ACCESSORY
The only active scanning probe that the measuring force is controllable

VAST XT gold

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.

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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.
Touch-Trigger Probes

PH10T

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

TP200

TP20

TP2

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

Model

TP200

TP20

TP2

Measuring direction

±X, ±Y, ±Z

±X, ±Y, ±Z

±X, ±Y, ±Z

Repeatability (2σ)

0.4 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)

Measuring force

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 (2σ)

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 0.75 N (75 gf)

0 to 90° (15°steps)

Horizontal direction

About 0.01 N (1 gf)

About 0.07 to 0.15 N (7 to 15 gf)

About 0.4 N (40 gf)

±180° (10°steps)

Rotation mechanism

Vertical direction

- 0 to 90° (15°steps)

- 360° (15°steps)

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