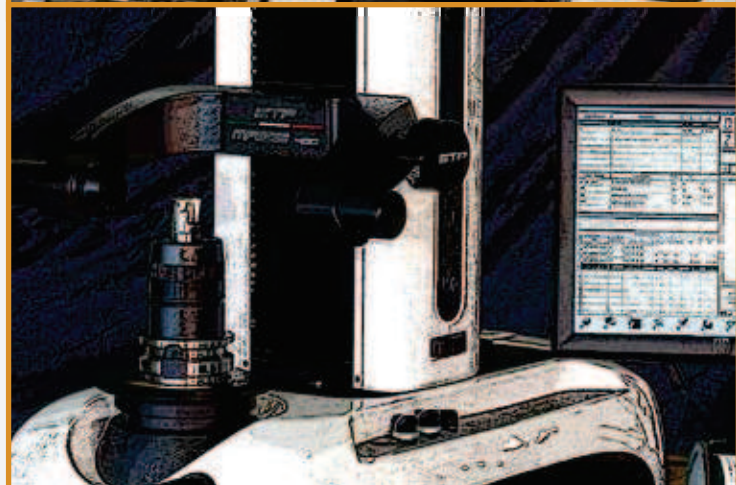


Vol. 1

# PRESETTERS

## TOOL PRESETTING & MEASURING SYSTEMS



A PRODUCT OF:

**BIG KAISER**<sup>®</sup>  
**PRECISION TOOLING INC.**  
Higher Performance. Guaranteed.

# MAXIMIZE YOUR PRODUCTION CAPACITY WITH A TOOL PRESETTER

**speroni**®  
**innotool**®  
austria

Leading manufacturers from all industries are taking advantage of the time saving, accuracy enhancing benefits of tool presetters to make their companies more competitive in today's tight market.

Presetters measure the cutting edges of your tools to assure they precisely match job specifications and are ready to be used in the machine. Adjustments that could take up to 15 minutes when made on your machine can be made offline in less than a minute on a presetter, while your machine continues cutting.

The result — better parts, longer tool life, and less spindle downtime.



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## Speroni

Ever since the beginning in 1963, Speroni has always applied a “Precision by Design” motto in all its work; each and every product that leaves the factory incorporates this philosophy. The development of the Speroni product is based on the fact that the systems are means of production and as a result they have to produce tangible economic advantages for their customers.

After more than 50 years in the development and manufacturing of tool presetting and measuring systems and of inspection robots (CMMs) for the geometrical measurement of machined parts in a shop floor environment, Speroni is convinced that they have to continue to maintain the quality and originality of their solutions guided by the needs of their customers.

The functions and solutions characteristic of the market’s demand have always been dictated by the development and the importance of the tool resource in the manufacturing environment. Speroni has always supplied solutions to the specific demands before anyone else, as documented by their long history. Today, Speroni offers a vast line of products and solutions in the fields of tool preset, measurement & management and quality inspection of the manufacturing process.

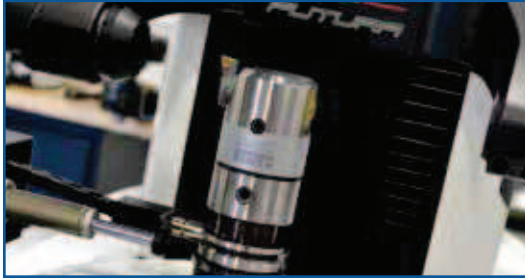
In the future, Speroni wants to continue to work in close relationship with their customers all over the world in order to understand their needs and offer them the best technical and economical solutions. Solutions made using the most advanced technologies so that more and more companies around the world can benefit from the use of our Speroni systems. Speroni continues to invest towards the early “reading” of the market’s needs in order to steer fundamental research and development activity in the direction that will keep delivering need-oriented innovations first.

## Innotool

The key competences of Innotool are the development and construction of new products. Actions needed by market changes can be taken quickly with the help of knowledgeable, flexible production. The creation and testing of prototypes, as well as low volume productions, are key ingredients of Innotool success. Assembly is another important aspect of the organization. All products will be assembled, tested and shipped from the facility in Altach, Austria. This guarantees continuous quality assurance for your precision.

