

CÔNG TY TM DV SX DAI CHI

[www.daichijp.com](http://www.daichijp.com)

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# MEASURING TOOLS

SENSORS



The 3-dimensional touch sensor that detects touch-position instantaneously.

## PMPC Series

**With battery alarm function**

- Instantaneously detects reference points even on non-conductive workpieces and machines!
- Notification of touchpoint with LED and beep.



For all workpieces and machine tools



Notifies via LED

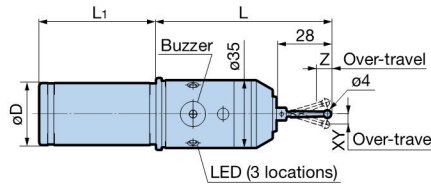


Notifies via buzzer



LED flashes to indicate that battery life is low

### Cylindrical Shank Type



Model	øDh7	L	L <sub>1</sub>	Weight (kg)
<b>PMPC-20</b>	20	100	50	0.5
<b>PMPC-32</b>	32	90	60	0.7

1. ST28-4R stylus is included.

For stylus replacements, **I4**

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### BBT Shank Type (BIG-PLUS)

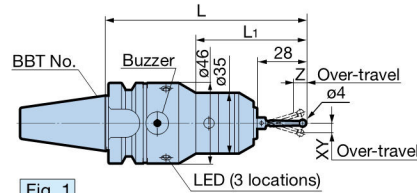


Fig. 1

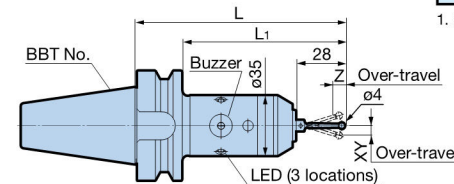


Fig. 2

BIG-PLUS (BBT Shank) tools can be used on both BIG-PLUS spindles and conventional **BT** spindles.

Model	Fig.	L	L <sub>1</sub>	Weight (kg)
<b>BBT30-PMPC-115</b>	1	115	63	0.8
<b>BBT40-PMPC-120</b>	2	120	93	1.3

1. ST28-4R stylus is included.

For stylus replacements, **I4**

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### Main Specifications

Repeatability	±1μm (2σ)	
Over-travel	XY ±12mm Z 5mm	
Measuring pressure	XY 0.4N Z 1.5N	
Battery	<b>PMPC-20, 32</b>	LR1 x 2P
	<b>BBT40-PMPC-120</b>	
	<b>BBT30-PMPC-115</b>	

Battery life	<b>PMPC-20, 32</b>	280 continuous hours
	<b>BBT40-PMPC-120</b>	
	<b>BBT30-PMPC-115</b>	

1. The specifications above are values when ST28-4R stylus is used.
2. Repeatability is affected by stylus length.
3. There is a delay of approx. 5μm in XY direction and 2μm in Z direction when the stylus contacts the workpiece measuring surface to illuminate the LED.

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### PMP Series

- Instantaneously detects reference points even on non-conductive workpieces and machines!
- Ideal for high-speed machining centers with ceramic bearings.

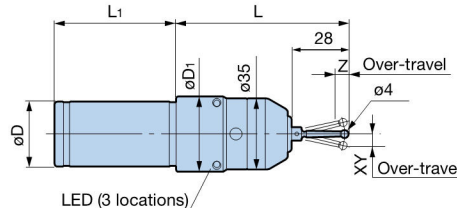


For all workpieces and machine tools



Notifies via LED

#### Cylindrical Shank Type



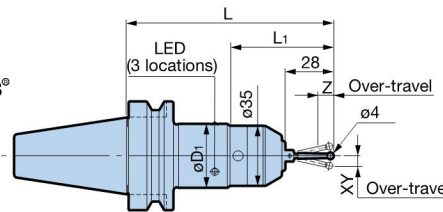
LED (3 locations)  
※ PMP-10 has LED in 1 location only.

Model	øDh7	øD1	L	L1	Weight (kg)
<b>PMP-10</b>	10	35	75	49	0.4
<b>PMP-20</b>	20	37	90	50	0.5
<b>PMP-32</b>	32		80	60	0.6

1. ST28-4R stylus is included.

For stylus replacements, I4

#### BBT Shank Type



BIG-PLUS (BBT Shank) tools can be used on both BIG-PLUS spindles and conventional BT spindles.

