PERFECT

蒲菲科技有限公司
PERFECT TECHNOLOGY CO., LTD.

2019

PRODUCT CATALOG

ABOUT US

Perfect technology Co.,Ltd is established in 1995 .We are original manufacturer and trade company. Our company had been 18 years experience in produce kinds of CNC Mechanical tool. For example Z Axis Setter, Clamping Force Gauge,Tool Holders, collet and Edge Finder etc. Famous of the best quality and competitive prices, package and rapid delivery. Therefore, we can fully satisfy your demand and have a numerous of customer. We have a good partnership with all over the world. Sweden, Portugal, Norway, Turkey, South Korea, Japan ,China, Vietnam, Malaysia and Thailand etc. Apart from our own Brand products, we also provide OEM service and accept customer's special orders. We will supply much better products with diversified design and professional service. We sincerely welcome the company from all over the world to cooperate with us of long-term.

Directory

Patented Z-axis setter

NZH-50

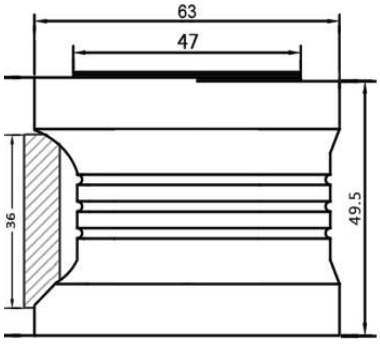
Model:NZH-50A
Model:NZH-50B

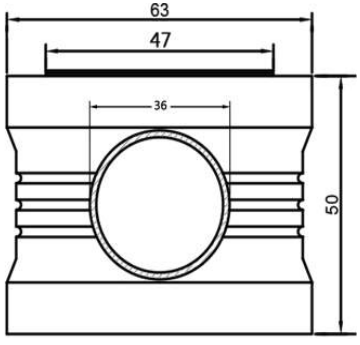
Height:50.00 +-0.005mm
Weight:1.3kg
Dimension:50x63x63mm
Outer package size:100x94x81/mm

The patented Z-axis setter has been calibrated at the factory.
The lower stroke is 1mm, which is more convenient for customers.
Correction adjustment see page 4

NZH-50A
Bottom has magnets

NZH-50B
Bottom doesn't have magnets





Patented Z-axis setter

NZM-50

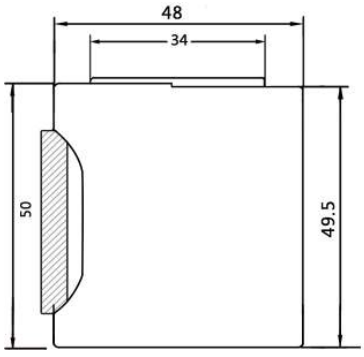
Model:NZM-50A
Model:NZM-50B

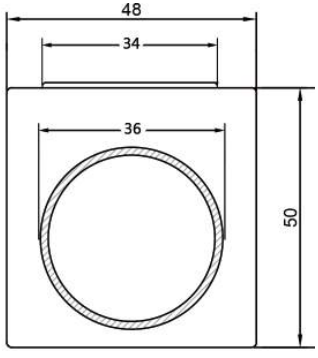
Height:50.00 +-0.005mm
Weight:0.7kg
Dimension:50x48x48mm
Outer package size:100x94x71/mm

The patented Z-axis setter has been calibrated at the factory.
The lower stroke is 1mm, which is more convenient for customers.
Correction adjustment see page 4

NZH-50A
Bottom has magnets

NZH-50B
Bottom doesn't have magnets





Patented Z-axis setter

NZP-100

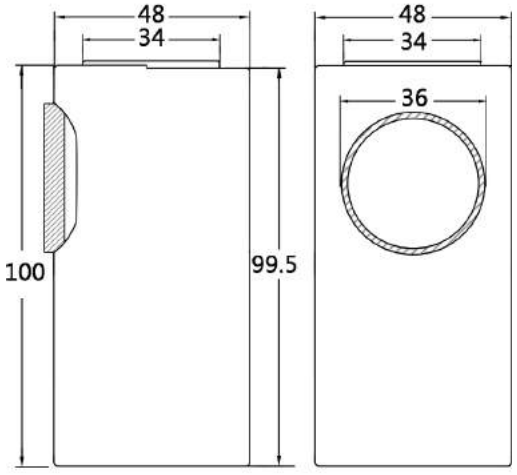
Model:NZP-100A
Model:NZP-100B

Height:100.00 +-0.005mm
Weight:1.7kg
Dimension:100x48x48mm
Outer package size:130x100x71/mm

The patented Z-axis setter has been calibrated at the factory.
The lower stroke is 1mm, which is more convenient for customers.
Correction adjustment see page 4

NZP-100A
Bottom has magnets

NZP-100B
Bottom doesn't have magnets



Instruction Manual of patented Z Axis Setter

NZH-50 NZM-50 NZP-100

1.Rotate the dial and make zero to the top.

