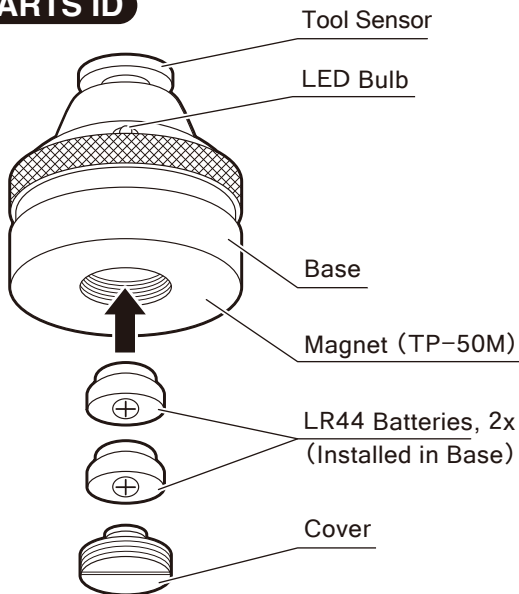


Thank you for purchasing the Niigata Seiki Tool Point.

For safe and proper operation, please read this document thoroughly before use.

PARTS ID



FEATURES

- Precision position detector with LED indicator for quickly locating 0-Points.
(※Workpiece has to be conductive for light to operate.)
- For quick set-up and precision 0-Point setting of NC milling machines, machining centers, etc.

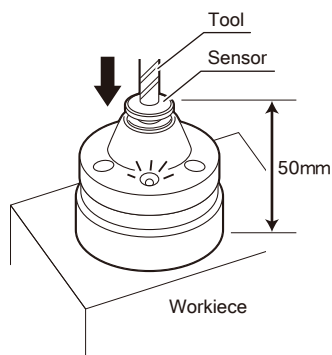
SPECIFICATIONS

Model No.	TP-50	TP-50M
Nominal Size	50mm	50mm
Accuracy	50mm $^{+0.005}_{-0}$	50mm $^{+0.005}_{-0}$
Repeatability	$\pm 1 \mu\text{m}$	$\pm 1 \mu\text{m}$
Force	2.5N	2.5N
Stroke	3mm	3mm
Magnet Force	—	29N ※Bottom magnet
Power	LR44 (Alkaline Cell) 2x provided for test.	
Weight	300g	300g

How to Use

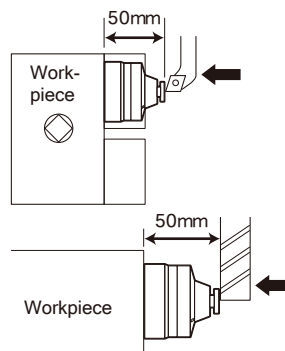
- Wipe any chips or debris from the bottom of the workpiece, cutting tool, and Tool Point before use.
- ※ For best results, please note that high precision requires a flat, smooth workpiece surface.

Z-Axis Set-up



- With tool rotation OFF, slowly move the cutting tool down onto the center of the Tool Point. The light will go on as soon as the tool starts to touch the sensor at the top.
- The distance from the workpiece to the bottom of the tool is 50mm.

X · Y Axis Set-up ※TP-50M (magnetic) only



- With tool rotation OFF, slowly move the cutting tool toward the center of the Tool Point. The light will go on as soon as the tool starts to touch the sensor at the top.
- The distance from the workpiece to the tool is 50mm.

CAUTION

- Workpiece must be electrically conductive for LED light to operate.
- Do not put any oil or anti-corrosives on any surface other than the base bottom and tool sensor.
- Make sure batteries are inserted with correct polarity (+ side toward Cover.)
- Please use care, instrument's small size makes it easily damaged in machine shop.
- Handle with care. This is a precision instrument; protect from shocks or strong forces.
- Keep away from high voltages or strong magnetic fields, they may cause damage to instrument.
- Keep away from direct sunlight, heat sources, or hot locations such as inside a motor vehicle.
- Keep away from oil or water.
- Do not disassemble or modify.
- Please remove battery when not in use for long period of time.
- Use only as directed; improper use may cause accident or injury.

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