Falcon

SOTP type

Contactless Optical Tool Presetter **Aegis-i** Series

Simple and Compact!
High-performance presetter - affordable price!

Collet holder nut can be tightened on the machine.

- **Contactless measurement does not damage cutting edges.**
  Suitable for expensive cutting tools such as diamond and CBN.
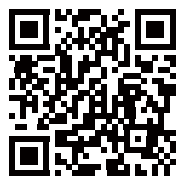
- **Easy operation reduces human error.**

Max Measurement

X-axis : ø300mm

Z-axis : 400mm

Collet holder nut can be tightened on the machine. ※MAX60Nm

Camera Handle

Simple one hand operation.

Fine Adjustment Dial for Z-axis / X-axis

Quick camera positioning by rotating the dial.

Mechanical Clamping

A pneumatic cylinder clamps the holder securely in place, guaranteeing excellent accuracy through repeated mounting of holders.
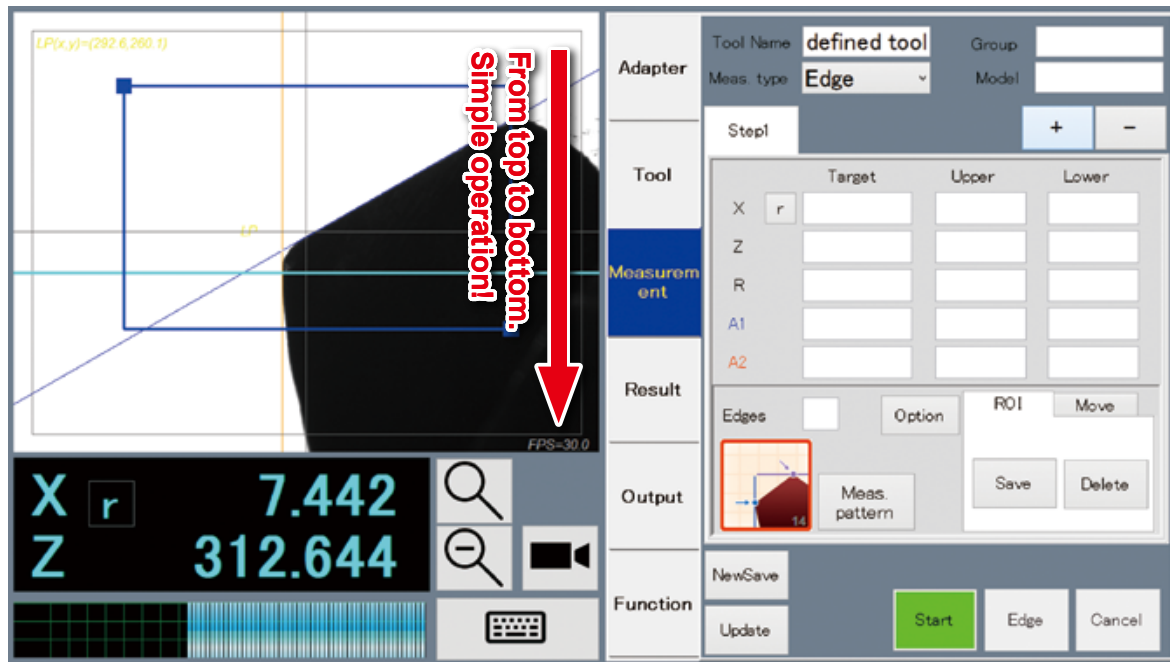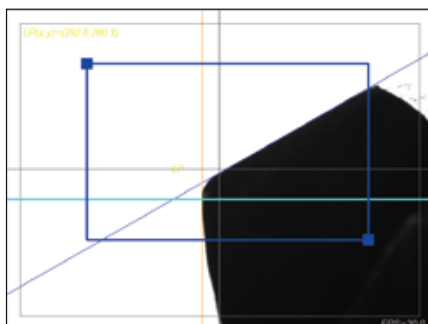
Product Movie

NT TOOL CORPORATION

Easy-to-use Software with Tutorial Function

Operation screen lined up in working sequences! Quick operation by switching tabs.
Well-thought-out layout of the operation screen minimizes operation time.
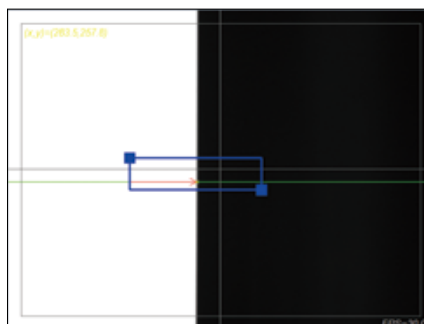
Measurement Functions
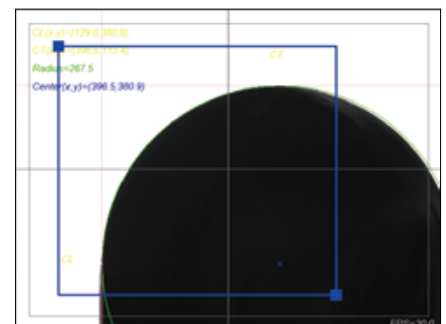
① Drill Shoulder Measurement

Results that passed or failed to meet the target values can be displayed in a list, or notified with a sound. Results may also be displayed as a graph.