2.Place the parallel bar on the Z-axis setter and press it.

3.Fix the pointer to zero with 2.5mm hex wrench.

4.Flip to the bottom of device, adjust the pointer to zero with 4mm hex wrench.

The method of resetting and cleaning:

The device might be stuck due to damage caused during the shipping.
Once the top of the device was stuck, please use the 4mm (or less) rods and have a nudge into the hole a few times.

Patented Z-axis setter

NZD-100

Model:NZD-100A

Height:100.00 +-0.005mm
Weight:1.8kg
Dimension:62x50x100mm
Outer package size:130x100x71/mm

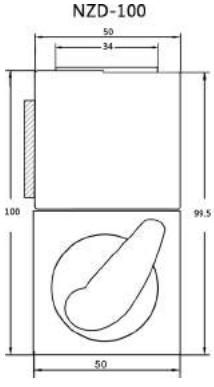
The patented Z-axis setter has been calibrated at the factory.
The lower stroke is 1mm, which is more convenient for customers.

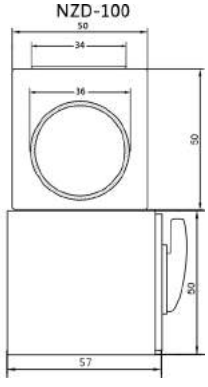
Fig 1. If the pointer is not at zero, press the parallel block on the standard surface to check if the pointer is zeroed.
Fig 2. Calibrate with a 2.5 hex wrench to zero the pointer
Fig 3. Use a 4mm hex wrench to adjust the touch plate if the touch plate is not at zero or you want to adjust it' s height.

圖1

圖2

圖3





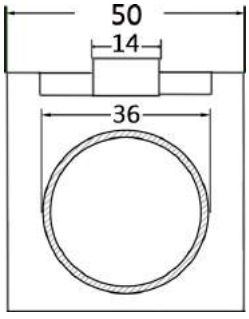
微小徑專用 Z軸設定器

CE

ZDE-50

Model:ZDE-50A
Model:ZDE-50B

Height:50.00 +-0.005mm
Weight:0.8kg
Dimension:40x50x50mm
Outer package size:100x94x71/mm



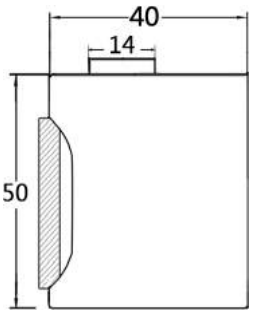


Fig1

1.Place the parallel bar on the Z-axis setter and press it.

Fig2

2.Rotate the dial and make zero to the pointer.

Fig3

3 Take away parallel bar.

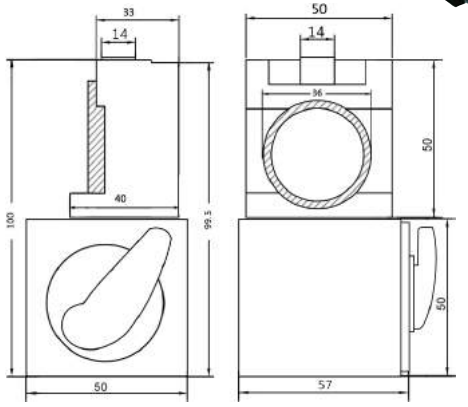
Fig4

4.Put the z-axis setter on the workpieces, then push the cutter forward slowly until it reaches to 0, which is the right position .

