



GB Inspection Systems Ltd.
22A Cobbett Road
Burntwood Business Park
Burntwood, Cannock
Staffordshire, WS7 3GL. UK

T +44 (0)121 351 5025
F +44 (0)1543 279619
E enquiries@gbinspection.com
W www.gbinspection.com
Company Registration Number 3021497

GB Inspection Systems Ltd

Leading UK Designer and Manufacturer of Ultrasonic Transducers and Accessories.





Index Page

Contact Page.....	Pages 3
Single Shear Wave Transducers.....	Page 4
Twin Shear Wave Transducers	Page 5
Angle Compression Transducers	Page 6
Single Compression 0° Transducers.....	Page 7-8
Twin Compression 0° Transducers	Page 9-11
High Temperature Transducers	Page 12
Creep Wave & Surface Wave Transducers	Page 13
TOFD including LIMBOTOFD™, TULA™ & Integral-TOFD Transducers & Integral PALM™	Pages 14-17
Railway—Axle	Page 18
Railway—Track Including Network Rail Approved Transducers	Pages 19-21
Transducer Cables	Page 22
Transducer & Cable Accessories & Cases with Bespoke Foam	Page 23-24
Calibration Blocks	Page 25
Custom Made Transducers.....	Page 26
Certification	Page 27
Calibration, Service & Repair	Page 28
NDT Equipment & Consumables	Page 29
Global Distribution.....	Pages 30-31



Contact Page

Ways to get in touch with GB Inspection Systems Ltd

GB Inspection Systems Ltd.
22A Cobbett Road
Burntwood Business Park
Burntwood, Cannock
Staffordshire, WS7 3GL. UK

Sales Enquiries sales@gbinspection.com

Telephone +44 (0)121 351 5025

Website www.gbinspection.com

The Sales Team:

Neil Smith, Sales & Technical Support

Karen Smith, Sales Manager & Credit Control

Vanessa Stokes, Internal Sales

You can also find us on the following social media:

@GBInspectionSystems



@GBInspection



@gbinspection



GB Inspection
Systems Ltd

Shear Wave Transducers — Single

Single Shear Wave / Angle Beam direct contact transducers

- Ideal for general purpose testing of Welds, Plates, Pipes / Tubing, Castings and Forgings
- Thicker shoes available for extended life
- Contoured contact face available to match convex and concaved testing surfaces



Images	Order Code	Description	Crystal Size	Standard Angles	Standard Frequency
	SMSS	Sub Miniature Single Shear with a Contact Face of 12 x 10mm with connection of your choice	Ø6.3mm	38°, 45°, 60°, 70°	5MHz, 10MHz
	MMSS	Medium Miniature Single Shear with a Contact Face of 16 x 8mm with connection of your choice	5mm x 5mm	38°, 45°, 60°, 70°	5MHz
	MSS	Miniature Single Shear with a Contact Face of 20 x 12mm with connection of your choice	Ø6.3mm	38°, 45°, 60°, 70°	5MHz, 10MHz
	SS	Single Shear with a Contact Face of 29 x 16mm with connection of your choice	Ø10mm	38°, 45°, 60°, 70°	2MHz, 4MHz
	SSHP	Single Shear High Performance with a Contact Face of 29 x 16mm with connection of your choice	Ø10mm	38°, 45°, 60°, 70°	2MHz, 4MHz
	MWS	Single Shear with a Contact Face of 28 x 16mm with connection of your choice	8 x 9mm	38°, 45°, 60°, 70°	2MHz, 4MHz
	LSS	Large Single Shear with a Contact Face of 40 x 25mm. Versions a, b, c, d available in different crystal sizes. With connection of your choice	A-Ø15mm, B-14 x 14mm C-15 x 17mm, D-16 x 16mm	38°, 45°, 60°, 70°	(b, c, d) 2MHz, (a, c, d) 2.5MHz, (a, b, c, d) 4MHz
	XLSS	Extra Large Single Shear with a Contact Face of 50 x 32mm with connection of your choice	20 x 20mm	38°, 45°, 60°, 70°	2MHz, 2.5MHz, 4MHz

Shear Wave Transducers — Twin

Twin Shear Wave / Angle Beam direct contact transducers

- Provide improved near-surface resolution and superior signal to noise ratio especially when testing rough surfaces
- Enhanced capability for inspecting thin materials for flaws occurring directly under the surface
- Available with thick shoe for extended life
- Contoured contact face available to match convex and concaved testing surfaces



Images	Order Code	Description	Crystal Size	Standard Angles	Standard Frequency
	BTP	Boiler Tube Transducer with a Contact Face of 18 x 15mm with 2 Meter Integral Cable with connection of your choice.	5mm x 5mm	45°, 60°, 70°	5MHz, 10MHz
	TS	Twin Shear with a Contact Face of 29 x 16mm with connection of your choice	8 x 5mm	38°, 45°, 60°, 70°	2MHz, 4MHz
	MWT	Twin Shear with a Contact Face of 27 x 16mm with connection of your choice	8 x 5mm	38°, 45°, 60°, 70°	2MHz, 4MHz
	LTS	Large Twin Shear with a Contact Face of 40 x 25mm with connection of your choice	7 x 12mm	38°, 45°, 60°, 70°	2.5MHz, 4MHz

Angle Compression Transducers – Single & Twin

Angle Beam Compression Wave Transducers

- Specifically designed for inspection of course grained and attenuating materials such as Austenitic Stainless steel or Duplex
- Gives high signal to noise ratio when standard shear wave probes cannot be used
- Thicker shoes available for extended life
- Contoured contact face available to match convex and concaved testing surfaces



Images	Order Code	Description	Crystal Size	Standard Angles	Standard Frequency
	SAC	Single Angle Compression with a Contact Face of 29 x 16mm with connection of your choice.	Ø10mm	38°, 45°, 60°, 70°	2MHz, 4MHz
	LSAC	Large Single Angle Compression with a Contact Face of 25 x 40mm with connection of your choice.	Ø15mm	38°, 45°, 60°, 70°	2.5MHz, 4MHz
	XLSAC	Extra Large Single Angle Compression with a Contact Face of 50 x 32mm with connection of your choice.	Ø20mm	38°, 45°, 60°, 70°	2MHz, 4MHz
	TAC	Twin Angle Compression with a Contact Face of 27 x 16mm with connection of your choice.	5 x 10mm	38°, 45°, 60°, 70°	2MHz, 4MHz
	LTAC	Large Twin Angle Compression with a Contact Face of 25 x 40mm with connection of your choice.	8 x 15mm	38°, 45°, 60°, 70°	2MHz, 4MHz
	XLTAC	Extra Large Twin Angle Compression with a Contact Face of 50 x 32mm with connection of your choice.	10 x 20mm	38°, 45°, 60°, 70°	2MHz, 4MHz



Single 0° Compression Transducers

Single 0° Compression Normal beam direct contact Transducers

- Designed for the inspection of Plates, Billets, Bars, Forgings, Castings, Extrusions and many other metallic and non metallic components
- Available with a soft face, ceramic face or our bespoke steel face for extended wear in a variety of testing conditions
- Ergonomically designed housings for comfort grip



