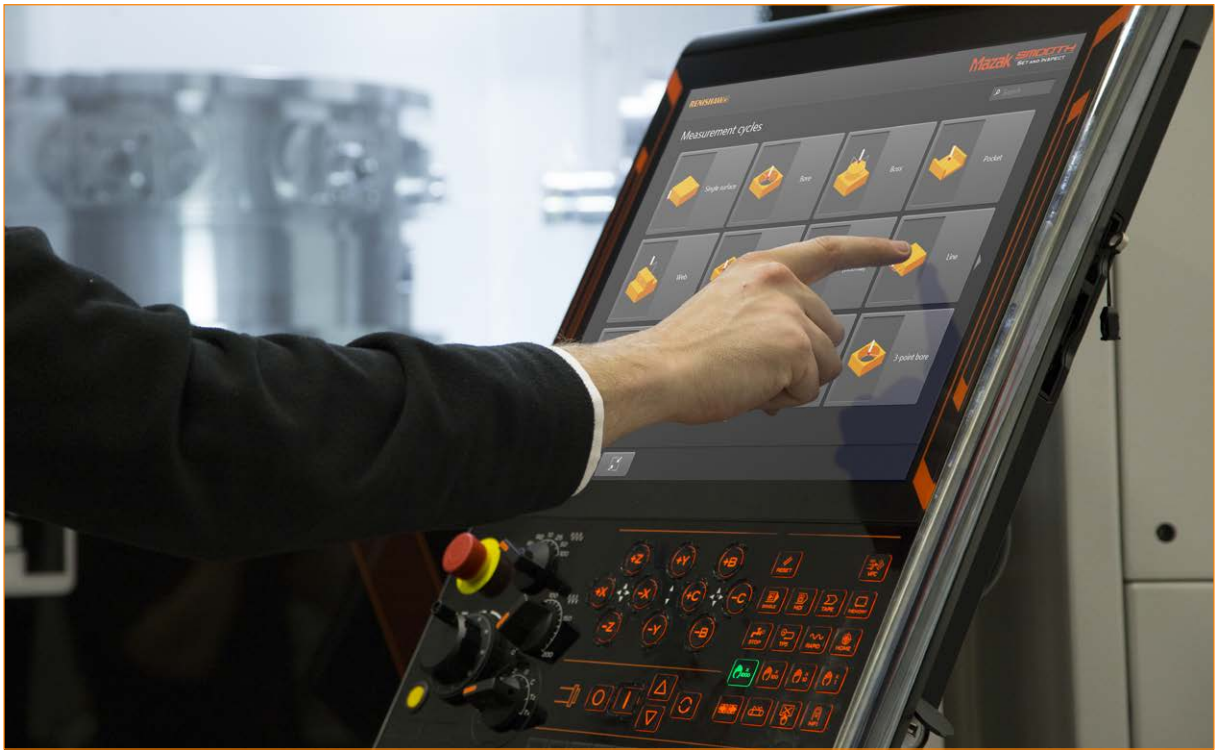
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Set and Inspect for Mazak controls

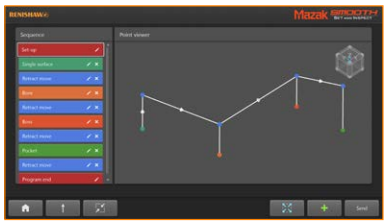
Set and Inspect is a simple, intuitive, on-machine probing app for customers who require an easy-to-use probing solution.

Unlike traditional programming software, Set and Inspect is so easy to use that virtually no training is required: the software's intuitive interface guides the user through the process of creating a probing cycle, automatically generates the required machine code for the probing cycle and loads it to the control; making it perfect for new users and those with limited probing experience or machine code knowledge.









Benefits

- Simple to use, highly visual display in an intuitive, easy-to-understand design
- No probing experience or machine code knowledge necessary
- Significantly reduces data entry errors
- Allows fast and accurate part set-up
- Supports part setting, inspection, and tool setting cycles
- Compatible with a range of 3-axis and 5-axis machine tools
- Choice of programming modes: use Single cycle to manually inspect individual features; use Program builder to generate an inspection program containing multiple features that can be embedded in other routines

