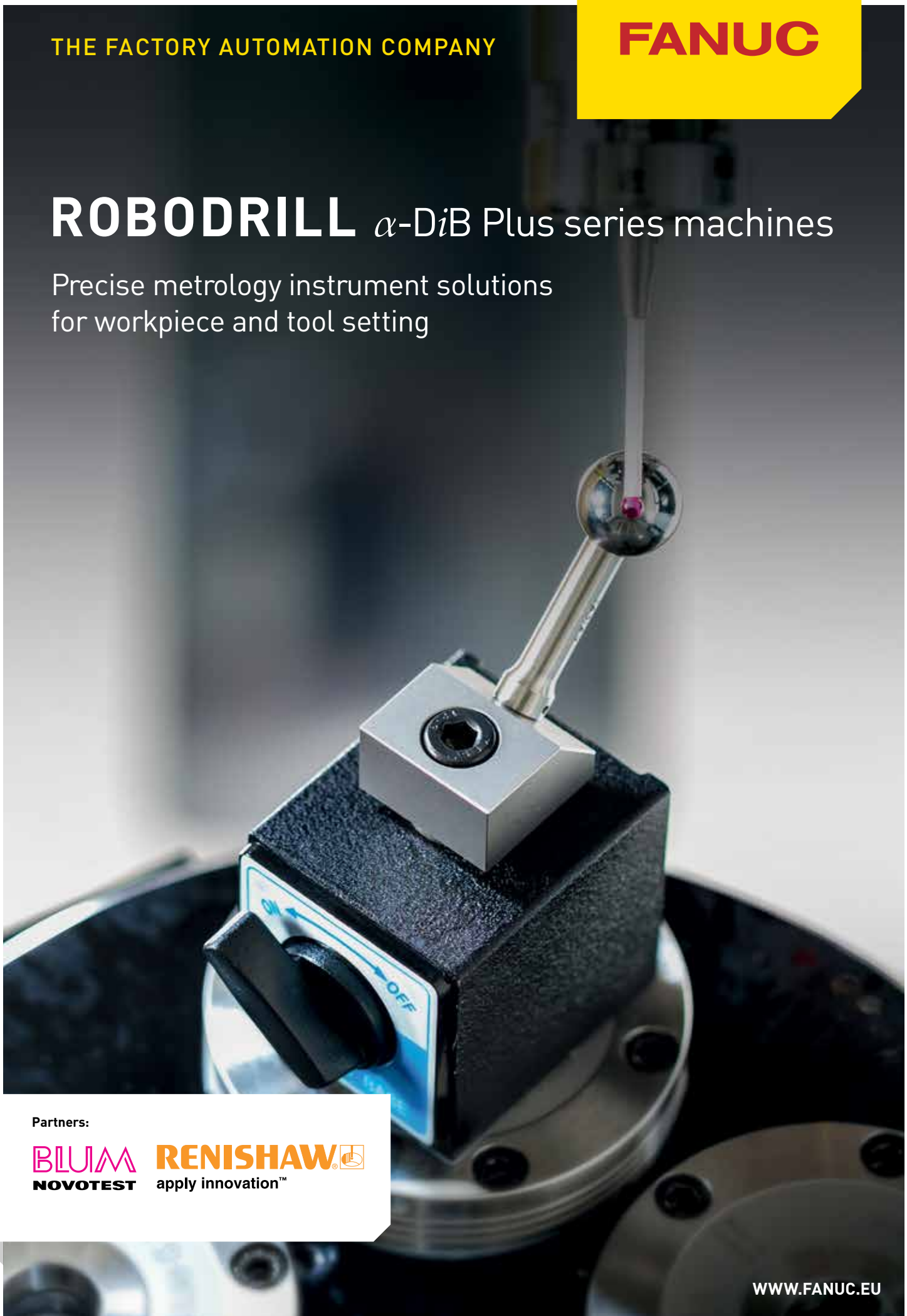


THE FACTORY AUTOMATION COMPANY

FANUC

ROBODRILL α -DiB Plus series machines

Precise metrology instrument solutions
for workpiece and tool setting



Partners:

BLUM
NOVOTEST

RENISHAW 
apply innovation™

WWW.FANUC.EU

Probing is a widely recognised method for optimising the efficiency, quality, capability and accuracy of your machine tool. To create a customised probing solution, choose from the following metrology instrument options. You can select the appropriate instrument categories and transmission technology based on your unique requirements. Additionally, each probing solution can be installed on either the left or right side of the machine table.