Images	Order Code	Description	Crystal Size	Contact Face	Standard Frequency
	SMSC	Sub Miniature Single Compression with connection of your choice	Ø6.3mm	Ø10.2mm	5MHz, 10MHz
	SCDL	Single Compression Delay Line with connection of your choice	Ø1/4in	Ø7.6mm	5MHz, 10MHz
	SCLP	Single Compression Low Profile with connection of your choice	Ø10mm	Ø14mm	2.5MHz, 5MHz
		Single Compression Low Profile with connection of your choice	Ø20mm	Ø32.5mm	2MHz, 2.5MHz, 4MHz, 5MHz
	SCSF	Single Compression Soft Faced with connection of your choice with 4 additional membranes, also available to buy in packs see accessories	Ø10mm	Ø16mm	2MHz, 2.5MHz, 4MHz, 5MHz
			Ø24mm	Ø33mm	2MHz, 4MHz



Single 0° Compression Transducers

Single 0° Compression Normal beam direct contact Transducers

- Designed for the inspection of Plates, Billets, Bars, Forgings, Castings, Extrusions and many other metallic and non metallic components
- Available with a soft face, ceramic face or our bespoke steel face for extended wear in a variety of testing conditions
- Ergonomically designed housings for comfort grip



Images	Order Code	Description	Crystal Size	Contact Face	Standard Frequency
	SCHF	Single Compression Hard Faced (Ceramic Type) with connection of your choice	ø10mm	ø20mm	2MHz, 2.5MHz, 4MHz, 5MHz
			ø15mm	ø32mm	2.5MHz, 4MHz, 5MHz
			ø20mm	ø32mm	2MHz, 2.5MHz, 4MHz, 5MHz
	SC	Single Compression Steel Faced with connection of your choice	ø10mm	ø15mm	2MHz, 2.5MHz, 4MHz, 5MHz
			ø15mm	ø21mm	2.5MHz, 4MHz, 5MHz

Twin 0° Compression Transducers

Twin 0° Compression Normal beam direct contact Transducers

- Normal beam compression (longitudinal) waves
- Available in a range of sizes from button probe to large 24mm diameter
- Available in a range of housing material from plastic, aluminium to robust stainless steel
- Wear faces are thicker than industry standard allowing extended life
- Contoured contact face available to match convex and concaved testing surfaces



Images	Order Code	Description	Crystal Size	Contact Face	Standard Frequency
	DTC	Twin Compression with connection of your choice	Ø10mm	Ø14mm	5MHz
	TCLP	Twin Compression Low Profile with connection of your choice	Ø5mm	Ø8.5mm	5MHz, 10MHz
	SMTc	Sub Miniature Twin Compression with 2 Meter Integral cable with connection of your choice.	Ø6.3mm	Ø10mm	5MHz, 10MHz
	MTC	Miniature Twin Compression with 2 Meter Integral Cable with connection of your choice.	Ø10mm	Ø14mm	5MHz

Twin 0° Compression Transducers

Twin 0° Compression Normal beam direct contact Transducers

- Normal beam compression (longitudinal) waves
- Available in a range of sizes from button probe to large 24mm diameter
- Available in a range of housing material from plastic, aluminium to robust stainless steel
- Wear faces are thicker than industry standard allowing extended life
- Contoured contact face available to match convex and concaved testing surfaces



Images	Order Code	Description	Crystal Size	Contact Face	Standard Frequency
	TC	Twin Compression Stainless Steel housing with connection of your choice	Ø10mm	Ø18mm	2MHz, 2.5MHz, 4MHz, 5MHz
			Ø15mm	Ø21mm	2.5MHz, 4MHz, 5MHz
			Ø20mm	Ø26mm	2MHz, 2.5MHz, 4MHz, 5MHz
	TCP	Twin Compression Plastic (Black Acetal) housing with connection of your choice	Ø10mm	Ø18mm	2MHz, 2.5MHz, 4MHz, 5MHz
	TCA	Twin Compression Aluminium housing with connection of your choice	Ø10mm	Ø18mm	2MHz, 2.5MHz, 4MHz, 5MHz

Twin 0° Compression Transducers

Twin 0° Compression Normal beam direct contact Transducers

- Normal beam compression (longitudinal) waves
- Available in a range of sizes from button probe to large 24mm diameter
- Available in a range of housing material from plastic, aluminium to robust stainless steel
- Wear faces are thicker than industry standard allowing extended life
- Contoured contact face available to match convex and concaved testing surfaces



Images	Order Code	Description	Crystal Size	Contact Face	Standard Frequency
	TCSF	Twin Compression Soft Faced with connection of your choice with 4 additional membranes also available to buy in packs see accessories	ø10mm	ø18mm	2MHz, 4MHz, 5MHz
			ø24mm	ø33mm	2MHz, 4MHz
	TCE	Twin Compression Aluminium (Square faced housing) with connection of your choice (TCE10 also available in a Plastic (Black Acetal) housing) TCEP	ø10mm	ø18mm	2MHz, 2.5MHz, 4MHz, 5MHz
			ø15mm	ø21mm	2.5MHz, 4MHz, 5MHz
			ø20mm	ø26mm	2MHz, 2.5MHz, 4MHz, 5MHz
	PT	Plate Tester Transducer with connection of your choice	ø20mm	ø25mm	2.5MHz, 4MHz

High Temperature Transducers

Provides excellent sensitivity at high temperatures for intermittent use:

- “H” Range capable of intermittent testing up to 200°C
- “GH” Range capable of intermittent testing up to 300°C



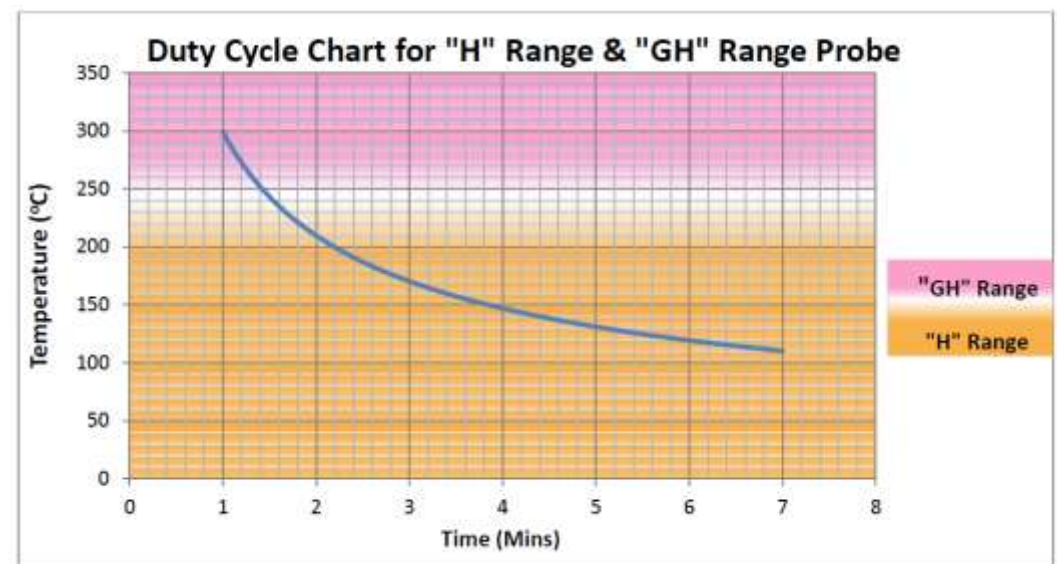
The vast majority of our Transducers can be manufactured as a high temperature version to suit intermittent testing ranges of either 200°C or 300°C.

