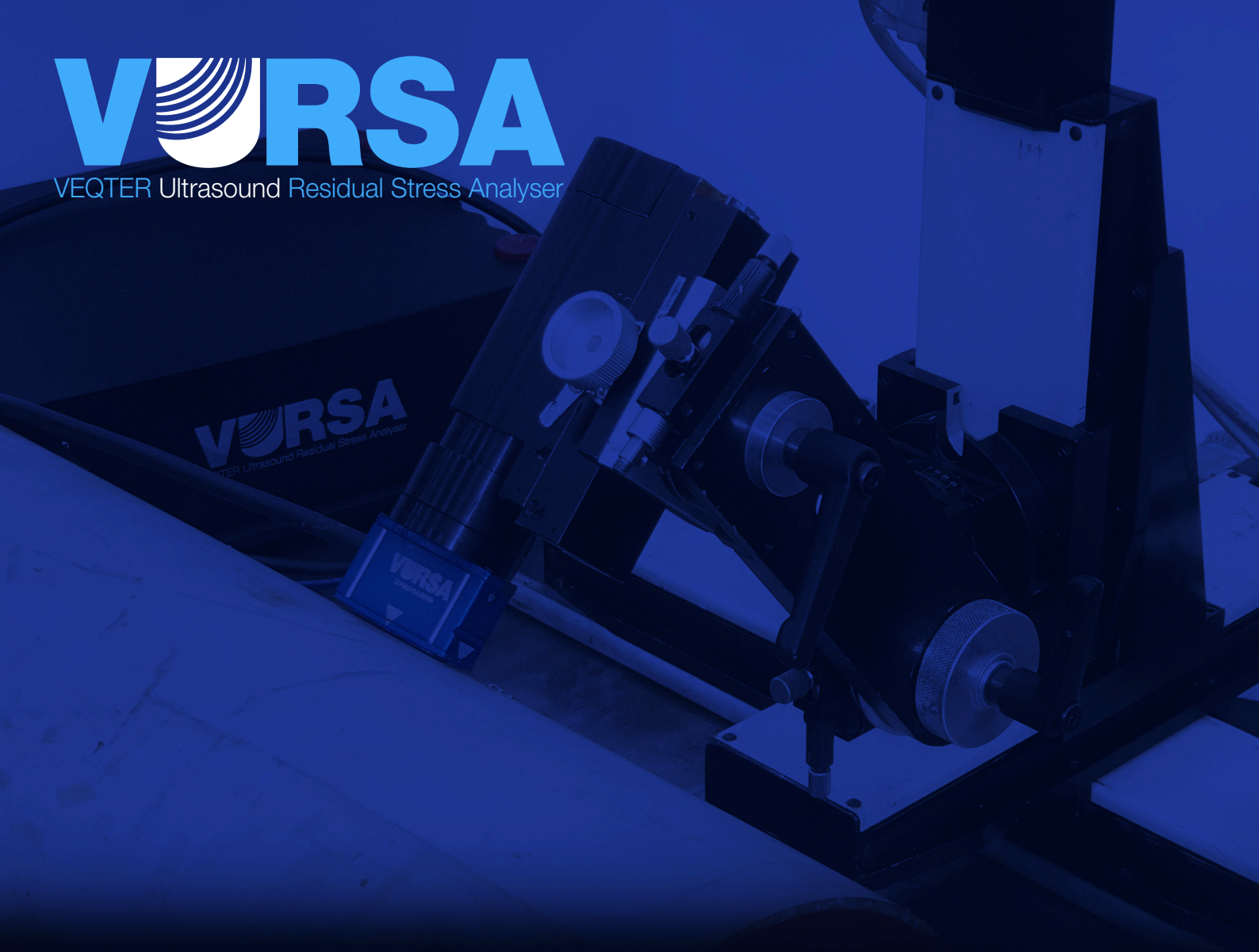
VORSA

VEQTER Ultrasound Residual Stress Analyser



A NON-DESTRUCTIVE, STRESS MEASUREMENT DEVICE FOR QUALITY ASSURANCE AND PLANT HEALTH MONITORING.

- Non-destructive
- Applicable to most engineering materials
- Easy to use
- Sub-surface measurements: 0.5 – 6mm deep
- Fast results: 10s/point
- Ultra-portable: 1 briefcase weighing < 10kg

VEQTER Residual Stress Experts

+44 (0) 117 992 7970
experts@veqter.co.uk
www.veqter.co.uk

APPLICATIONS:

- "Hot-spot" identification, e.g. weld repairs, machine burn
- Incident prevention, e.g. uneven loads, stress concentrations
- Manufacturing process quality, e.g. PWHT, autofrettage, repairs
- Remote measurements, e.g. pipeline pigs
- Residual stress mapping
- Static and dynamic loads, e.g. bridge loads
- Surface treatment quality, e.g. shot-peening, hardening
- Timelapse measurements, e.g. through life inspections

Flat surface probe head

Pipe outer surface probe head

Pipe inner surface probe head

Biaxial, flat surface probe head

VURSA Specifications

Ultrasound wave type	Critically refracted longitudinal (Lcr)
Uniaxial probe dimensions & weight (Diamond type)	58mm × 17mm × 32mm, 50g
Control box dimensions & weight	325mm × 260mm × 115mm, 5kg
Range of gauge lengths	5mm – 40mm
Range of gauge widths	3mm – 10mm
Range of depths measured	0.5mm – 6mm
Time per measurement	< 10 s/point
Software	VURSAsoft – adaptable to requirements
Power requirements	100 - 240V, 1.3A max, 50/60Hz
Options:	Probe heads: Arrays, Biaxial stress measurement, Depth specific, Material specific, Shaped to suit component, Waterproof. Probe applicator: Magnetic, Suction Cup, Clamp, Adhesive, XYZ Table, Robotic Arm.

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