. concentricity inspection



Model No.: **ECRL2S933YS**

- X.Y axial Dual slide type
- Attached electric motor
- Y axial with slide table
- X axial with drive wheel
- For multi-stage I.D. & O.D. concentricity inspection

## Specifications

Unit:mm

Model No.	Center Height	Concentric accuracy	Roundness accuracy	L / W / H	Parts diameter	Basic weight(KG)	Weight loaded (KGS.)
CRL909	125	0.003	0.002	590 / 300 / 204	Ø5~100	33	30
CRL910Y	90	0.003	0.002	590 / 300 / 165	Ø5~70	32	10
CRL911	90	0.003	0.002	590 / 300 / 165	Ø5~70	32	10
CRL2S912Y	130	0.003	0.002	590 / 300 / 165	Ø8~80	44	10
CRL2S916Z2	130	0.003	0.002	590 / 300 / 165	Ø8~80	50	10
ECRL2S933YS	130	0.003	0.002	590 / 300 / 165	Ø8~80	44	10

- ※ Dovetail type dial gauge is not included.
- ※ Equip with top press roller and parts stopper.

- ※ Available for long shaft measuring inspection.



# 4

## Main Features

- ▶ A special surface hardened treatment, a substantial increase in service life.
- ▶ Innovative locking technology, dramatically improves measuring quality.
- ▶ The innovative module design, significantly extend the service life.
- ▶ Product more expanding ability, specifications are multi-combination.

## Design features

01. Using high quality cast iron material, the base surface with a special hardening treatment (HRC52 ± 2 °), precision stable and not easily deformed, significantly improve abrasion resistance and stability.
02. Tailstock is located by special design, do not cause to axial offset when moving the location. Tailstock can be locked by special type lever handle in any position, high accuracy.
03. Tailstock \ thimble and dial gauge stand modular design, parts replacement quick and easy, significantly extend the product life. Consumers have no need to re-purchase equipment due to it wear and tear.
04. Center entry/exit by press down lever type handle, measuring range: 20 ~ 25mm, easy to place the workpiece.
05. Z-axis with high precision and high rigidity standard stainless steel dial gauge holder. Locking mechanism with a special design, easy to operate and well stability. Vertical pole diameter : Ø20mm : Adjust pole diameter : Ø15mm. Gauge holder is available for dovetail type and stem Ø8mm flat type
06. X-axis is a special combination of toothless screw and slide design, to make quick move by hand level control valve. Hand wheel is micro adjustment. Expertise \ convenient operation. There is no fold gap difference.
07. Y-axis slide with a center location fine-tuning mechanism, convenient correction, workpiece replacement quickly
08. Y.Z axial Z1 is a special slide structure, to adjust up or down slightly by the knob of gear shaft, accurate and convenient.
09. Y.Z axial Z2 is a special combination of toothless screw and slide design, quick move up and down by control valve of lever handle, turn the hand wheel drive can be used for slight adjustments, precise and convenient operation, without times gap difference.
10. Y.Z axial Z3 is a special combination of linear slide and micrometer design can be adjusted slightly up and down by manual, moving fast and precision, no gap difference.
11. X.Z axial equipped with linear scale and digital gauge. It can be as multi-stage measurement and segment deviation detection. Linking with computer for record & printing.
12. Double roller of tailstock adapt heavy loaded bearing design. It also can avoid abrasion between parts and roller.

## Applications

01. Thimble type mainly used for the cylindrical shaft or disc-type workpieces deflection \ roundness \ concentricity \ axial parallelism...etc. the inspection of accuracy.
02. Roller type mainly used for same size cylindrical shaft of both ends; such as shaft or tube... etc. And check the workpiece deflection, roundness, concentricity, bending curvature, axial parallelism...etc. precision error of inspected measurement.
03. Applies to the processing site, tool rooms, laboratories, machine tools shop.



# Bench Centers

## Economic Type



Model No.: **MT520**

**Standard type**

- Center distance : 400mm
- Center height : 110mm



Model No.: **MT521**

**Standard type**

- Center distance : 300mm
- Center height : 80mm



Model No.: **MT522**

**V-block & Thimble Standard type**

- Center distance : 300mm
- Center height : 80mm



Model No.: **MVR523**

**Thimble 、 V-block & Roller**

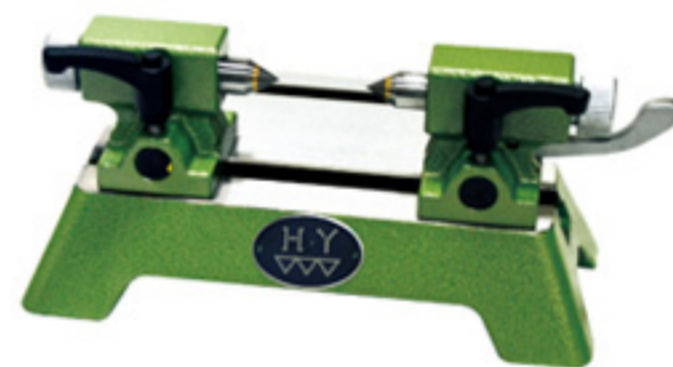
- Center distance : 300mm
- Center height : 80mm
- Multi-type combination



Model No.: **RL761**

**Roller standard type**

- Center distance : 300mm
- Center height : 80mm
- Adapt heavy loaded bearing
- Weight loaded : 40 KGS.



Model No.: **MT-118**

**Small type**

- Center distance : 100mm
- Center height : 45mm

## Specifications

Unit:mm

Model No.	Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Morse Tapper	Weight (KGS.)	Maximum Swing	Weight loaded (KGS.)
MT118	100	45	0.01	0.01	250 / 115 / 115	Ø16C08	9	Ø90	6
MT520	400	110	0.01	0.015	700 / 185 / 205	Ø20C12	44	Ø220	40
MT521	300	80	0.01	0.015	545 / 135 / 156	Ø16C08	14.7	Ø160	17.9
MT522	300	80	0.01	0.015	730 / 135 / 174	Ø16C08	15.4	Ø160	18.5
MVR523	300	80	0.01	0.015	545 / 135 / 174	Ø16C08	18.8	Ø160	21
RL761	300	80	0.01	0.015	545 / 135 / 148	...	14.5	Ø160	40

- ※ Suitable for general use measurements. Modular design for easy to replace and long service life.
- ※ Tailstock with a special locking mechanism design innovation, will not cause to the locking axial offset.
- ※ With T -slot can be highly scalable, easy to use.
- ※ Z-axis with high precision and high rigidity dial indicator holder. Well stability, high accuracy. Vertical pole diameter:  $\psi$ 15mm, adjust pole diameter:  $\psi$ 10mm. Gauge holder is available for dovetail type and stem  $\psi$ 8mm flat type (Dial stand & Dial gauge is not included)

# Bench Centers



Small Type



Model No. : **MT-100V**

- Vertical type, thimble travel adjustable**
- Upper MT use adjust knob control up and down
  - Push down hand lever when placing workpiece
  - Put on granite stand or machine side when measurement



Model No. : **MT-106H**

- Horizontal type, thimble travel adjustable**
- MT use adjust knob control forward and backward
  - Push down hand lever when placing workpiece
  - Put on granite stand or machine side when measurement



Model No. : **MT-113H**  
Right center operate by hand level



Model No. : **MT-115H**  
Right center operate by hand level



Model No. : **MT-113**

- Thimble travel adjustable**
- MT use adjust knob control forward and backward
  - Indicator stand with slide device
  - Y axial sideways measurement
  - Indicator stand height is same as center height
  - Put on granite stand or machine side when measurement
  - Gauge holder stand can be moved forward or backward



Model No. : **MT-115**

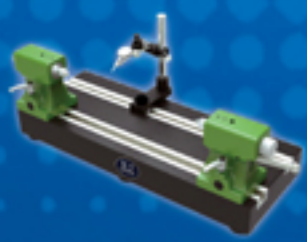
- Thimble travel adjustable**
- MT use adjust knob control forward and backward
  - Indicator stand with slide device
  - Y axial sideways measurement
  - Indicator stand height is same as center height
  - Put on granite stand or machine side when measurement
  - Gauge holder stand can be moved forward or backward

## Specifications

Unit:mm

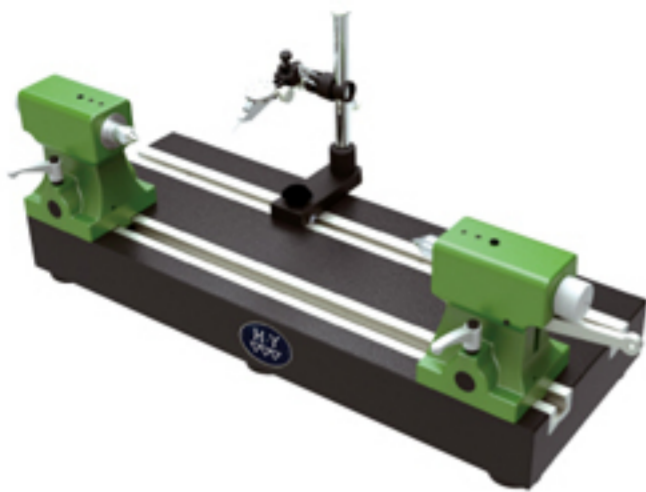
Model No.	Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Morse Tapper	Weight (KGS.)	Maximum Swing	Weight loaded (KGS.)
<b>MT-100V</b>	100	45	0.003	0.003	148 / 85 / 205	SKDØ12	9	Ø90	6
<b>MT-106H</b>	100	50	0.003	0.003	205 / 85 / 98	SKDØ12	7	Ø100	6
<b>MT-113</b>	0~75	40	0.003	0.003	138 / 114 / 70	SKDØ12	3.2	Ø80	4
<b>MT-113H</b>	0~75	40	0.003	0.003	138 / 114 / 70	SKDØ12	4.5	Ø80	4
<b>MT-115</b>	50~150	40	0.003	0.003	175 / 114 / 73	SKDØ12	3.7	Ø80	4
<b>MT-115H</b>	50~150	40	0.003	0.003	175 / 114 / 73	SKDØ12	5.0	Ø80	4

※ Dial gauge is not included.



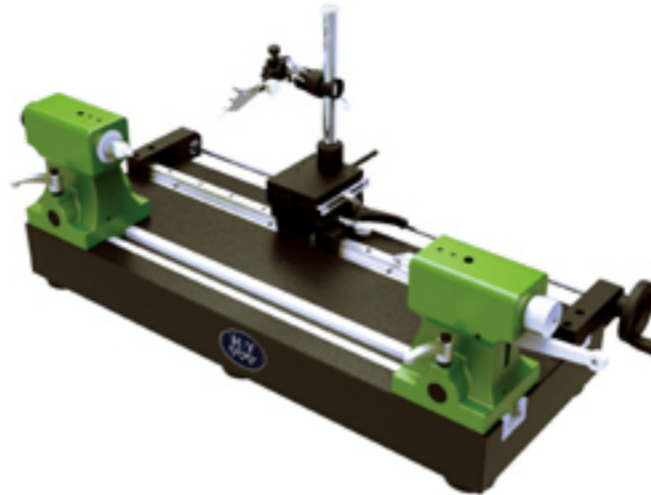
# Bench Centers

## Professional Granite Base Type



Model No.: **GBT526**

- Standard type



Model No.: **GBT1S526YS**

- Y axial mono-slide type
- Y axial with slide table
- Gauge holder stand can be moved forward or backward



Model No.: **GBT2S526Z2S**

- X.Y.Z axial dual-slide type
- Y axial with slide table
- X axial w/drive wheel
- Z axial w/Z2 drive wheel device

### Specifications

Unit:mm

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Morse Tapper	Basic weight (KGS.)	Maximum Swing	Weight loaded (KGS.)
300	90	0.005	0.006	590 / 195 / 175	MT1C08	38	Ø180	25
400	130	0.005	0.006	730 / 205 / 241	MT2C14	71	Ø260	60

- ※ Dial gauge is not included.
- ※ Center Height 90 can be used with MT2C14 : Center height 130 can be used with MT3C18 ---- Customer optional.
- ※ Center distance over 400 can be used with Center Height 200 or 300, but using 200 center height must reduce its center distance 80 and 300 Center height reduce 200, due to different center height will also have the different length of tailstock.
- ※ Use Z2 axial its center height at least 130mm.



