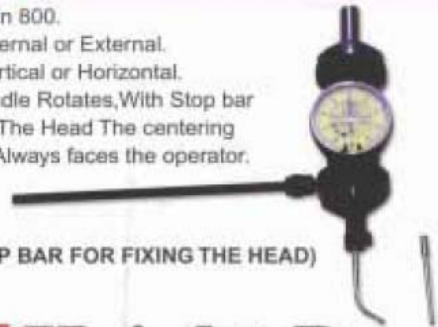


Centering Indicator

- RPM Within 800.
- Use for Internal or External.
- Use for Vertical or Horizontal.
- While Spindle Rotates, With Stop bar for Fixing The Head The centering Indicator Always faces the operator.



(WITH STOP BAR FOR FIXING THE HEAD)

ORDER NO. VCI-170	CODE NO. 3402-130	
Shank	10 ^ø	mm
Length	170	mm
Internal	4 ^ø - 108 ^ø	mm
External	0 ^ø - 108 ^ø	mm
Min. Indicator	0.01	mm
Indicator Range	0 - 6	mm
Weight	0.4 kgs	

Height Presetter



OPTICAL TYPE

	STANDARD TYPE	WITH MAGNETIC BASE
ORDER NO.	HP-50Z	HP-50ZM
CODE NO.	3403-001	3403-002

- Height 50mm.
- With magnetic base.
- The red lamp will be lighted up when touched.
- Accuracy 0.005mm
- Combined vertical and horizontal in a unit.
- Weight: 0.7kgs

3D - TASTER



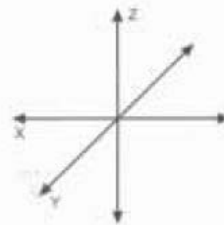
Standard-Stylus

STYLUS
 Change stylus in seconds
 No screws or special tools required
 Easy precision plug-in mechanism

ORDER NO.	TYPE	ACCURACY	CODE NO.
V - 3D	3D-Taster	0.01mm	3219-001

Find your exact zero points in all three axes in seconds with the new distance measuring scale (graduated and analogue).

1. Black scale for radial deflection.
2. Red scale for axial deflection
3. Precise and effortless calipering of fixtures and workpiece edges.
4. Setting of NC-programme zero points in seconds.
5. Measuring of clamped workpieces.
6. Generous overrun allowances prevent damage to Taster stylus.
7. Easy and precise change of stylus.



ORDER NO.	TYPE	WEIGHT	CODE NO.
V-3D-05	ø4x33 standard stylus	10g	3219-005
V-3D-06	ø6x75 long stylus	15g	3219-006

Height Presetter (For Machining Center)



1. Location the height presetter on a place suitable for a reference surface of work piece.
2. Apply the cutter on the measuring surface and slowly lower the Z-axis. Then, cutter gets near to the measuring position.
3. A distance from the reference surface to the tool tip can be measured easily but precisely, so that this presetter is most suitable not only for machining centers but for NC lathes and NC milling machines.

ORDER NO.	Height from reference surface	WEIGHT	CODE NO.
HP-100	100mm	2.6kgs	3403-010

* Magnetic base function can be used in vertical position & horizontal position.
 * HEIGHT: 100mm±0.005

Z-Zero-Setter



HP-50A



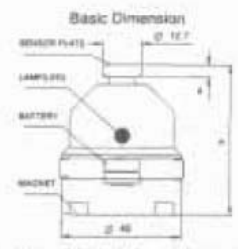
ORDER NO.	H	STYLE	WEIGHT(kg)	CODE NO.
HP-50A	50mm	STANDARD TYPE	1.1	3403-020
HP-50B			1.7	3403-021
HP-50AM		WITH MAGNETIC BASE	1.1	3403-022
HP-50BM			1.7	3403-023

1. Have the central measuring portion of the zero setter presetter against a plain surface and aligned if with the outer reference surface. Turn the dial gauge for zero setting.
2. Have the cutter touched against the z zero setter. Once the indicator position at zero the distance between the tool tip to workpiece is 50mm.



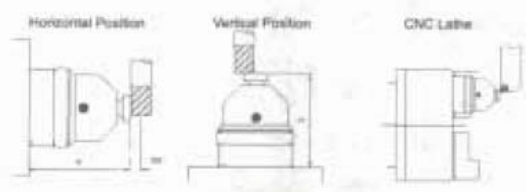
HP-50B

Electronic Tool Length Setter



Stainless Steel Base With Magnet

- HIGH ACCURACY
- EASY OPERATION
- Be sure to remove all chips and all from the sensor plate and the base of the HP-50E as well as from the workpiece and tool.
- To move the tool approaching the sensor plate slowly.
- When touching, the "LED" turns on immediately and "H" is just 50.00 mm.(or2")
- LED will not function if batteries are not set in correctly.
- Designed to be used on ferrous and non-ferrous materials.



Stainless Steel Base With Magnet
 TOOL PRE-SETTER FOR MACHINING CENTERS.
 CNC & STANDARD MILLING MACHINES AND
 CNC & STANDARD LATHES

ORDER NO.	H	STYLE	WEIGHT(kg)	CODE NO.
HP-50EM	50mm	WITH MAGNETIC BASE	0.2	3403-032
HP-100EM	100mm		1.1	3403-033