Installation option – left side
Order number: WI-LX-RD-MD-23-1-0001

Installation option – right side
Order number: WI-LX-RD-MD-23-1-0002

Tactile tool setting touch probes

Tactile workpiece setting touch probes

Non-contact tool setting and breakage detection probes

Key features of different transmission technologies:

Infrared technology

- enables cable free workpiece probe and tool setter systems
- offers fast optical transmission

Radio frequency technology

- enables cable-free, multiple probe and tool setter systems
- delivers interference-free transmission via 2.4 GHz waveband
- allows line-of-sight communication

Cable type probes

- provide fail-safe cable connection
- guarantees lowest measurement cycle times
- offer reliable and stable data transmission

Key features of different probe types:

Tactile probing systems

- designed for measuring discrete points
- ideal for inspection of 3-dimensional geometric parts

Non contact probing systems

- employ optical capturing of measurement data
- recommended if fragile or complex geometric features must be inspected
- ideal for measuring complex geometries
- offer versatile solutions for various measurement applications

Enhanced Air Blow Solutions:

Debris, such as swarf and chips, can compromise the precision of your measurements, potentially leading to machine downtime. To ensure maximum process stability and prevent these issues during probing, we offer air blow solutions for a wide range of tactile tool setting probes.

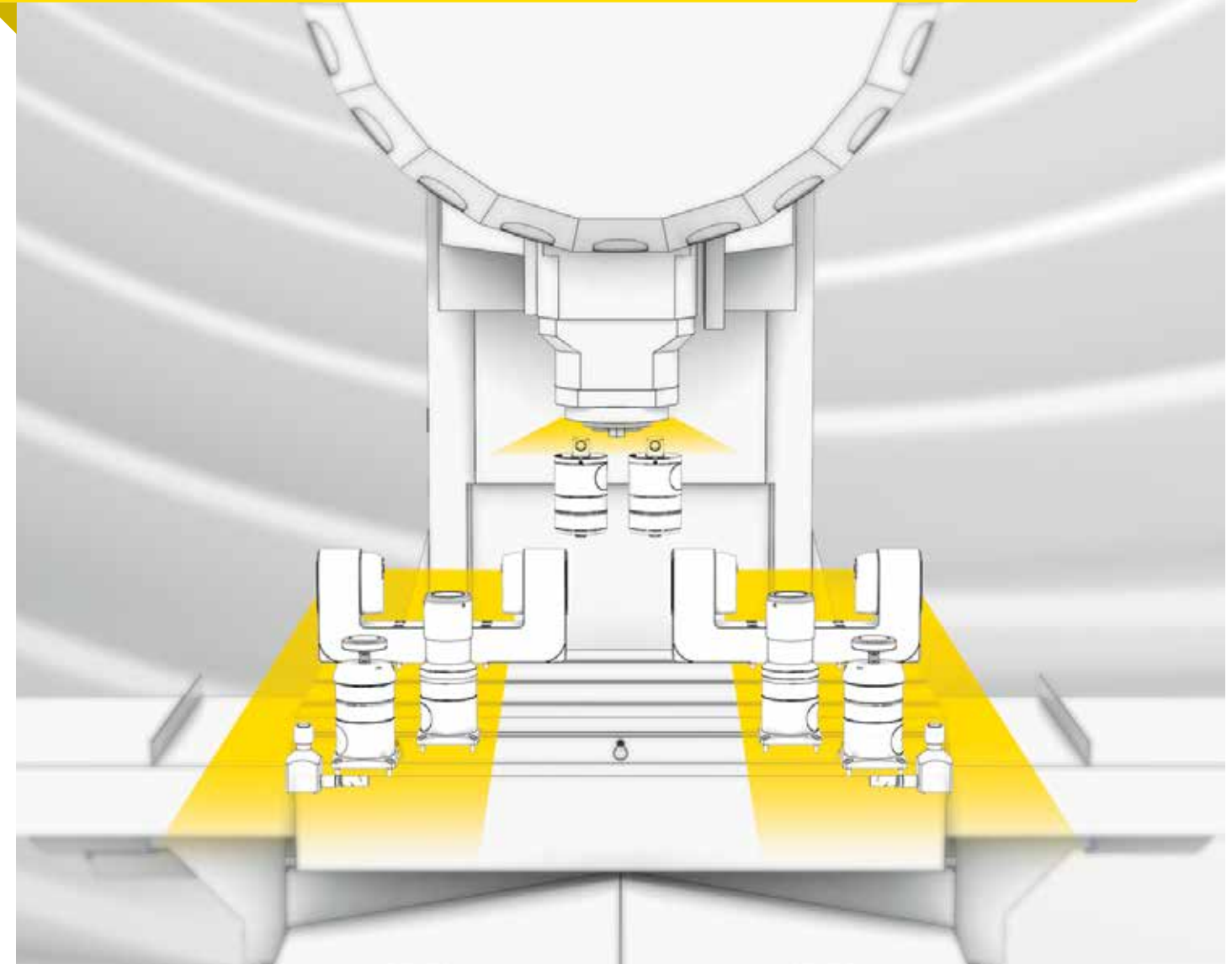
Advanced 5-Axis Calibration Options:

