

| Code | Model | Retention Stud |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| 494000050011 | AOTP-500-1A | PSB-7, PSB-8, PSB-14 <br> PSB-19, PSB-7-OH <br> PSB-8-OH | - |
| 494000050012 | AOTP-500-1B | PSB-20 | - |
| 494000050013 | AOTP-500-1C | PSB-17 | - |
| 494000050024 | AOTP-500-2D | PSB-24 | PSC50-1 |
| 494000050025 | 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 | $1730 \mathrm{~mm} \times 600 \mathrm{~mm} \times 1780 \mathrm{~mm}$ ( DxWxH ) |
| :---: | :---: |
| Weight | 280kg |
| Power supply | 100 ~ 240V AC, $50 / 60 \mathrm{~Hz}$ |
| Power consumption | 300W |
| Air pressure | $0.4 \sim 0.6 \mathrm{Mpa}$ |
| Measurement | X-axis $\varnothing 400 \mathrm{~mm}$ <br> Z-axis 500 mm |
| Minimum reading | 0.001 mm |
| Spindle Size | BT50 (Adapters for different spindle sizes available.) <br> 1. When using an adapter, Z-axis measurement area will be narrower due to the height of the adapter. <br> 2. Manual spindle rotation. <br> Motor drive can be added as an option. |
| Clamp method | Mechanical clamp |
| Specifications of camera | 1.3 million pixel CCD monochrome |
| Screen magnification ratio | $30 \times$ Magnification |
| Display size | 23.6" |
| Cutting edge measurement range | $9.0 \times 6.5 \mathrm{~mm}$ |
| 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 <br> 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 BT 30 and CAT 30
For BT40, CAT40 and SK40
※Please designate the type of retention stud in use.


For HSK
For UTS

HSK32, HSK40, HSK50, HSK63, HSK100


UTS6350, UTS10080


## Accessories

※ 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 : $100 \times 24 \mathrm{~mm}$
AOTP-PRINT-LA

Cleaning putty
※ Included with AOTP.

Model
To clean the cutting edge for accurate measurement.

## Basic Function


(1) Camera (Captured Image)

Actual field of view $9.0 \mathrm{~mm} \times 6.5 \mathrm{~mm}$ $30 \times$ Magnification
$35 \times$ Digital Zoom
(2) Coordinates

X=Radius/Diameter, Z=Height,
$\mathrm{C}=$ 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.
(8)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.

Measurement position

## Actual cutting

 edgesDetection of cutting edges completed.
Shows position of cutting edges in real-time.


## Measurement function

## Runout measurement of the cutting edge

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


## Target Bar

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

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


Measurement result


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


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


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


Graph

## Measuring Step Drill

Each step can be measured separately.


Step 1


Step 2


## Measuring Afterimage

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


## 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.


