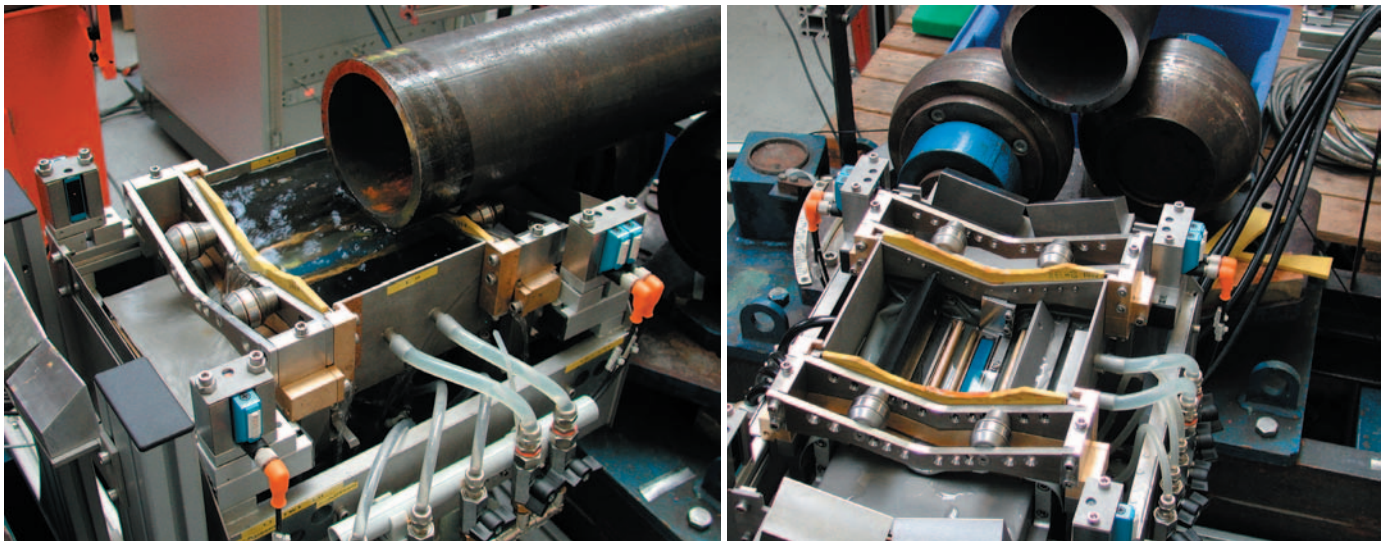


# Krautkramer Testing Machines

## GRP - PAT

Ultrasonic Large Tube Testing System GRP with New Modular PHASED ARRAY Test Electronics VPA, in partial immersion technique and helical transport



### Description:

Ultrasonic large tube tester GRP-PAT with small dimensional test mechanics for high speed helical tube transport. Guiding of probe immersion tank on the tube. Not only testing for longitudinal and transversal defects and wall thickness measurement with lamination but also for oblique defects testing (0° - 20°) in only one immersion tank → minimum change-over times. Additional testing for wall deformation and ultrasonic coupling check.

Transmission of test results to PDA system via Ethernet connection. Remote service via ISDN / Internet connection possible → e.g. for an easier and faster support by our After Sales Service. Various self-check functions of test electronics.

Beside standard test evaluation (paint marking, sorting signals) comfortable LED visualisation, ONLINE color graphic presentation and printouts of test results for OFFLINE evaluation.

### Technical Data:

**Ultrasonic Phased Array - Electronics:**  
Phased Array Paint Brush Electronics  
3 x 6 PA-TR modules, for driving of 3 linear Phased Array Probes.

### Probes:

2 LF/OF - Phased Array Probes with 68 elements  
1 TF/WT - Phased Array Probe with 214 elements

Overlap within the probe: variable (mode dependent)

Frequency: 3 MHz

### Application range:

Tube diameter: 60 – 400 mm

Wall thickness: 5 – 30 mm

Tube length: min. 3 m

Surface speed: max. 2 m/s

Advance/revolution: 90 mm

GE imagination at work

