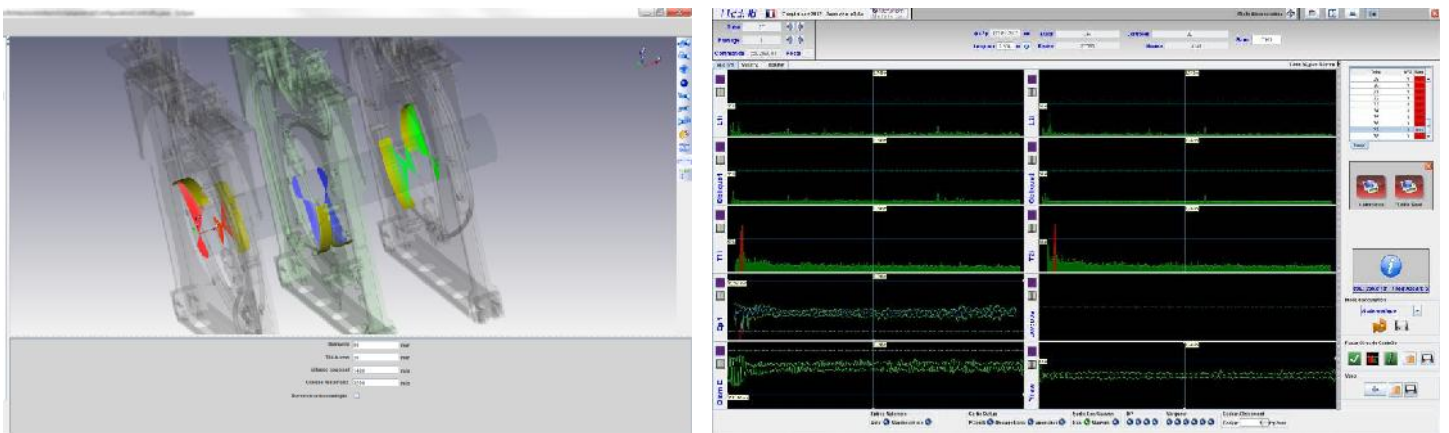
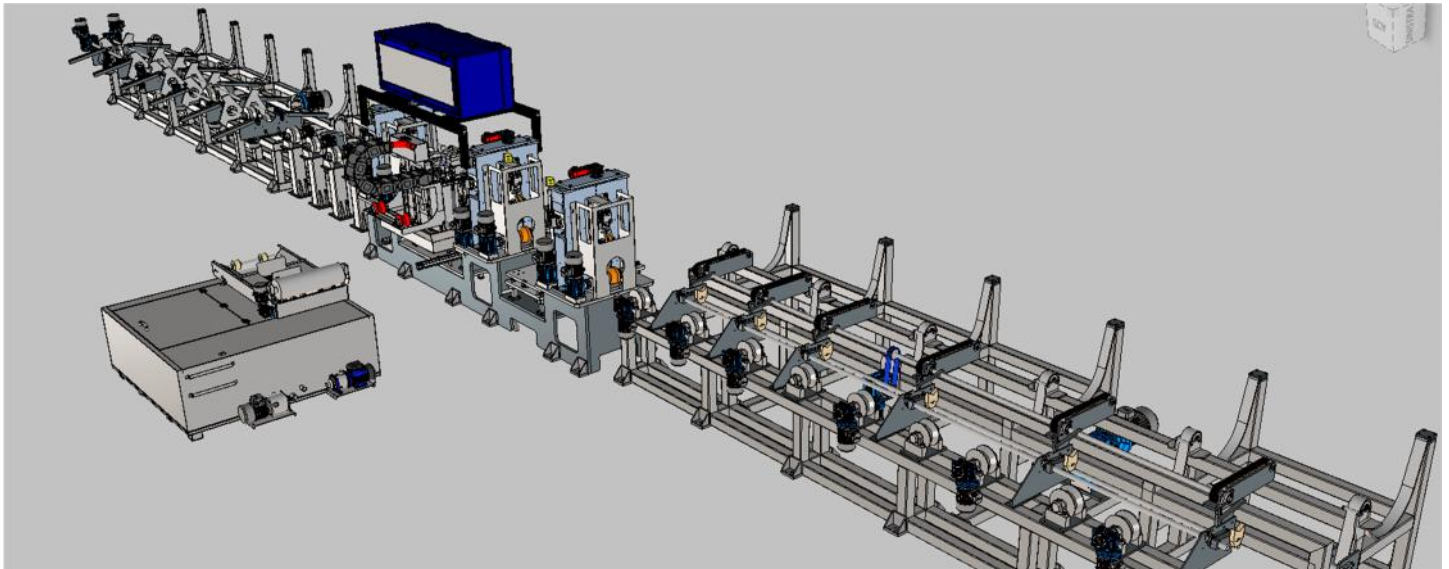