微小徑專用 Z軸設定器

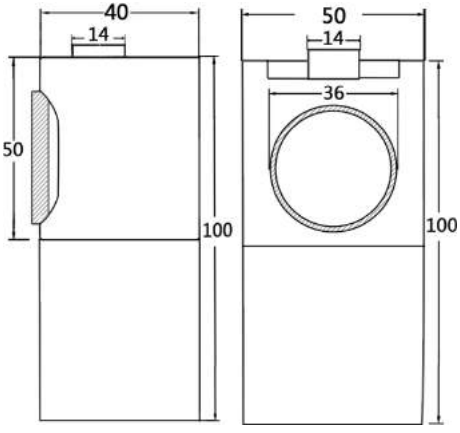
ZDE-100

Height:100.00 +-0.005mm
Weight:1.75kg
Dimension:50x57x100mm
Outer package size:130x100x71/mm



ZDE-100B

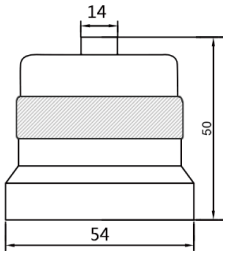
Height:100.00 +-0.005mm
Weight:1.75kg
Dimension:50x48x100mm
Outer package size:130x100x71/mm
Bottom doesn't have magnets



光電式 Z軸設定器

Model:ZOP-50

Machines need to be conductive before use.



Bottom have magnetic

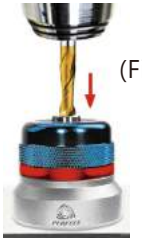
Height:50.00 +-0.005mm
Weight:0.7kg
Dimension:50x54x54mm
Outer package size:100x94x71/mm
Batteries: LR44/A76/G13 x 2PCS

This photoelectric Z-axis setter is a high-precision product, and the accuracy of the vernier caliper detection is not applicable.

Model:NZOP-50

Machines are not conductive can also be used.

Internal conductor



(Fig:1)

(Fig:2)

(Fig:3)

1. Turn the handwheel (in μm) forward to the device and contact it slowly.Slowly contact the device (light up) (Fig:1)
2. Move backward (light out) (Fig:2) The point of light-out is the correct position, you need to repeat above two steps several times in order to get the accuracy.
3. Side detection: use the top of milling cutter to contact the buttom.

■Make sure the batteries have power before using.

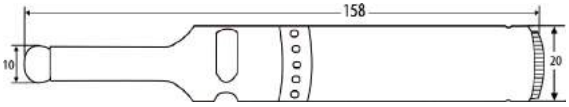
Electronic - Edge Finder

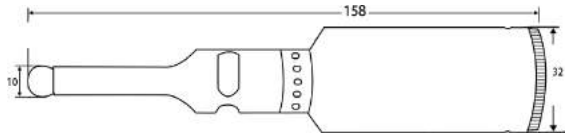
Probe accuracy: 10mm / +-0.005mm

OP-20 weight:0.20kg
OP-32 weight:0.43kg

OP-20
light

OP-20B
light+sound





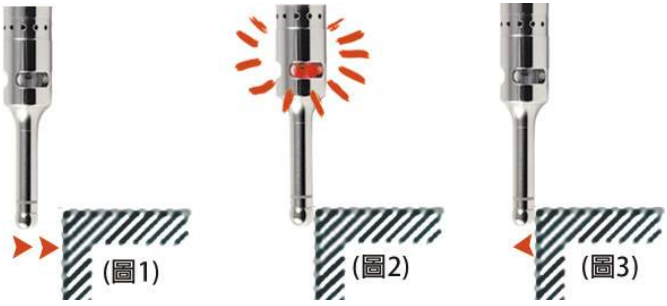
OP-32
light

OP-32B
light+sound

Battery：23A 12V

1. The entire object has makes rust prevention processing, will place for a long time will not rust.
2. It's not suitably used for rotary

Usage:
FIG1. Use photoelectric edge finder handwheel please tune into the μm advance processing object
FIG2. Touching object illuminated flip rotation return,
FIG3. Not bright point is to be sought in the reference position.



