ACCESSORY

The only active scanning probe that the measuring force is controllable





VAST XT probe head combines the two probing technology: point-to-point measurement and high-speed scanning measurement. This enables dimension measurement as well as profile inspections and position inspections.

| Probe Model | | VAST XT gold | | |
|--------------------|-----------------------|---------------|--|--|
| Single point | | 0 | | |
| Active scanning | | 0 | | |
| Measuring force | | Min. 50 mN | | |
| Measurement time | Point measurement | 2 sec/point | | |
| | Scanning measurement | 200 point/sec | | |
| Applicable stylus | Stylus length | Max. 500 mm | | |
| | Stylus weight | Max. 500 g | | |
| | Minimum ball diameter | φ 0.5 mm | | |
| Navigator function | | 0 | | |

VAST XT gold

Features

An adapter plate is equipped to VAST XT probe head.

A reference plate is marked with a red ring.



It is possible to attach a stylus to an adapter plate using an extension shaft, adapter or joint. The available lengths of extensions are 40 mm to 600 mm.



A rack for stylus automatic change system can store several adapter plates with various styli. Automatic exchange of styli as needed improves measuring efficiency.



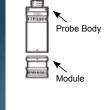
X ACCRETECH TOKYO SEIMITSU

Touch-TriggerProbes



TP200

Probe corresponding to stylus automatic change system. Sensing mechanism is integrated in probe body.



TP20

Probe corresponding to stylus automatic change system. Sensing mechanism is integrated in

module.

Module

TP2

Basic type probe of TP200 and TP20.



| Model | | TP200 | TP20 | TP2 | |
|--------------------------------|----------------------|--|----------------------|--|--|
| Measuring direction | | ±X, ±Y, ±Z ±X, ±Y, +Z | | ±X, ±Y, +Z | |
| Repeatability (2 σ) | | 0.4 µm or less 0.35 µm or less (at 50 mm of stylus length) | | 0.35 μm or less (at 10 mm of stylus length) | |
| Measuring force (SF module) | Vertical direction | About 0.02 N (2 gf) | About 0.08 N (8 gf) | About 0.07 to 0.15 N (7 to 15 gf) | |
| | Horizontal direction | About 0.07 N (7 gf) | About 0.75 N (75 gf) | About 0.4 N (40 gf) | |
| Module change repeatability | Auto change | ±0.5 μm | ±0.5 μm | | |
| | Manual change | ±1.0 μm | ±1.0 μm | - | |
| Sylus change rack model | | SCR200 | MCR20 | | |

PTS-30

Tokyo Seimitsu's high-accuracy probe. Measuring force is 0.01 N with high-sensitivity sensing method. It can be used in combination with a stylus, which max. length is 20 mm and max. weight is 300 g.



MH20i

Probe with manual vertical and horizontal axes rotating mechanism, which is reproducible in positioning.



PH1-TP2

Probe with manual vertical and horizontal axes rotating mechanism, which is widely used for manual coordinate measuring machine.



TP1

Basic probe used widely for manual coordinate measuring machine. Photo shows a probe with swing mechanism.



| Model | | PTS-30 | MH20i | PH1-TP2 | TP1 |
|-----------------------|----------------------|---|--|--|---|
| Measuring direction | | ±X, ±Y, ±Z | ±X, ±Y, +Z | ±X, ±Y, +Z | ±X, ±Y, +Z |
| Repeatability (2 σ) | | 0.5 µm or less (at 50 mm of stylus length) | 0.35 μm or less (at 10 mm of stylus length) | 0.35 μm or less (at 10 mm of stylus length) | 0.5 µm or less (at 31 mm of stylus length) |
| Measuring force | Vertical direction | About 0.01 N (1 gf) | About 0.08 N (8 gf) | About 0.07 to 0.15 N (7 to 15 gf) | About 0.1 to 0.5 N (10 to 50 gf) |
| | Horizontal direction | About 0.01 N (1 gf) | About 0.75 N (75 gf) | About 0.4 N (40 gf) | About 0.4 to 2.5 N (40 to 250 gf) |
| Rotation mechanism | Vertical direction | - | 0 to 90° (15°steps) | ±115° | |
| | | | ±180° (15°steps) | 360° (15°steps) | - |



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