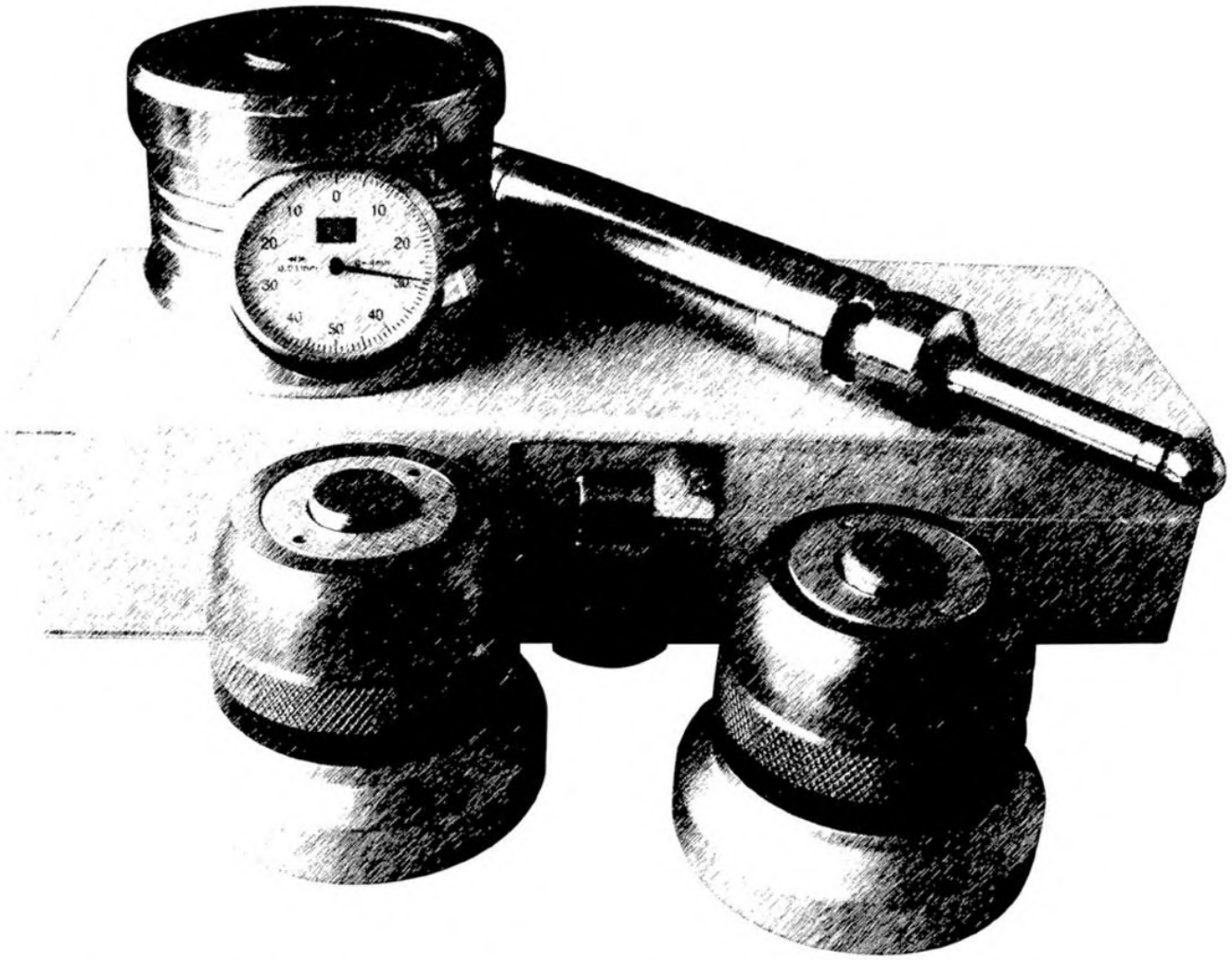
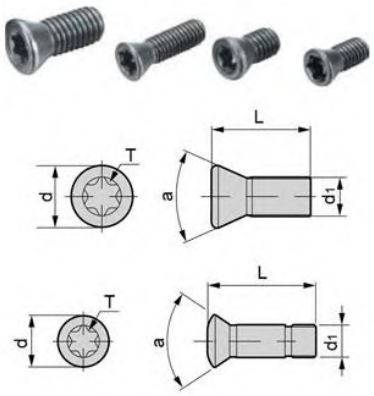