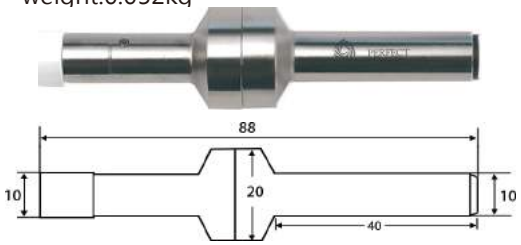
CERAMIC EDGE FINDER

Zirconia Features:
Non-magnetic, toughness good and wear-resistant, not rust, long life, It is equivalent to diamonds

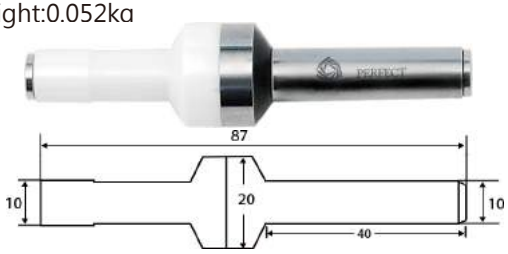
Probe accuracy: +-0.005mm

WH-1010
weight:0.036kg

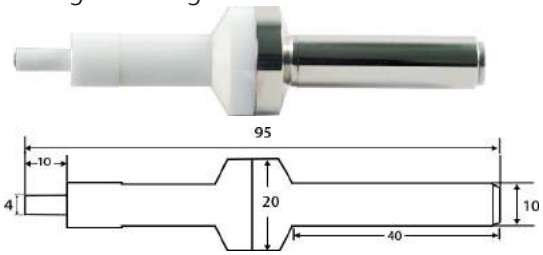
WH-1020A
weight:0.052kg



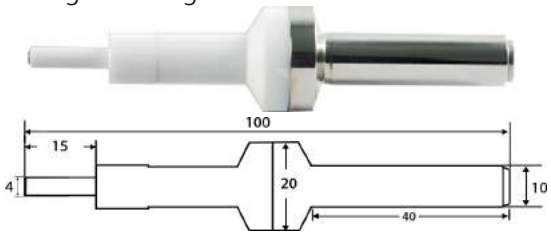
WH-1020
weight:0.052kg



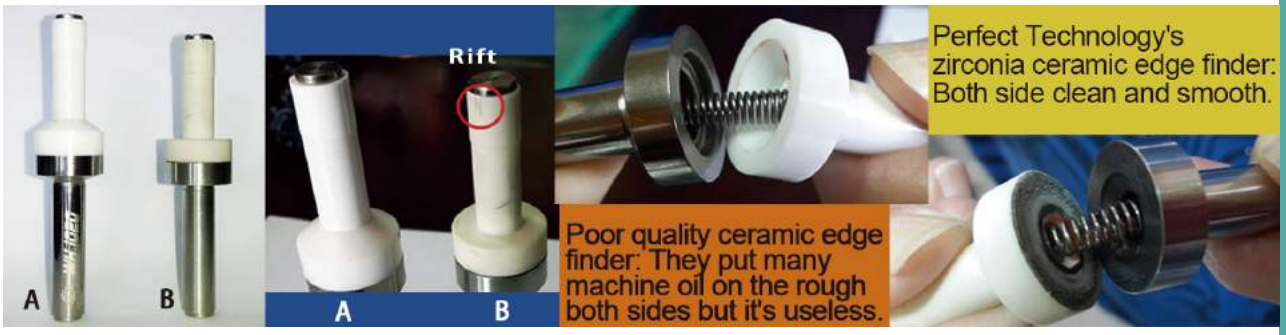
WH-420
weight:0.056kg



WH-420L
weight:0.056kg

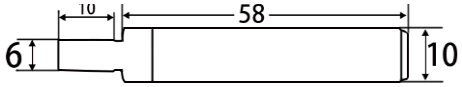


Our company use the great zirconia for ceramic raw materials. It's totally different from the other poor quality ceramic. Although it looks similar, but the life is a big difference.
You have to wisely to choose !
"A" is Perfect Technology's zirconia ceramic features:pure white,hight hardness and toughness.
"B" is poor quality ceramic easily crack and color close to yellow



