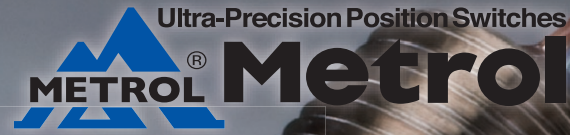


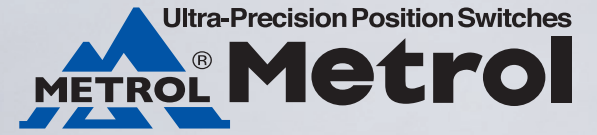
**NEW!!**



***M5 x 17mm,  
1 μm repeatability.***

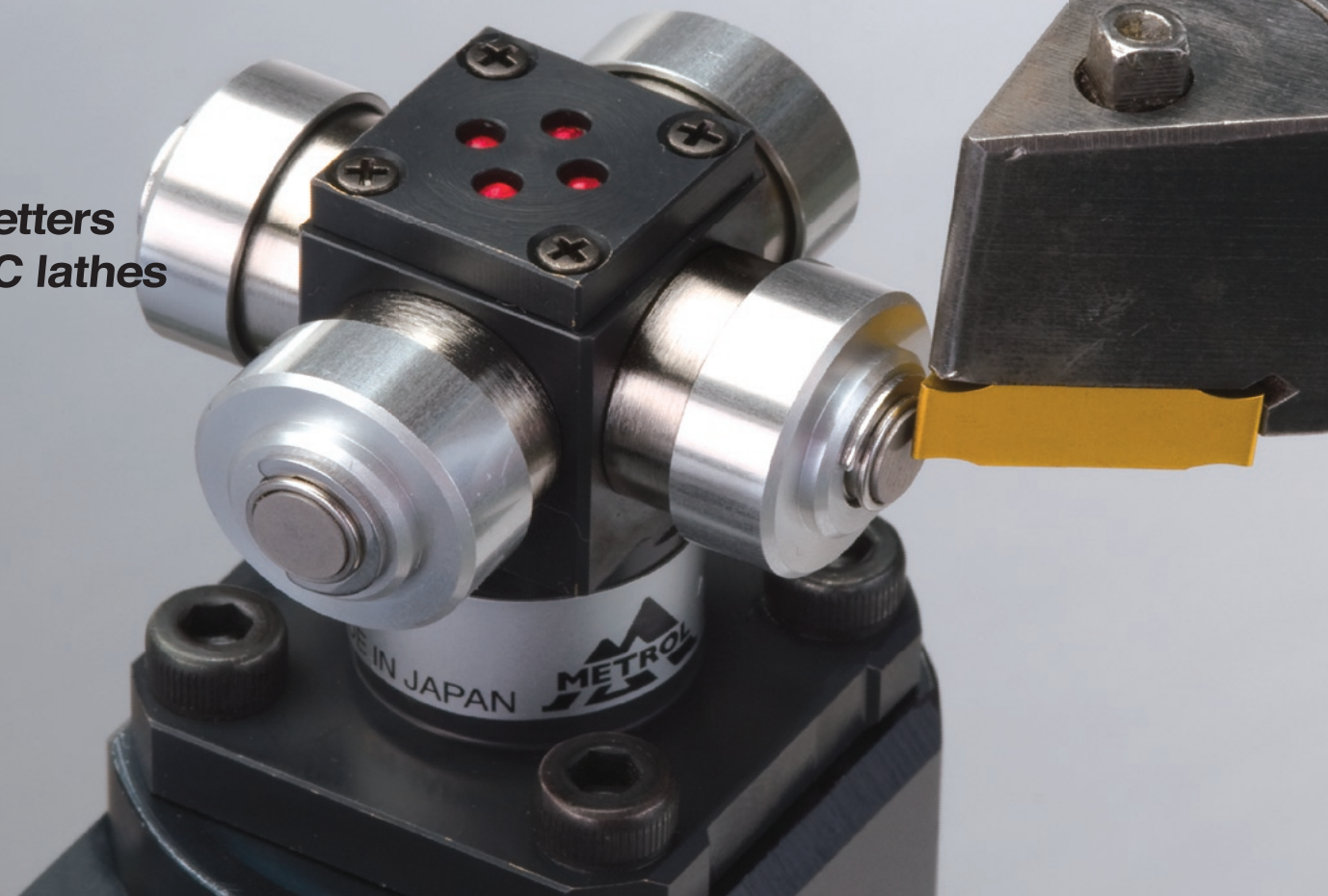
***The World's  
Smallest !!***

***Ultra-Precision  
Position Switch***



***450,000*** units installed.  
***The Best Tool Setters  
in the World !!***

**Tool Setters  
for CNC lathes**



***No.1*** in shipping quantity!!

**Tool Setters for  
CNC Machining Centers**

**Wide variation of toolsetters.**



**distributor**



**RAS Machine Tool Technologies, Inc.**  
30 Business Technology Drive  
Belchertown, Ma. 01007  
[www.rasmachinetool.com](http://www.rasmachinetool.com)

**To provide our customer's with their part's  
in a timely manner at the best price!!**

RAS Machine Tool Technologies is your one stop CNC shop. Serving Machine Tool Builders/Dealers/End Users and Service Companies. Many OEM replacement parts in stock, but if not, we will do our best to get them in a timely manner and in most cases at a lower price.