Model No.: **GRL762**

- Roller standard type



Model No.: **GFRL1S784YS**

- X.Y axial mono slide type
- X axial w/drive wheel
- Y axial with slide table
- Gauge holder stand can be moved forward or backward



Model No.: **GERL2S848Z2S**

- X.Y.Z axial dual slide type
- X axial w/drive wheel
- Y axial with slide table
- Z axial w/Z2 drive wheel device
- Electric motor drive type

### Specifications

Unit:mm

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Parts Diameter	Basic weight (KGS.)	Weight loaded (KGS.)
300	90	0.006	0.006	590 / 195 / 106	Ø5~100	45	20
400	130	0.006	0.006	730 / 210 / 154	Ø5~150	77	30

- ※ Dial gauge is not included.
- ※ Use Z2 axial its center height at least 130mm.
- ※ Beyond these specifications can be special ordered.

# Bench Centers



## Professional Thimble Type

### Standard Type



Model No.: **MT526**

- Standard type

### Travel Adjustable Tailstock



Model No.: **MT529Y**

- Travel adjustable tailstock
- Drive wheel can move tailstock to right or left hand
- Y axial w/slide table

### Axial Type



Model No.: **MT526Y**

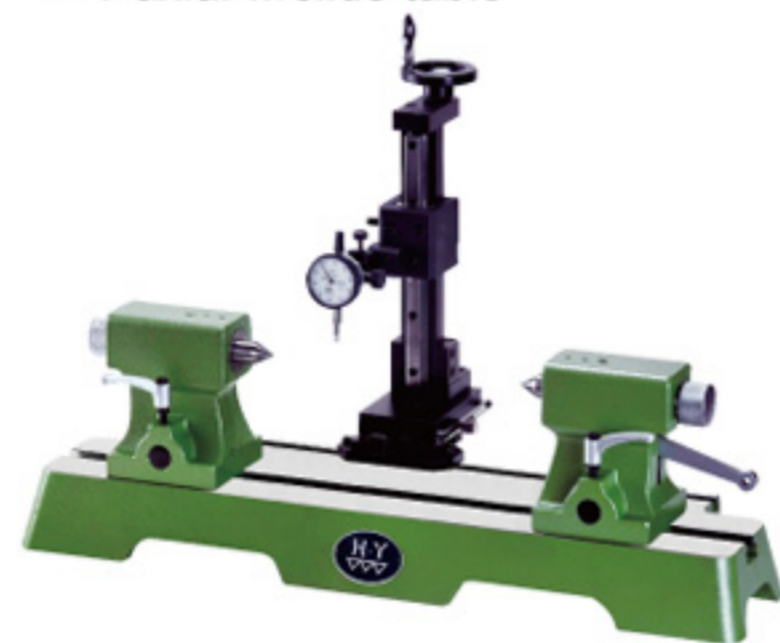
- Y axial type
- Y axial w/slide table

### Axial Type



Model No.: **MT526Z1**

- Y.Z axial type
- Y axial w/slide table
- Z axial w/Z1 adjust device



Model No.: **MT526Z2**

- Y.Z axial type
- Y axial w/slide table
- Z axial w/Z2 drive wheel device



Model No.: **MT526Z3**

- Y.Z axial type
- Y axial w/slide table
- Z axial w/Z3 micro device

## Specifications

Unit:mm

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Morse Tapper	Basic weight (KGS.)	Maximum Swing	Weight loaded (KGS.)
200	90	0.004	0.005	490/180/175	MT1C08	25	Ø180	25
300	90	0.004	0.006	590/195/175	MT1C08	34	Ø180	25
400	130	0.005	0.006	730/205/241	MT2C14	66	Ø260	60
600	130	0.006	0.007	930/220/250	MT2C14	89	Ø260	60
800	130	0.007	0.007	1130//220/250	MT2C14	97/115/151	Ø260	60
1000	130/200/300	0.008	0.008	1330/220/262(338/442)	MT2C14	114/132/168	Ø260/400/600	60/85/85
1200	130/200/300	0.012	0.01	1530/220/262(338/442)	MT2C14	162/180/216	Ø260/400/600	60/85/85
1500	200/300	0.015	0.012	1830/220/282(358/462)	MT4C18	221/239/275	Ø400/600	85/85
2000	200/300	0.02	0.02	23600/220/302(378/482)	MT4C18	337/355/391	Ø400/600	85/85

- ※ Center height 200,300 can be used with MT4C25 ----Customer optional. ※ Dial gauge is not included.
- ※ Center Height 90 can be used with MT2C14 ; Center height 130 can be used with MT3C18 ---- Customer optional .
- ※ Center distance over 400 to 1,000 can be used with Center Height 200 or 300, but using 200 center height must reduce its center distance 80 and 300 Center height reduce 200, due to different center height will also have the different length of tailstock.
- ※ Beyond these specifications can be special ordered, Center distance maximum 3000 mm.
- ※ Use Z1 & Z2 axial its center height at least 130mm.



# Bench Centers



## Professional Thimble Type

### V-Block Type



Model No.: **VMT581**

- V - block Standard type



Model No.: **VMT582**

- V - block & Thimble



Model No.: **VMT1S582YS**

- V - block & Thimble
- X.Y axial Mono-slide type
- X axial w/ drive wheel
- Y axial w/slide table

- Y axial slide travel : 74mm---General precision--standard equipment  
104 mm \ 124 mm---Precision grade---customer optional
- Y axial slide parallelism : General precision 0.02mm↓-- standard equipment  
High precision 0.005mm↓--customer optional

### Specifications

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Morse Tapper	Basic weight (KGS.)	Maximum Swing	Weight loaded (KGS.)
200	90	0.004	0.005	490 / 180 / 175	MT1C08	25	Ø180	25
300	90	0.004	0.006	590 / 195 / 175	MT1C08	34	Ø180	25

Unit:mm

- ※ Center height 90 can be used with MT2C14 ----Customer optional.    ※ Dial gauge is not included.
- ※ Beyond these specifications can be special ordered. Center distance maximum 3000 mm.

### Thimble adjustable Headstock

- Headstock thimble adjust range: 5-20mm. Suitable for clamping slender and small shaft over 4mm .  
Measuring workpiece do not change it shape.



Model No.: **AMT598**

- Standard type



Model No.: **AMT1S598**

- Mono-slide standard type



Model No.: **AMT1S598Y**

- X.Y axial mono-slide type
- Y axial w/slide table

### Specifications

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Morse Tapper	Basic weight (KGS.)	Maximum Swing	Weight loaded (KGS.)
200	90	0.004	0.005	490 / 180 / 175	MT1C08	25	Ø180	25
300	90	0.004	0.006	590 / 195 / 175	MT1C08	34	Ø180	25

Unit:mm

- ※ Center height 90 can be used with MT2C14 ----Customer optional.    ※ Dial gauge is not included.
- ※ Beyond these specifications can be special ordered. Center distance maximum 3000 mm.



# Bench Centers

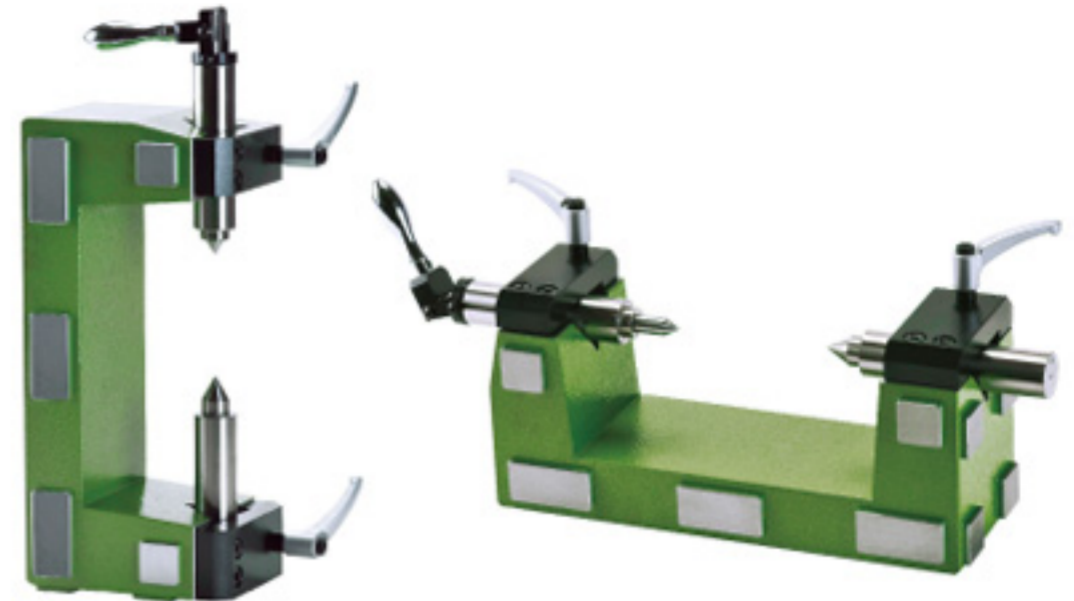
## Professional Thimble Type

### Vertical & Horizontal Type



Model No.: **VHMT605Y**

- Vertical & Horizontal type
- Y axial w/slide table, moving tailstock by drive wheel



Model No.: **VHMT-606**

- Vertical & Horizontal type

### Specifications

Unit:mm

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Upper MT	Lower MT	Basic weight (KGS.)	Maximum Swing	Weight loaded (KGS.)
200	80	0.004	0.005	330 / 120 / 160	MT1	MT3	22	Ø160	12
300	90	0.004	0.006	560 / 200 / 230	MT1C08	MT3C18	56	Ø180	25
400	130	0.005	0.008	680 / 200 / 270	MT2C14	MT3C18	78	Ø260	60

※ Center height 90 can be used with MT2C14 Center height 130 can be used with MT3C18 ----Customer optional.

※ Beyond these specifications can be special ordered. Center distance maximum 800 mm.

※ Dial gauge is not included.

### Sine Type

1. X.Y axial dual-slide type.
2. Angle measurement basis on Center, suitable for detection of arbor and tapered.
3. Applies to the processing site, tool rooms, laboratories, machine tools shop.
4. X axial linear slide can be fast horizontal movement :  
Y axial slide table can be fast moved back and forth, repeated location and quickly placed workpiece :  
Z axial equip with fine adjustment.
5. Specially use for the inspection of mass production.



Model No.: **SMT2S623Y**

### Specifications

Unit:mm

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	Angle measuring accuracy	L / W / H	Morse Tapper	Basic weight (KGS.)	Maximum Swing	Weight loaded (KGS.)
200	90	0.003	0.005	0.002	550 / 210 / 220	MT2C14	56	Ø180	25
300	90	0.003	0.005	0.002	650 / 210 / 220	MT2C14	76	Ø180	25

※ Center height 90 can be used with MT2C14 ----Customer optional.    ※ Dial gauge is not included.

※ Beyond these specifications can be special ordered. Center distance maximum 3000 mm.

# Bench Centers



## Professional Thimble Type

### Chuck Type

● Chuck accuracy : 100mm ----- 0.005mm.



Model No.: **CMT611Y**

- Y axial type
- Y axial w/slide table



Model No.: **CMT1S611Y**

- X.Y axial mono-slide type
- Y axial w/slide table



Model No.: **CMT612**

- Chuck & Thimble
- Standard type

### Specifications

Unit:mm

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Chuck dimension Working range	Morse Tapper	Basic weight (KGS.)	Maximum Swing	Weight loaded (KGS.)
200	90	0.004	0.005	490 / 180 / 175	SC-3" Ø5~80	MT1C08	30	Ø180	10
300	90	0.004	0.006	590 / 195 / 175	SC-3" Ø5~80	MT1C08	41	Ø180	10
400	130	0.005	0.006	730 / 205 / 241	SC-4" Ø5~100	MT2C14	75	Ø260	15
600	130	0.006	0.007	930 / 220 / 250	SC-4" Ø5~100	MT2C14	99	Ø260	15
800	130	0.007	0.007	1130 / 220 / 250	SC-4" Ø5~100	MT2C14	108	Ø260	15
1000	130	0.008	0.008	1330 / 220 / 262	SC-4" Ø5~100	MT2C14	125	Ø260	15

※ Beyond these specifications can be special ordered.

※ Dial gauge is not included.

※ Use linear scale its center height at least 130mm.