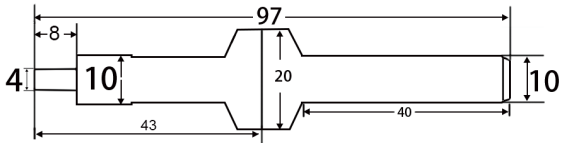
EDGE FINDER

ME-610
weight:0.036kg

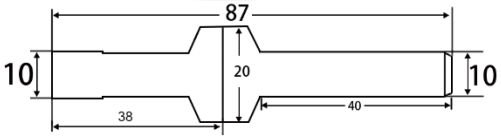


Probe accuracy: +-0.005mm
HRC58~60

ME-420
weight:0.052kg



ME-1020
weight:0.052kg



EDGE FINDER

ME-P1
weight:0.075kg

Probe accuracy: +-0.005mm
HRC58~60

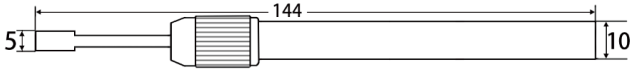
ME-P2
weight:0.044kg

ME-P2C
weight:0.044kg

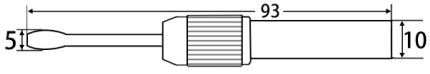
WH-P1
weight:0.075kg

WH-P2
weight:0.044kg

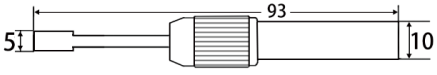
WH-P2C
weight:0.044kg



ME-P1
WH-P1



ME-P2
WH-P2



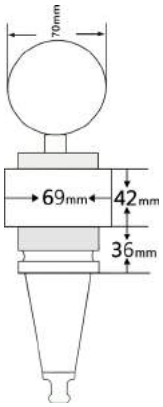
ME-P2C
WH-P2C

A hydraulic spindle Rally

XXR-BT30

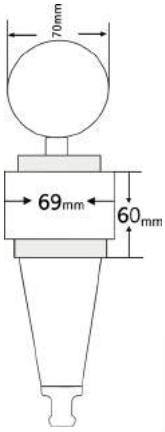
Model	d1	d2	Measuring range	weight kg
BT30-45°	7	11	0~60kg tolerance ±0.1KG 0~150kg tolerance ±2.5KG	4.3KG
BT30-60°	7	11		
BT30-90°	7	11		
JIS6339-30	8	12		
ISO30	9	13		
ISO30-R3	8	12		
DIN30	9	13		
SK30	9	13		

30 dynamometer meter can be selected 0~60kg or 0~150kg, the larger the gauge number, the larger the tolerance
In order to provide better service, the 30 rally meter has two options to install.



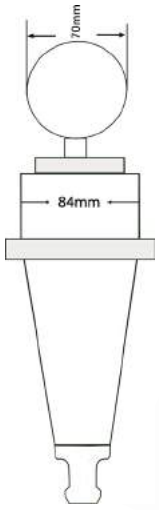
XXR-BT40

Model	d1	d2	Measuring range	weight kg
BT40-45°	10	15	0~150kg tolerance ±2.5KG	4.4KG
BT40-60°	10	15		
BT40-90°	10	15		
CAT40*45°	10	15		
CAT40*60°	10	15		
CAT40*90°	10	15		
ISO40-A	14	19		
ISO40-B	13	19		
MAZAK-40	12	19		
JIS6339-40	14	19		
DIN40	14	19		
SK40	10	15		



XXR-BT50

Model	d1	d2	Measuring range	weight kg
BT50-45°	17	23	0~350kg tolerance ±5.5KG	6.8KG
BT50-60°	17	23		
BT50-90°	17	23		
CAT50*45°	17	23		
CAT50*60°	17	23		
CAT50*90°	17	23		
ISO50	21	28		
MAZAK-50	21	29		
JIS6339-50	21	28		
DIN50	21	28		
SK50	17	23		



1/4PT

Digital Spindle Force Dynamometer

XXRG-BT30

Model	d1	d2	Measuring range	weight kg
BT30-45°	7	11	0~70bar tolerance ±0.5KG 0~100bar tolerance ±1.0KG	4.3KG
BT30-60°	7	11		
BT30-90°	7	11		
JIS6339-30	8	12		
ISO30	9	13		
ISO30-R3	8	12		
DIN30	9	13		
SK30	9	13		

XXRG-BT40

Model	d1	d2	Measuring range	weight kg
BT40-45°	10	15	0~250bar tolerance ±2.0KG	4.4KG
BT40-60°	10	15		
BT40-90°	10	15		
CAT40*45°	10	15		
CAT40*60°	10	15		
CAT40*90°	10	15		
ISO40-A	14	19		
ISO40-B	13	19		
MAZAK-40	12	19		
JIS6339-40	14	19		
DIN40	14	19		
SK40	10	15		

XXRG-BT50

Model	d1	d2	Measuring range	weight kg
BT50-45°	17	23	0~400bar tolerance ±3.5KG	6.8KG
BT50-60°	17	23		
BT50-90°	17	23		
CAT50*45°	17	23		
CAT50*60°	17	23		
CAT50*90°	17	23		
ISO50	21	28		
MAZAK-50	21	29		
JIS6339-50	21	28		
DIN50	21	28		
SK50	17	23		