Please contact our Sales team for further information and prices of our high temperature range of products.

“H Range”



“GH Range”



Creep Wave & Surface Wave Transducers



Creep Wave direct contact Transducers

- Creates a sound wave that travels along the material just beneath the surface (1-3mm)

Images	Order Code	Description	Crystal Size	Standard Frequency
	CW	Creep Wave Transducer with a Contact Face of 27 x 16mm	5 x 10mm	2MHz, 4MHz, 5MHz
	LCW	Large Creep Wave Transducer with a Contact Face of 40 x 25mm	8 x 15mm	2MHz, 4MHz, 5MHz
	XLCW	Extra Large Creep Wave Transducer with a Contact Face of 50 x 32mm	10 x 20mm	2MHz, 4MHz, 5MHz

Surface Wave direct contact Transducers

- Creates a sound wave that travels along the surface of the material being inspected
- Available with a robust metal housing

	Order Code	Description	Crystal Size	Standard Angles	Standard Frequency
	SW90	Surface Wave Single Shear 90° High Performance with a Contact Face of 29 x 16mm	ø10mm	90°	2MHz, 4MHz
	MSW90	Surface Wave Single Shear 90° with a Contact Face of 27 x 16mm	8 x 9mm	90°	2MHz, 4MHz
	LSW90	Surface Wave Large Single Shear 90° with a Contact Face of 40 x 25mm	ø15mm	90°	2.5MHz, 4MHz
	XLSW90	Surface Wave Extra Large Single Shear 90° with a Contact Face of 50 x 32mm	20 x 20mm	90°	2MHz, 4MHz

integral-TOFD

Integral-TOFD, designed and manufactured by GB Inspection Systems Ltd, is yet another innovative Patented product which has been made as an alternative to the traditional TOFD wedge and transducer offering.

See below the main benefits:

- *Faster and easier setup time* —No connection between transducer and wedge necessary
- *Consistent sensitivity* —No couplant inconsistencies between transducer and wedge pairing
- *Greater reliability* —Transducer and wedge cannot become loosened / unscrewed during scanning.
- Eliminates the risk of separation between transducer and wedge
- Available in a variety of footprint sizes, angles, frequencies and crystal sizes upon request
- Available with **integral-PALM™**



Order Code	Description	Crystal Size	Standard Angles	Standard Frequency
iT	Integral TOFD Composite Crystal Compression Wave with Contact Face of 30 x 20mm	3mm, 6mm	45°, 60°, 70°	5MHz, 10MHz
iTL	Large Integral TOFD Composite Crystal Compression Wave with Contact Face of 30 x 30mm	12mm	45°, 60°, 70°	5MHz, 10MHz



Our Low Profile Integral TOFD Transducer allows you to inspect where other Transducers can't...

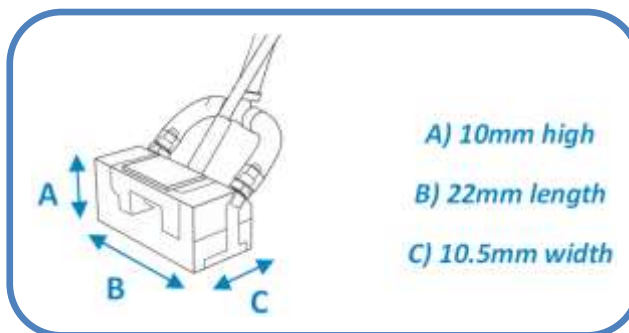


Unique Features and Benefits of the Patented LIMBOTOFD™

- *Low Profile* - Only 10mm high allowing easy access to previously inaccessible areas which are currently untestable using conventional TOFD transducers
- *Reduces inspection cost* - No need to implement other possibly disruptive inspection methods such as Radiography
- *High signal to noise* - Single cycle responsiveness using a frequency of 10 or 15 MHz
- *Integral Wedge* - Unique patented design providing convenient use without the need to change wedges providing the assurance of the transducer/wedge couplant film.
- *Increases productivity* - With conventional TOFD, losing a transducer may result in the loss of the use of its dependent wedges and forcing the inspection to stop, LIMBOTOFD™ eliminates this risk.
- Available with *integral-PALM™*



Order Code	Description	Crystal Size	Position	Standard Angles	Standard Frequency
LTOFD	LIMBOTOFD™ Composite Compression Wave with integral cable	ø3mm, ø6mm	L (Front), R (Rear)	45°, 60°, 70°	10MHz, 15MHz





integral-PALM™

“Ultrasonic Scanning in the palm of your hand.”

Introducing *integral-PALM™* A Revolutionary *Integral* Ultrasonic Handheld Scanner

In the world of non-destructive testing (NDT), precision, efficiency, and reliability are paramount,

integral-PALM™ is here to redefine these standards.

Designed with cutting-edge technology and user-centric engineering, this handheld scanner offers unparalleled accuracy and ease of use, setting a new benchmark in the industry.

Key Features:

- Ease of Use
- Ergonomic Design
- Cost effective testing solutions
- Rapid Set-up and Scanning
- Versatility Across Industries

The *integral-PALM™* isn't just another scanner, it's a game-changer. It combines the power of advanced technology with the convenience of portability, ensuring that ultrasonic testing is more efficient, accurate, and reliable than ever before, with the choice of either **TOFD** transducers or multiple pulse echo transducers set across the scanner footprint creating a multi-test **ARRAY**.

Join the revolution in NDT technology and take your inspection capabilities to the next level with the *integral-PALM™*, “

Ultrasonic Scanning in the palm of your hand.”

integral-PALM™ options available –

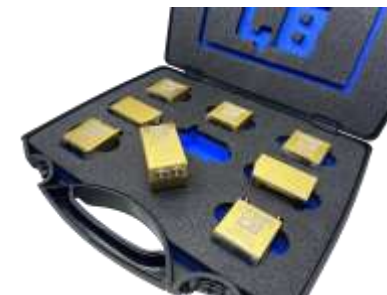
integral-PALM-TOFD - *integral-PALM-ARRAY* - *immersion-PALM-ARRAY*





TOFD Transducers

TULA™



Used for Early Detection of HTHA (High Temperature Hydrogen Attack)

These Transducers are proving to offer high resolution detection capabilities in a fast, convenient and economical package allowing easy deployment and compatibility with existing and popular ultrasonic instruments.

Our Patented TULA accommodates Ultrasonic inspection for the detection of HTHA / flaws in welds, or plate inside surfaces, mid section and upper surfaces, and also allows a one sided inspection where the access is difficult to place a Transducer.

See below the main benefits:

- TOFD principle, in one housing
- Suite of TULA probes with defined focussing/inspections
- TULA probes are designed to specifically identify early stages of HTHA (High Temperature Hydrogen Attack) in varying materials
- Further variants can be manufactured to suit specific customer requirements
- Ease of deployment, probes can be used by hand or with simple encoded scanners

Our TULA Transducers come in a plastic case including foam specifically designed for this suite of Transducers. This makes for easy, comfortable transportation to and from site.