### Digital Meter & Computer Linkage



Model No.: **PMT2S676Z2SL**

- Standard type
- X.Y.Z axial dual-slide type
- X axial w/ drive wheel
- Y axial w/slide table
- Z axial w/Z2 drive wheel device
- X.Z axial w/ linear scale
- Including digital meter
- Linking with computer for record & printing



Model No.: **PMT2S677Z2SL**

- Electric motor drive type
- X.Y.Z axial dual-slide type
- X axial w/ drive wheel
- Y axial w/slide table
- Z axial w/Z2 drive wheel device
- X.Z axial w/ linear scale
- Including digital meter
- Linking with computer for record & printing



# Bench Centers

## Professional Thimble Type

### Electric Motor Drive Type



Model No.: **EMT625Y**

- Standard type
- Y axial type



Model No.: **EMT1S625YS**

- X.Y axial mono-slide type
- X axial w/ drive wheel
- Y axial w/slide table



Model No.: **EMT2S625YS**

- X.Y axial dual-slide type
- X axial w/ drive wheel
- Y axial w/slide table

### Multi-stage Measurement Type



Model No.: **EMT2S625Z2S**

- X.Y.Z axial dual-slide type
- X axial w/ drive wheel
- Y axial w/slide table
- Z axial w/Z2 drive wheel device
- Electric motor drive type



Model No.: **MT2S526Z2SL**

- X.Y.Z axial dual-slide type
- Standard type
- X axial w/ drive wheel
- Y axial w/slide table
- Z axial w/Z2 drive wheel device
- X.Z axial w/ linear scale
- Including digital meter



Model No.: **EMT2S625Z2SL**

- X.Y.Z axial dual-slide type
- Electric motor drive type
- X axial w/ drive wheel
- Y axial w/slide table
- Z axial w/Z2 drive wheel device
- X.Z axial w/ linear scale
- Including digital meter

## Specifications

Unit:mm

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Morse Tapper	Basic weight (KGS.)	Maximum Swing	Weight loaded (KGS.)
300	90	0.004	0.006	590/195/175	MT1C08	40	Ø180	25
400	130	0.005	0.008	730/205/241	MT2C14	73	Ø260	60
600	130	0.006	0.01	930/220/250	MT2C14	97	Ø260	60
800	130	0.007	0.01	1130//220/250	MT2C14	106/124/160	Ø260	60
1000	130/200/300	0.008	0.012	1330/220/262	MT2C14	123/141/177	260/400/600	60/85/85

- ※ Center height 200,300 can be used with MT4C25 ----Customer optional. ※ Dial gauge is not included.
- ※ Center Height 90 can be used with MT2C14 : Center height 130 can be used with MT3C18 ---- Customer optional.
- ※ Center distance over 400 to 1,000 can be used with Center Height 200 or 300, but using 200 center height must reduce its center distance 80 and 300 Center height reduce 200, due to different center height will also have the different length of tailstock.
- ※ For the installation of optical scale, center height at least 130 or more.
- ※ Use Z2 axial its center height at least 130mm. ※ Beyond these specifications can be special ordered.

# Bench Centers



## Professional Thimble Type

### Gear PCD Run Out Tester



Model No. : **GMT628R**

- Y axial slide type
- Measuring by hand

Probes : 2mm, 2.5mm, 3mm, 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm



Model No. : **GMT628F**

- Y axial fixed type
- By hand



Model No. : **GMT628CP**

- Y axial vertical type
- By Counter poise



Model No. : **GMT628H**

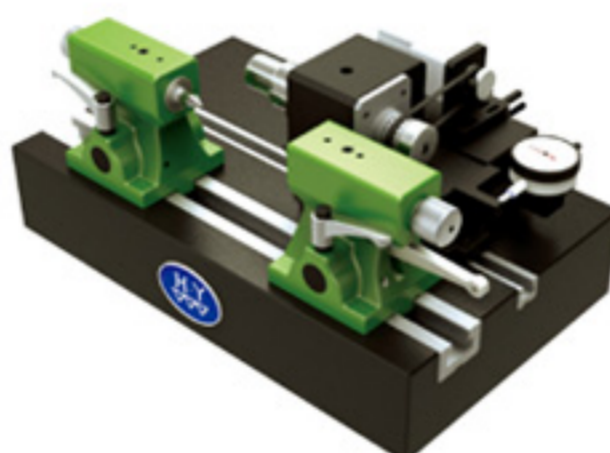
- Y axial vertical type
- By hand

### Double Flank Gear Rolling Tester



Model No. : **MT671DF**

- Standard type
- Measuring by manual drive standard component to rotate the workpiece
- Flank meshing on flank



Model No. : **EMT671DF**

- Electric motor drive type
- Measuring by motor drive standard components to rotate the workpiece
- Flank meshing on flank



Model No. : **EMT676W**

- Electric motor drive type
- Measuring by motor drive standard components to rotate the workpiece
- Rotating worm driven turbine flank meshing

### Specifications

Unit:mm

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	Engagement accuracy	L / W / H	Morse Tapper	Basic weight (KGS.)	Maximum Swing	Weight loaded (KGS.)
200	90	0.004	0.005	0.01↓	490/180/175	MT1C08	30	Ø180	25
300	90	0.004	0.006	0.01↓	590/195/175	MT1C08	40	Ø180	25
400	130	0.005	0.006	0.01↓	730/205/241	MT2C14	62	Ø260	60
600	130	0.006	0.007	0.01↓	930/220/250	MT2C14	95	Ø260	60
800	130	0.007	0.007	0.01↓	1130//220/250	MT2C14	103/120/156	Ø260	60
1000	130/200/300	0.008	0.008	0.01↓	1330/220/262	MT2C14	120/138/175	Ø260/400/600	60/85/85

※ Dial gauge is not included.

※ Beyond these specifications can be special ordered.



# Bench Centers

## Professional Roller type

### Standard Type



Model No.: **RL762**

- Stand type

### Axial Type



Model No.: **RL762Y**

- Y axial type
- Y axial with slide table



Model No.: **RL762Z1**

- Y.Z axial type
- Y axial with slide table
- Z axial w/Z1 adjust device

### Linear Slide Type



Model No.: **RL1S762YS**

- X.Y mono-slide type
- X axial w/drive wheel
- Y axial with slide table



Model No.: **RL2S762YS**

- X.Y dual-slide type
- X axial w/drive wheel
- Y axial with slide table



Model No.: **RL2S762Z2SL**

- X.Y.Z dual-slide type
- X axial w/drive wheel
- Y axial with slide table
- Z axial w/Z2 drive wheel device
- X.Z axial with linear scale
- Including digital meter

### Height Adjustable Tailstock Type

※ Center distance 90--- height adjustable 15mm  
Center distance 130--- height adjustable 30mm



Model No.: **HRL821**

- Standard A type



Model No.: **HRL825Y**

- Y axial B type
- Y axial with slide table



Model No.: **HRL1S821YS**

- X.Y axial mono-slide A type
- Y axial with slide table
- X axial w/drive wheel

# Bench Centers



## Professional Roller Type

### Flat Tailstock Type

- Y axial slide travel : 74mm---General precision---standard equipment  
104 mm \ 124 mm---Precision grade---customer optional
- Y axial slide parallelism : General precision 0.02mm↓-- standard equipment  
High precision 0.005mm↓--customer optional



Model No. : **FRL784**

- Standard A type



Model No. : **FRL785Y**

- Y axial B type
- Y axial with slide table



Model No. : **FRL787**

- Standard heavy duty type
- Weight loaded : 100 KGS.
- Parts diameter : Ø100~350



Model No. : **FRL1S784YS**

- X.Y mono-slide A type
- X axial w/drive wheel
- Y axial with slide table



Model No. : **FRL2S785Z1S**

- X.Y.Z axial dual-slide B type
- X axial w/drive wheel
- Y axial with slide table
- Z axial w/Z1 adjust device



Model No. : **FRL2S785Z2SL**

- X.Y.Z axial dual-slide B type
- X axial w/drive wheel
- Y axial with slide table
- Z axial w/Z2 drive wheel device
- X.Z axial with linear scale
- Including digital meter

## Specifications

Unit:mm

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Parts Diameter	Basic weight (KGS.)	Weight loaded (KGS.)
200	90	0.004	0.005	490/175/106	Ø5~100	27	10
300	90	0.004	0.006	590/195/106	Ø5~100	34	10
400	130	0.005	0.006	730/210/154	Ø8~150	68	20
600	130/200/350	0.006	0.007	930/220/154	Ø8~150	98/115/158	20/60/60
800	130/200/350	0.007	0.007	1130//220/154	Ø8~150	110/125/170	20/60/60
1000	130/200/350	0.008	0.008	1330/220/154	Ø8~150	130/145/190	20/60/60
1200	130/200/350	0.012	0.01	1530/275/154	Ø8~150	153/168/212	20/60/60
1500	200/350	0.015	0.012	1830/275/224	Ø8~150	205/240	60/60
2000	200/350	0.02	0.02	2430/275/224	Ø8~150	300/345	60/60

※ Slide type Center distance Maximum 1000mm.

※ Dial gauge is not included.

※ Beyond these specifications can be special ordered, the center distance maximum 4000mm.

※ Center distance 90--- height adjustable 15mm Center distance 130--- height adjustable 30mm.

※ Use Z1 & Z2 axial its center height at least 130mm.

※ Use linear scale its center height at least 130mm.



# Bench Centers

## Professional Roller Type

### Drive Wheel Tailstock Type



Model No.: **WRL848Y**

- Y axial
- Y axial with slide table

- Mono-slide moving accuracy:  
Accuracy (A): 330mm / 0.02mm, only for easy mobility measurements.  
Accuracy (B) : 300mm / 0.01mm↓---customer optional.
- Dual-slide moving accuracy:  
Flatness and travel accuracy: 1000mm/0.01mm



Model No.: **WRL1S848YS**

- X.Y mono-slide type
- X axial w/drive wheel
- Y axial with slide table



Model No.: **WRL2S848Z2SL**

- X.Y.Z axial dual-slide type
- X axial w/drive wheel
- Y axial with slide table
- Z axial w/Z2 drive wheel device
- X.Z axial with linear scale
- Including digital meter



Model No.: **WHRL880**

- Standard type
- Height adjustable Tailstock



Model No.: **WHRL1S880YS**

- X.Y axial mono-slide type
- Height adjustable Tailstock
- X axial w/drive wheel
- Y axial with slide table



Model No.: **WHRL2S880Z2SL**

- X.Y.Z axial dual-slide type
- Height adjustable Tailstock
- X axial w/drive wheel
- Y axial with slide table
- Z axial w/Z2 w/drive wheel device
- X.Z axial with linear scale
- Including digital meter

## Specifications

Center Distance	Center Height	Horizontal Parallelism	Vertical Parallelism	L / W / H	Parts Diameter	Basic weight (KGS.)	Weight loaded (KGS.)
300	90	0.004	0.006	590/195/106	Ø5~70	45	20
400	130	0.005	0.006	730/210/154	Ø8~80	77	30
600	130	0.006	0.007	930/220/154	Ø8~80	108	30
800	130	0.007	0.007	1130//220/154	Ø8~80	115	30
1000	130	0.008	0.008	1330/220/154	Ø8~80	130	30

- ※ Slide & hand wheel type Center distance Maximum 1000mm.      ※ Dial gauge is not included.
- ※ Center distance 90--- height adjustable 15mm. Center distance 130--- height adjustable 30mm.
- ※ Use Z2 axial its center height at least 130mm.      ※ Attached top press roller and parts stopper.
- ※ Use linear scale its center height at least 130mm.