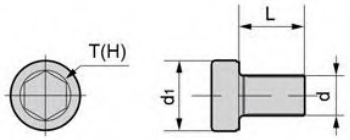
ACCESSORIES

General Screw



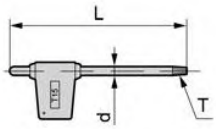
Code No.	Size(mm)				
	d	d1	L	a	T(H)
M2*4	2.7	2	3.7	55°	6
M2*5	2.7	2	5	55°	6
M2.2*5	3	2.2	4.8	55°	8
M2.5*5	3.5	2.5	5.5	55°	8
M2.5*6	3.5	2.5	6	55°	8
M3*6	4	3	6.5	55°	10
M3*7	4	3	7	55°	10
M3.5*8	5.2	3.5	8.5	55°	15
M4*8	5.5	4	8.5	55°	15
M4*9	5.5	4	9	55°	15
M4*10	6	4	10	55°	15
M4*11	5.5	4	11	55°	15
M5*11	7.2	5	11	55°	15
M5*12	7.2	5	12	55°	20
M3*7B	4.5	3	7	60°	8
M3*10B	4.5	3	10	60°	8
M3.5*8B	5.2	3.5	8	60°	15
M4*8B	5.7	4	8.2	60°	15
M4*10B	5.7	4	10	60°	15
M5*12B	7.2	5	12	60°	20
M4.5*11C	7	4.5	11	50°	15
M5*11X	7	5	11	45°	20
M3*7Z	4	3	7.2	38°	10
M4*8Z	5	4	8.2	38°	15
M4*9Z	5	4	9	38°	15
M5*11Z	6.6	5	11	38°	20
R4*	4.18	3	7.00	58°	8
R5*	5.95	4	8.65	58°	15
R6*	6.80	5	9.15	58°	20
R8*	7.48	5	12.89	58°	20
R10*	7.97	5	15.30	58°	20
R12.5*	9.55	6	20.43	58°	30
R15*	12	8	24.70	58°	30

General Hexagon Screw

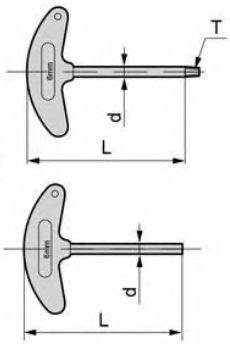


Code No.	Size(mm)			
	d	d1	L	T(H)
HTH0308	3	5.5	8	2.5
HTH0410	4	7	10	3
HTH0416	4	7	16	3
HTH0512	5	8.5	12	4
HTH0516	5	8.5	16	4
HTH0520	5	8.5	20	4
HTH0616	6	10	16	5
HTH0620	6	10	20	5
HTH0625	6	10	25	5
HTH0630	6	10	30	5
HTH0820	8	12.5	20	6
HTH0825	8	12.5	25	6
HTH0830	8	12.5	30	6
HTH0835	8	12.5	35	6
HTH1020	10	15	20	8
HTH1030	10	15	30	8
HTH1225	12	18	25	10
HTH1230	12	18	30	10
HTH1240	12	18	40	10
HTH1250	12	18	50	10
HTH1635	16	24	35	12
HTH1640	16	24	40	12
HTH1650	16	24	50	12

Wrench

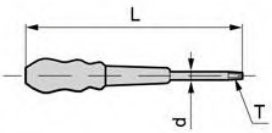


Code No.	Size(mm)		
	d	L	T
T6	2.5	84	6
T8	3	86	8
T10	3	90	10
T15	5	94	15
T20	5	94	20

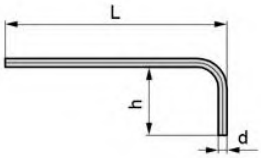


Code No.	Size(mm)		
	d	L	T
T30T	6	120	30

Code No.	Size(mm)		
	d	L	T
TH-20	2	58	2
TH-25	2.5	66	2.5
TH-30	3	72	3
TH-40	4	76	4
TH-50	5	92	5
TH-60	6	102	6

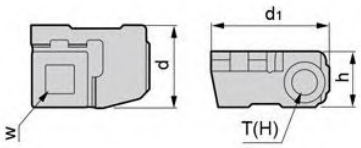


Code No.	Size(mm)		
	d	L	T
T6A	2.5	92	6
T8A	3	94	8
T10A	3	98	10
T15A	5	102	15
T20A	5	102	20

