

Composition of Probe

STP-42 cable probe consist of three pieces:

- 1) STP-42 trigger probe unit;
- 2) One four-core, oil proof shielded cable with aviation plug at one end.
- 3) Stylus.



Technical Parameters

- ◆ Stylus sensing direction: $\pm X, \pm Y, +Z$;
- ◆ Stylus sensing over-travel : $X-Y \pm 12^\circ, Z +5 \text{ mm}$;
- ◆ Unidirectional repeatability (2σ) : $\leq 2 \mu\text{m}$;
- ◆ Input voltage is $24\text{V} \pm 10\%(\text{DC})$ and output load current is 50 mA.
- ◆ Seal grade: IP 68.

Technical Characteristics

- ◆ The signal interface of probe is integrated inside the probe, and the trigger signal is transmitted by cable;
- ◆ By changing the power supply' s polarity at the probe interface, the logic state of the output signal can be reversed;
- ◆ The stylus connector of the probe is protected by double layers of rubber seal.
- ◆ The probe uses cable with aviation plug to transmit signals , which can be quickly installed and discounted, providing convenience for the application of the probe in different equipments.

Application

- ◆ Setting work-piece coordinate system and machining zero points automatically before processing;
- ◆ Detect and control the key dimensions, position coordinates and their precision automatically between two processes;
- ◆ Detect precision of the key dimensions, shapes, position after processing.
- ◆ Applicable equipments: various specifications of CNC grinding machines, CNC lathes and specially measuring devices.