# Bench Centers



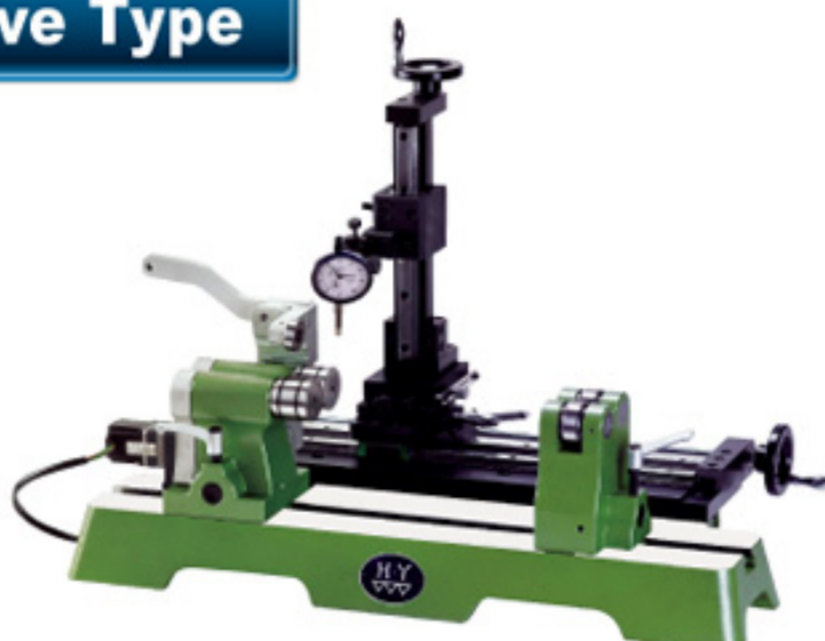
## Professional Roller Type

### Electric Motor Drive Type



Model No.: **ERL2S920YS**

- X.Y axial dual-slide type
- X axial w/drive wheel
- Y axial with slide table



Model No.: **ERL2S920Z2S**

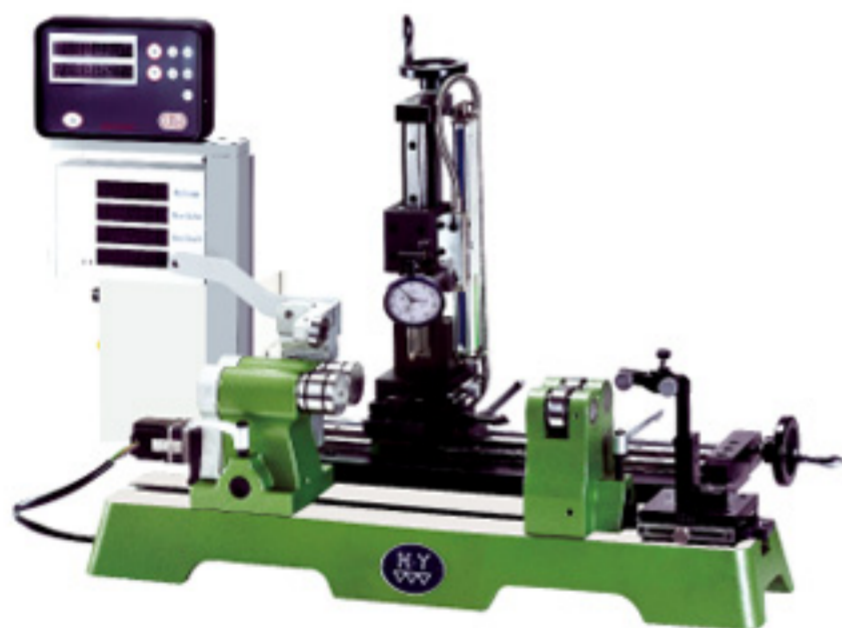
- X.Y.Z axial dual-slide type
- X axial w/drive wheel
- Y axial with slide table
- Including digital meter



Model No.: **ERL2S925Z2SL**

- X.Y.Z axial dual-slide type
- Height adjustable Tailstock
- X axial w/drive wheel
- X.Z axial with linear scale
- Y axial with slide table
- Z axial w/Z2/drive wheel device
- Including digital meter

### Computer Linkage Type



Model No.: **PRL2S941Z2SL**

- X.Y.Z axial dual slide type
- X axial w/drive wheel
- Y axial with slide table
- Z axial w/Z2 drive wheel device
- Linear scale on X or Z axial
- Including digital meter
- Linking with computer for record & printing
- Electric motor drive type
- Deflectio & Concentricity can be measured simultaneously



Model No.: **PRL2S944Z2SL**

- X.Y.Z axial dual slide type
- Height adjustable Tailstock
- X axial w/drive wheel
- Y axial with slide table
- Z axial w/Z2 drive wheel device
- Linear scale on X or Z axial
- Including digital meter
- Linking with computer for record & printing
- Electric motor drive type
- Deflectio & Concentricity can be measured simultaneously



# Bench Centers

## Optional Accesories



Model : **BCA-SD**  
No.

- Gauge holder stand



Model : **BCA-Z1**  
No.

- Y.Z axial
- Z1 slide table & adjust type



Model : **BCA-Z2**  
No.

- Y.Z axial
- Z2 slide table & drive wheel



Model : **BCA-Z3**  
No.

- Y.Z axial
- Z3 slide table & micro adjust



Model : **BCA-YS**  
No.

- Y axial slide table



Model : **BCA-TSC**  
No.

- Toothless screw clamp



Model : **BCA-TS**  
No.

- X axial toothless screw



Model : **BCA-LS**  
No.

- X.Z axial linear scale



Model : **BCA-GS**  
No.

- Slide type



Model : **BCA-GF**  
No.

- Fixed type



Model : **BCA-GCP**  
No.

- Counter poise type



Model : **BCA-GH**  
No.

- Hand press type



Model : **BCA-DFW**  
No.

- Worm type



Model : **BCA-DF1**  
No.

- Manual type



Model : **BCA-DF2**  
No.

- Electric motor drive type

# Bench Centers



## Optional Accesories



Model : **BCA-CP1**  
No.

- Top press roller



Model : **BCA-CP2**  
No.

- Top press roller



Model : **BCA-CS1**  
No.

- Y axial slide table
- Single gauge holder



Model : **BCA-CS2**  
No.

- Y axial slide table
- Double gauge holder



Model : **BCA-FMT**  
No.

- Fixed Morse Tapper
- MT1C10
- MT2C12
- MT3C18



Model : **BCA-RMT**  
No.

- Rotary Morse Tapper
- RMT1- C16. C20
- RMT2- C16. C20. C25
- RMT3- C20. C25. C30



Model : **BCA-BMT**  
No.

- Bevel Rotary Morse Tapper
- BMT1- C16. C20
- BMT2- C16. C20. 25
- BMT3- C20. C25. C30



Model : **BCA-IBT**  
No.

- T type Inspection bar



Model : **BCA-IBR**  
No.

- Round type inspection bar



Model : **BCA-SP**  
No.

- Support bracket

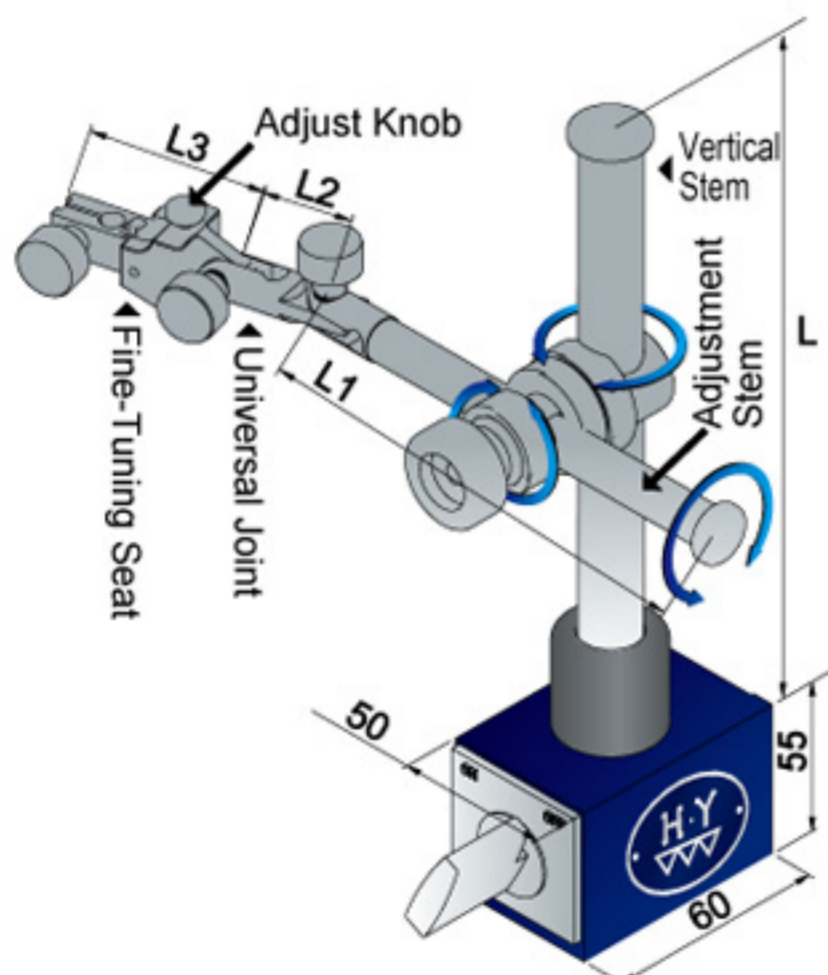


# Magnetic Indicator Stand

**Ultra Holding Power 250 kgf (2500N)**

## Design features

01. To improve the defect of existing products and re- innovation:
  - ⦿ Magnetic stand loose due to inadequate suction force and lead to dial indicator damage.
  - ⦿ Adjust the fixed knob is easy to loosen and lead to adjust pole cannot really fixed.
  - ⦿ Vertical pole lock with magnetic base solid link mechanism is poor and easy to broken & separate.
  - ⦿ Its gauge head is locked tightly and unable to move and process its measuring function after dial indicator locking in the fine-tuning seat.
  - ⦿ Magnetic base adsorption force is poor. It causes to loose and lead to dial indicator damage due to vibration and weight load when it adsorbs on the machine or sideways extend for the measurement. Poor measurement accuracy and could not do the repeatability of measurement.
02. Fixed adjustment knob using a special clamp design innovation, fine-tuning effortless and not easy to lose off.
03. The connected point of vertical pole and magnetic base was designed by special innovation. Not easy to split or disintegrate.
04. Powerful magnetic force generated the shock effect can avoid loose the measuring accuracy due to machine vibration.
05. Modular design, easy to replace the parts. Don't need to change new one when it broken, longer life.
06. Vertical  $\varnothing 20\text{mm}$  pole and horizontal  $\varnothing 15\text{mm}$  pole made of Stainless steel, well rigid and durable.
07. Indicator holder with universal joints, measurement range is wider. Applicable to variety indicators (Dovetail type, flat type, lug back type)
08. This product measuring length up to 1 M, 1 M arm extending its repeated measurement accuracy remains unchanged.
09. Ultra holding power magnetic base is our own R & D, excellent stability, Magnetic force: 250 kgf. (2500N).
10. Looking for the magnetic stand of high accuracy and stability is none other than this product.
11. This product has a new invention and patent in Japan and multi-nation, counterfeiting.



# Magnetic Indicator Stand



Without Universal Joint

## D - Dovetail Type & Flat Back Type



Unit:mm

Model No.	Vertical stem	Adjust stem	Universal joint	Indicator Connector	Holding power
	L	L1	L2	L3	
MG1-1D	130	164	0	55	250kgf
MG2-1D	225	164			
MG2-2D	225	260			
MG3-1D	300	164			
MG3-2D	300	260			
MG3-3D	300	360			
MG4-2D	400	260			
MG4-3D	400	360			
MG5-2D	500	260			
MG5-3D	500	360			

## L - Lug Back Type



Unit:mm

Model No.	Vertical stem	Adjust stem	Universal joint	Indicator Connector	Holding power
	L	L1	L2	L3	
MG1-1L	130	164	0	50	250kgf
MG2-1L	225	164			
MG2-2L	225	260			
MG3-1L	300	164			
MG3-2L	300	260			
MG3-3L	300	360			
MG4-2L	400	260			
MG4-3L	400	360			
MG5-2L	500	260			
MG5-3L	500	360			



# Magnetic Indicator Stand

With Universal Joint

## UD - Dovetail Type & Flat Back Type



Unit:mm

Model No.	Vertical stem	Adjust stem	Universal joint	Indicator Connector	Holding power
	L	L1	L2	L3	
MG1-1UD	130	164	35	55	250kgf
MG2-1UD	225	164			
MG2-2UD	225	260			
MG3-1UD	300	164			
MG3-2UD	300	260			
MG3-3UD	300	360			
MG4-2UD	400	260			
MG4-3UD	400	360			
MG5-2UD	500	260			
MG5-3UD	500	360			