For optimal accuracy and repeatability in multi-axis machining applications, our comprehensive calibration kits are designed to facilitate precise rotary axis alignment. Trust our advanced solutions to help you achieve the best possible machining results.

Metrology Instrument Cat. Transmission type	Tactile tool setting touch probes	Tactile workpiece setting touch probes	Non contact tool setting and breakage detection probes
Infrared			
Radio Frequency			
Hard wired			

BLUM NOVOTEST options overview

Metrology solutions tailored to your requirements



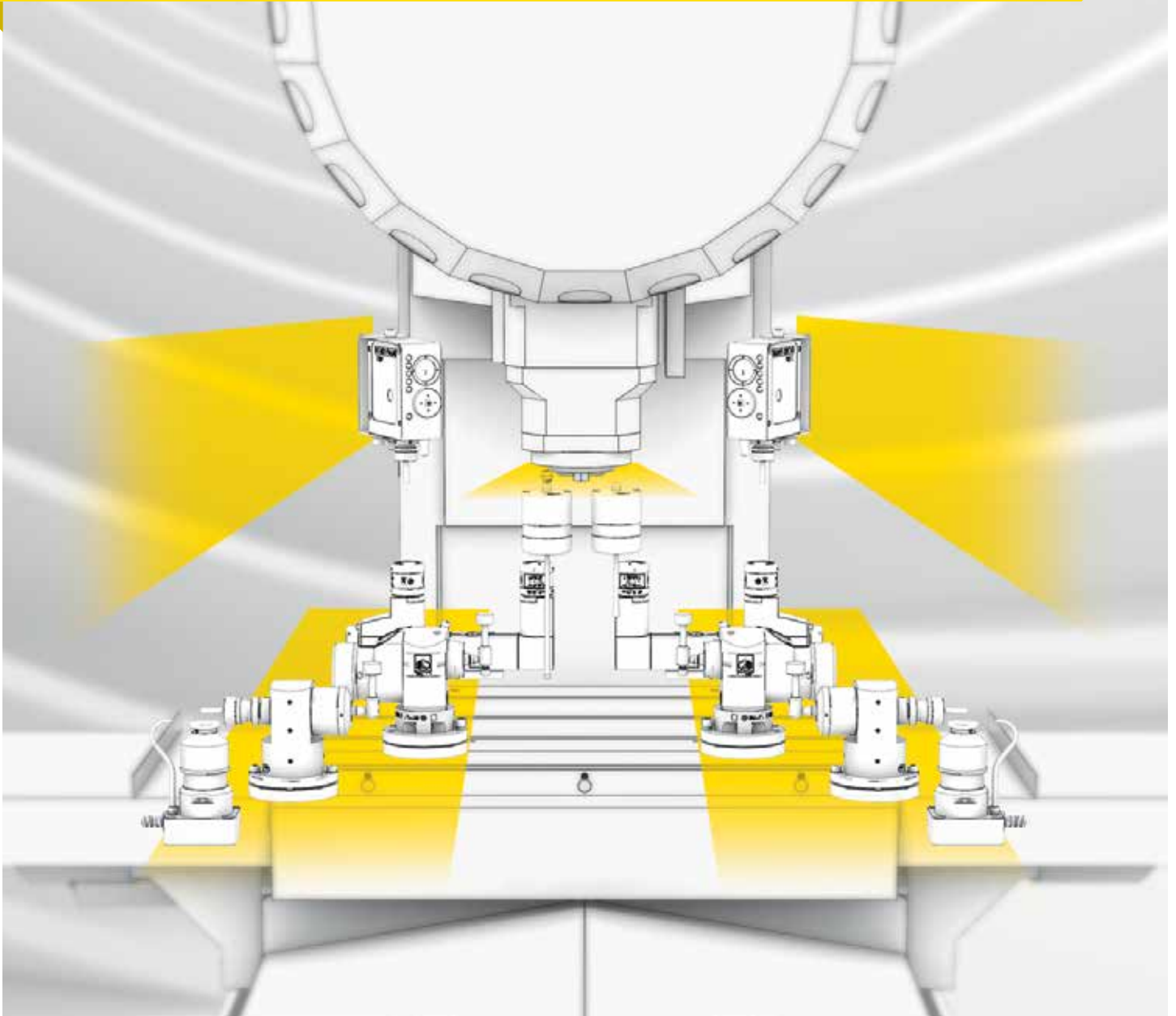
METROLOGY INSTRUMENT CATEGORY											
Workpiece and tool setting probe solutions						Hard wired tool setting probes					
TRANSMISSION TECHNOLOGIES											
Infrared			Radio Frequency				Cable type				
INTERFACES											
LX04B-0100-PB10 IC56 Receiver			LX04B-0100-PB20 RC66 Receiver				LX04B-0100-PB30	LX04B-0100-PB31	LX04B-0100-PB32	LX04B-0100-PB32	
PROBE SYSTEMS											
LX04B-0100-PB10#01	LX04B-0100-PB10#02	LX04B-0100-PB10#03	LX04B-0100-PB10#04	LX04B-0100-PB20#01	LX04B-0100-PB20#02	LX04B-0100-PB20#03	LX04B-0100-PB20#04	ZX-Speed Tactile tool setting probe	Z-Nano Tool breakage & setting probe	Z-Pico tool setting probe	LC50 DIGILOG laser non-contact tool setting probe
TC52 Tactile workpiece probe	TC52LF Tactile workpiece probe	ZX-Speed IR Tactile tool setting probe	Z-Nano IR Tactile tool breakage & setting probe	TC62 Tactile workpiece probe	TC62LF Tactile workpiece probe	ZX-Speed RC Tactile tool setting probe	Z-Nano RC Tactile tool setting probe				