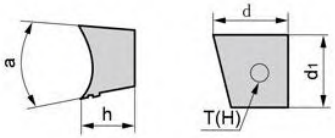


Code No.	Size(mm)		
	d	L	T
L2	2	52	12
L2.5	2.5	60	15
L3	3	65	20
L4	4	70	25
L5	5	78	28
L6	6	85	32

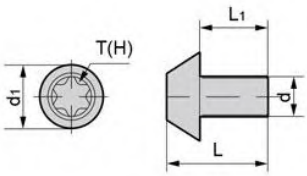
Clamp



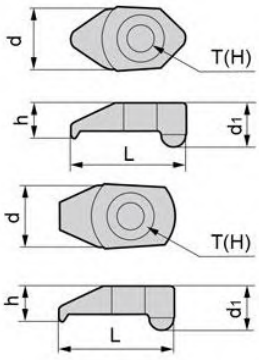
Code No.	Size(mm)				
	d1	d	h	w	T(H)
FC2550-SP1203-45	25	18	12	SPG1203	4
FC2550-SP1504-45	25	18	12	SPG1504	4
FC3050-SP2204-75	30	20	12	TPG2204	4



Code No.	Size(mm)				
	d1	d	L	a	T(H)
SV-128170-15-45	17	12.8	17.5	15°	6
SV-128170-15-75	17	12.8	19.5	15°	8

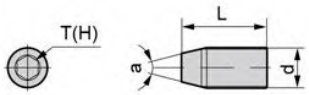


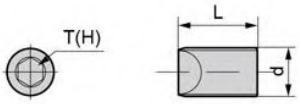
Code No.	Size(mm)				
	d1	d	L1	L	T(H)
HRP-5080T15	5	9	8	12.5	T15
HRP-6080H40	6	13.5	8	13	4
HRP-80120H50	8	18	12	16.5	5
HRP-80160H50	8	18	16	21	5

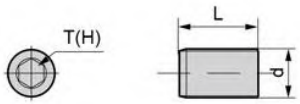


Code No.	Size(mm)				
	d1	d	L1	h	T(H)
ER-30T10	4	7.2	10	2.8	10
ER-40T15	6	8	12	4	15
ER-50T20	6.3	8.5	13	5	20
EM-35T15	5.7	8.5	14.3	4.5	15
EM-50T20	5.8	9.6	16.2	4	20

Screw for Boring







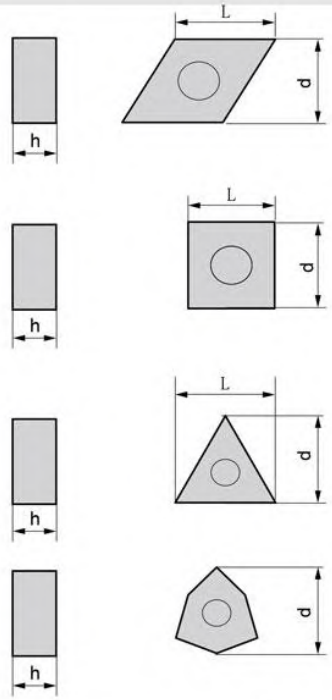
Code No.	Size(mm)			
	d1	L	a	T(H)
AHV0.507-2.5	5	7	60°	2.5
AHV0608-3	6	8	60°	3
AHV0811-4	8	11	60°	4
AHV1014-5	10	14	60°	5
AHV1218-6	12	18	60°	6

Code No.	Size(mm)		
	d	d1	T(H)
AH00815-4	15	8	4

Code No.	Size(mm)		
	d	L	T(H)
AHL0650	6	50	3
AHL0808	8	8	4
AHL0810	8	10	4
AHL0812	8	12	4
AHL0816	8	16	4
AHL0820	8	20	4
AHL0825	8	25	4
AHL0830	8	30	4
AHL1010	10	10	5
AHL1012	10	12	5
AHL1016	10	16	5
AHL1020	10	20	5
AHL1025	10	25	5
AHL1030	10	30	5
AHL1212	12	12	6
AHL1214	12	14	6
AHL1216	12	16	6
AHL1220	12	20	6
AHL1225	12	25	6
AHL1230	12	30	6
AHL1416-6	14	16	6
AHL1615-8	16	15	6
AHL1819-10	18	19	8
AHL2018-10	20	18	10

