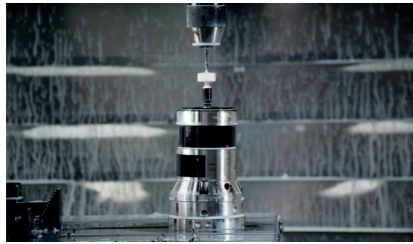# RTS-20M Radio Tool Setter System

Composition of Probe System

RTS-20M radio tool setter system include two pieces of hardware and one software package, the two pieces of the hardware are:
1) RP610T tool setter;
2) RSI-20D receiver(the standard cable length 8m/the optional lengthened cable).
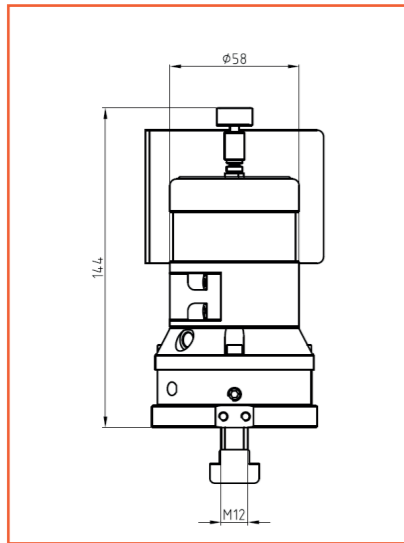

Technical Parameters

1) The technical parameters of RP610T radio tool setter :
◆ Sensing direction of the pillar: ±X, ±Y, -Z;
◆ The pillars sensing over-travel : X-Y±12° , Z -5 mm;
◆ The pillar's hardness : HM8.5 ;
◆ The trigger repeatability of the pillar(2σ): ≤ 1 μm;
◆ Radio signal receiving/sending distance : ≤ 14 m;
◆ Working days of new batteries (5% utilization rate in a single shift):280- 320 days;
◆ Seal grade: IP68.
2) RSI-20D radio receiver technical parameters:
◆ Radio signal receiving/sending distance: ≤ 14 m;
◆ Input voltage is 24V±10% (DC) and output load current is 50 mA.
◆ Seal grade: IP68.

Technical Characteristics

◆ Tool setter switch on/off method: M code on/off;
◆ Radio code signals are used to transmit information between the tool setter and the receiver.
◆ The transmission frequency of the radio signal is within 2.4 G-2.483 G, the number of transmission channel is 16;
◆ The position of tool setter pillar can be roughly and precisely adjusted by the connecting link of the pillar and the adjusting link of tool setter for mounting.

Application

◆ Set lengths parameter of cutting tools automatically before CNC processing;
◆ Detect wear and breakage of cutting tools automatically between two processes or after the CNC processing;
◆ Through checking cutting tool parameters to control the change of machining precision from the temperature change of the machine;

RTS-20M Radio Tool Setter System

Basic configuration of the probe system

1) RP610T tool setter
◆ Standard tool setter pillar size: 16*16*8（mm）;
◆ Battery specification: 14250, 3.6V, 1000mAh; 2 ps.;.
2) RSI-20D receiver
◆ The cable length usually is 8 meters;
◆ Fixed bracket with universal adjustment function is equipped.

Notes:

◆ If the square pillar of tool setter is needed, customers should give special instructions when ordering the products.
◆ As for the cable length, verify if the 8-meter cable equipped with the RSI-20D receiver is enough for installing it in the machine tool. If it is not, the additional instruction is required when ordering the product;