1 bar=1.02kg/cm2

Spindle Force Dynamometer

XXR-HSK63A

XXRG-HSK63A

Model	Measuring range	weight kg
XXR-HSK63A	0~150kg tolerance±2.5KG	5.3KG
XXRG-HSK63A	0~250bar tolerance±2.0KG	5.3KG

1 bar=1.02kg/cm2

Instruction Manual
Spindle Force Dynamometer

a: Check if the pre-pressure is in the available condition before using.
Inspection methods:
1. Pointer is not at zero, and there is left pre-pressure
2. Manually check the pressure gauge and if the body turns
if so, it means there is left pre-pressure.
Otherwise,
if don't, that means there is no pre-pressure.

b: Method of reloading pre-presssure of dynamometer
1. Remove the screw B.
2. Loosen the pull stud A and loosen it again.
3. Push the pull stud A inwards (so that the oil level is reduced).
4. Fill R68 hydraulic fluid from hole B and then tighten the screw B.
5. Tighten the pull stud A. In the same time, Pointer C will be moving upward. As the pull stud A is fully tightened, the proper pressure indication will be between 10 to 30kg.
If it is over 30kg, loosen Screw B and let the indication be 10 to 30kg

c: Method of dynamometer dial indicator reading
1. The inner area of the dynamometer 10.00875 mm², so when the indication times 10 is the correct pulling force.
2. An unit of dynamometer equals to 10kg
3. The digital dynamometer uses the Newton as 1 unit. (1kg = 9.8 N)

d: Method of pull stud replacement
1. Use the adjustable wrench to clamp the seat of "D"
2. Turn the A lever ("D" to hold)
3. Replace the new lever A and lock it again.
4. Check the preload again, if the preload is normal, you can continue to use it.

Conversion:
1 kg/cm² = 10kg = 100 N
E.g:25kg/cm*10=250kg=25000N = 25KN

Method of pull stud replacement

Screw thread 1/4PT

Instruction Manual
Digital Spindle Force Dynamometer

a: Pull force count explicit return to zero setting method
1. Turn the A rod to a loose turn so that it has no pressure.
2. Turn on (ON/OFF button) and press and hold (Light/P-H button)
3. Enter the mode setting, there will be a flashing number, press (REST button) Set to "9", press (Light/P-H) to enter standby time
Press (REST) to set to "5", then press (Light/P-H) twice.
Will be automatically set to zero,
4. Press (ON/OFF) again to select the unit.
5. Tighten the A-pull rod again. At this time, the pressure value will go up. Please stay at the most appropriate pre-pressure value indicating that it should be between 5kg.

PS. To change the settings again, you have to wait for the shutdown before you can make settings.

b: pull force counting explicit fueling method
1. First remove the plug from the B
2. Turn the "A" Pull studs to loose
3. Push the A rod inward again (to make the oil chamber oil level retract)
4. Fill the R68 hydraulic oil from the B hole and lock the rear plug.
5."A" Pull studs can be pressurized to about 5KG.

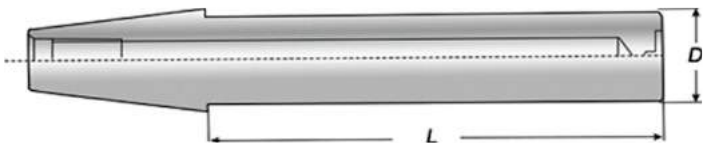
C:Method of pull stud replacement
1. Use the adjustable wrench to clamp the seat of "D"
2. Turn the "A" Pull studs ("D" to hold)
3. Replace the new Pull studs "A" and lock it again.
4."A" Pull studs can be pressurized to about 5KG.

1 bar=1.02kg/cm2

The digital spindle tensioner has been corrected to zero before leaving the factory. Do not press REST again.
If you want to press REST, you need to turn Pull studs "A" studs to loose.

The above value is based on the PMC spindle dynamometer specification of Taiwan Precision Machinery R&D Center.

Test Bar



Test arbor is used to measure the runout of machine spindle.Taper Contant > 85%

Order no	D	L	Roundness	Concentricity	Package weight
55HG-BT30	30	250	< 0.003	<0.005	3.5
55HG-BT40	40	300			4.7
55HG-BT50	50	300			6.5

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