## UL - Lug Back Type



Unit:mm

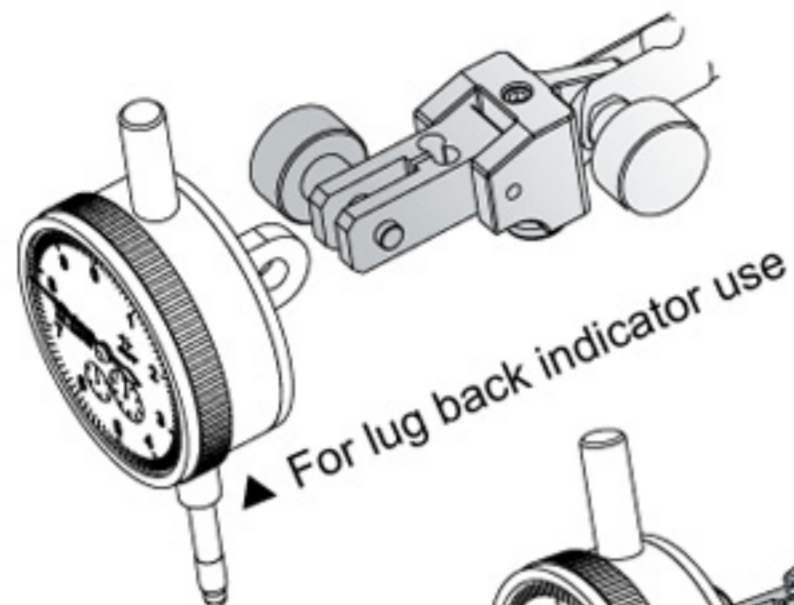
Model No.	Vertical stem	Adjust stem	Universal joint	Indicator Connector	Holding power
	L	L1	L2	L3	
MG1-1UL	130	164	35	50	250kgf
MG2-1UL	225	164			
MG2-2UL	225	260			
MG3-1UL	300	164			
MG3-2UL	300	260			
MG3-3UL	300	360			
MG4-2UL	400	260			
MG4-3UL	400	360			
MG5-2UL	500	260			
MG5-3UL	500	360			

# Magnetic Indicator Stand

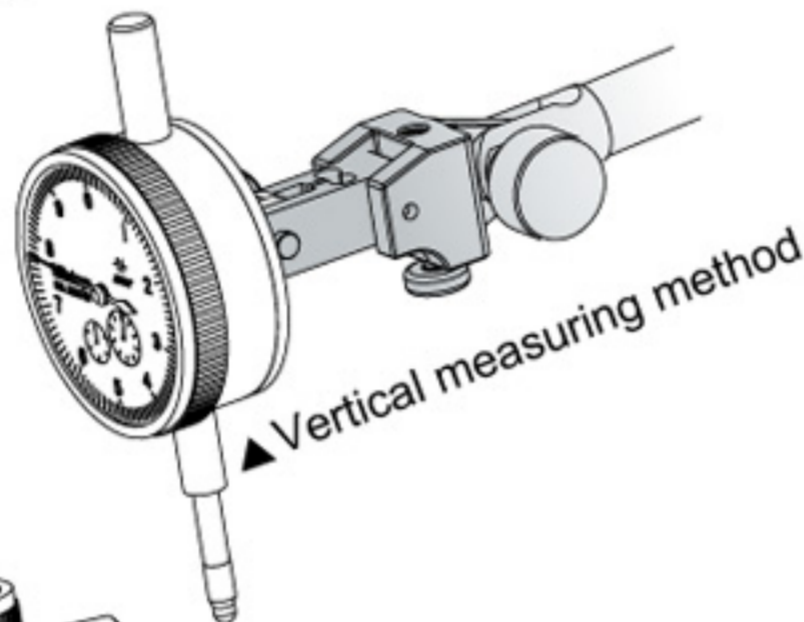


Ultra Holding Power 250 kgf (2500N)

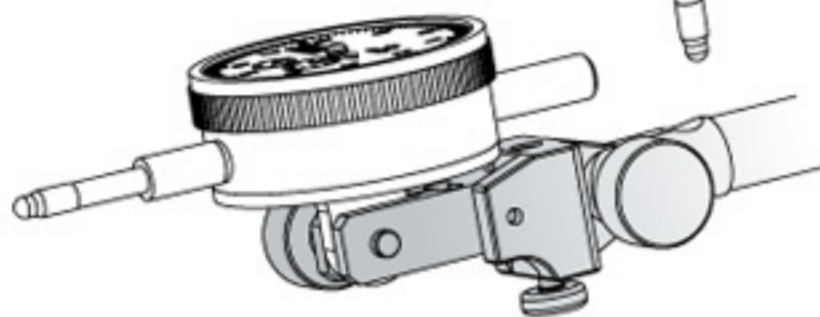
## Multi-direction Example



▲ For lug back indicator use

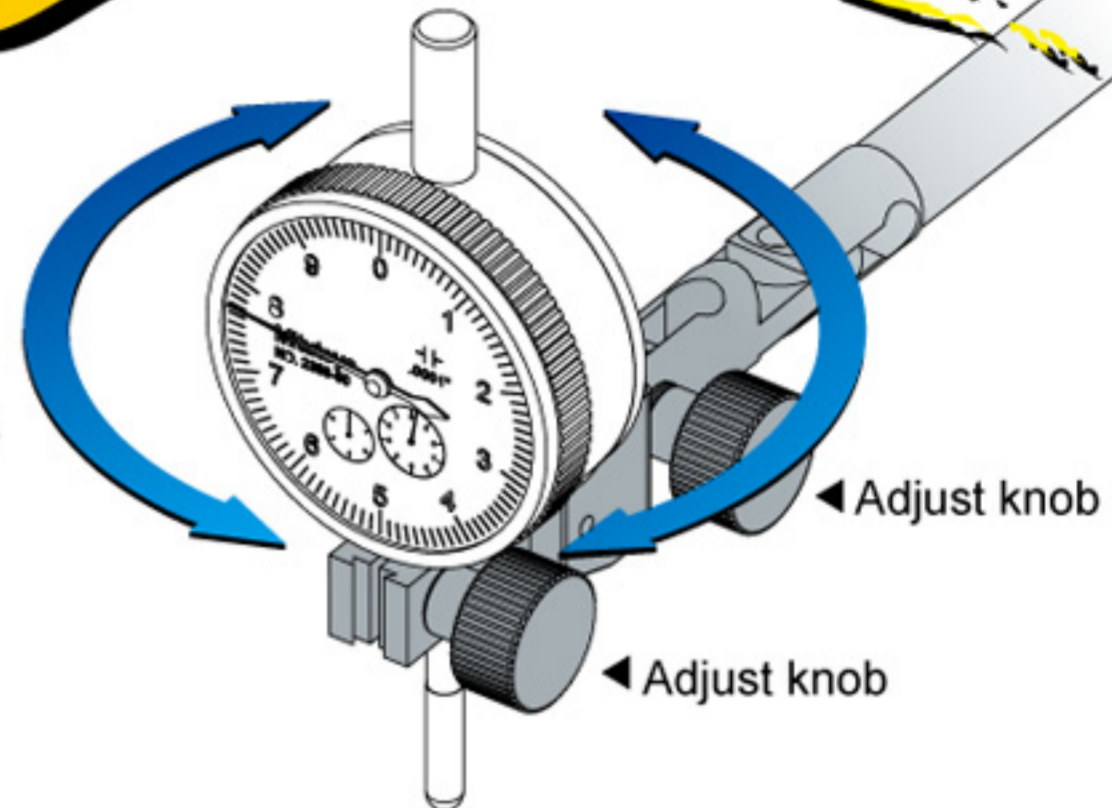


▲ Vertical measuring method



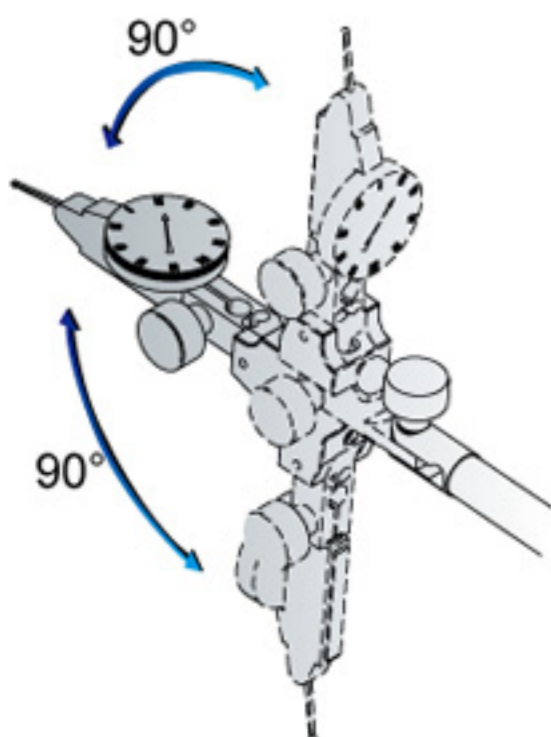
▲ Horizontal measuring method

Locking clamp strong, not easily rotate by external force

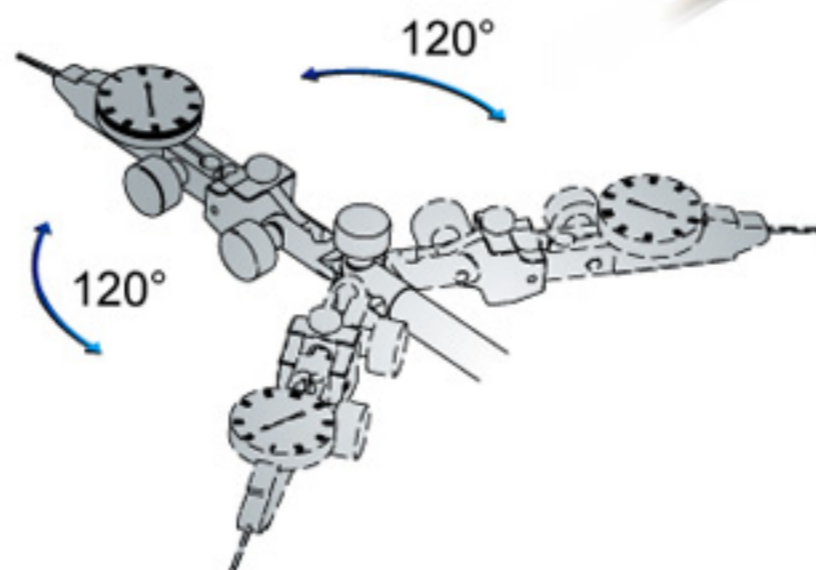


The gauge head still move freely after locking adjust knob

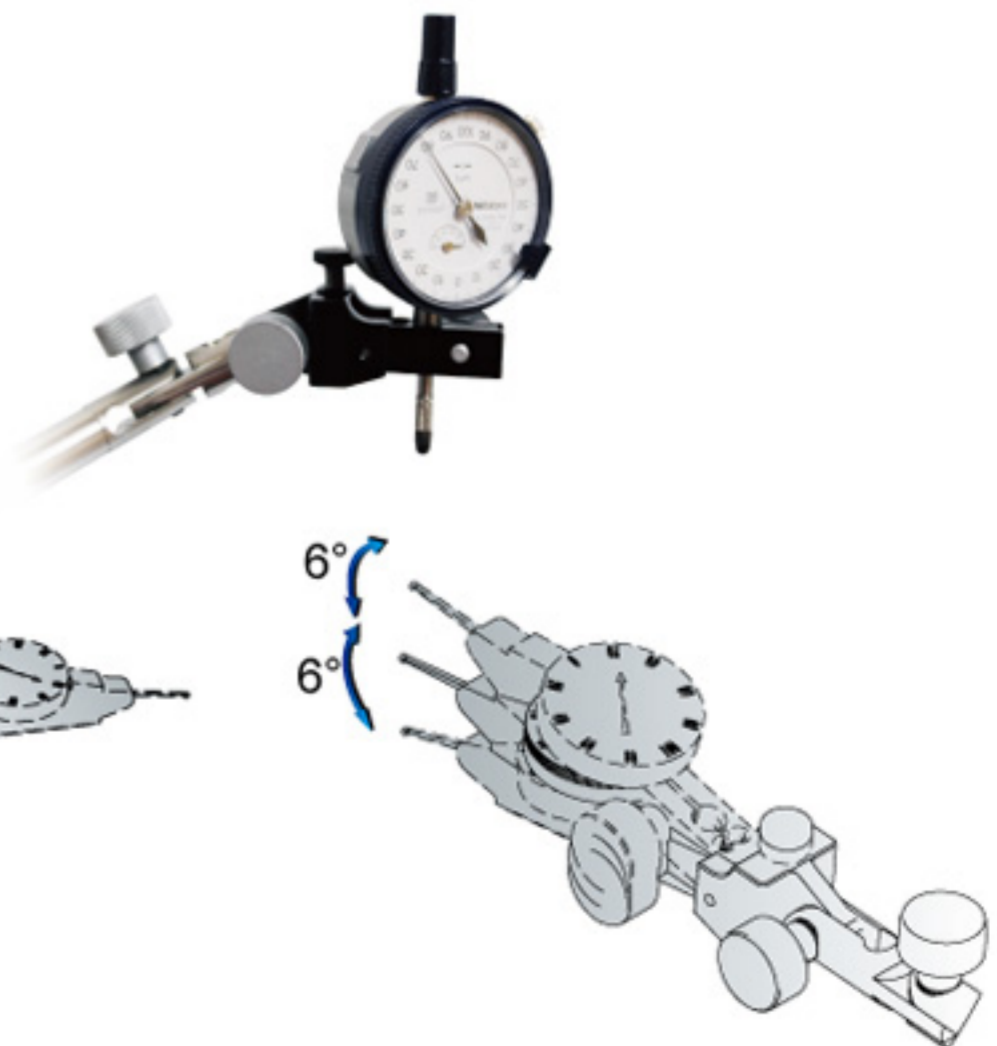
## Practical · High Performance · Stability