- Innovative solutions for optimizing production
- High quality products at economic prices
- Development, testing, production and construction done by Innotool in Austria
- Flexible manufacturing capabilities, modern machines (YASDA, Hembrug, Mori Seiki, Enshu) and strong partners guarantee high quality machining processes
- Time savings during production thanks to zero-point clamping systems, thoughtful applications and palletized systems

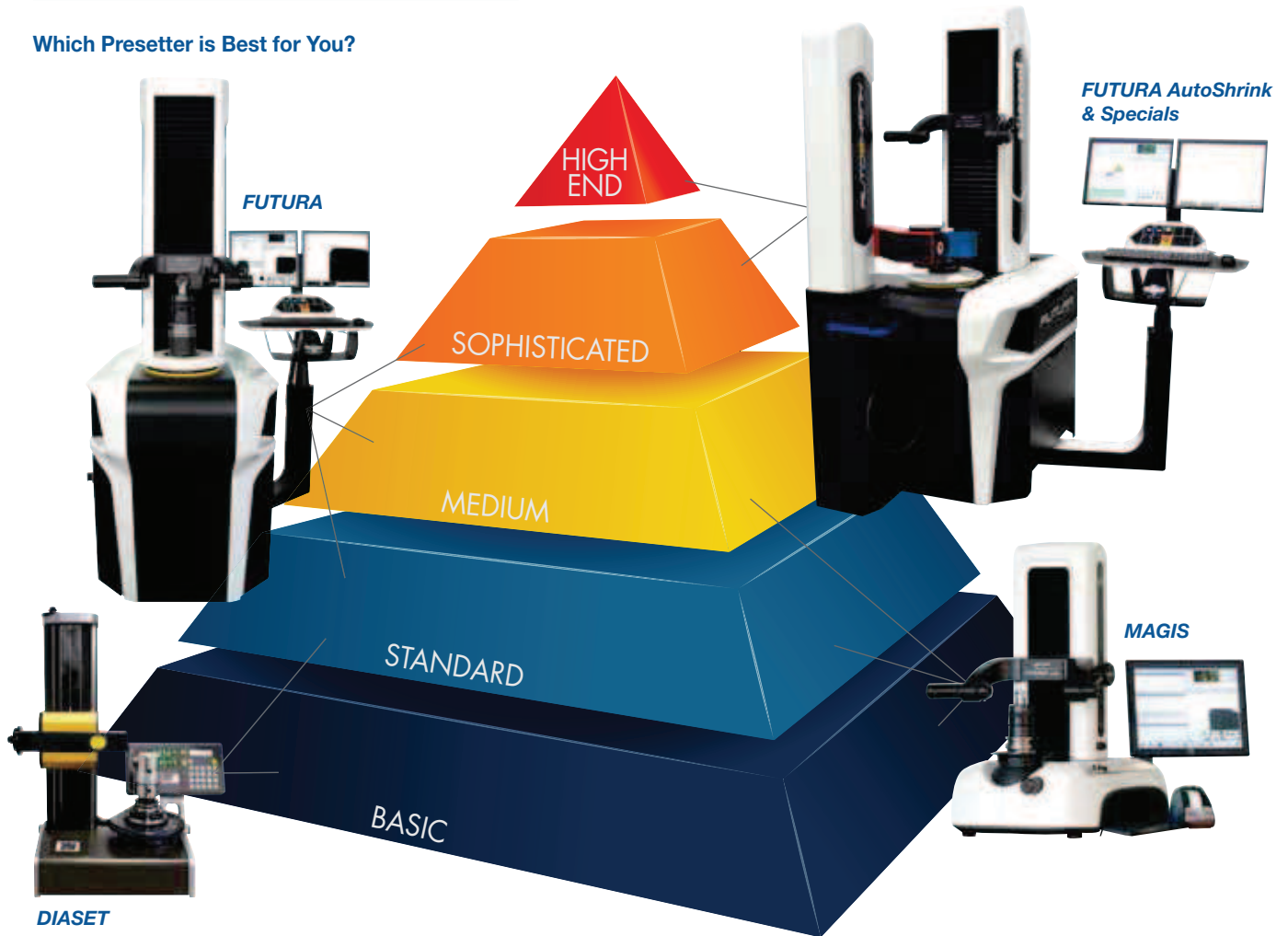




**Why Preset Tools?**

- Reduce tool cost – increase tool life
- More spindle uptime – no more measuring on your machine tool
- Precise and repeatable measurements
- First part precision – adjust tools to within tolerance and run your part
- Eliminate test cuts
- Increase operator and overall efficiency