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Part number	A-5999-1300	
Supported Mazak controls [1]	MAZATROL SmoothX and SmoothG	
Supported machine types	Horizontal machining centres, vertical machining centres, INTEGREX *e*-H, INTEGREX *e*-V, INTEGREX i-series, INTEGREX j-series, VARIAXIS	
Hard disk requirements		
App alone	45 MB	
.NET Framework	Approximately 850 MB (32-bit controls); approximately 2 GB (64-bit controls)	
Supported cycles: Single cycle (Mazak machining centres and Mazak VARIAXIS)		
Part setting/inspection	Measurement	Single surface, bore, boss, pocket, web, corner (internal), corner (external), line, 3-point plane, 5-point rectangle (internal), 5-point rectangle (external), 3-point bore, 3-point boss, 3D corner, rotary axis update
	Calibration	Traditional: XY, Z, XYZ, probe check GoProbe: XY, Z, probe check
Contact tool setting	Measurement	Length, length and diameter, multiple tools
	Calibration	Round stylus, square stylus
Non-contact tool setting	Measurement	Length, length and diameter, corner radius, broken tool, broken tool: solid tools, edge check, profile check, length: on-centre multiple tools
	Calibration	Beam alignment, beam calibration
Supported cycles: Single cycle (Mazak INTEGREX)		
Part setting/inspection	Measurement (B0 and B90, SP1 and SP2)	Single surface, bore, boss, pocket, web, 3-point bore, 3-point boss, rotary axis update, C-axis find (internal), C-axis find (external)
	Calibration	Sphere
Cross-set tool setting [2]	Measurement	Milling: length, length and diameter. Turning: B0, B45
	Calibration	Calibration
Non-contact tool setting	Measurement	Length, length and diameter, corner radius, broken tool, broken tool: solid tools, edge check, profile check, length: on-centre multiple tools
	Calibration	Beam alignment, beam calibration
Supported cycles: Program builder (Mazak machining centres and Mazak VARIAXIS)		
Part setting/inspection	Measurement	Single surface, bore, boss, pocket, web, corner (internal), corner (external), line, 5-point rectangle (internal), 5-point rectangle (external), 3-point bore, 3-point boss, rotary axis update
Macro prerequisites		
Machining centres and Mazak VARIAXIS	Inspection Plus	Renishaw part no. A-4013-0112, **version 0T or later**
	Contact tool setting	Renishaw part no. A-4013-0133
	Non-contact tool setting	Renishaw part no. A-4013-0119
Mazak INTEGREX	Inspection Plus	Renishaw part no. A-4013-0106, **version AH or later**
	Cross-set tool setting [2]	Renishaw part no. A-4013-0330
	Non-contact tool setting	Renishaw part no. A-4013-0123
Supported Renishaw probes	Spindle probes	MP700, OMP40-2, OMP60, OMP400, OMP600, RMP40, RMP60, RMP600, OLP40, OLP60, RLP40, Primo Radio Part Setter
	Contact tool setters	OTS, RTS, TS27R, TS34, Primo Radio 3D Tool Setter
	Non-contact tool setters	NC4
Supported languages	Czech, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish	

[1] Microsoft® Windows®-based controls. Mazak API must be installed. For other controls, please contact your local Mazak office.
[2] Mazak INTEGREX machine tools with a horizontal Z axis only.

For worldwide contact details, visit www.renishaw.com/contact

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H-5999-8200-05

Part no.: H-5999-8200-05-B
Issued: 03.2017

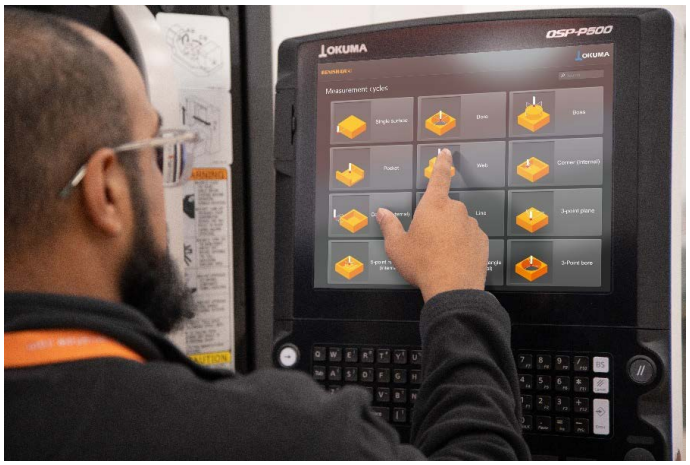
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Set and Inspect and Reporter for Okuma controllers

The Set and Inspect and Reporter probing and measuring apps have been designed to be intuitive and need minimal training.