▲ Fine tuning seat can move up and down  $\pm 90^\circ$  rotation



▲ Universal joints can be rotated  $\pm 120^\circ$



▲ Fine tuning seat can move up and down  $\pm 6^\circ$

# Magnetic Indicator Stand

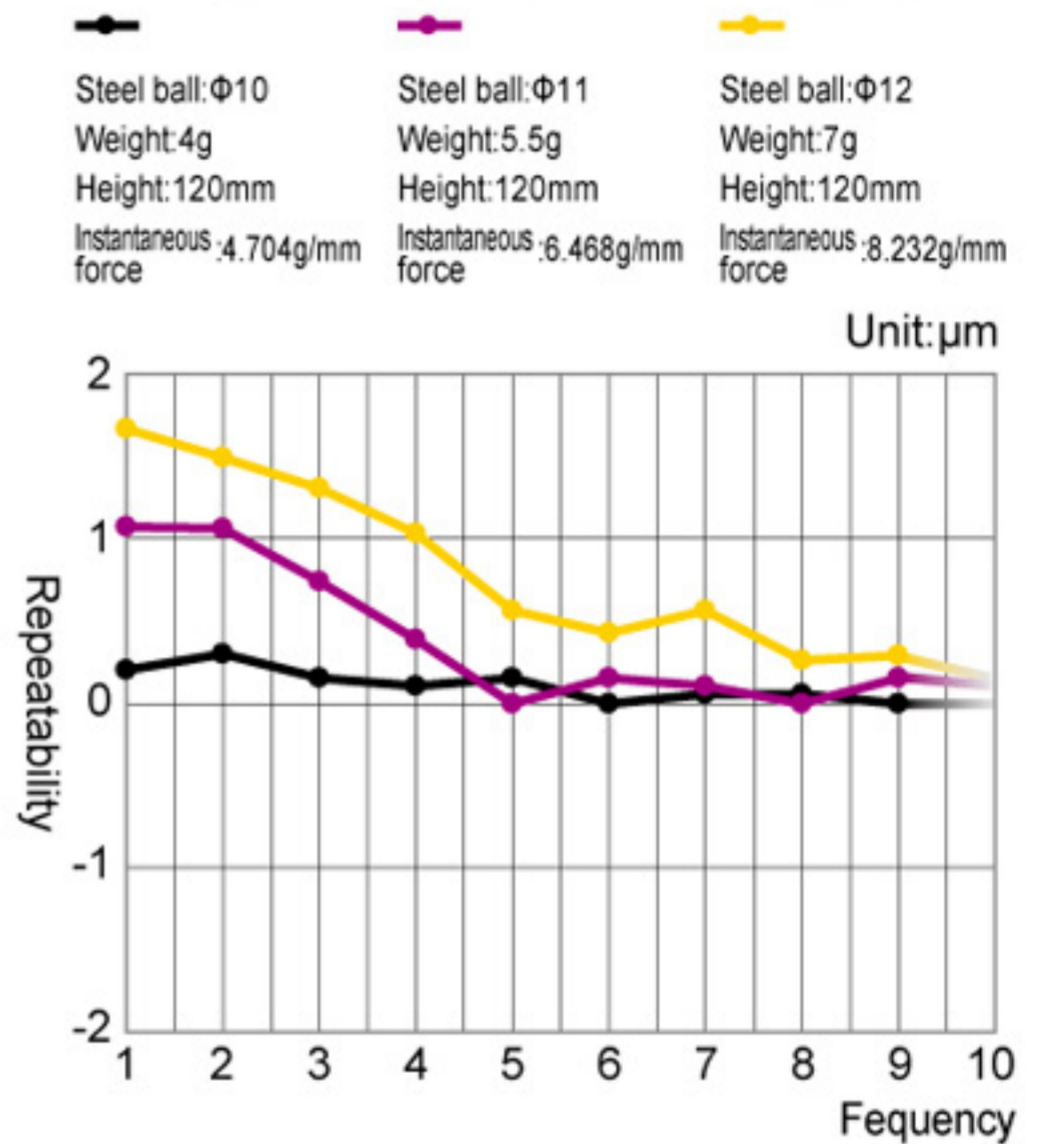
Ultra Holding Power 250 kgf (2500N)

## Examples

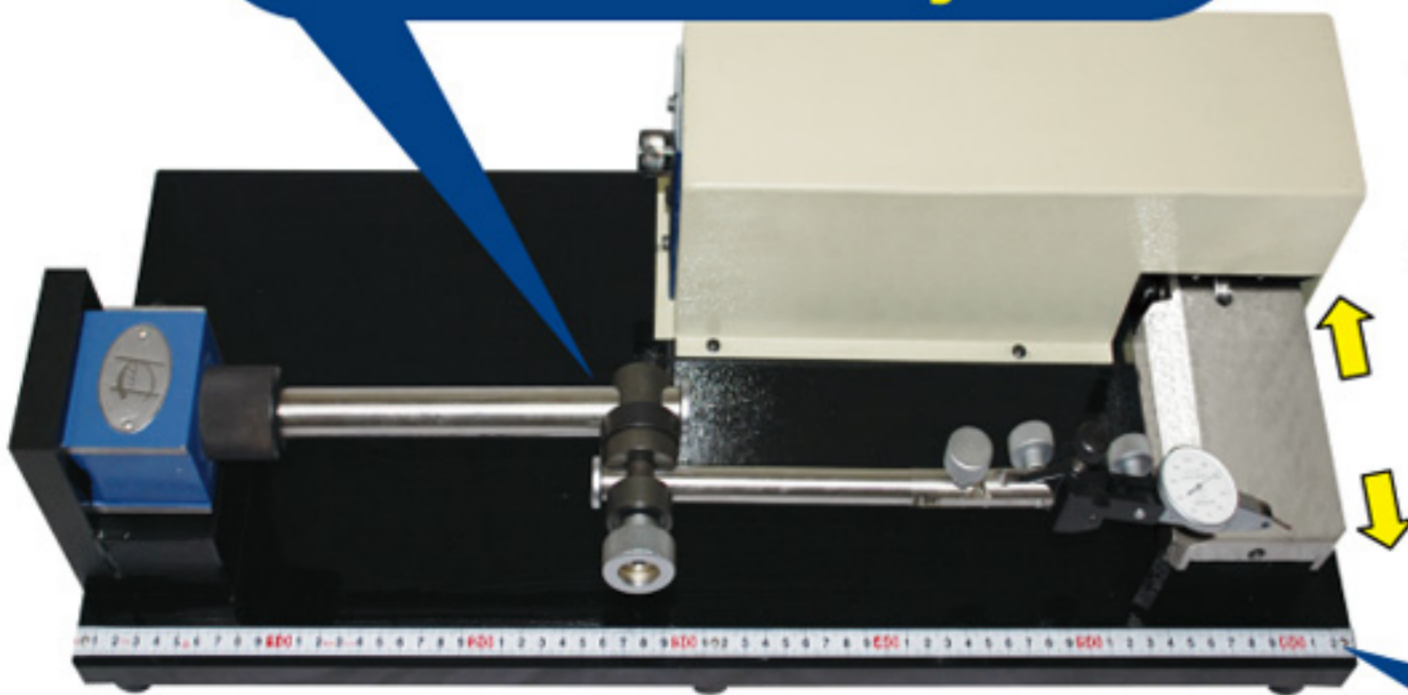


↻ Structural impact test

### — Gauge head impact force graph —



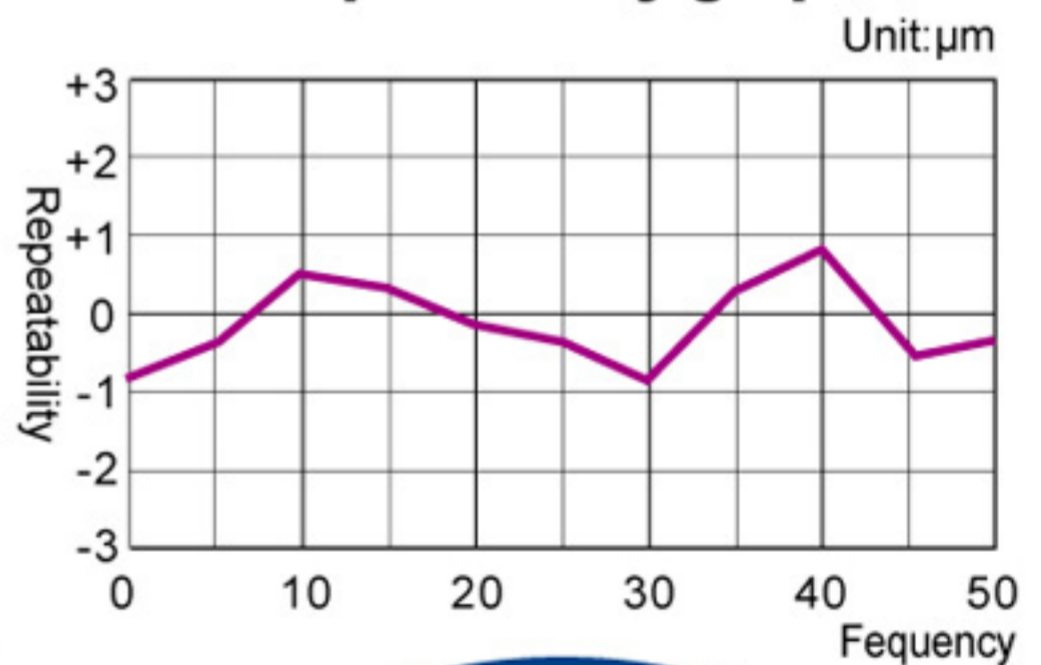
High precision repeat measurement  
&  
Good stability



### ↻ Accuracy testing of radial direction repeat measurement

(Testing indicator use MAHR、GIROO)  
Stretch length 600mm, radial repeat accuracy 0.002mm.

### — Repeatability graph —



Stretch length 600mm

# Magnetic Indicator Stand



Ultra Holding Power 250 kgf (2500N)