Order Code	Description	Crystal Size	Standard Frequency
TULA-A	TULA™ TOFD Ultra Low Angle (0° roof angle)	ø6mm	10MHz
TULA-B	TULA™ TOFD Ultra Low Angle (Focus 10mm)	ø6mm	10MHz
TULA-C	TULA™ TOFD Ultra Low Angle (Focus 25mm)	ø6mm	10MHz
TULA-C+ 12.5	TULA™ TOFD Ultra Low Angle (Focus 25mm) 12.5°	ø6mm	10MHz
TULA-C+ 25	TULA™ TOFD Ultra Low Angle (Focus 25mm) 25°	ø6mm	10MHz
TULA-D	TULA™ TOFD Ultra Low Angle 60° (No Focus)	ø6mm	10MHz
TULA-E	TULA™ TOFD Ultra Low Angle 60° (25mm Focus)	ø6mm	10MHz
TULA-F	TULA™ TOFD Ultra Low Angle 60° (No Focus)	ø6mm	5MHz



- Leading range of axle inspection Transducers approved by many specifiers and OEM's
- BNC connectors as standard can be positioned top, rear or side of the Transducer housing subject to customer specific requirements (EPOA)



Images	Order Code	Description	Crystal Size	Standard Angles	Standard Frequency
	LSSBR	Large Single Shear Axle Transducer with a Contact Face of 25 x 40mm with connection of your choice & Calibration Certificate and label	ø15mm	37°, 45°, 60°, 70°, 90°	2.5MHz
	XLSSBR	Extra Large Single Shear Axle Transducer with a Contact Face of 50 x 32mm with connection of your choice & a Calibration Certificate and label	20 x 20mm	38°, 45°, 60°, 70°, 90°	2.5MHz
	MHAT(S/L)	Manual Hollow Axle Test Transducer Forward/Rearward for MHAT head Type with a Contact Face per Transducer of 16 x 29mm, connection of your choice & Calibration Certificate	ø10mm	38°, 45°, 60°, 70°	5MHz
Images	Order Code	Description	Crystal Size	Face Angle	Standard Frequency
	TCBR	Twin Compression Axle Transducer 0° with a Contact Face of 28 x 32mm with connection of your choice & Calibration Certificate and label	20 x 10mm	Any angle up to 25°	2.5MHz
	LTCBR	Large Twin Compression Axle Transducer 0° with a Contact Face of 32 x 38mm with connection of your choice & Calibration Certificate and label	20 x 10mm	Any angle up to 25°	2.5MHz
Images	Order Code	Description	Crystal Size	Contact Face	Standard Frequency
	SCBR(S)	Single Compression Axle Transducer Small Type with connection of your choice & Calibration Certificate and label	ø20mm	ø21mm	2.5MHz, 4MHz
	SCBR(L)	Single Compression Axle Transducer Large Type with connection of your choice & Calibration Certificate and label	ø20mm	ø31mm	2.5MHz, 4MHz
	SCLPi	Single Compression Low Profile with integral cable with Calibration Certificate and label	ø10mm	ø14mm	2.5MHz



Railway — Track Transducers

- Network Rail Approved among many other owner and operators
- High signal to noise ratio
- Provides an unambiguous response



Images	Order Code	Description	Crystal Size	Standard Angles	Standard Frequency
	LSST	Large Single Shear Track with connection of your choice & Calibration Certificate and label	ø15mm	38°, 40°, 45°, 70°	2.5MHz, 4MHz
Images	Order Code	Description	Crystal Size	Contact Face	Standard Frequency
	SCT	Single Compression Track 0° with connection of your choice & Calibration Certificate and label	ø15mm	ø19mm	2.5MHz
	TCT	Twin Compression Track 0° with connection of your choice & Calibration Certificate and label	ø10mm	ø18mm	5MHz





Railway — Track Transducers

- Network Rail Approved among many other owner and operators
- High signal to noise ratio
- Provides an unambiguous response

Rail Track Accessories	
Order Code	Description
RWTJa-1	Rail Weld Track Jig (Aluminium) - Tandem probe holder (LSST(NR) Range) with 200mm rule
RWTJs-1	Rail Weld Track Jig (Stainless Steel) - Tandem probe holder (LSST(NR) Range) with 200mm rule

Rail Axle Accessories	
Order Code	Description
MHAT-KIT	Manual Hollow Axle Ultrasonic Test System, up to $\varnothing 110\text{mm}$ Head including probes, graduated handle, pressure couplant and case



RWTJ-1a





Railway — Track, Network Rail approved Transducers



*GB Inspection Systems is pleased to announce that we have been awarded
Certificate of Acceptance for manufacturing Network Rail Ultrasonic Transducers
(PA05/06763).*



Certificate of Acceptance

PA05/06763

Network Rail Approved					
Images	Order Code	Description	Crystal Size	Standard Angles	Standard Frequency
	LSSNR	Large Single Shear Track with Rear Entry Subvis Connection with Calibration Certificate and label, NR Catalogue# 0094/016065	ø15mm	38°, 40°, 45°, 70°	2.5MHz
	LSSTNR	Large Single Shear Track with Top Entry BNC Connection with Calibration Certificate and label	ø15mm	45°, 70°	2.5MHz
	SSNR	Single Shear 70° 4MHz (ø10mm) with Top Entry Subvis Connection with Calibration Certificate and label, NR Catalogue # 0094/016068	ø10mm	70°	4MHz
Images	Order Code	Description	Crystal Size	Contact Face	Standard Frequency
	TCNR	Twin Compression Track 0° option for Focus 10.185mm with Subvis Connection with Calibration Certificate and label	ø10mm	ø19mm	5MHz
	SCNR	Single Compression Track with Subvis Connection with Calibration Certificate and label, NR Catalogue# 0094/016063	ø15mm	ø18mm	2.5MHz



Transducer Cables

- All Cables are manufactured with RG174 as standard unless otherwise stated
- Other Connectors, Cable Types and Lengths available upon request (£POA)
- Genuine Lemo Parts used



Single Cable	
Order Code	Description
PC-BNC-BNC	Transducer Cable / BNC to BNC connector
PC-BNC-BNC PRS	Transducer Cable / BNC to BNC (Pairs)
PC-BNC-BNC1	Transducer Cable / BNC to BNC connector, 1M
PC-BNC-BNC1M PRS	Transducer Cable 1M/BNC-BNC RG58(Pairs) 1 x Red 1 x Blue
PC-BNC-S	Transducer Cable / BNC to Subvis connector
PC-BNC-ML	Transducer Cable / BNC to Lemo 00 connector
PC-BNC-MMD	Transducer Cable / BNC to Mini Microdot connector RG178
PC-BNC-MD	Transducer Cable / BNC to Microdot connector
PC-BNC-WUHF	Transducer Cable / BNC to WUHF connector
PC-L-L	Transducer Cable / Lemo 01 to Lemo 01 connector
PC-L-S	Transducer Cable / Lemo 01 to Subvis connector
PC-L-ML	Transducer Cable / Lemo 01 to Lemo 00 connector
PC-L-MD	Transducer Cable / Lemo 01 to Microdot connector
PC-L-BNC	Transducer Cable / Lemo 01 to BNC connector(RG58)
PC-L-BNC(RG174)	Transducer Cable / Lemo 01 to BNC connector (RG174)
PC-L-WUHF	Transducer Cable / Lemo 01 to WUHF connector
PC-ML-ML	Transducer Cable / Lemo 00 to Lemo 00 connector
PC-ML-S	Transducer Cable / Lemo 00 to Subvis connector
PC-ML-MD	Transducer Cable / Lemo 00 to Microdot connector
PC-L1B304-L1B304	Encoder Cable Special PC/L1B304-L1B304 8ft long

