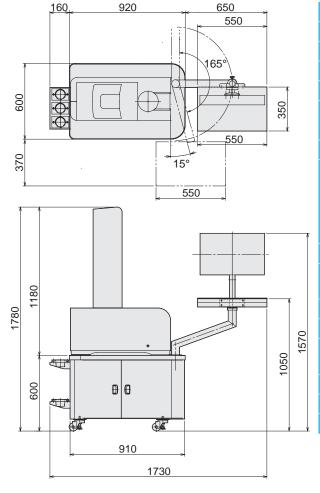


Contactless Tool Presetter



Specification of AOTP						
Codo	Model	Retention Stud				
Code	iviodei	ВТ	CAT			
4940 00050011	AOTP-500-1A	PSB-7, PSB-8, PSB-14 PSB-19, PSB-7-OH PSB-8-OH	_			
4940 00050012	AOTP-500-1B	PSB-20	_			
4940 00050013	AOTP-500-1C	PSB-17				
4940 00050024	AOTP-500-2D	PSB-24	PSC50-1			
4940 00050025	AOTP-500-2E	PSB-50P	_			

- 1. Please select a model based on the retention stud type.
- 2. Retention stud not shown in the above chart can be also used. Please contact NT Tool Corporation for details.



External dimensions	1730mm x 600mm x 1780mm (DxWxH)		
Weight	280kg		
Power supply	100 ~ 240V AC, 50/60Hz		
Power consumption	300W		
Air pressure	0.4 ~ 0.6Mpa		
Measurement	X-axis ø400mm		
Measurement	Z-axis 500mm		
Minimum reading	0.001mm		
Spindle Size	BT50 (Adapters for different spindle sizes available.) 1. When using an adapter, Z-axis measurement area will be narrower due to the height of the adapter. 2. Manual spindle rotation. Motor drive can be added as an option.		
Clamp method	Mechanical clamp		
Specifications of camera	1.3 million pixel CCD monochrome		
Screen magnification ratio	30× Magnification		
Display size	23.6"		
Cutting edge measurement range	9.0 x 6.5mm		
Menu manipulation method	Touch panel, mouse, keyboard		
Language selection	English, Japanese, Korean		
Accessories	Adapter tray		

- 1. Switchable between Inch and Metric display.
- 2. Label printer is sold separately.
- 3. Specifications and design of the product are subject to change without notice.

Unit Option

	Standard	Option
Spindle rotation	Manual	Automatic (Motor driven)
Cutting edge height adjustment	_	Height adjustment handle can be added to the front.

In addition to those options, customization of software and body is possible upon request. Please contact NT TOOL for details.

Adapter (Sold Separately)

To measure tool holders other than BT50 shank size, adapters are necessary. Please contact NT TOOL for details.

For BT, CAT and SK

For UTS

For BT 30 and CAT 30
For BT40, CAT40 and SK40

Please designate the type of retention stud in use.

HSK32, HS

HSK63

HSK32, HSK40, HSK50, HSK63, HSK100

For HSK

UTS6350, UTS10080







Accessories

Label printer

Sold Separately.

Model

AOTP-PRINT-KG

Thermal printer. No need for cartridges.

Measured value can be printed.

Tool name, model, comment registered beforehand can be printed together.

Label for printer

% Sold Separately.

Model

Approx. 70 labels. Label size: 100 X 24mm

AOTP-PRINT-LA

AOTI -I KINI-LA

Cleaning putty

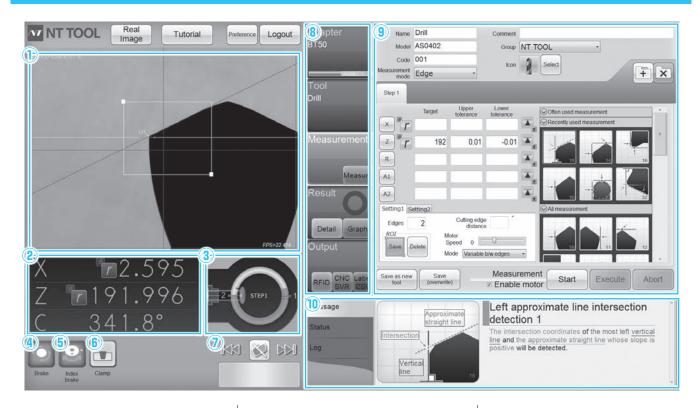
* Included with AOTP.

