

LS-50 Compact immersion scanner- suitable for manufacturing sites, metallurgical labs and research institutes.

PRODUCT DESCRIPTION

The LS-50 is a **compact, fully integrated** ultrasonic immersion system providing an optimal **cost-effective** solution for inspection of discs, bearing rings, bars, metallurgical samples, monolithic composites parts and more.

Although small, LS-50 scanners are complete systems containing UT electronics, mechanics, motion control and software, all designed, manufactured and integrated by ScanMaster. The LS-50 includes all the standard features of the CSI application, ScanMaster's well-known inspection software package.

LS-50 immersion scanners can support both turntable and bar rotator

The LS-50TT

Includes a turntable with chucks for inspection of rotational geometry parts, such as discs, bearings, etc.

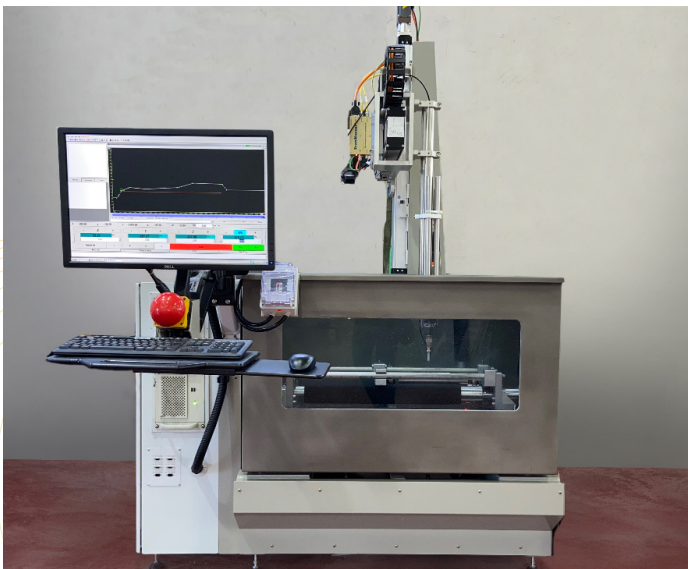
The system supports inspection parts up to 80kg (176lb) weight, with diameters of up to 400mm (16"). A yoke for through-transmission inspection can be provided. LS-50TT standard configuration consists of a motion envelope of 750 x 400 x 450mm (30" x 16"x 18").

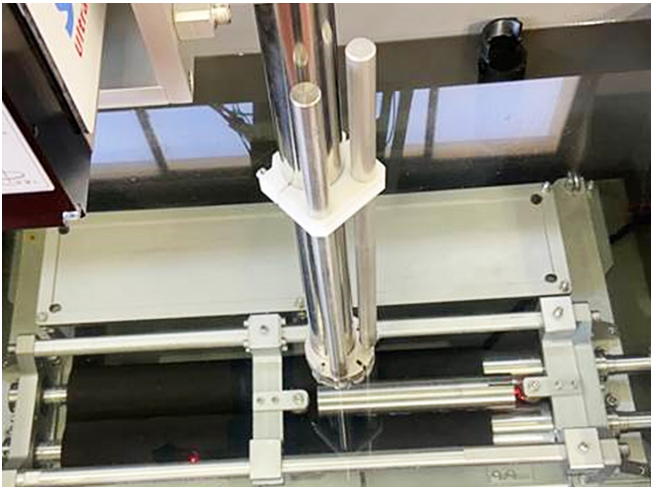


The LS-50BR

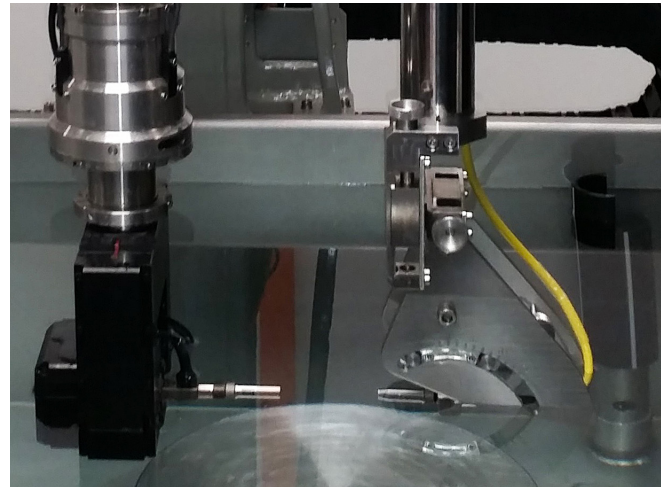
Includes a rotator for inspection of bars and tubes. The scanner supports parts of up to 500 mm (20") in length, with diameter range of 25mm (1") - 125mm (5"). Support of other diameter - upon request.

The system complies with inspection standards such as AMS-STD-2154, SEP 1927 and others.





Bar rotator with manual probe holder



A/B manipulator with yoke



The LS-50 can be integrated with a robotic loading/unloading solution for further automation of the inspection process.

Main Features:

- Exceptional mechanical resolution and repeatability on all axes
- Manual or motorized A/B gimbal-gimbal manipulator
- Integrated usc-100C ultrasonic instrument with excellent near-surface flaw resolution and Signal-to-Noise ratio
- Powerful ScanMaster CSI software including part coordinates programming & CAD import capability
- Extensive real time and post-scan data processing and analysis with automated flaw search, identification and evaluation
- Reporting of inspection and setup results, with customized report generation capability
- 3D contour following for scanning parts of complex geometry

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