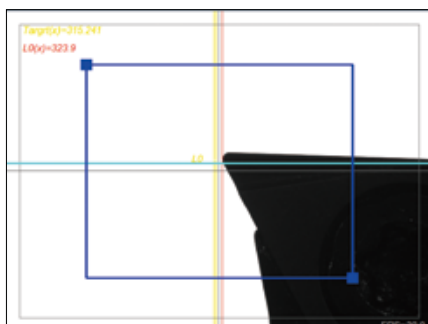### ② Runout Measurement of the Cutting Edge

Capture the area you want to measure. Then, turn the spindle.
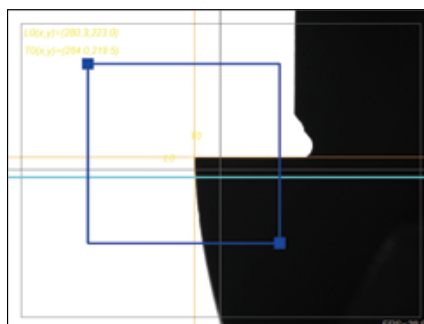
③ Measuring Afterimage

The cutting tool's profile is plotted by rotating the spindle 360 degrees.
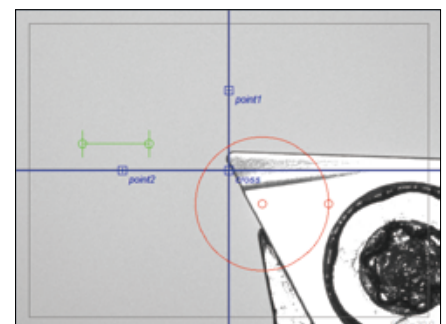
④ Tolerance Area Display

The tolerance area is displayed on the screen for easy adjustment of the boring bar diameter.

⑤ Measuring Step Drill

Each step can be measured separately.

⑥ Real Image of Cutting Edge

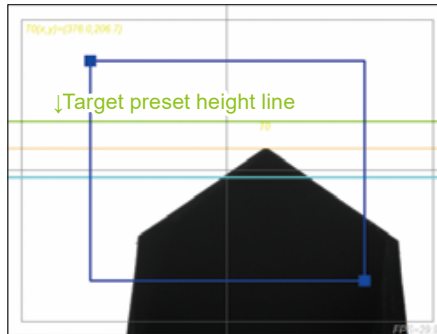Wear and chipping on cutting edge can be inspected.

Options

① Stop Measurement When Runout Exceeds Tolerances

	X	Z	R	A1	A2
Upper					
Target					
Lower					
1	5.053	246.718			
2	5.042	246.718			
Runout	0.011	0.000			

Step1 — Detail / Graph

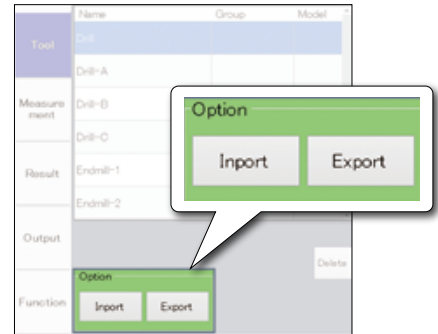↑ Value that exceed runout tolerances will be displayed in red.

For multi-step measurements, the measurement will stop if runout exceeds the specified tolerances during the runout measurement step. This prevents measurements from running to completion with unacceptable runout.

② Target Value Input
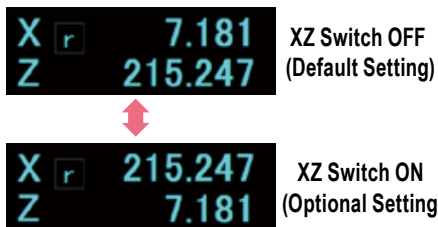
↓Target preset height line

In "Adjustable Mode," the target preset height is displayed on the screen with a green line. Use to offset for cap compression when using collet holders, etc.
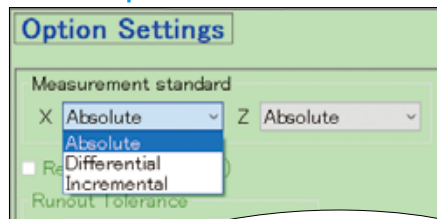
③ Import, Export

Tool data is imported and exported in the CSV file format. Use to move data to other equipment, or to synchronize tool data between multiple presetters.

④ Switch the X-axis and Z-axis

X r 7.181
Z 215.247

XZ Switch OFF (Default Setting)

X r 215.247
Z 7.181

XZ Switch ON (Optional Setting)

Switch the Z-axis so it displays radial measurements instead of vertical, and the X-axis so it shows vertical measurements instead of radial. Use when machining with lathes, etc., in a non-standard direction.

⑤ Setting the measurement standard for step measurement

Option Settings

Measurement standard
X [Absolute ▾] Z [Absolute ▾]
Absolute
Differential
Incremental
Runout Tolerance

This function allows you to set the measurement standard for step measurement.