Twin Cable	
Order Code	Description
PCT-BNC-BNC	Twin Transducer Cable / BNC to BNC connector(RG174)
PCT-BNC-S	Twin Transducer Cable / BNC to Subvis connector
PCT-BNC-ML	Twin Transducer Cable / BNC to Lemo 00 connector
PCT-BNC-MD	Twin Transducer Cable / BNC to Microdot connector
PCT-L-L	Twin Transducer Cable / Lemo 01 to Lemo 01 connector
PCT-L-S	Twin Transducer Cable / Lemo 01 to Subvis connector
PCT-L-ML	Twin Transducer Cable / Lemo 01 to Lemo 00 connector
PCT-L-MD	Twin Transducer Cable / Lemo 01 to Microdot connector
PCT-L-BNC	Twin Transducer Cable / Lemo 01 to BNC connector
PCT-L-DM	Twin Transducer Cable / Lemo 01 to DM connector
PCT-ML-ML	Twin Transducer Cable / Lemo 00 to Lemo 00 connector
PCT-ML-S	Twin Transducer Cable / Lemo 00 to Subvis connector
PCT-ML-MD	Twin Transducer Cable / Lemo 00 to Microdot connector
PCT-ML-DM	Twin Transducer Cable / Lemo 00 to DM connector
PCT-DM-DM	Twin Transducer Cable / DM to DM connector
PCT-DM-MD	Twin Transducer Cable / DM to Microdot connector
PCT-DM-S	Twin Transducer Cable / DM to Subvis connector



Transducer and Cable Accessories

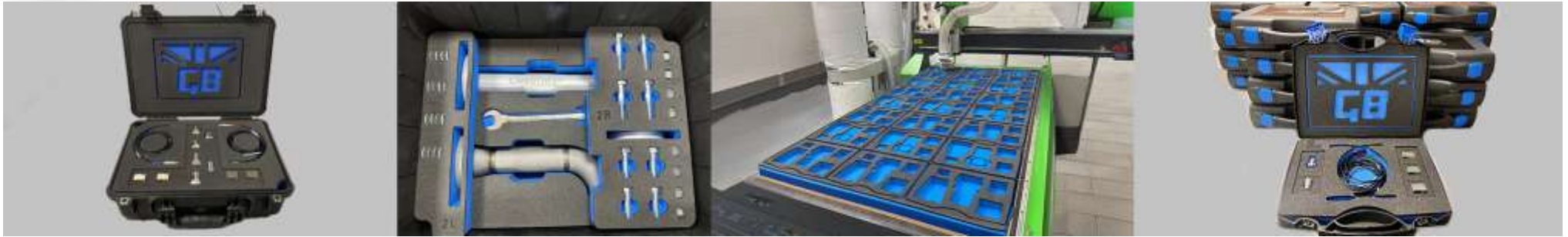


Transducer Accessories	
Order Code	Description
MHAT-SKIDS	Hollow Axle Test Head - Replacement set of Skids, Springs and Screws
RWTJ -A	Accessories for RWTJ-1
JIR-DJG012	JIREH Circ-it Adaptor for LIMBOTOFD™
PH-LimAD	PHOENIX ISL Adaptor for LIMBOTOFD™ - UNDER REDEVELOPMENT
COB-LimAD	OLYMPUS COBRA Adaptor for LIMBOTOFD™ - UNDER DEVELOPMENT
DL5	Delay Line for SCDL6-5 & SCDL6-10
GS24	Replaceable Membrane Ø24mm - Pack of 10 for 10mm Transducers.
GS45	Replaceable Membrane Ø45mm - Pack of 10 For 24mm Transducers.
SSWS	Wear Shoes (pack of 10) for SS & MWS Transducers-Dimension: 25.7 x 15.6 x 3 mm
SSWSK	Wear Shoes includes Cork (pack of 10) for TS & MWT Transducers Dimension: 25.7 x 15.6 x 3 mm
SSWSTS	Wear Shoe (pack of 10) for SS & MWS Thick Shoe Transducers - Dimensions 25 x 15.5 x 4mm
TC10RSK	TC10 Re-Shoe Kit includes Cork (Pack of 10) 18mm Ø
TC15RSK	TC15 Re-Shoe Kit includes Cork (Pack of 10) 21mm Ø
TC20RSK	TC20 Re-Shoe Kit includes Cork (Pack of 10) 26mmØ
LWS	Wear Shoes (pack of 10) for LSS Transducers - Dimensions 35 x 25.5 x 4mm
LWS-Short Series	Wear Shoes (pack of 10) for LSS Short Series Transducers - Dimensions 33.5 x 25 x 3mm
XLSS-RS	XLSS Re-Shoe Kit (Pack of 10)
TCEWR-SS	Wear Ring for TC10 Transducers (Stainless Steel) Diameter 10mm
TCEWR-B	Wear Ring for TC10 Transducers (Brass) Diameter 10mm
TCE15WR-SS	Wear Ring for TC15 Transducers (Stainless Steel) Diameter 15mm
TCE15WR-B	Wear Ring for TC15 Transducers (Brass) Diameter 15mm
TCE20WR-SS	Wear Ring for TC20 Transducers (Stainless Steel) Diameter 20mm
TCE20WR-B	Wear Ring for TC20 Transducers (Brass) Diameter 20mm
WR10	Wear Ring for 10mm Soft Face Transducers
WR24	Wear Ring for 24mm Soft Face Transducers

Cable Accessories	
Order Code	Description
BNC-L	Adaptor BNC / Lemo 01
L-BNC	Adaptor Lemo 01 / BNC
L-MLF	Adaptor, Lemo 01 to Lemo 00 Female
ML-BNC	Adaptor Lemo 00 / BNC
ML-LF	Adaptor, Lemo 00 to Lemo 01 Female
?-? PL	Patch Lead to suit different connectors, available Single or Twin