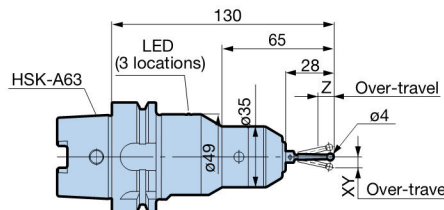
Model	øD1	L	L1	Weight (kg)
<b>BBT30-PMP-115</b>	46	115	63	0.8
<b>BBT40-PMP-120</b>	37	120	60	1.3
<b>BBT50-PMP-150</b>	37	150	60	3.8

1. ST28-4R stylus is included.

For stylus replacements, I4

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#### HSK-A63 Shank Type (DIN 69893-1) (ISO 12164)

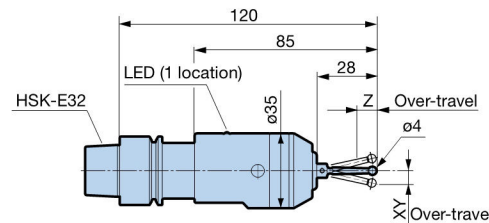


Model	Weight (kg)
<b>HSK-A63-PMP-130</b>	1.3

1. ST28-4R stylus is included.

For stylus replacements, I4

#### HSK-E32 Shank Type (DIN 69893-5)



Model	Weight (kg)
<b>HSK-E32-PMP-120</b>	0.5

1. ST28-4R stylus is included.

### Main Specifications

Repeatability	±1μm (2σ)	
Over-travel	XY ±12mm Z 5mm	
Measuring pressure	XY 0.4N Z 1.5N	
Battery	<b>PMP-10</b>	Panasonic lithium battery BR435 x 1P
	<b>PMP-20, 32</b> <b>BBT40-PMP-120</b>	LR1 x 2P
	<b>HSK-A63-PMP-130</b> <b>BBT30-PMP-115</b>	CR2 x 1
	<b>HSK-E32-PMP-120</b>	SR44 x 2P
	<b>BBT50-PMP-150</b>	LR03 x 2P

Battery life	<b>PMP-10</b>	180 continuous hours
	<b>PMP-20, 32</b> <b>BBT40-PMP-120</b>	500 continuous hours
	<b>HSK-A63-PMP-130</b> <b>BBT30-PMP-115</b>	900 continuous hours
	<b>HSK-E32-PMP-120</b>	90 continuous hours
	<b>BBT50-PMP-150</b>	600 continuous hours

1. The specifications above are values when ST28-4R stylus is used.
2. Repeatability is affected by stylus length.
3. There is a delay of approx. 5μm in XY direction and 2μm in Z direction when the stylus contacts the workpiece measuring surface to illuminate the LED.

## PMC Series

- Instantaneous detection with LED and beep.
- LED flashes to notify low battery life while measuring workpieces.



For use with conductive workpieces and machine tools



Notifies via LED

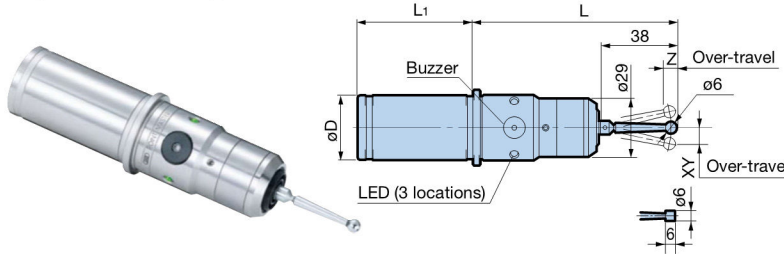


Notifies via buzzer



LED flashes to indicate that battery life is low

### Cylindrical Shank Type



Model	øDh7	L	L <sub>1</sub>	Battery	Weight (kg)
PMC-20	20	110	50	LR1 x 2	0.4
-20S					
-32	32	102	58	LR1 x 2	0.6
-32S					

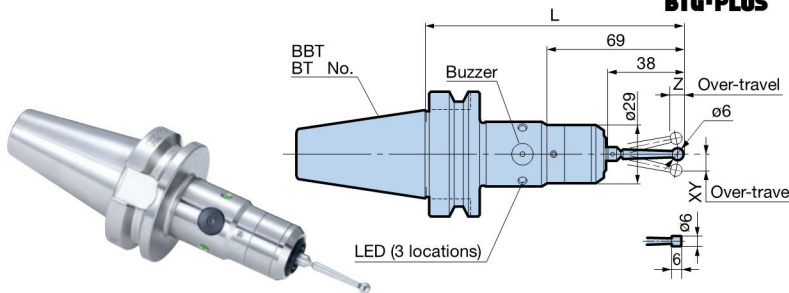
1. ST38-6P stylus is included. Models with an S at the end of the model number include ø6 cylindrical ST38-6X6 stylus.
2. Cannot be used with non-conductive workpieces and machines with ceramic bearings. Use POINT MASTER PRO.

For replaceable stylus. **I4**

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### BT/BBT Shank Type



### BIG-PLUS BBT Shank Type

Model	L	Battery	Weight (kg)
BBT40-PMC-130	130	LR1 x 2	1.2
-PMC-130S			
BBT50-PMC-160	160	LR03 x 2	4.0
-PMC-160S			

1. ST38-6P stylus is included. Models with an S at the end of the model number include ø6 cylindrical ST38-6X6 stylus.
2. Cannot be used with non-conductive workpieces and machines with ceramic bearings. Use POINT MASTER PRO.

Model	L	Battery	Weight (kg)
BT40-PMC-130	130	LR1 x 2	1.2
-PMC-130S			
BT50-PMC-160	160	LR03 x 2	4.0
-PMC-160S			

1. ST38-6P stylus is included. Models with an S at the end of the model number include ø6 cylindrical ST38-6X6 stylus.

For replaceable stylus. **I4**

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### Caution

Pullstud bolts with a center through hole cannot be used. Contact us if a center-through specification machine requires a pullstud bolt with a hole due to the coolant nozzle.