BARS INSPECTION SYSTEM

MTS-INLINE-PA-CP 20-120 mm



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TECHNICAL DATA SHEET



PRODUCT	Bars with diameter from 20 to 120 mm
LENGTH	Minimum 2.5 meters
BENDING	3mm/m, total bending limit 3% with constant performances at +/-2.5dB in dynamic conditions of speed and sensitivity mentioned
MATERIAL SURFACE CONDITION	Round bars , carbon steels, alloys steels and titanium Rolled, straightened, chamfering and shot blasted
FOCAL LAWS CALCULATION	Metalscan Focal Laws Calculation Wizard integrated in Lineview Software
DATA PRESENTATION	LINEVIEW Software to manage the inspection bench and UT setup Automatic management of the inspection parameters Data and reporting saving Cscan, Bscan, Ascan and Stripchart
PLC CONTROL	Encoding Up/down adjustment of the elevating table following diameter inspected Paint markers integrated on the system Filtration system
DETECTION PERFORMANCES	LW Mode: typically FBH 0,7 mm and/or SDH 0,3x10 mm depending on the grade SW Mode: typically notch 0,3x0,3x10 mm depending the surface condition
NUMBER OF PROBES	Up to 2 sets of 6 probes for the LW and SW CW/CCW modes for round bars
MAX SPEED	Up to 2m/s depending on the diameter and type of defects inspected

Main advantages of the FBUT – PA system:

- The multiplex firing of the Tecnatom Sonia PA 32/128 which allows:
 - ✓ High productivity : Emission/reception: up to 32 elements firing multiplexed for a higher electronic scanning on the probe to allow a good overlapping
 - ✓ High capacity of the electronic (High PRF multiplexed)
 - ✓ High repeatability : focal laws and overlapping adapted to the length of the defects
 - ✓ Configuration with the LW and CW/CCW mode , volume covering 100 %
 - ✓ Bars inspection in the range of 20-120mm without mechanical change of the probes
- LINEVIEW Software:
 - ✓ WIZARD for generating focal Laws adapted for each diameter and modes
 - ✓ LINEVIEW allows adjustment of the parameters of the system, the UT data display and the storage. An overview of the bench allows viewing the status and the position of the bar at each time.
 - ✓ UT management, storage , connected to the GPAO (SPU)
 - ✓ Fast adjustment of the system parameters
 - ✓ Recording, traceability, re read of the data; reporting and network connectivity to the plant.
 - ✓ Calibration to give a repeatability of ± 2.5 dB in dynamic conditions of speed and sensitivity mentioned
- Mechanic/Automation:
 - ✓ Strong mechanic especially adapted for inspection with high productivity
 - ✓ High centering device and compliance to follow the straightness given high repeatability
 - ✓ Elevating table which offers accurate height positioning of the UT tank frame according to the diameter inspected
 - ✓ Off-line positioning for calibration and maintenance
 - ✓ Automatic calibrator with rotation and translation movement
 - ✓ Management of alarms from UT with paint marking device

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