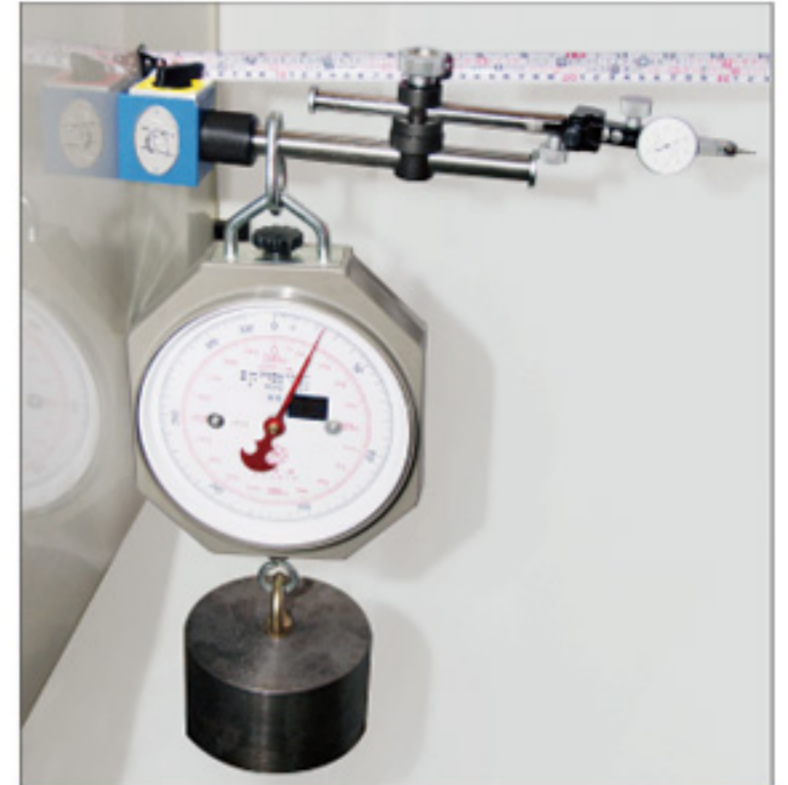
## Practical Example



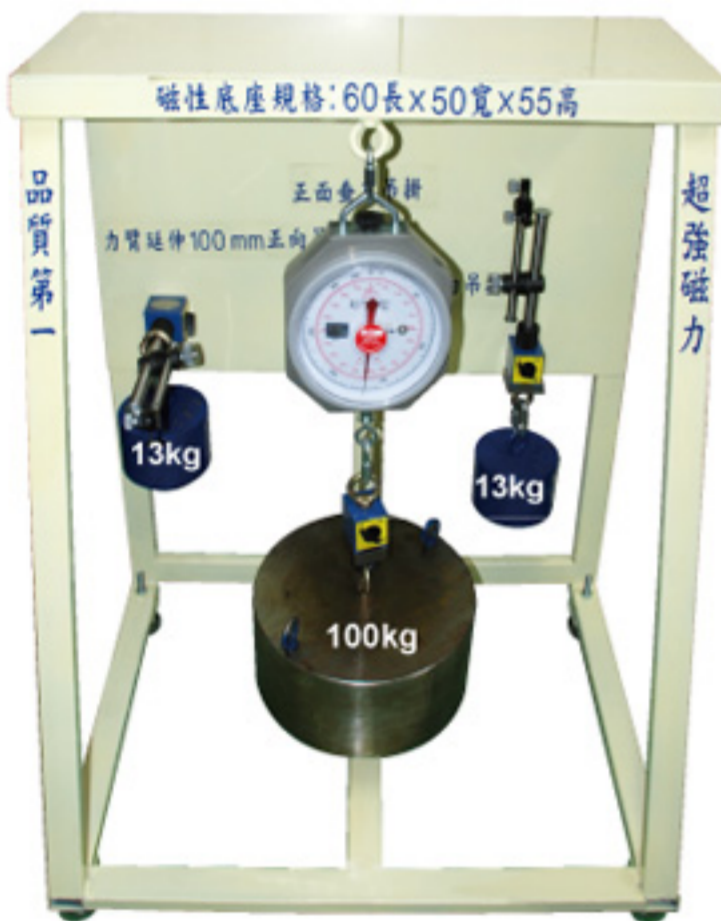
- Forward vertical hanging load 100 kgs.
- Ultra good magnetic stability.



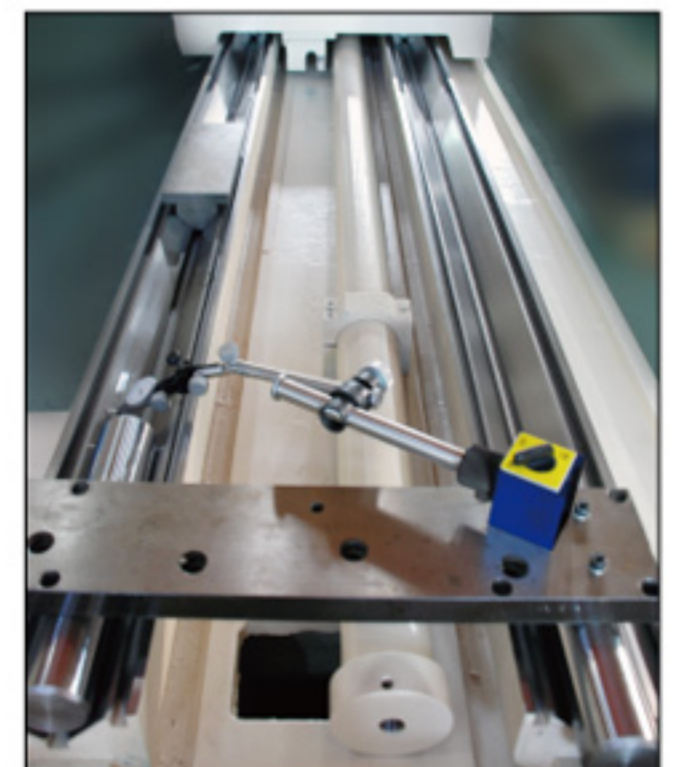
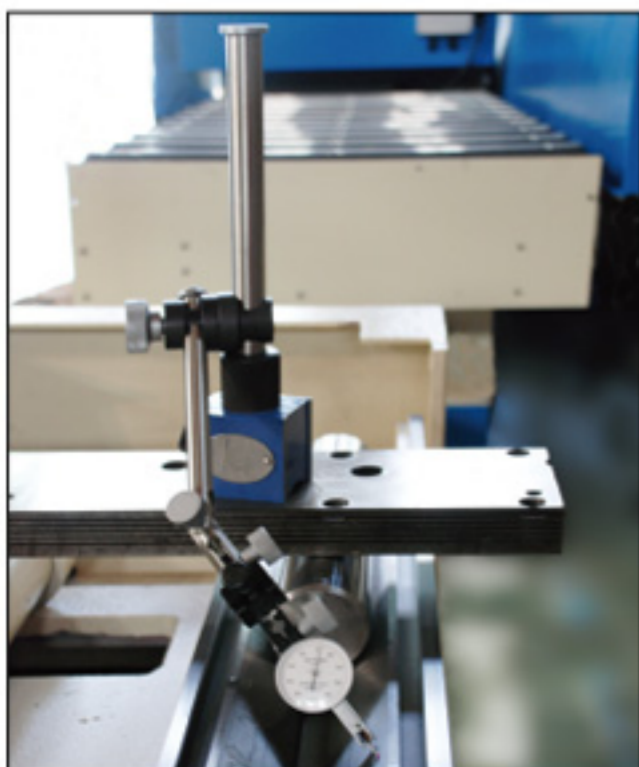
- Lateral hanging strong adsorption.
- Adsorption plate thickness 2.3mm.
- Lateral hanging load 13 kgs.



- Vertical stem stretch 100mm forward hanging.
- Adsorption plate thickness.
- Forward hanging load 13 kgs.



01. The products apply to wide range , such as machinery manufacturing, parts processing, laboratory testing.
02. Excellent rigidity and stability, the unique shock-proof design, can prevent shaking force, high accuracy.
03. Length stretch 600mm, radial repeat accuracy 0.002mm
04. Can be extensive use of multi-angle, free rotation and positioning, easy to operate, practical.



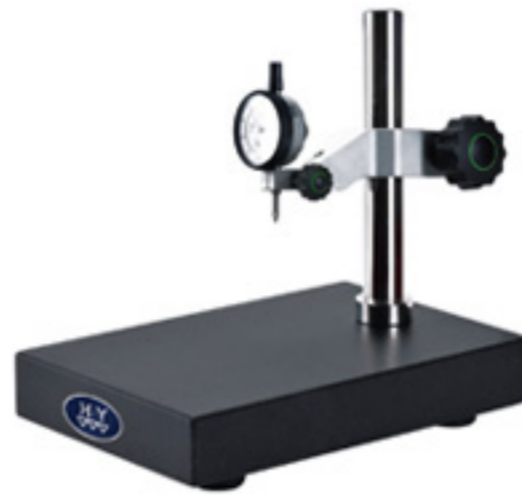


# Comparator Stand & Vision measuring auxiliary fixture

## Comparator Stand



**GM-807** 300 x 300 x 70mm



**GM-820** 200 x 300 x 50mm



**GM-833** 200 x 150 x 50mm

Model No. **GM-813** 200 x 300 x 50mm

Model No. **GM-818** 600 x 450 x 75mm

- Repeat accuracy : 0.002mm

Model No. **GM-826** 200 x 150 x 50mm

Model No. **GM-826** 200 x 150 x 50mm

- Repeat accuracy : 0.002mm

- Repeat accuracy : 0.001mm
- Micro adjust type



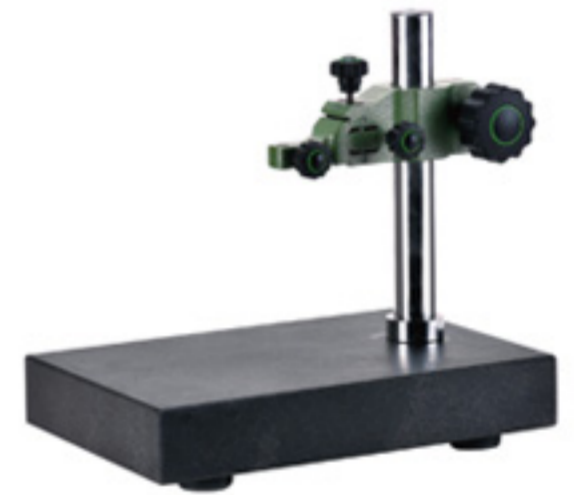
Model No. **GM-835**

- Repeat accuracy : 0.001mm
- Micro adjust type
- Dimension : 75 x 75 x 20mm



Model No. **GM-836**

- Repeat accuracy : 0.001mm
- Micro adjust type
- Dimension : 200 x 300 x 60mm



Model No. **GM-837**

- Repeat accuracy : 0.001mm
- Micro adjust type
- Dimension : 200 x 150 x 60mm

## Vision Measuring Auxiliary Fixture



Model No. **VM-601**

- Profile Projector shot rotary stand
- Dimension : 300 x Ø200 x 35mm



Model No. **VM-605**

- Vision measurement
- Micro rotary stand(XYR)
- Dimension : 160 x Ø100 x 68mm



Model No. **VM-608**

- Vision measurement
- Thimble inspected fixture
- Dimension : 190 x 160 x 120mm
- Centers distance : 100mm
- Centers height : 90mm

# Surface Roughness Tester Stand & Auxiliary Fixture



Model No.: **SR-601**  
• HOMMEL TESTER LV15



Model No.: **SR-605**  
• HOMMEL T1000-B Hand holding type



Model No.: **SR-623**  
• HOMMEL T1000-W



Model No.: **SR-625**  
• MAHR-M1



Model No.: **SR-629**  
• MAHR-P1



Model No.: **SR-635**  
• Mitutoyo-SJ201.301



Model No.: **SR-639**  
• Mitutoyo-SJ401.402



Model No.: **SR-645**  
• Mitutoyo-SJ500

## Two Type Granite Base:

(A) Granite size : 350 x 450 x 60mm  
Vertical height : 300mm  
Vertical travel : 200mm

(B) Granite size : 450 x 600 x 75mm  
Vertical height : 500mm  
Vertical travel : 400mm

## Auxiliary Fixture

Available For The Above Brand Use



Model No.: **SPA-226**  
• V-Block & clamp



Model No.: **AF-529**  
• V-Block & clamp



Model No.: **AF-282**  
• Micro cross-travel table (Yθ)  
• Dovetail type  
• Dimension : 260 x 100 x 62mm  
• Yθ travel : ±12.5mm, θangle±5



# Surface Profilometer Stand & Auxiliary Fixture



Model No.: **SP-106**

- SP1000 granite stand
- Granite size : 450 x 300 x 60mm
- Vertical height : 300mm
- Vertical travel : 200mm



Model No.: **SP-113**

- SP1000 granite stand
- Granite size : 450 x 300 x 60mm
- Vertical height : 300mm
- Vertical travel : 400mm



Model No.: **SP-115**

- SP1000 granite stand
- Granite size : 600 x 450 x 75mm
- Vertical height : 500mm
- Vertical travel : 400mm

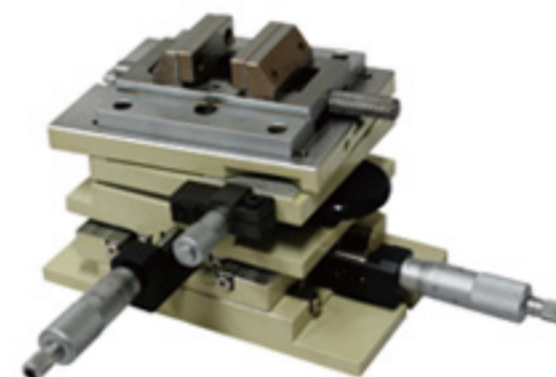
Following auxiliary fixture are available for SP1000 、 2000 、 3000 、 4000 Series



