

UNIVERSAL MICRO TOUCH

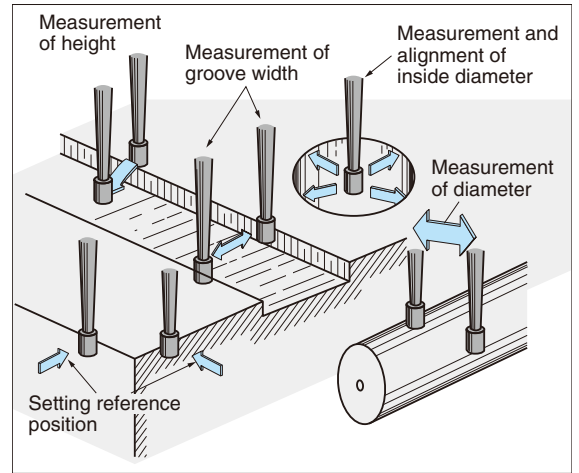


3D Electronic Edge Detector of Basic Point

- Precision Touch Sensor
Repeatability ± 2 micron.
- Long Safety Over-Travel Distance protects from damage. X, Y = ± 7 mm Z = 3mm
- Red lamp and electronic beep sound notice the touching position. When touching to the work piece, red lamp immediately lights up all around. The one with BT shank gives the electric beep sound also to make double notices.

How to obtain touching position

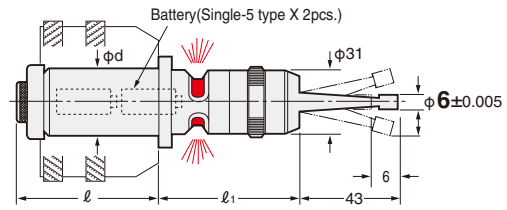
Make the stylus slowly get near to the measuring surface of work piece and the red lamp will light at the moment when the former touches the latter. A position where 3mm is compensated from that position (because of 6mm stylus diameter), is the touching position to be obtained.



Straight Shank UMT MICRO TOUCH



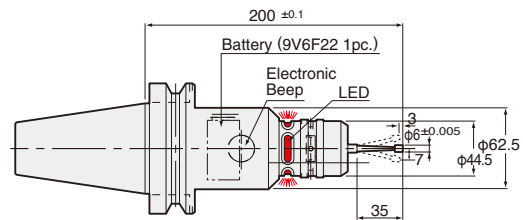
UMT



| Code No. | ϕd | ℓ | ℓ_1 | Weight (Kg) |
|----------|----------|--------|----------|-------------|
| S20-UMT | 20 | 68 | 61 | 0.4 |
| S32-UMT | 32 | 65 | 65 | 0.7 |
| MT2-UMT | MT2 | 66.5 | 75 | 0.4 |

★Ball type $\phi 6$ mm stylus is also available : S32-UMTB

BT-UMT-W MICRO TOUCH



| TAPER | Code No. | Weight (Kg) |
|--------|--------------|-------------|
| No. 30 | BT30-UMT200W | 2.1 |
| No. 40 | BT40-UMT200W | 2.7 |
| No. 50 | BT50-UMT200W | 5.0 |

★Ball type $\phi 6$ mm stylus is also available : BT40-UMTB200
★IT40-UMT200W and IT50-UMT200W are also available.

BT-UMTH MICRO TOUCH for ring sensor

For Machining Centre with ring sensor, the electric circuits are different from standard, please purchase this through M/C Builder.



Universal Micro Sensor



UMS

- Repeatability ± 1 micron
- Perfect water/dust proof
- Inductive signal transmission type (No need for battery)
- The sensor signal can be managed with ultra high speed.
- Because of its internal circuit contact type, this sensor can be used for any materials of components.
- Interchangeable stylus. 50mm (standard), 100mm (Option)

BT30-UMS200

BT40-UMS200

BT50-UMS200

Please contact with us for more details.

| Specification | |
|-----------------|---------------|
| X-Y Over-Travel | 10mm |
| Z Over-Travel | 6mm |
| Stylus | $\phi 6$ Ball |
| Transmission | Inductive |

UNIVERSAL MICRO TOUCH with INTERNAL CONTACT SYSTEM **NIKKEN**

Internal Contact System - can be used for not conductive work piece.

- Precision Touch Sensor
Repeatability ± 2 micron.
- Long Safety Over-Travel Distance protects from damage. X, Y = ± 7 mm Z = 3mm
- Not conductive work piece can be measured. Internal contact system is built-in.
Blue lamp and electronic beep sound notice the touching position. After touching to the work piece, blue lamp lights up all around. The one with BT shank gives the electric beep sound also to make double notices.

How to obtain touching position

Make the stylus slowly get near to the measuring surface of work piece and the blue lamp will light at the moment when the former touches the latter. A position where 2mm is compensated from that position (because of 4mm stylus diameter), is the touching position to be obtained.



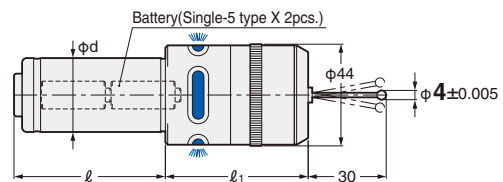
Photo shows with ruby stylus (option).

Straight Shank UMTX MICRO TOUCH



UMTX

Ruby stylus is available as an option.



| Code No. | ϕd | ℓ | ℓ_1 | Weight (Kg) |
|-----------------|----------|--------|----------|-------------|
| S20-UMTX | 20 | 68 | 64 | 0.5 |
| S32-UMTX | 32 | 65 | 64 | 0.8 |
| MT2-UMTX | MT2 | 66.5 | 64 | 0.5 |

★Battery is supplied as standard.

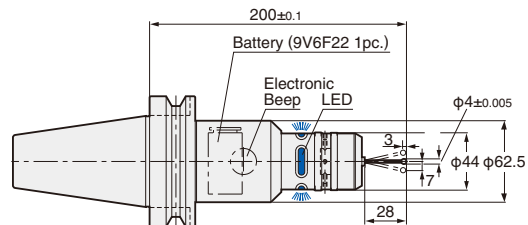
★The delay of the system is within 0.01mm, because of the internal contact system.

BT-UMTX MICRO TOUCH



BT-UMTX

Ruby stylus is available as an option.



| TAPER | Code No. | Weight (Kg) |
|---------------|----------------------|-------------|
| No. 30 | BT30-UMTX200W | 2.3 |
| No. 40 | BT40-UMTX200W | 2.9 |
| No. 50 | BT50-UMTX200W | 5.2 |

★Battery is supplied as standard.

★The delay of the system is within 0.01mm, because of the internal contact system.

Specification

| | | |
|--------------------|--|--------------------------------------|
| Measuring Pressure | X, Y = 0.35N Z = 0.8N | |
| Battery | Straight Shank | An alkali dry cell Model 5 1.5V 2pcs |
| | BT Shank | Manganese dry cell 6F33 X 9V 1pcs |
| | 36 Hours | |
| Stylus | Standard : $\phi 4$ mm steel stylus Option : $\phi 4$, $\phi 3$, $\phi 2$ and $\phi 1$ mm ruby stylus The ruby stylus can not be ordered alone. Please order the Micro Touch with the ruby stylus. When ordering, please add (RB○) at the end of the Micro Touch Code No. | |
| | <p>e.g. BT30-UMTX200W (RB2) └ With $\phi 2$mm ruby stylus</p> <p>S32-UMTX (RB4) └ With $\phi 4$mm ruby stylus</p> | |