Code No.	Size(mm)		
	d	L	T(H)
AHL0306	3	6	1.5
AHL0308	3	8	1.5
AHL0404	4	4	2
AHL0405	4	5	2
AHL0406	4	6	2
AHL0408	4	8	2
AHL0410	4	10	2
AHL0412	4	12	3
AHL0416	4	16	2
AHL0420	4	20	2
AHL0506	5	6	2.5
AHL0508	5	8	2.5
AHL0510	5	10	2.5
AHL0512	5	12	2.5
AHL0516	5	16	2.5
AHL0520	5	20	2.5
AHL0525	5	25	2.5
AHL0530	5	30	2.5
AHL0605	6	5	3
AHL0606	6	6	3
AHL0608	6	8	3
AHL0610	6	10	3
AHL0612	6	12	3
AHL0616	6	16	3

Knives Cushion For Lathe



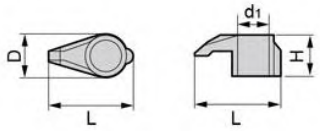
Code No.	Size(mm)		
	d	h	L
MD1103	6	3	11
MD1504	6	4	15
MD1506	6	6	15
MC1204	8	4	12
MC1604	8	4	16
MC1904	8	4	19
MV1603	8	3	16

Code No.	Size(mm)		
	d	h	L
MS1204	6	4	12
MS1504	8	4	15
MS1904	8	4	19

Code No.	Size(mm)		
	d	h	L
MT1603	6	3	16
MT2204	6	4	22

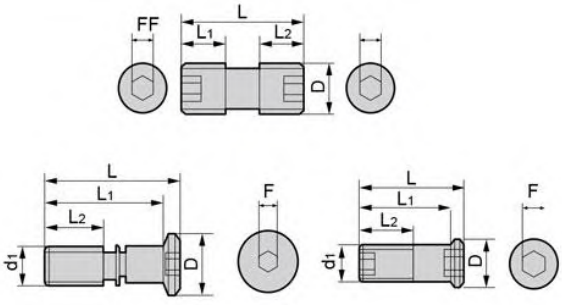
Code No.	Size(mm)		
	d	h	L
MW0603	6	3	12
MW0804	6	4	16

Plate For Lathe



Code No.	Size(mm)			
	D	d1	L	H
MY0619	8.60	6.00	18.15	7.70

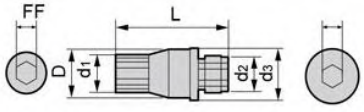
Plate Screw For Lathe



Code No.	Size(mm)				
	D	L1	L2	L	F
ML0625	M6*1.0	8.3	8.3	25.0	3
ML0828	M8*1.0	12.0	10.0	24.7	4

Code No.	Size(mm)					
	D	d1	L1	L2	L	F
CL0515	6.5	M5*0.8	14.0	5.7	15.5	3
DL0517	8.54	M5*0.8	13.3	5.5	15.45	3
DL0520	8.50	M5*0.8	18.6	10.9	20.55	3
DL0525	9.92	M6*1.0	22.1	12.3	26.55	4

Center Screw For Lathe



Code No.	Size(mm)				
	D	d1	d2	d3	L
MX0513	6.20	3.65	M5*0.8	5.46	12.88
MX0613	7.83	5.00	M6*1.0	7.07	15.50
MX0617	7.76	5.00	M6*1.0	7.17	17.20
MX0822	10.20	6.17	M8*1.0	9.45	21.80
MX1022	11.95	7.95	M10*1	11.00	22.10

Optical Electronic Edge Finder

Code No.	Type	Shank Dia	Total Length	Test Tip Dia
OP-20	Illumination but without beep as illustrated pic	3/4"(20mm)	6.3"(160mm)	0.4"(10mm)
OP-32		5/4"(32mm)	6.1"(155mm)	0.4"(10mm)
ES-20	Illumination and beep as illustrated pic	3/4"(20mm)	6.3"(160mm)	0.4"(10mm)
ES-32		5/4"(32mm)	6.3"(160mm)	0.4"(10mm)

Optical Edge Finder

Quick locate working edges.

Save time to find positions,for milling machine, jig borers, and other machine tools.

Is a high sensible position measuring

Uses dry batteries to light the red lamp.

The scope of application includes edge surface, inside and out side diameters and high efficiency.

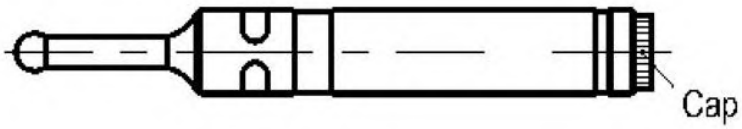
There is a safety spring puller, which will put a ball precisely back to the position when ball breaks away from ball seat.