Model

To clean the cutting edge for accurate measurement.

AOTP-DUST-C

Basic Function



①Camera (Captured Image)

Actual field of view 9.0mm × 6.5mm 30× Magnification 35× Digital Zoom

2 Coordinates

X=Radius/Diameter, Z=Height, C=Rotational Position.

*X and Z value indicates position of the camera center when not measuring.

3 Magic Eye

Cutting edge detection

4 Break

Spindle can be stopped at any location.

(5) Index Break

Spindle can be pin-locked at 90 degrees.

6 Clamp / Unclamp

7 Spindle Control

Forward / reverse to the next / previous cutting edge.



: Free the motor.

- **®** Operation Order Tab
- 9 Operation Field
- **10**Message Field

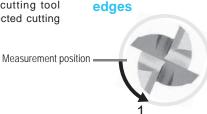
The software can be customized upon request. Please contact NT Tool Corporation.

"Magic Eye" shows the positions of cutting edges.

Target cutting edge is always clear even with endmills and facemill cutters.

Beginning of measurement

The ring turns green in accordance with cutting tool rotation. Numbers are assigned on the detected cutting edges.

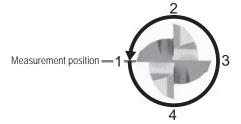


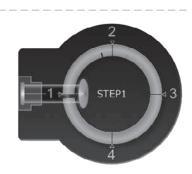
Actual cutting

Magic eye STEP1 Ring

Detection of cutting edges completed.

Shows position of cutting edges in real-time.



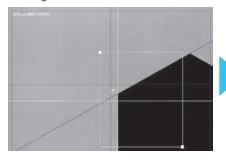


HSK-T UTS

Measurement function

Runout measurement of the cutting edge

Capture the area where you want to measure. Then, turn the spindle 360degrees.

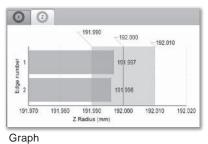


The measurement result against target value can be shown in oxalong with sound effects. The result can be also shown as a graph.



	X axis	Zaxis	Radius	Angle 1	Angle 2	C axis
Upper tol. Target Lower tol.		0.010 192.000 -0.010				
1	2.599	191.997				162.9*
2	2 595	191.996				341.8*
Δ	0.004	0.001				

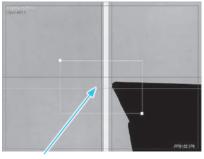
Measurement result



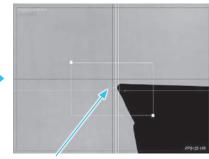
Target Bar

Easy diameter adjustment for boring bars with presetting target shown on the screen.





Presetting Target Range (Yellow color when the cutting edge is out of the range)



Presetting Target Range (Green color when the cutting edge is within the range)

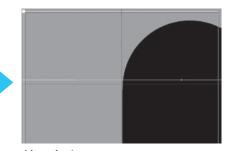
Measuring Afterimage

The cutting tool's profile is plotted by rotating the spindle 360 degrees.





Before afterimage measurement



After afterimage measurement (afterimage of rotated tool is shown.)

Measuring Step Drill

Each step can be measured separately.









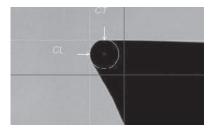
Step 2

71.2° 252.3°

Measuring Radius

Nose-radius can be measured by based on contour of cutting edge.





Real image of cutting edge

Wearing and chipping on cutting edge can be inspected.