Cases and Bespoke Foam



Equipment Cases	
Order Code	Description
PCASE125	Plastic Case, Black with Blue clips - Size 197 x 167 x 47mm (Int 180 x 125 x 42mm) Including bespoke foam inserts to suit contents
PCASE155	Plastic Case, Black with Blue clips - Size 244 x 207 x 59mm (Int 225 x 155 x 53mm)- Including bespoke foam inserts to suit contents
PCASE175	Plastic Case, Black with Blue clips - Size 275 x 231 x 65mm (Int 255 x 175 x 60mm) Including bespoke foam inserts to suit contents
PCASE195	Plastic Case, Black with Blue clips - Size 307 x 260 x 74mm (Int 284 x 195 x 66mm) Including bespoke foam inserts to suit contents
PCASE220	Plastic Case, Black with Blue clips - size 346 x 292 x 84mm (Int 320 x 220 x 78mm) Including bespoke foam inserts to suit contents
PCASE250	Plastic Case, Black with Blue clips - size 393 x 331 x 95mm (Int 365 x 250 x 85mm) Including bespoke foam inserts to suit contents
PCASE290	Plastic Case, Black with Blue clips - size 456 x 384 x 110mm (Int 421 x 290 x 100mm) Including bespoke foam inserts to suit contents
PCASE57455	Plastic Case, Transparent 86 x 40mm Including foam insert
PCASE57436	Plastic Case, Transparent 67 x 40mm including foam insert
PELI IM2200	Peli Case IM2200 (Int'l Dim 381 x 267 x 157mm, Lid Depth 51mm, Base Depth 101mm) with CNC Profiled Foam
	Bespoke custom Foam Inserts



Other Cases, Peli Cases with custom foam available upon request. Please contact our sales team on sales@gbinspection.com for all of your case needs.

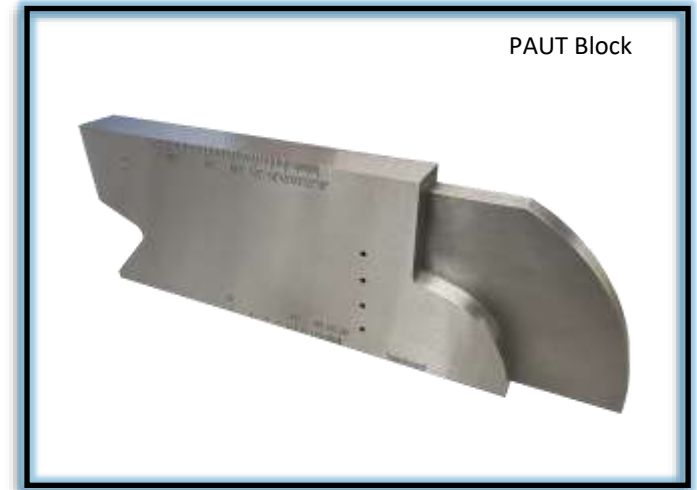


Calibration Blocks

We offer and manufacture a full range of Calibration Blocks, standard and custom made including Phased Array.

Most of the Calibration Blocks can be manufactured out of a material you specify for example Carbon Steel, Stainless Steel or Aluminium or even your own supply.

Full traceability is guaranteed and Individual Certification is provided for every Calibration block.



PAUT Block

Some of our standard blocks include:

Order Code	Description
APTB-1	APTB-1 Calibration Block with Conformity Certificate
IOW-A5	IOW (A5) Calibration Block with Conformity Certificate
V1(A2)	V1 Calibration Block (25x100x300mm with 1.5mm hole) with Conformity Certificate
V2-12.5	V2 12.5 x 1.5mm hole Calibration Block with Conformity Certificate
V2-20	V2 20 x 1.5mm hole Calibration Block with Conformity Certificate
1-8SW	1-8mm Step Wedge (+ Thickness step 15 & 20mm) Calibration Block with Conformity Certificate
CB88M	CB88 Metric Calibration Block with Conformity Certificate
No.1	No.1 Calibration Block (25 x 100 x 300mm) Target Hole 3mm without Plastic Insert with Conformity Certificate

For more options of Calibration Blocks contact our sales team where they will be happy to help:

sales@gbinspection.com or +44 (0)121 351 5025





Custom Made Transducers

GB Inspection Systems have manufactured bespoke Transducers for over 30 years, covering a wide range of applications.

From simple contouring of Transducers used on pipe testing or providing special housings for easier access on test areas to Transducers designed for your specific testing applications.

Some typical applications for which we have manufactured Transducers are:

- Bore probe for turbine rotor inspection
- Railway probes for track and axle testing
- Turbine blade probes for steam turbine blades
- Time of flight probes for Inconel inspection
- Transducers for automatic test systems
- Through-transmission probes and single probes to detect the presence of fluids
- Probes for nuclear plant inspection
- High temperature probes for petro-chemical plant and oil pipeline inspection
- Underwater test probes for oil platforms
- Aerospace application



**Sub-miniature
Bi-directional Shear 45°
5MHz with integral Cable
BNC**

**Extra Miniature Single Shear 55°
with ø6.3mm Crystal in tandem
5MHz with Lemo 00 Connectors**



**Stick Probe
Low Profile Twin Compression ø
10mm Composite Crystal 2MHz
with 9in Stick Handle & 4Ft Cable**



Certification of Transducers

We offer 4 “standard” certificates as listed below with examples

- ICO-CON—Individual Certificate of Conformity in accordance with BS EN ISO 22232-2:2020
- ICO-CAL—Individual Certificate of Calibration with detailed test results in accordance with BS EN ISO 22232-2:2020
- ICO-CALW—Individual Certificate of Calibration including waveform and test results in accordance with BS EN ISO 22232-2:2020
- ICO-CALTEST—Individual Certificate of Calibration with detailed test results compliant to BS EN ISO 22232-2:2020

We also offer a range of Export Documentation for International shipments. The order will be supplied with a commercial invoice and packing list Free of Charge, any Country or Customer specific documentation will be charged extra (costs TBC at order stage). Examples include: Certificate of Origin, ATR 1, EUR 1

GB Inspection Systems Ltd. www.gbinspection.com Tel: +44 (0)121 351 1000

Certificate of Conformity

Certificate Number	58872
Issue Date	01/08/2021
Probe Test Number	58872
Probe Model	TC10-3(ML)
Probe Description	Twin Compression 3MHz (602mm) with Lemo 00
Probe Serial Number	60137
Specification / Drawing Number	BS EN ISO 22232-2:2020

CONDITION OF MATERIALS
In accordance with BS EN ISO 22232-2:2020

“Non-destructive testing. Characterisation and verification of ultrasonic examination equipment. Probes.”

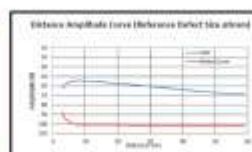
DEVIATIONS
None

It is Certified that the whole of the supplies detailed herein have been manufactured, inspected and tested and unless otherwise stated above, conform in all aspects to the requirements of the contract or purchase order and are in accordance with our Quality Management System.