ES Optical Edge Finder

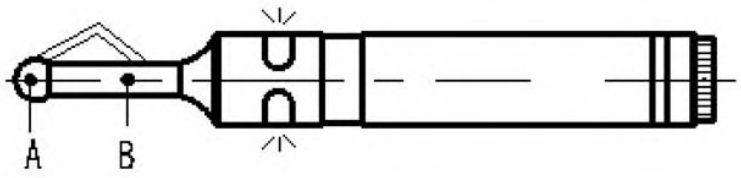
- the red lamp can concentrate light and resist water.
- It will beep at the same time when the red lamp is on.
- When probe is in a deep hole you can't see the red light, but you can hear the sound.

How to use the optical edge finder:

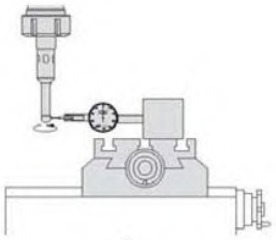
1. Insert the batteries
Take off the batteries' cap and insert batteries correctly. Do not insert batteries upside down.



2. Confirmation of the light
Confirm the lighting of red lamp with touching A-B part with a metal material (clip,L-mench,etc.)



3. Mount the edge finder into tool holder and check if its concentricity is within 0.005mm.
4. Do not place Edge Finder's body below work surface. Be sure that ball center is approximately 1/32" or 1mm below work surface.
5. Move the work table to make the edge of work piece touch the ball of edge finder until the red lamp is illuminate.
6. Mark the reading dial of table movement, backward the table a little and re-touch the work piece to edge finder slightly until the red lamp is on again to make sure of the correct dial reading
1. Zero the reading dial and move the table to the desired position by adding 5mm to the desired dimension X.
2. Take off the edge finer and remount the desired tooling for the machining
T.I.R within 0.0002"-0.005mm.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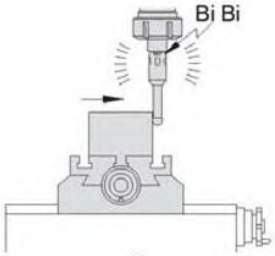

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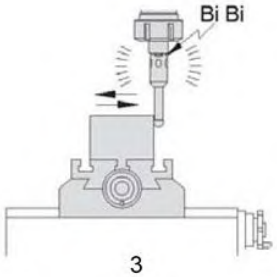

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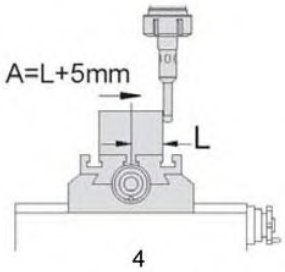

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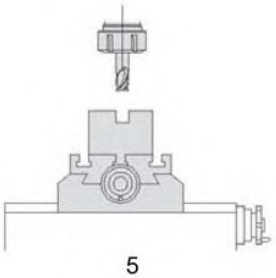
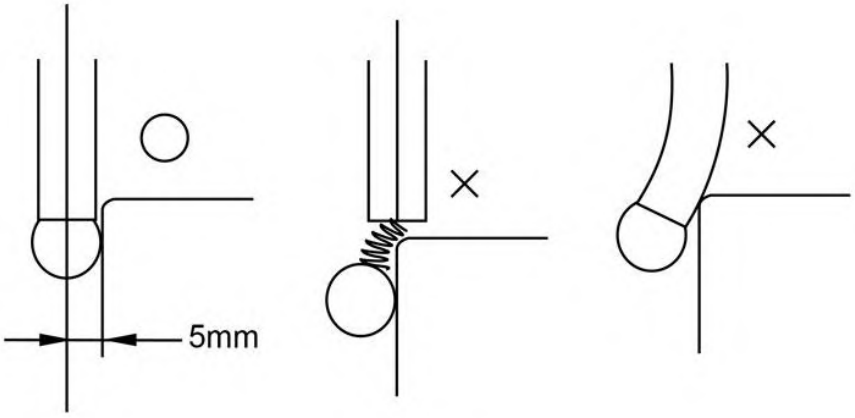