**Which Presetter is Best for You?**



Features	DIASET	MAGIS	FUTURA	FUTURA AutoShrink
Measuring Range $\phi 6'' \times 12''$ Length	●	●	●	●
Measuring Range $\phi 12'' \times 16''$ Length	●	●	●	●
Measuring Range $\phi 12'' \times 20''$ Length	●	●	●	●
Measuring Range $\phi 12'' \times 24''$ Length	●	●	●	●
Measuring Range Greater than $\phi 16'' \times 24''$ Length			●	●
Optical Measurement Capability	●	●	●	●
Label Printing	●	●	●	●
Creating Tool Offsets for Machine Tool Control	●	●	●	●
Tool Clamping		●	●	●
RFID Capability		●	●	●
Integrated Shrink Fit System				●

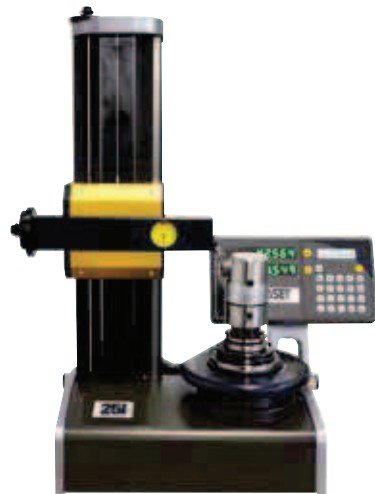


### Technology Meets Design

The DIASET provides a stable measuring column and a solid base made out of mineral cast. These features guarantee high rigidity as well as excellent temperature resistance for high repeatability and accuracy of measurements. High precision scales, solid guideways and a digital display (which includes new standard functions) are making the measuring process easier and offering maximum measuring capabilities at an affordable price. The DIASET is available with either integral ISO50 or ISO40 taper spindles and has reduction adapters available for other common interfaces (ISO, HSK, KM, Polygon, etc.)

### Features:

- High precision rotating spindle
- Maximum allowable runout: .0008" (.020mm) T.I.R.
- Fine-adjust hand-wheels (X & Z axis)
- Pneumatic locking mechanism (X & Z axis)
- Positioning accuracy of .0001" (.002mm)
- Dial indicator with digital readout
- Serial printer port



### DIASET OVERVIEW

Why DIASET? .....Pg. 8

### DIASET INDICATOR TYPE

ISO40/50 .....Pg. 9  
Options & Accessories .....Pg. 11



### DIASET CAMERA TYPE

ISO40/50 .....Pg. 10  
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# WHY DIASET?

## Innovative Solutions For Optimizing Production



### High Quality Products at Affordable Prices

- Precision scales, solid guides and a digital display — making the measuring process easier
- Stable measuring column and a solid base made out of mineral cast
- Guaranteed high rigidity as well as excellent temperature resistance for high repeatability and accuracy of measurements
- Hardened and precision ground guideways are present on the horizontal (X) and vertical (Z) slides
- A single dial indicator for ease of calibration and measurement, with a camera option now available
- A large multi-function readout, or new LCD touch screen for use with camera
- High precision rotating spindle
- Pneumatic locking mechanism (X & Z axis)
- Serial printer port

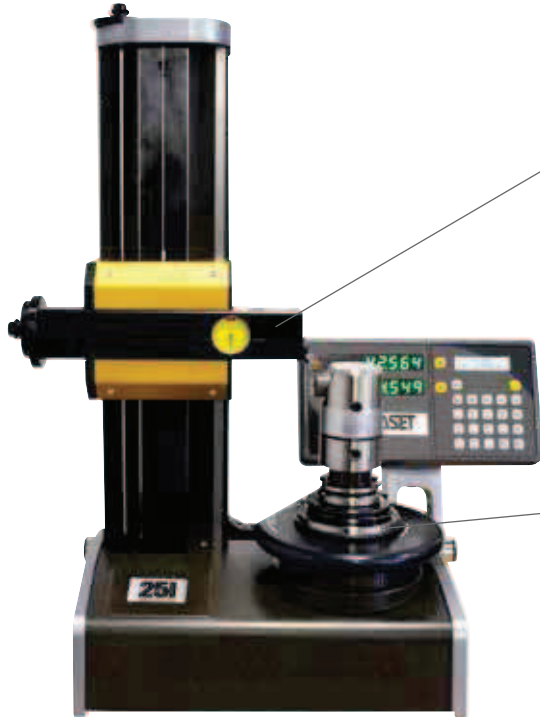


# DIASET



## 2-Axis Indicator & Display

The DIASET's 2-axis indicator has an ultra-sensitive embedded mechanic carbide touch probe to detect the slightest measuring pressures. A large, digital display unit was designed to support the newest technical requirements of today's manufacturer's. The display unit is conveniently located right behind the spindle to keep everything in a clear field of view.



