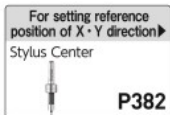


## TOOL POINT GAUGE

Position detection for Z-axis

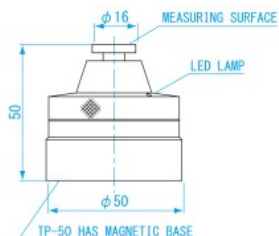


P382



TP-50

### DIMENSIONS Units: mm



#### USE

- High accuracy position detection

#### MATERIAL

- Alloy tool steel

#### FEATURES

- Preset gauge
- Zero point with light sensor (electrical conductivity)
- Zero point setting (NC lathe, machining center)
- Magnetic base (TP-50M)

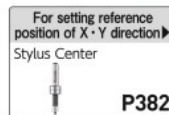
#### POWER

- One LR44 (alkali coin battery) included for testing

Order No.	Model No.	Nominal Size (mm)	Accuracy (mm)	Repeatability	Measuring Force
013205	TP-50	50	50 <sup>+0.005</sup> <sub>0</sub>	± 1μm	2.5N
013206	TP-50M				
Stroke		Magnetic Force		Weight	
3mm		-		300g	
		29N			

## TOOL POINT GAUGE WITH DIAL GAUGE

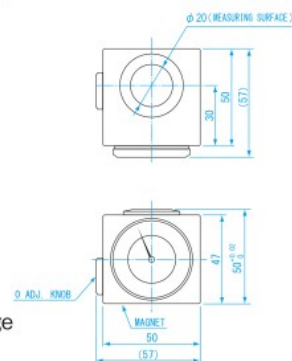
Position detection with dial gauge for O-standard of Z-axis



P382



### DIMENSIONS Units: mm



#### USE

- Position detection with dial gauge

#### MATERIAL

- Measuring surface: SKD11
- Body: Carbon steel for machine structural use

#### FEATURES

- Preset gauge with dial indicator
- Easy zero setting with dial gauge
- With magnet at the bottom surface

Order No.	Model No.	Nominal Size (mm)	Accuracy (mm)	Repeatability (m)	Measuring Force less than	Dial gauge Graduation (mm)
013207	DTP-50M	50	50 <sup>+0.01</sup> <sub>0</sub>	± 10μm	5N	0.01
Stroke		Magnetic Force		Weight		
2mm		100N		840g		

## POINT MASTER WITH CARBIDE TIP

Suitable for scribing by milling operation.  
Replaceable scriber is also available.



P330 ~331

P380



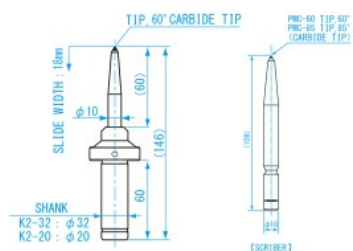
K2-32



K2-20



### DIMENSIONS Units: mm



#### USE

- Scribing for milling operation

#### MATERIAL

- Body·Scriber: Carbon tool steel
- Tip: Carbide tip

#### FEATURES

- Spring loaded engraving tool
- High accuracy scribing can be performed
- Not necessary to rotate
- Tip angle of scriber (included): 60°

#### SPECIFICATIONS

- Slide width: 18mm
- Spring strength: 3.5-4N (for 10mm spring compression)
- Concentricity: 0.02mm
- Steel ball diameter: 5mm
- Suitable feed speed: 145~150mm/min (steel)

Order No.	Model No.	Tip Angle	Length (mm)	Scriber Diameter (mm)	Weight
013420	K2-32	60°	146	10	510g
013425	K2-20				280g
013421	PMC-60 (scriber)	60°	109	10	58g
013422	PMC-85 (scriber)	85°			54g

MAINTENANCE SUPPLIES

TOOLING

DRILL CASE

COUNTER

MEASURING WHEEL

ELECTRIC TOOLS

WORKING TOOLS

SUCTION LIFTER