5

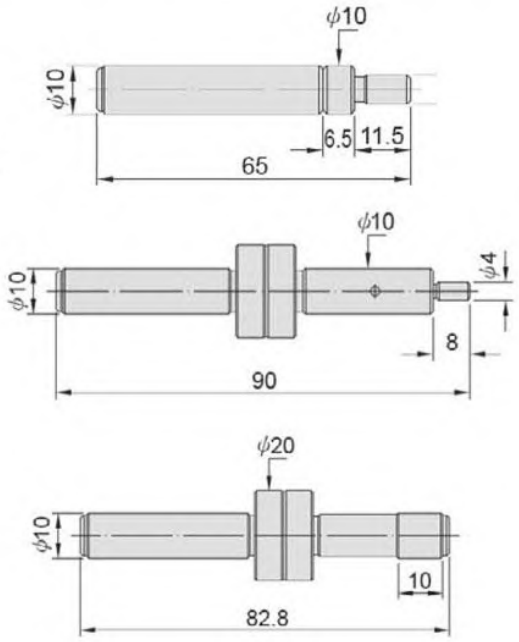
This Edge Finder is damage-free with spring-sustained ball. In case of over-travel, move backward and feed carefully.



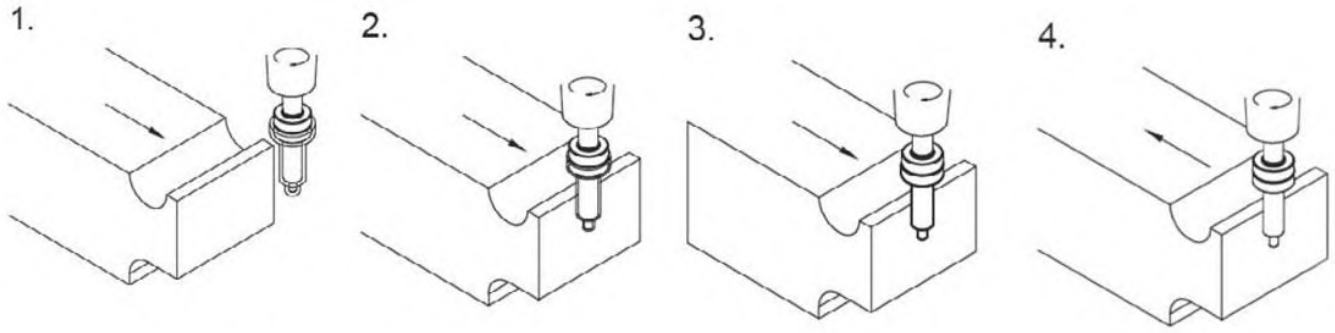
Mechanical Edge Finder

Code No.	Type	Test Dia	Shank Dia	Total Length	Precision
ME-610	SCM-21 steel with Magnetism	Ø6mm	0.4"(10mm)	2.56"(65mm)	0.002mm
ME-1020		Ø10mm	0.4"(10mm)	3.26"(82.8mm)	0.002mm
ME-1020×3/8		Ø10mm	0.4"(10mm)	3.26"(82.8mm)	0.002mm
ME-420		Ø4mmØ10mm	3/8"(9.5mm)	3.54"(90mm)	0.002mm
ME-420×3/8		Ø4mmØ10mm	3/8"(9.5mm)	3.54"(90mm)	0.002mm
HME-420	Hard anodic coating without magnetism	Ø4mmØ10mm	0.4"(10mm)	3.54"(90mm)	0.002mm
HME-1020		Ø10mm	0.4"(10mm)	3.26"(82.8mm)	0.002mm

-Φ10 straight shank head installed in the folder to light that the stator fingers to eccentricity of about 0.5mm.
-The speed of rotation to 400-600/min, so that determination of sub-structures in the processing side face contact, to touch
a little bit of movement, so that child is no longer measured vibration, like a static state.
-And then feed in touch fretting determined child would slip in one direction, the slip is a necessary starting point to find the
location of the base.
-Processing of the end itself, the location of objects is determined with the coordinates of the location of sub-radius.
-Not suitable for use in cross-type device.



-Accuracy of the point to point is within 0.002mm.
-R.P.M. Within-400-600
-Max. Flange is clear for our sight
-4mm is the min. Hole that could be tested.



-suitable for milling machine, drilling machine,boring machine.