Model No.: **SPA-200**



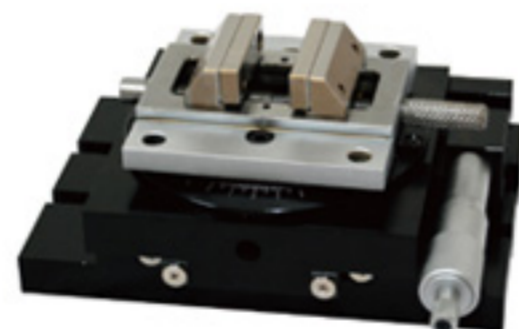
Model No.: **SPA-209**



Model No.: **SPA-213**



Model No.: **SPA-218**



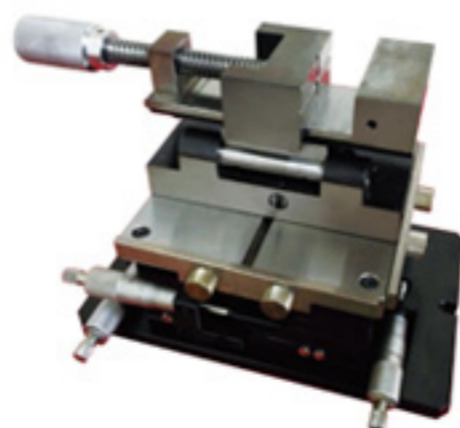
Model No.: **SPA-221**



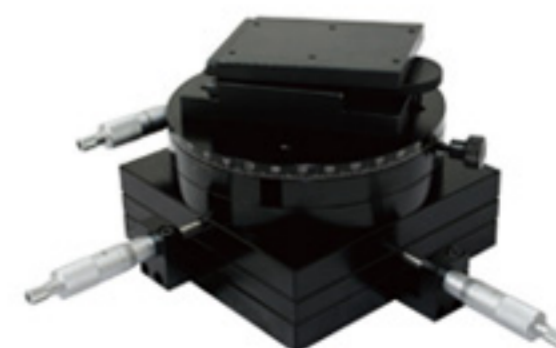
Model No.: **SPA-224**



Model No.: **SPA-226**



Model No.: **SPA-228**



Model No.: **SPA-229**

# Mt4 Outside Diameter Grinding Driven Fixture



Model No.: **AF-106**

- Micro cross-travel table (XY $\alpha$  $\theta$ )
- Dimension : 130 x 100 x 82mm,  $\theta$  angle $\pm 5^\circ$
- XY travel :  $\pm 12.5$ mm,  $\alpha$ angle $\pm 2^\circ$



Model No.: **AF-113**

- Micro cross-travel table (XY $\alpha$  $\theta$ )
- Dimension : 200 x 150 x 82mm,  $\theta$  angle $\pm 5^\circ$
- XY travel :  $\pm 12.5$ mm,  $\alpha$ angle $\pm 2^\circ$



Model No.: **AF-115**

- Micro cross-travel table (XY $\theta$ )
- Cylindrical slide type
- Dimension : 160 x 160 x 96mm
- XY travel :  $\pm 12.5$ mm,  $\theta$ angle  $\pm 5^\circ$



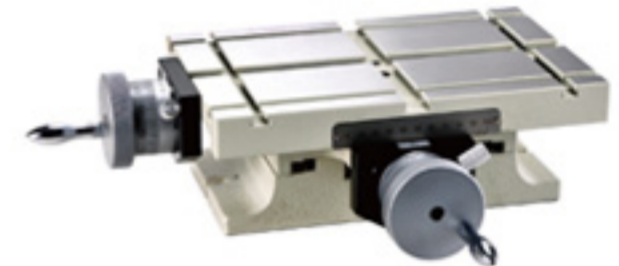
Model No.: **AF-116**

- Micro cross-travel table (XY $\theta$ )
- Cylindrical slide type
- Dimension : 160 x 160 x 87mm
- XY travel :  $\pm 12.5$ mm,  $\theta$  angle $\pm 5^\circ$



Model No.: **AF-282**

- Micro cross-travel table (Y $\theta$ )
- Dovetail type
- Dimension : 260 x 100 x 62mm
- Y $\theta$  travel :  $\pm 12.5$ mm,  $\theta$ angle $\pm 5^\circ$



Model No.: **AF-304**

- Micro cross-travel table (XY)
- Cylindrical slide type
- Dimension : 280 x 180 x 100mm
- XY travel :  $\pm 12.5$  mm



Model No.: **AF-308**

- Micro cross-travel table (XY)
- Cylindrical slide type
- Dimension : 175 x 175 x 68mm
- XY travel :  $\pm 12.5$ mm



Model No.: **AF-314**

- Micro cross-travel table (XY)
- Ball slide type
- Dimension : 175 x 175 x 68mm
- XY travel :  $\pm 12.5$ mm



Model No.: **AF-327**

- Micro cross-travel table (XY)
- Ball slide type
- Dimension : 160 x 160 x 68mm
- XY travel :  $\pm 12.5$ mm



Model No.: **AF-333**

- Micro cross-travel table (XY)
- Ball slide type
- Dimension: 120\*120\*68mm
- XY travel:  $\pm 12.5$ mm



Model No.: **AF-338**

- Micro cross-travel table (XY)
- Ball slide type
- Dimension : 100 x 100 x 68mm
- XY travel :  $\pm 12.5$ mm



Model No.: **AF-405**

- Micro cross-travel table (Y)
- Cylindrical slide type
- Dimension : 100 x 100 x 40mm
- Y travel :  $\pm 12.5$ mm



# Measuring Auxiliary Fixture



Model No.: **AF-417**

- Micro cross-travel table(X.Y)
- Cylindrical slide type
- Dimension : 75 x 75 x 32mm
- Y travel : ±12.5mm



Model No.: **AF-200**

- Micro rotary table(X.Y.R)
- Cylindrical slide type
- Dimension : 175 x 175 x 114mm
- XY travel : ±12.5mm R : 360°



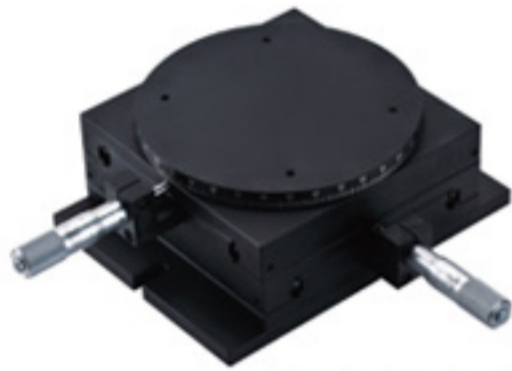
Model No.: **AF-209**

- Micro rotary table (X.Y.R)
- Ball slide type
- Dimension : 175 x 175 x 114mm
- XY travel : ±12.5mm R : 360°



Model No.: **AF-224**

- Micro rotary table (X.Y.R)
- Slim type
- Dimension : 150 x 150 x 60mm
- XY travel : ±12.5mm R : 360°



Model No.: **AF-213**

- Micro rotary table (XYR)
- Ball slide type
- Dimension : 160 x 160 x 78
- XY travel : ±12.5mm, R : 360°



Model No.: **AF-218**

- Micro rotary table (XYR)
- Ball slide type
- Dimension : 120 x 120 x 78mm
- XY travel : ±12.5mm, R : 360°



Model No.: **AF-221**

- Micro rotary table (XYR)
- Slim type
- Dimension : 150 x 150 x 60mm
- XY travel : ±12.5mm, R : 360°



Model No.: **AF-281**

- Micro rotary table (XR)
- Cylindrical type
- Dimension : 120 x 80 x 55mm
- XY travel : ±12.5mm, R : 360°



Model No.: **AF-508**

- Rotary vise
- Two-side jaw type
- Dimension : 220 x 150 x 82mm
- Rotary angle : ±90°
- Clamp range : Ø60



Model No.: **AF-521**

- Precision vise
- Two slide jaw type
- Dimension : 188 x 82 x 68mm
- Clamp range : Ø60



Model No.: **AF-522**

- Precision vise
- Two-side jaw type
- Dimension : 120 x 100 x 32mm
- Can be mounted on cross-travel table
- Clamp range : Ø60



Model No.: **AF-526**

- Precision vise
- Two -slide jaw type
- Dimension : 100 x 90 x 32mm
- Clamp range : Ø42
- Can be mounted on cross-travel table



Model No.: **AF-529**

- V-block & clamp
- Dimension : 150 x 80 x 36mm
- Workpiece Dia. : Ø85
- Can be mounted on cross-travel table



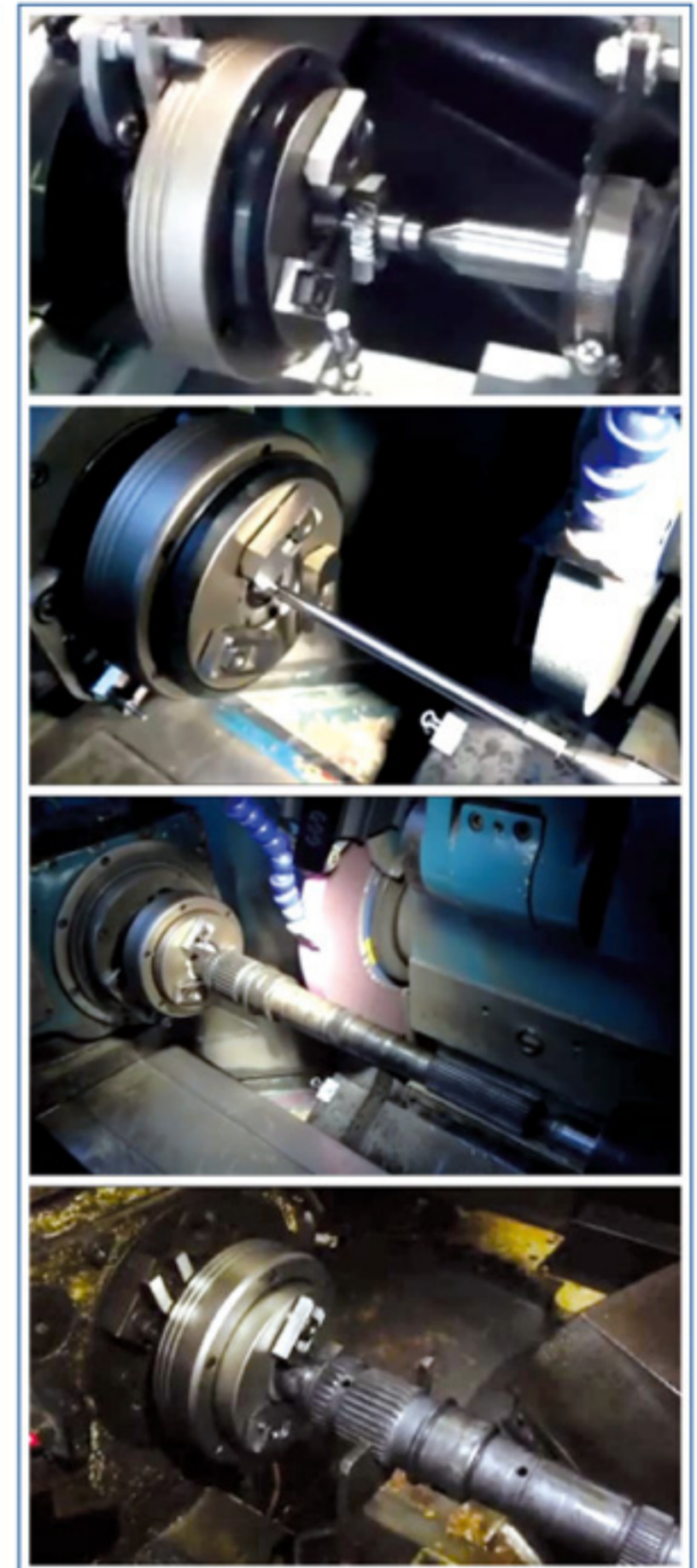
Model No.: **AF-533**

- Leveling table (α)
- Dimension : 135 x 80 x 40mm
- Leveling range : ±2.5°

# 3-Jaw O.D. Grind Driving Fixture



Model No.: **OGF-MT3**  
**OGF-MT4**



## Jaw specifications

- 513 --- Clamping range 5 ~ 13mm (7mm & 10mm are not included ).
- 713 --- Clamping range 7 ~ 13mm
- 126 --- Clamping range 10 ~ 26mm
- 241 --- Clamping range 23 ~ 41mm

## Feature

01. Synchronous operation with outside diameter grinding bed, open and stop the clamp automatically.
02. Accurate, fast, and can be used together with automatic materials feeding and discharging device.
03. Modular design and easy to Install and dismantle.
04. Can increase productivity and improve production efficiency
05. Jaw material: S45C, SKD11, tungsten steel. Material S45C is standard equipment.

*Professional, Quality, Service*



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