A clear user interface helps you quickly create probing cycles. Machine code is automatically created and loaded to the controller.

Detailed live data is clearly displayed, with pass or fail indicators for each measurement. Historical data is also displayed for every part measured.



Benefits

- Intuitive, highly visual display.
- Minimum previous probing or machine code experience needed.
- Reduces data entry errors.
- Fast and accurate part set-up.
- Supports part setting, inspection, and tool setting cycles.
- Compatible with a range of 3-axis and 5-axis machine tools. [1]
- Automatically update work and tool offsets.
- Choice of 2 programming modes:
    - Single cycle manually inspects individual features.
    - Program builder generates an inspection program containing multiple re-usable features.
- Reporter is integrated with Set and Inspect for easy analysis of measurement and calibration data.
- Quickly view pass and fail measurement data at the CNC machine tool.
- Export to CSV or PDF, or stream live from the controller, using the optional extra, MTConnect.

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Part number		A-5999-1400	
Supported Okuma controllers		OSP-P200, OSP-P300[2], OSP-P500[3]	
Supported machine types		Horizontal machining centres, vertical machining centres, lathes, MULTUS, MacTurn, VTL, VTM	
Hard disk requirements		3.5 GB	
Supported cycles: Single cycle			
Machining centres	Part setting/ inspection	Measurement	Single surface, bore, boss, pocket, web, angled surface, corner (internal), corner (external), block (internal), block (external), 3-point bore, 3-point boss, 3D corner, rotary axis updates
		Calibration	XY, Z
	Contact tool setting	Measurement	Length, length and diameter, multiple tools
		Calibration	Round stylus, square stylus
	Non-contact tool setting	Measurement	Length, length and diameter, broken tool, broken tool: solid tools, edge check, profile check, length: on-centre multiple tools
		Calibration	Beam alignment, beam calibration
Lathes	Part setting/ inspection	Measurement	SP1/SP2 0° and 90°, bore, boss, pocket, web, single surface, sphere
		Calibration	SP1/SP2 0° and 90°, bore, boss, pocket, web, single surface
MULTUS/ MacTurn	Part setting/ inspection	Measurement and calibration	SP1/SP2 0° and 90°, bore, boss, pocket, web, single surface, sphere
	AxiSet™ Check-Up	Measurement	SP1 and SP2, B-axis cycle and C-axis cycle
		Calibration	SP1 and SP2 cycles
VTL	Part setting/ inspection	Measurement	SP1 0° and 90°, bore, boss, pocket, web, single surface, sphere
		Calibration	SP1 0° and 90°, bore, boss, pocket, web, single surface
VTM	Part setting/ inspection	Measurement and calibration	SP1 0° and 90°, bore, boss, pocket, web, single surface, sphere
	AxiSet™ Check-Up	Measurement	SP1, B-axis cycle and C-axis cycle
		Calibration	SP1 cycles
Supported cycles: Program builder			
Machining centres	Part setting/ inspection	Measurement	Single surface X/Y/Z, bore, boss, pocket, web, angled surface, corner (internal), corner (external), 3-point bore, 3-point boss, rotary axis updates
Macro software prerequisites			
Machining centres		Inspection Plus	Renishaw part no. A-4016-1035, **version AH or later**
		Contact tool setting	Renishaw part no. A-4016-1039, **version 0Y or later**
		Non-contact tool setting	Renishaw part no. A-4016-1051, **version 0G or later**
Lathe, MULTUS and MacTurn		Inspection Plus	Renishaw part no. A-4016-1056, **version 0P or later**
		AxiSet™ Check-Up	Renishaw part no. A-5642-4200, **version 0G or later**
Supported Renishaw probes		Spindle probes	MP700, OMP40-2, OMP60, OMP400, OMP600, RMP24, RMP40, RMP60, RMP600, OLP40, OLP60, RLP40, Primo Radio Part Setter
		Contact tool setters	OTS, RTS, TS27R, TS34, Primo Radio 3D Tool Setter
		Non-contact tool setters	NC4
Supported languages		Czech, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Simplified Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish	

[1] Microsoft® Windows®-based controllers. Software supported on Windows® 7 SP1 or later.

[2] Okuma THINC API 1.12-1.18 must be installed for OSP-P300.

[3] Okuma THINC API 1.19 or later must be installed for OSP-P500.

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