Various sources for parts available in order to meet our customer's requirements. Friendly & prompt support to locate the parts you need.

Next time give RAS a call to help you in finding those hard to find Japanese & Taiwanese Machine Tool parts.

[sales@rasmachinetool.com](mailto:sales@rasmachinetool.com) ph: (413)323-9041 / fax: (413)323-9595



## Tool setter for CNC machining centers



## No.1 in shipping quantity !!

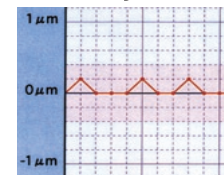
Tool Setter for CNC machining centers are used to detect the position of the cutter blades for compensation.

When the blade is pressed against the contact, high-accuracy signal is output to the CNC or PC. And the position of the blade is stored automatically.

As a result, it is no longer necessary to repeat the process of trial grinding, measurement calculation, and input to the CNC, thereby eliminating the need for expertise in tool setting while also eliminating any concern over damaging the machine due to setting errors.

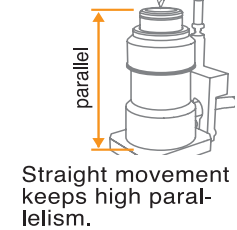
Tool wear and breakage can be detected.

0.001mm repetitive accuracy.



Absence of temperature drift.

Compatible with small diameter drills.



Exchangeable contact.



Over travel alert signal.



Repeatability	0.001mm
Pretravel	0.5
Parallelism of contact	0.005/20
Contact force	2.5N
Contact life time	3million
Contact rating	DC24V 10mA (20mA MAX)
Protective structure	IP67

## Tool setter for CNC Lathes (Tool Eye)



## 450,000 units installed !!

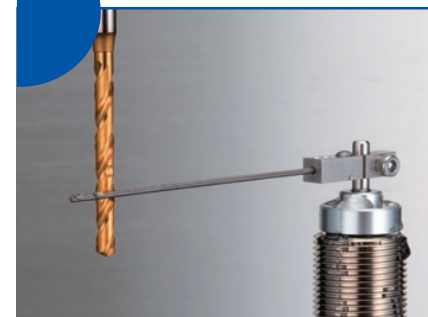
The Best Tool Setters in the World.  
In 1995, Award of the Director-General of the Science and Technology Agency.

**MAZAK**  
Standard type  
1~5 -signal  
H4A-04-00A  
H4A-08-02A  
H4A-08-07S, etc.

**OKUMA**  
Rotating contact type  
1-signal  
H4D-05-03S  
H4D-05-06S  
H4D-05-07S, etc.

Swing type  
1~4 -signal  
H4E-18-15S, etc.

## Drill Bit Breakage Detection Sensor



## The World's First !! New Control Motor-Free Type.



Outstanding resistance to overcurrent and coolant.  
These drill bit breakage detection sensors can be installed on automated and dedicated machine tools for detecting drill bit breakage by contacting a drill, tap, reamer or other tool.

## Product list



**Flat type**  
Standard model  
P11DDBP, etc.



**Cylindrical type**  
Standard model  
T24E-13-25  
T24E-13-43, etc.



**Cylindrical type**  
Large diameter contact  
T24E-39-01, etc.



**Vertical Square type**  
Standard model  
T20B-14-50  
T20B-43-02F, etc.



**Vertical Square type**  
for CNC tapping machine  
T1001-02S, etc.

## Ultra-Precision Position Switches

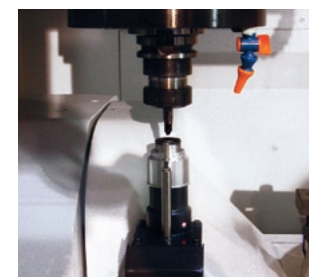
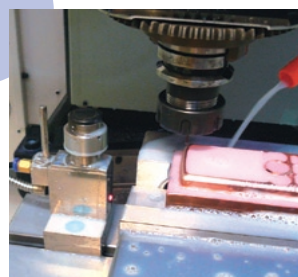


## Co-invented with TOYOTA in 1976 !!

Metrol Switch was developed as ultra-precision switches working in harsh environments such as car manufacturing lines where coolant and metal cuttings exist.

Nowadays Metrol Switches are used by many engineers that realize the cost-effectiveness it brings in various machines and automated systems.

## Applications



**NEW**  
M5x17mm,  
0.001mm  
in repetitive accuracy  
PT-Touch Switch

0.0005mm  
in repetitive accuracy  
MT-Touch Switch

M5 Compact design  
The best-seller  
switch  
CS-Touch Switch

2 tasks with  
1 device  
Stopper Bolt with  
a Built-in Switch

ø8 x 8,  
3000N Withstand load  
Stopper Mini with  
a Built-in Switch