# 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.
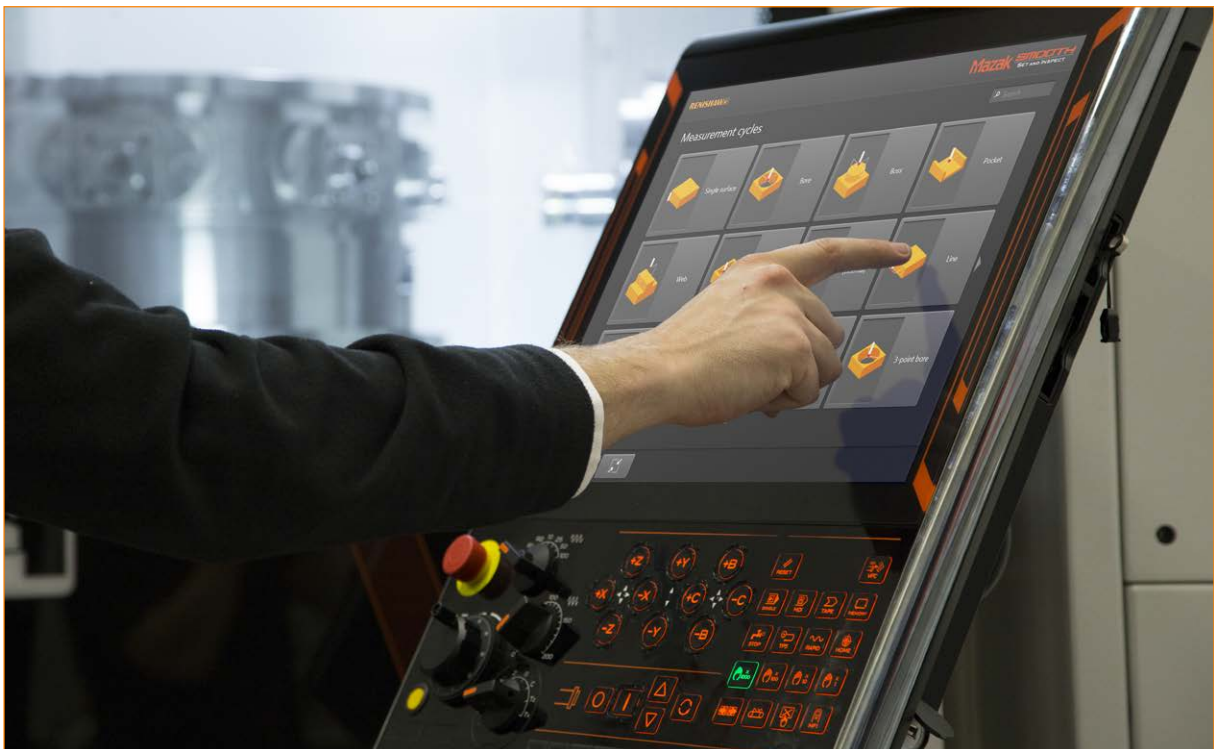
Benefits

- 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

RENISHAW®
apply innovation™

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

H - 5999 - 8200 - 05

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