APPROVED SIGNATORY / STAMP
FOR & ON BEHALF OF GB INSPECTION SYSTEMS LTD

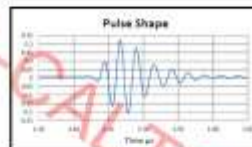
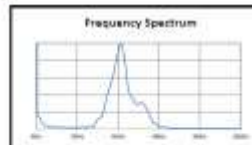
GB Inspection Systems Ltd
ICO-CALTEST
Model: TC10-4(C3.5X10)(ML)
S/N: 12345

TC10-4(C3.5X10)(ML)	
Probe Design	402
Probe Manufacturer	Lemo 00
Probe Model	TC10-4(C3.5X10)(ML)
Probe Serial Number	60137
Probe Description	Twin Compression 3MHz (602mm) with Lemo 00
Probe Test Number	58872
Probe Issue Date	01/08/2021
Probe Specification	BS EN ISO 22232-2:2020
Probe Condition	Good
Probe Location	GB
Probe Status	Active
Probe Type	Compression
Probe Frequency	3.5MHz
Probe Waveform	Pulse
Probe Pulse Width	100ns
Probe Pulse Amplitude	10V
Probe Pulse Repetition Rate	1000Hz
Probe Pulse Delay	100ns
Probe Pulse Rise Time	10ns
Probe Pulse Fall Time	10ns
Probe Pulse Settling Time	10ns
Probe Pulse Dwell Time	10ns
Probe Pulse Total Time	10ns
Probe Pulse Frequency	3.5MHz
Probe Pulse Amplitude	10V
Probe Pulse Repetition Rate	1000Hz
Probe Pulse Delay	100ns
Probe Pulse Rise Time	10ns
Probe Pulse Fall Time	10ns
Probe Pulse Settling Time	10ns
Probe Pulse Dwell Time	10ns
Probe Pulse Total Time	10ns



Flow Detector Settings	
Probe	402
Probe Manufacturer	Lemo 00
Probe Model	TC10-4(C3.5X10)(ML)
Probe Serial Number	60137
Probe Description	Twin Compression 3MHz (602mm) with Lemo 00
Probe Test Number	58872
Probe Issue Date	01/08/2021
Probe Specification	BS EN ISO 22232-2:2020
Probe Condition	Good
Probe Location	GB
Probe Status	Active
Probe Type	Compression
Probe Frequency	3.5MHz
Probe Waveform	Pulse
Probe Pulse Width	100ns
Probe Pulse Amplitude	10V
Probe Pulse Repetition Rate	1000Hz
Probe Pulse Delay	100ns
Probe Pulse Rise Time	10ns
Probe Pulse Fall Time	10ns
Probe Pulse Settling Time	10ns
Probe Pulse Dwell Time	10ns
Probe Pulse Total Time	10ns

Test Results	
Probe	402
Probe Manufacturer	Lemo 00
Probe Model	TC10-4(C3.5X10)(ML)
Probe Serial Number	60137
Probe Description	Twin Compression 3MHz (602mm) with Lemo 00
Probe Test Number	58872
Probe Issue Date	01/08/2021
Probe Specification	BS EN ISO 22232-2:2020
Probe Condition	Good
Probe Location	GB
Probe Status	Active
Probe Type	Compression
Probe Frequency	3.5MHz
Probe Waveform	Pulse
Probe Pulse Width	100ns
Probe Pulse Amplitude	10V
Probe Pulse Repetition Rate	1000Hz
Probe Pulse Delay	100ns
Probe Pulse Rise Time	10ns
Probe Pulse Fall Time	10ns
Probe Pulse Settling Time	10ns
Probe Pulse Dwell Time	10ns
Probe Pulse Total Time	10ns



Typical performance of the ultrasonic probe type. GB Inspection Systems Limited probes are manufactured to the highest standards for quality, a rigorous inspection regime and are registered quality systems. Each system is individually inspected and tested for the latest industry standard. BS EN ISO 22232-2

GB Inspection Systems Ltd
23a Colwell Road
Barnwood Business Park
Barnwood, Worcester
Staffordshire, B51 3JL, UK

T +44 (0) 121 351 1000
F +44 (0) 121 351 1001
E enquiries@gbinspection.com
W www.gbinspection.com



GB Inspection Systems Ltd. www.gbinspection.com Tel: +44 (0)121 351 1000

Certificate of Calibration

Certificate Number	57814
Issue Date	01/08/2021
Probe Test Number	57814
Probe Manufacturer	GB Inspection Systems Ltd
Probe Model	GH400CS-01
Probe Serial Number	42501
Specification	BS EN ISO 22232-2:2020
Probe Description	GH Range High Temperature Sub Miniature Twin Crystal 3MHz (86.5mm) with Lemo 00
Deviation	None

Test Results	
Probe	GH400CS-01
Probe Manufacturer	GB Inspection Systems Ltd
Probe Model	GH400CS-01
Probe Serial Number	42501
Probe Description	GH Range High Temperature Sub Miniature Twin Crystal 3MHz (86.5mm) with Lemo 00
Probe Test Number	57814
Probe Issue Date	01/08/2021
Probe Specification	BS EN ISO 22232-2:2020
Probe Condition	Good
Probe Location	GB
Probe Status	Active
Probe Type	Compression
Probe Frequency	3.5MHz
Probe Waveform	Pulse
Probe Pulse Width	100ns
Probe Pulse Amplitude	10V
Probe Pulse Repetition Rate	1000Hz
Probe Pulse Delay	100ns
Probe Pulse Rise Time	10ns
Probe Pulse Fall Time	10ns
Probe Pulse Settling Time	10ns
Probe Pulse Dwell Time	10ns
Probe Pulse Total Time	10ns

