



TABLE TOP IMMERSION SCANNERS

Affordable scanners for laboratory use. Made with quality components, they are designed to automate the inspection process. Built with linear guides from Bosch and driven by Siemens motors and amplifiers, they can be used for high accuracy scans at moderate speeds. They are available in three standard sizes as a two-axis scanner, with a manually adjustable manipulator.

The tanks are customizable and can be delivered with many accessories and software options.

CONSTRUCTION

- Aluminum profile
- 1/2 in Acrylic Tank with drain
- X and Y Axes - Bosch Rexroth CKK 90 Aluminium module
 - 12 mm precision ball screw with pre-loaded ball nut, 5 mm pitch, two rows of angular thrust bearings
 - Fully covered actuator to protect against water
- X axis supported by Stainless Steel guide
- Manipulator - adjustable and lockable in position
- Conventional UT probe holder - manual adjustment for perpendicularity
- Ventilated operator cabinet with integrated control to house all electronics:
 - 7 in Siemens Panel for automation control
 - Simatic S7-1500 controller
 - Integrated E-Stop
 - Encoder output module (X and Y)
- S210 Siemens Servo Drives
- 1Fk2 Siemens Servo-Motors with multi-turn absolute encoders, one cable connection for power and encoder

UT INTEGRATION

Standard TABLETOP scanner are operating independently of the ultrasonic or Eddy Current instrumentation. The Panel controls all automation sequence such as raster scan set-up (scan length, index resolution, speed), jog motion (X and Y, step or continuous mode), start, pause, stop, home and saved X-Y positions.

Lab. scanner
3 models
Variety of options

TABLETOP

MODELS	TT1212	TT1616	TT2424
RANGE	12 X 12 in (305 x 305 mm)	16 X 16 in (406 x 406 mm)	24 x 24 in (600 x 600 mm)
TANK SIZE	Range + 6 in (152 mm) , Height 12 in		
PROBE HOLDER	Conv. UT, manual adjustments for A and B axes		
MANIPULATOR HEIGHT	16 in (406 mm)		
ACCURACY	+/- 0.01 in (.25 mm)		
MAX. SPEED	5 in/s, (125 mm/s)		

TABLE TOP scanners designed for laboratory scans

OPTIONS

- INCREASED HEIGHT : **Z18** : 18 in tank and longer manipulator, **Z24**: 24 inch tank and longer manipulator
- PROBE HOLDER: **PA** Holder for Phased Array and Conventional transducers, **SHEAR PA** ; Includes a manual gear to adjust holder to produce angle beams
- FILTRATION. **FILT1**: Cartridge filter and water pump **FILT2**: Cartridge filter, water pump, heater
- PART POSITIONING. **PART1**. Base plate SS 300 x 300 mm x 6 mm , m6 threaded hole, 12.5 mm spacing. 4 leveling feet
- HMI: **HMI** software allows full control of the instrumentation from a PC and includes communication with PLC and instrument. HMI may be customized.

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