ACCESSORIES											
LX04B-0100-PB00#50	LX04B-0100-PB50#02	LX04B-0100-PB50#04		LX04B-0100-PB00#50	LX04B-0100-PB50#02	LX04B-0100-PB50#04	LX04B-0100-PB50#01	LX04B-0100-PB50#03	LX04B-0100-PB50#01	LX04B-0100-PB50#51	
5 Axis calibration - Kinematics perfect	Air Blow nozzle	Air Blow nozzle		5 Axis calibration - Kinematics perfect	Air Blow nozzle	Air Blow nozzle	Air Blow nozzle	Air Blow nozzle	Air Blow nozzle	PC Software Kinematics Perfect PC FNC	

RENISHAW options overview

Metrology solutions tailored to your requirements

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METROLOGY INSTRUMENT CATEGORY

Workpiece and tool setting probe solutions

Tool setting solutions

Tool breakage solution

TRANSMISSION TECHNOLOGIES

Infrared

Radio Frequency

Cable type

INTERFACES

LX04B-0100-PR10
OMI-2T Receiver

LX04B-0100-PR20
RMI-Q Receiver

PROBE SYSTEMS

LX04B-0100-PR33

LX04B-0100-PR30

LX04B-0100-PR31

LX04B-0100-PR32

LTS Primo
Tactile tool setting/
breakage detection probe

TS27R
Tactile tool setting probe

NC4+ Blue
F145 laser non-contact tool setting probe

TRS2 Laser
tool breakage detection probe

ACCESSORIES

LX04B-0100-PR00#50
5 Axis calibration -
AxiSet Kit

LX04B-0100-PR50#01
Air Blow for
OTS & RTS

LX04B-0100-PR00#50
5 Axis calibration -
AxiSet Kit

LX04B-0100-PR50#01
Air Blow for
OTS & RTS