Test Equipment Used

Test Equipment	Serial Number
Test Block - 10 Calibration Block - 400001	400001
Test Block - 10 Calibration Block - 400002	400002
Test Block - 10 Calibration Block - 400003	400003
Test Block - 10 Calibration Block - 400004	400004
Test Block - 10 Calibration Block - 400005	400005
Test Block - 10 Calibration Block - 400006	400006
Test Block - 10 Calibration Block - 400007	400007
Test Block - 10 Calibration Block - 400008	400008
Test Block - 10 Calibration Block - 400009	400009
Test Block - 10 Calibration Block - 400010	400010
Test Block - 10 Calibration Block - 400011	400011
Test Block - 10 Calibration Block - 400012	400012
Test Block - 10 Calibration Block - 400013	400013
Test Block - 10 Calibration Block - 400014	400014
Test Block - 10 Calibration Block - 400015	400015
Test Block - 10 Calibration Block - 400016	400016
Test Block - 10 Calibration Block - 400017	400017
Test Block - 10 Calibration Block - 400018	400018
Test Block - 10 Calibration Block - 400019	400019
Test Block - 10 Calibration Block - 400020	400020
Test Block - 10 Calibration Block - 400021	400021
Test Block - 10 Calibration Block - 400022	400022
Test Block - 10 Calibration Block - 400023	400023
Test Block - 10 Calibration Block - 400024	400024
Test Block - 10 Calibration Block - 400025	400025
Test Block - 10 Calibration Block - 400026	400026
Test Block - 10 Calibration Block - 400027	400027
Test Block - 10 Calibration Block - 400028	400028
Test Block - 10 Calibration Block - 400029	400029
Test Block - 10 Calibration Block - 400030	400030
Test Block - 10 Calibration Block - 400031	400031
Test Block - 10 Calibration Block - 400032	400032
Test Block - 10 Calibration Block - 400033	400033
Test Block - 10 Calibration Block - 400034	400034
Test Block - 10 Calibration Block - 400035	400035
Test Block - 10 Calibration Block - 400036	400036
Test Block - 10 Calibration Block - 400037	400037
Test Block - 10 Calibration Block - 400038	400038
Test Block - 10 Calibration Block - 400039	400039
Test Block - 10 Calibration Block - 400040	400040
Test Block - 10 Calibration Block - 400041	400041
Test Block - 10 Calibration Block - 400042	400042
Test Block - 10 Calibration Block - 400043	400043
Test Block - 10 Calibration Block - 400044	400044
Test Block - 10 Calibration Block - 400045	400045
Test Block - 10 Calibration Block - 400046	400046
Test Block - 10 Calibration Block - 400047	400047
Test Block - 10 Calibration Block - 400048	400048
Test Block - 10 Calibration Block - 400049	400049
Test Block - 10 Calibration Block - 400050	400050
Test Block - 10 Calibration Block - 400051	400051
Test Block - 10 Calibration Block - 400052	400052
Test Block - 10 Calibration Block - 400053	400053
Test Block - 10 Calibration Block - 400054	400054
Test Block - 10 Calibration Block - 400055	400055
Test Block - 10 Calibration Block - 400056	400056
Test Block - 10 Calibration Block - 400057	400057
Test Block - 10 Calibration Block - 400058	400058
Test Block - 10 Calibration Block - 400059	400059
Test Block - 10 Calibration Block - 400060	400060
Test Block - 10 Calibration Block - 400061	400061
Test Block - 10 Calibration Block - 400062	400062
Test Block - 10 Calibration Block - 400063	400063
Test Block - 10 Calibration Block - 400064	400064
Test Block - 10 Calibration Block - 400065	400065
Test Block - 10 Calibration Block - 400066	400066
Test Block - 10 Calibration Block - 400067	400067
Test Block - 10 Calibration Block - 400068	400068
Test Block - 10 Calibration Block - 400069	400069
Test Block - 10 Calibration Block - 400070	400070
Test Block - 10 Calibration Block - 400071	400071
Test Block - 10 Calibration Block - 400072	400072
Test Block - 10 Calibration Block - 400073	400073
Test Block - 10 Calibration Block - 400074	400074
Test Block - 10 Calibration Block - 400075	400075
Test Block - 10 Calibration Block - 400076	400076
Test Block - 10 Calibration Block - 400077	400077
Test Block - 10 Calibration Block - 400078	400078
Test Block - 10 Calibration Block - 400079	400079
Test Block - 10 Calibration Block - 400080	400080
Test Block - 10 Calibration Block - 400081	400081
Test Block - 10 Calibration Block - 400082	400082
Test Block - 10 Calibration Block - 400083	400083
Test Block - 10 Calibration Block - 400084	400084
Test Block - 10 Calibration Block - 400085	400085
Test Block - 10 Calibration Block - 400086	400086
Test Block - 10 Calibration Block - 400087	400087
Test Block - 10 Calibration Block - 400088	400088
Test Block - 10 Calibration Block - 400089	400089
Test Block - 10 Calibration Block - 400090	400090
Test Block - 10 Calibration Block - 400091	400091
Test Block - 10 Calibration Block - 400092	400092
Test Block - 10 Calibration Block - 400093	400093
Test Block - 10 Calibration Block - 400094	400094
Test Block - 10 Calibration Block - 400095	400095
Test Block - 10 Calibration Block - 400096	400096
Test Block - 10 Calibration Block - 400097	400097
Test Block - 10 Calibration Block - 400098	400098
Test Block - 10 Calibration Block - 400099	400099
Test Block - 10 Calibration Block - 400100	400100

In accordance with BS EN ISO 22232-2:2020

“Non-destructive testing. Characterisation and verification of ultrasonic examination equipment. Probes.”



Calibration, Service and Repair

GB Inspection has many years' experience in the repair, service and calibration of all makes of Ultrasonic, Eddy Current and Magnetic Particle Inspection equipment.

All the leading makes of equipment are catered for and we offer a fast, reliable and competitive service.

All calibration readings and results are traceable to national standards. Prices are available upon request.

Examples-

- Ultrasonic Transducers
- Calibration Blocks
- Ultrasonic Flaw Detectors
- Ultrasonic Thickness Meters
- Eddy Current Equipment
- Rail Test Trollies
- Magnetic Yokes
- Electro Magnets
- Magnetometers
- Field Strength Meters
- Bench Units
- Phased Array PAUT
- Portable Transformers
- UV Lamps & Meters
- Clamp Meters
- Densitometers
- Radiation meters





NDT Equipment and Consumables

As we are an independent company not tied to any one manufacturer, we can offer you a competitive range of Ultrasonic, Eddy Current and MPI Equipment from a variety of manufacturers to best suit your purpose, requirement or

Ultrasonic Flaw Detectors and Thickness Meters:

We offer a wide range of ultrasonic flaw and thickness meters available to suit your purpose, including:

- Digital flaw detectors: all the leading makes available such as Sonatest, Proceq, Zetec, EddyFi, Olympus

Eddy Current Equipment

We offer a wide range of eddy current equipment to suit your purpose, including:

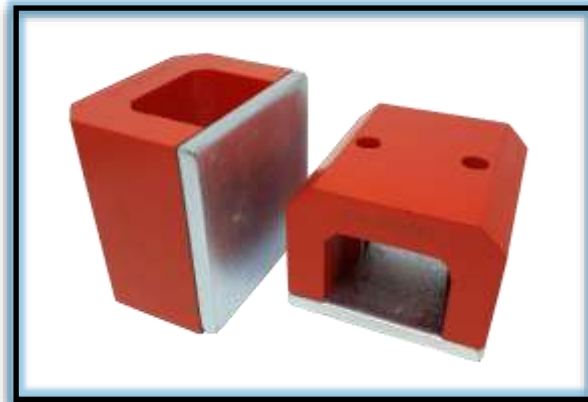
- Eddy current crack / flaw detectors: all the leading makes
- Portable & integrated systems
- Locators and material or grade verification

Dye Penetrant Consumables

- Dye
- Developer

MPI Equipment & Consumables:

- Magnetic ink & contrast paint
- Electro-magnetic yokes
- Permanent magnets
- Test weights
- Magnetic flux indicators
- Gauss meters
- Settlement flasks



For prices and more options of NDT Equipment and Consumables contact our sales team where are happy to help.

Global Partners

GB Inspection Systems has a global presence and a quality reputation for successfully supplying and servicing customers in many countries worldwide, with future expansion planned into countries not currently served. We use a number of global partners to distribute our products all over the world if you are interested in becoming one of our official distributors in your region please get in touch to find out more information.



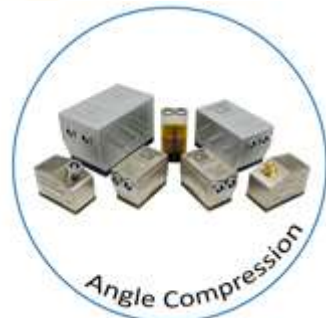
GBIS News ...

GB Inspection new offerings:

- Bolt Testing Transducers
- Immersion-PALM-Array

Contact our sales team either by Email: sales@gbinspection.com or Call +44 (0)121 351 5025

GB Inspection Systems Ltd



Made in Great Britain...
...Sold Worldwide

GB Inspection Systems Ltd.
22A Cobbett Road
Burntwood Business Park
Burntwood, Cannock
Staffordshire, WS7 3GL. UK

T +44 (0)121 351 5025
F +44 (0)1543 279619
E enquiries@gbinspection.com
W www.gbinspection.com
Company Registration Number 3021497