Catalog Number	Description	Measurement Method	Spindle Size	Max $\varnothing$	Max Length	Positioning Accuracy	Power Requirements
31.110.200	DIASET TS 240	Indicator	ISO40	8.5 (220mm)	14.0 (360mm)	.0001 (.002mm)	110V/60Hz/.5A
31.110.201	DIASET TS 250	Indicator	ISO50		18.0 (460mm)		
31.110.202	DIASET TS 241	Indicator	ISO40		18.0 (460mm)		
31.110.203	DIASET TS 251	Indicator	ISO50	16.0 (410mm)	22.0 (560mm)		
31.110.204	DIASET TS 450	Indicator	ISO50		26.0 (660mm)		
31.110.205	DIASET TS 451	Indicator	ISO50		26.0 (660mm)		
31.110.206	DIASET TS 452	Indicator	ISO50	—	—	—	
31.110.207	DIASET TS Post Processor (Includes Monitor, Keyboard and Mouse)	—	—	—	—	—	—

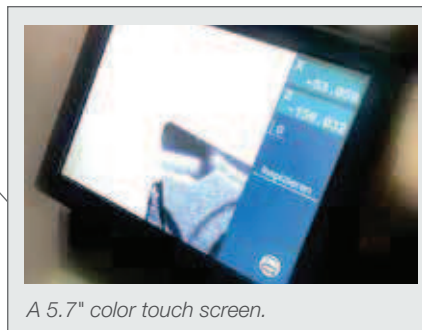
ADAPTERS PG. 46		LABEL PRINTER PG. 11	
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# DIASET CAMERA TYPE

## Camera & LCD Touch Screen Option Available



- Measures angle, radius, length and diameter geometries with one touch
- Save data externally via USB for quick input into your machine control or printing to a label
- Storage of up to 99 reference points
- Inspect cutting edges for built up edge, flank wear, or fractures using the optional incident light for live picture



Catalog Number	Description	Measurement Method	Spindle Size	Max $\phi$	Max Length	Positioning Accuracy	Power Requirements		
31.110.210	DIASET TSC 240	Camera	ISO40	7.0 (180mm)	14.0 (360mm)	.0001 (.002mm)	110V/60Hz/.5A		
31.110.211	DIASET TSC 250	Camera	ISO50		18.0 (455mm)				
31.110.212	DIASET TSC 241	Camera	ISO40		14.0 (360mm)				
31.110.213	DIASET TSC 251	Camera	ISO50					18.0 (455mm)	
31.110.214	DIASET TSC 450	Camera	ISO50	14.0 (360mm)	18.0 (455mm)			.0001 (.002mm)	110V/60Hz/.5A
31.110.215	DIASET TSC 451	Camera	ISO50		21.0 (550mm)				
31.110.216	DIASET TSC 452	Camera	ISO50		25.0 (645mm)				
31.110.217	DIASET TSC Post Processor (Includes Monitor, Keyboard and Mouse)	—	—	—	—	—	—		
31.110.218	DIASET TSC Incident Light for Live Picture	—	—	—	—	—	—		



## Workbench

Consists of a black steel cabinet with a 30x30 maple top. Comes with a hinged, lockable door that limits theft and access to valuables. The workbench is equipped with a steel shelf that is height adjustable and excellent for the storage of accessories.



Catalog Number	Description	Length	Width	Height
32.100.016	DIASET Modular Workbench	30	30	34



## Dust Cover

Place this custom vinyl cover over your tool presetter, when it is not in use, to protect your investment from dust particles and other contaminants