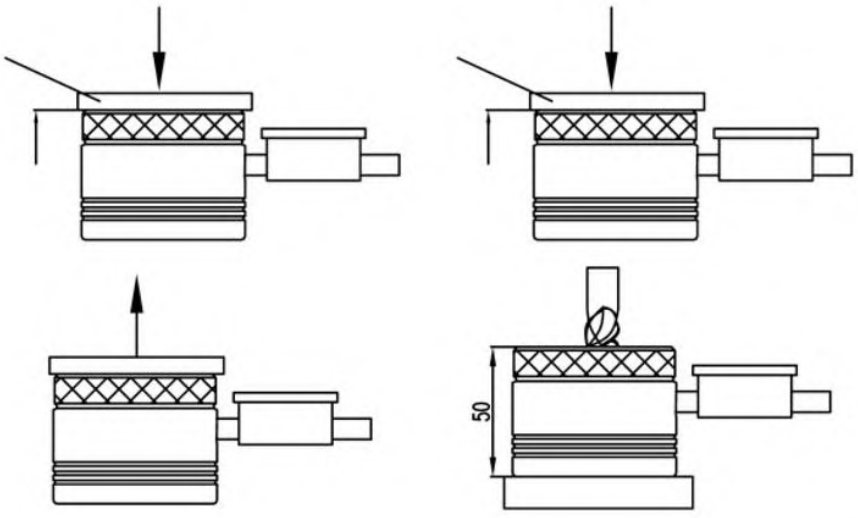
Analog Axial Preset Gauge

HIP50-B

HVP50-B

Feature

Analog Axial preset gauge features
Accuracy 0.0002"
Easy to measure tool depth
Height 50mm
Instructions
1. Use the gauge pin included to press down on the spring-loaded center piece as illustrated. Please be sure the gauge pin is placed on the shiny surface.
2. Turning the indicator to read"0", then remove the gauge pin.
3. Put the unit on the workpiece and carefully jog the tool down to make contact with the gauge face. When the gauge reads"0" the tools is 2"above the workpiece



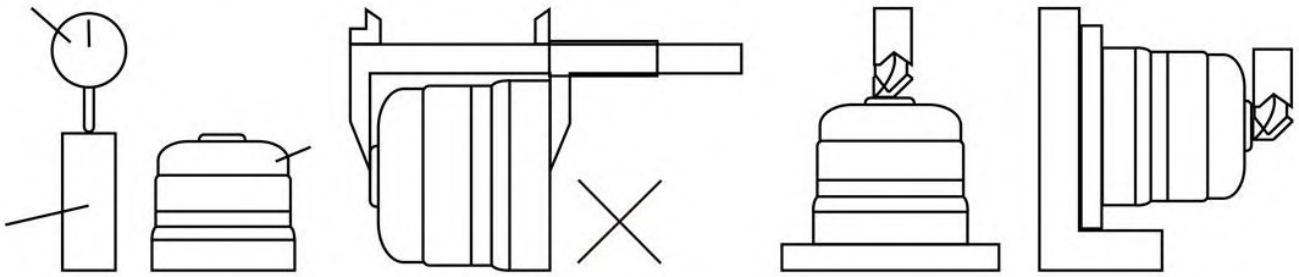
Code No.	Type	Chief Height
HIP50-B	Analog internal as illustrated HIP50-B.	50mm
HVP50-B	Analog external as illustrated HVP50-B.	50mm

Touch Lamp Axial Preset Gauge

ZOP-50

Feature

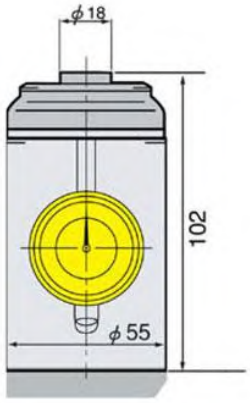
Accuracy 0.0002"
360°red lamp lights up when touched
Chief height (50mm)
Magnetic base(use vertically or horizontally)
Instructions
1. Check height of unit with a gauge block and dial indicator. Turn allen screw on the side of the unit if adjustment is needed.
2. Do not use calipers for presetting unit, only use gauge block.
3. Move the cutting tool tip towards the sensor button until the unit lights up, then reverse direction until the light goes off .
4. When presetting diameter, rotate tool slowly for higher precision.

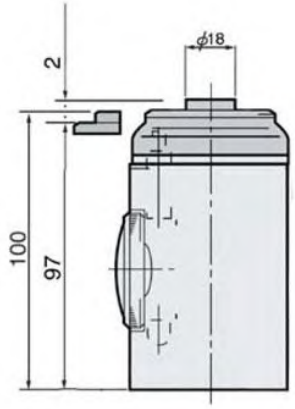


Code No.	Type	Chief Height
ZOP-50	Touch Lamp as inllustrated ZOP-50	50mm

100MM Height Presetter

No need to test cut!
Reference point of work piece can be measured very quickly and accurately without damage of tool teeth.