### Main Specifications

Probe repeatability	±1 μm (2σ)		
Over-travel	XY ±12mm	Z 5mm	
Measuring pressure	XY 0.6N	Z 2.7N	
Battery life	PMC-20, 20S, 32, 32S	300 continuous hours	
	BBT(BT)40-PMC-130, 130S		
	BBT(BT)50-PMC-160, 160S		

1. The specifications above are values when the standard accessory stylus is used.

PMG Series

- Instantaneous detection with LED.

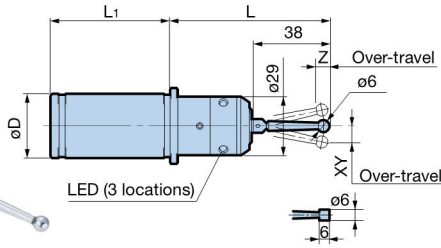


For use with  
conductive  
workpieces and  
machine tools



Notifies  
via LED

Cylindrical Shank Type



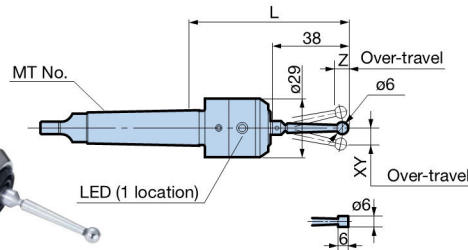
※ PMG-10 and PMG-10S have LED in 1 location only.

Model	øDh7	L	L <sub>1</sub>	Battery	Weight (kg)
<b>PMG-10</b>	10	75	50	Panasonic lithium BR435 x 1	0.2
-10S					
-20	20	90	50	LR1 x 2	0.3
-20S					
-32					
-32S	32	80	60	LR1 x 2	0.5

1. **ST38-6P** stylus is included. Models with an S at the end of the model number include ø6 cylindrical **ST38-6X6** stylus.

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Morse Taper Type



Model	MT No.	L	Battery	Weight (kg)
<b>PMG-MT2</b>	MT2	80	Panasonic lithium BR435 x 1	0.2
-MT2S				

1. LED in 1 location only.  
2. **ST38-6P** stylus is included. Model with an S at the end of the model number includes ø6 cylindrical **ST38-6X6** stylus.

Main Specifications

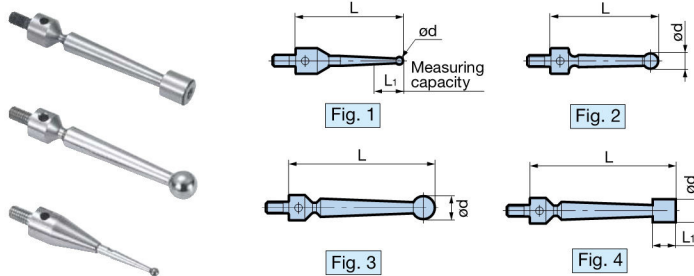
Probe repeatability	±1 μm (2σ)	
Over-travel	XY ±12mm	Z 5mm
Measuring pressure	XY 0.6N	Z 2.7N
Battery life	<b>PMG-20, 20S, 32, 32S</b>	80 continuous hours
	<b>PMG-10, 10S, MT2, MT2S</b>	150 continuous hours

1. The specifications above are values when the standard accessory stylus is used.

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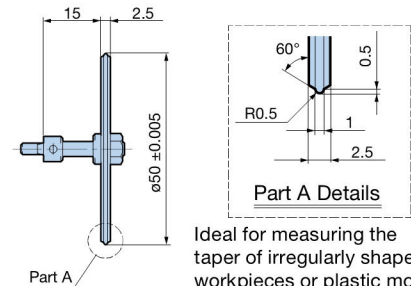
<Replaceable Stylus> Optional Product For PMPC, PMP, PMC, PMG Series

M3 threading has been applied to make the stylus replaceable, allowing replacement if it is damaged or according to the workpiece shape.



Model	Fig.	L	L <sub>1</sub>	ød	Weight (g)	Stylus Tip	Point Master Model	
<b>ST28 -1P</b>	1	28	-	2	1	2.0	Carbide	PMG/PMC PMP/PMPC
-2P				8	2	2.0		
-3P				3	2.5			
-4P				4	2.9			
<b>ST28 -4R</b>	2	-	4	2.6	Ruby	PMP/PMPC		
<b>ST38 -6P</b>	3	38	-	6	4.8	Steel (SUS)	PMG/PMC	
<b>ST38 -6 x 6</b>	4	-	6	4.8	PMG□□S/PMC□□S			

※ ST38-6 x 6 stylus is exclusive for PMG □□ S/PMC □□ S models. Mounting on other models will negatively affect the runout accuracy.



Ideal for measuring the taper of irregularly shaped workpieces or plastic molds.

Model	ST15-50K
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※ Exclusive for PMG/PMC Series.