Catalog Number	Description
31.325.010	Dust Cover - DIASET



For Camera Type

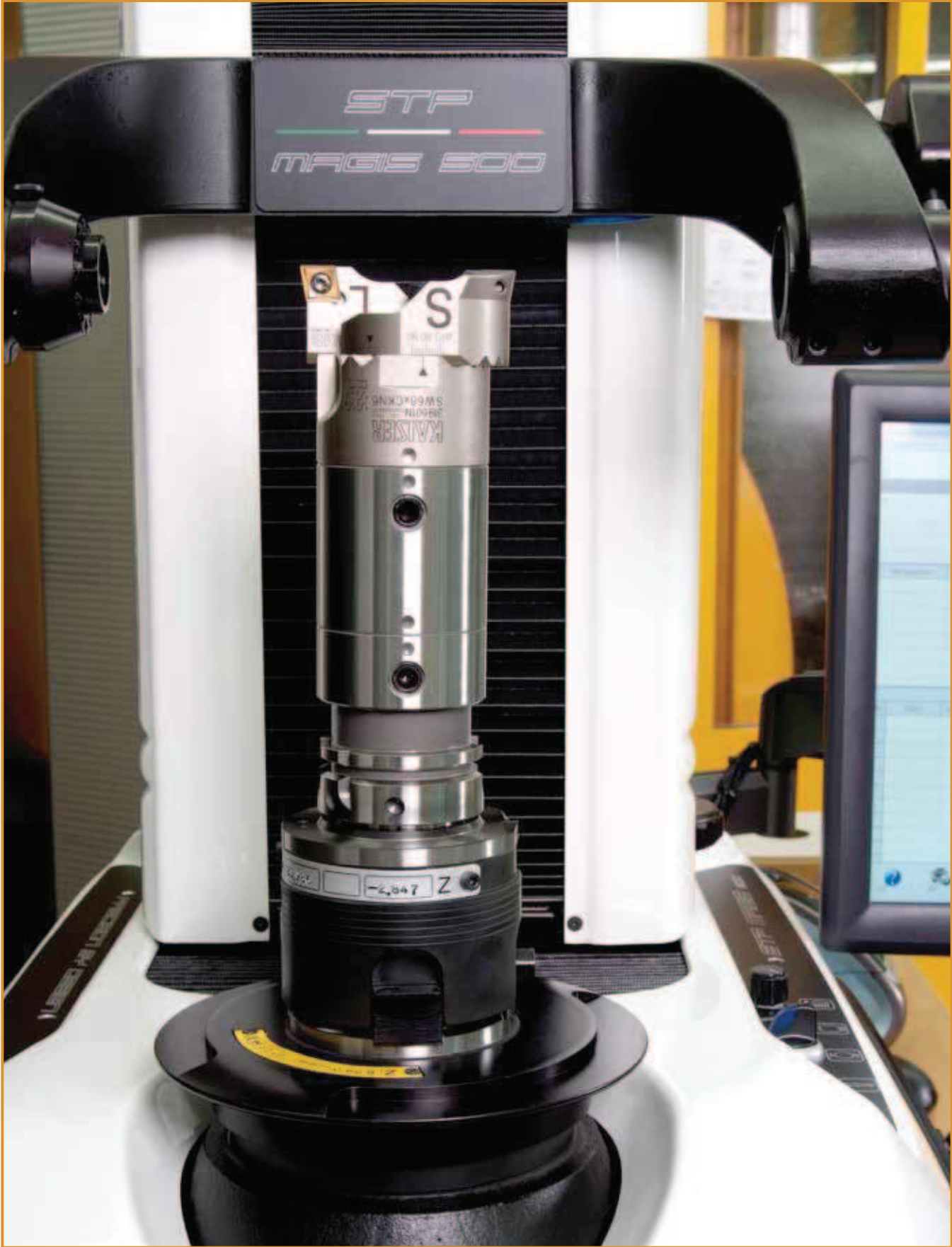


For Indicator Type

## Label Printer

For quick and error free output of tool measurements and data on an editable label. Tool diameter/length, tool holder code, offset data and tool description may be output.

Catalog Number	Description	Model Type
32.300.014	TS Dymo Label Writer - Printer	Indicator
32.300.011	TSC Dymo Label Writer - Printer	Camera



**SPERONI OVERVIEW**

Why Speroni? .....Pg. 14-15



**MAGIS**

Overview .....Pg. 17  
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MAGIS CNC .....Pg. 19  
MAGIS Options .....Pg. 20-21



**FUTURA**

Overview .....Pg. 23  
FUTURA .....Pg. 24-25  
FUTURA Options.....Pg. 28-33

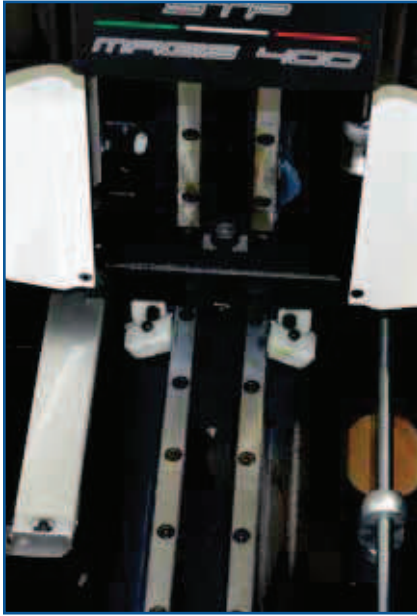


**FUTURA AUTOSHRINK**

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FUTURA AutoShrink.....Pg. 27  
FUTURA Options.....Pg. 28-33