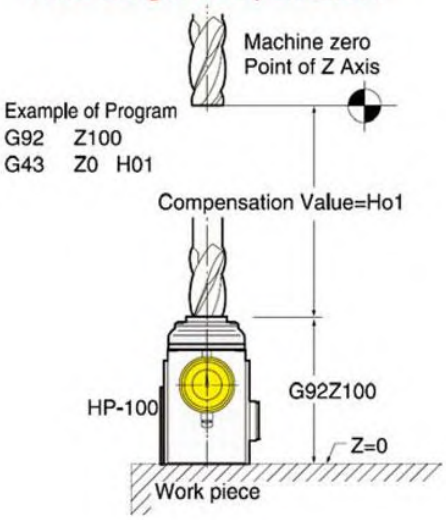


Feature

- High precision measurement
- Easy to accurately measure tooling off-set values on the machine.
- Hard wearing powerful magnetic base.
- It's powerful magnetic base makes it suitable for use on manual machine as well as vertical/Horizontal Machining Centres and NC Lathes.
- Swarf removal
  The magnetic base can keep the reference face clean.
- Plunger Head is given a Anti-rust Rubber seal.

Adjustment of reference point
No setting gauge plate is required to adjust zero point. Push plunger down by hand, and adjust the large hand to the zero scale of dial gauge. The small hand indicated"-3" at this time.

〈Tool Length Compensation〉



Universal 3D-Sensors

Code No.	Shank Dia	Needle Dia
3D-D	20mm	4mm

Test Bar

Code No.
BT30-TA250
BT40-TA300
BT50-TA400

Benchtop Mount Fixtures

- For BT,HSK spindles
- Bolts right to workbench

Code No.
LK-BT30
LK-BT40
LK-BT50
LK-HSK63A
LK-HSK80A

Tool Holder Locking Device

Code No.		
LD-BT30	LD-BT40	LD-BT50

Tooling Sheath

Code No.		
TS-30	TS-40	TS-50

Spindle Taper Wiper

Code No.	Weight (KGS)
BT30	0.05
BT40	0.06
BT50	0.13

Clamping Kit

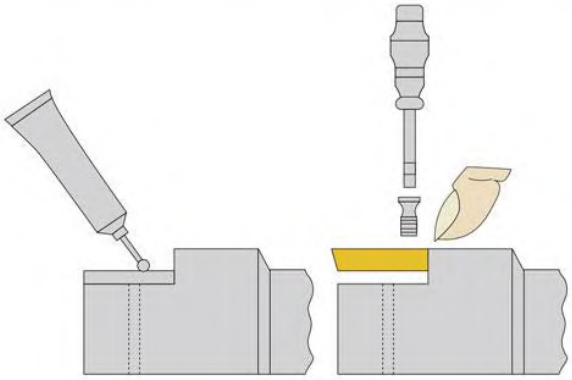
Code No.
CA-12-58P
CA-16-58P
PA-1/2-58P
PA-5/8-58P

Tool Trolley

Code No.	Number of Each Row
TC-30	4×7=28
TC-35	4×7=28
TC-40	4×7=28
TC-45	4×6=24
TC-50	4×5=20

Installation Instructions of Screw and Insert

1.During installation of the insert, anti-seize lubricant must be oiled on the thread of the cutting tools' screw holes.
2.Before locking screws, hands should hold back to make sure the lower surface of the insert to be fitted with the shim.
3.It is not correct to pull the inserts on the position through locking screws which will make it misplaced and failure in locking.
4.When locking the screws, we suggest using our wrench or torque wrench to avoid any damage and make sure the right installation.
5.The above mentioned installation method is suitable for all the cutting tools which are used the center screws to fix the inserts.



Notes

Notices about tooling assembling and disassembling.

-Please fix the tooling into tool-locking device, the following is tooling assembling and disassembling.
-Please don't touch the cutting edge when assembled tooling holders in order to protect the hands.
-In order to ensure security, you should use the fastening wrench we offered.
Make sure that all the fasteners are fixed when assembling the tooling holders in the machine.

Notices of processing

-Do not touch the rotating tool holder or cutting tools.
-Please wear the protective clothing and eyepiece when processing in order to protect you from the damage of flying high-temperature chips.
-Please do not open the protection door of the machine when you rotate the cutting tools in order to prevent accidents in the proccssing.

Notices of the ling-term maintenance of the cutting tools.

-Please remove the cutting tools from tool holder when it is not used for a lang time,or the clamping force and precision gripping of the tool holder will be a decline and the connecting surface will be ternished.
-Please clean the chip cutting fluid of cutting tools and tool holder before preservation,and also can deal with a proper rust prevention treatment,such as anti-rust oil coating.