⑥ Base Stand

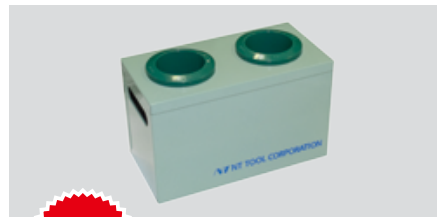There are mounting holes for SOTP unit and regulator.

Code	4940 00041025
Model	SOTP-BASESTAND
Size	W900 x D600 x H760 mm

⑦ Lens Guard

NEW Protects the lens from accidental impact.

⑧ Adaptor Rack(BT50)

NEW Frequently used adapters and holders can be placed nearby.

Adapters (Sold Separately)

NEW Rust-proof case

It can be placed on the presetter's adapter tray with the rust-proof case still attached.

- To measure tool holders other than BT50 shank size, adapters are necessary.
- Rust-proof case included to protect the adapter from rust. *Not included for HSK100A and UTS10080 size.

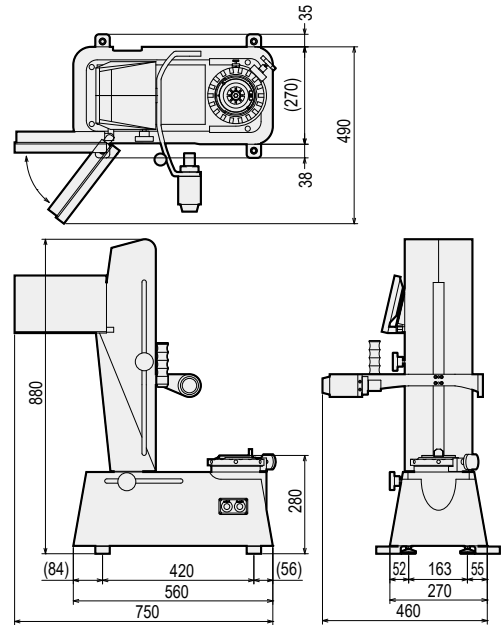| For BT, CAT and SK	For HSK	For UTS	For C
BT30, BT40, CAT40, SK40 *Please designate the type of retention stud in use.	• HSK25E, HSK32E • HSK32A, HSK40A, HSK50A, HSK63A, HSK100A	UTS5040, UTS6350, UTS10080	C3, C4 **NEW** : C5, C6 Coolant hose compatible

Specifications of SOTP

External dimensions	750x490x880(WxDxH)
Weight	75kg
Power supply	100~240V AC, 50/60Hz
Power consumption	52W
Air pressure	0.4~0.6MPa
Measurement	X-axis ø300mm, Z-axis 400mm [*1]
Minimum reading	0.001mm
Spindle size	BT50 (Adapters for different spindle sizes available.)
Clamp method	Mechanical clamp (2000N)
Specifications of camera	0.33 million pixel CCD monochrome
Screen magnification ratio	11.5× Magnification
Display size	10.1"
Cutting edge measurement range	9.6 x 7.2 mm
Menu manipulation method	Touch panel
Language selection	English, Japanese, Korean, Chinese, Spanish
Accessories	Filter regulator, Cover
Spindle Rotation Method	Manual

*1 The measurement range of the Z-axis is narrowed by adapter's thickness.
· Switchable between Inch and Metric display.
· Specifications and design of the product are subject to change without notice.

Code	Model	Retention Stud
4910 00040011	**SOTP-400B-1A**	PSB-7, PSB-8 PSB-14, PSB-19
4910 00040013	**SOTP-400B-1C**	PSB-17
4910 00040024	**SOTP-400B-2D**	PSB-24
4910 00040025	**SOTP-400B-2E**	PSB-50P

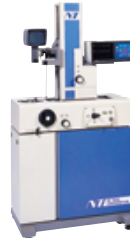| Accessories		
Code	Model	Note
4944 10000018	**AOTP-PRINT-BRO2**	Label printer (AC100V 50/60Hz 2.0A) ※ Sold Separately.
4944 10000019	**AOTP-PRINT-BRO3**	Label printer (AC100-240V 50/60Hz 1.5A) ※ Sold Separately.
4944 10000020	**AOTP-PRINT-BRO2-LA**	Labels for printer ※ Sold Separately.
4944 10000013	**AOTP-DUST-C**	Cleaning putty ※ Included with SOTP.

Presetter Series

Contactless Optical Tool Presetter

Eagle (AOTP·A type)
● Spindle Rotation : Automatic
● Measurement Range (X-Axis) : 0~ø400mm
● Measurement Range (Z-Axis) : 0~500mm

Contact / Projection Tool Presetters

NTP-400
● Column Movement Method   : Lever (Auto)
● Measurement Range (X-Axis) : 0~ø400mm
● Measurement Range (Z-Axis) : 50~500mm

NTP-300A
● Column Movement Method   : Handle (Manual)
● Measurement Range (X-Axis) : 0~ø300mm
● Measurement Range (Z-Axis) : 50~500mm

Touch The Future
NT TOOL

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WORLDWIDE NETWORK