# WHY SPERONI?

## Precision by Design – The Foundation of All Speroni Tool Presetting & Measuring Systems



**Modularity:** The modular design allows for a variety of configurations — offering customized solutions in standard products, and guaranteeing compatibility with future upgrades

**Repeatability:** The pearlitic cast iron design provides thermal stability — guaranteeing precision and repeatability, and eliminating the need for frequent recalibration

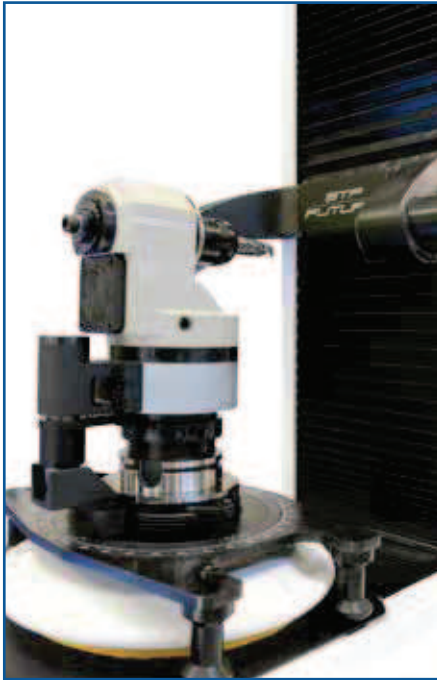
**Longevity:** Over fifty years of experience manufacturing future-proof technology through product evolution — so you can be sure your machine will never be obsolete

**Unparalleled Accuracy:** The combination of carefully selected components like the Heidenhain® scales, Schneeberger® guideways, Sony® CCD Camera, Dell® PC all function together to guarantee +/- .00008" precision



**50+**  
Est. 1963  
**YEARS OF  
PRECISION**





**Variety:** Speroni offers products and solutions in the fields of tool preset, measurement and management, and quality inspection of the manufacturing process

**All Encompassing:** Speroni is not an assembly company, it is directly involved in all phases, so choosing Speroni means no proprietary companies, which allows you to go straight to the source for future service

**Prestigious Customers:** Speroni customers speak for the products — and whether in aerospace, automotive, energy, medical, agriculture, etc., the Speroni name can be found world-wide

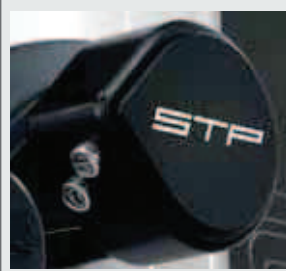






## No Better or Easier Way to Improve Your Process

The STP MAGIS generation of tool presetting and measuring systems has revolutionized the value of entry level tool measurement. The innovative MAGIS control delivers all of the needed measuring features and functions in a user-friendly, clean and trouble-free single-screen user interface with unmatched ergonomic solutions.



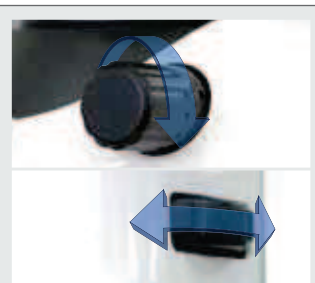
Rapid axis movement pneumatically activated. Independent and simultaneous buttons guarantee smooth and precise movement.



Front light episcopy allows for the manual inspection of the tool tip/insert detecting wear or cracks.



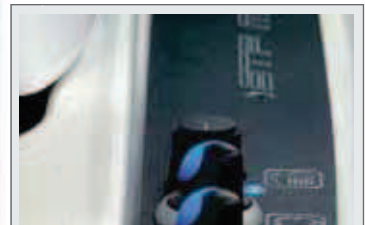
Precision ground integrated spindle with calibration edge for the fast and easy recalibration. Taper angle tolerance AT1. No need for an external caliper or master.



X & Z-axis fine adjustment hand wheels allow for micron precise smooth adjustments.



LCD monitor support arm provides for the best angle and work position to make your job easier and more comfortable.



Industrial grade controls are conveniently positioned for ease of use. The pneumatically activated spindle disk brake system allows for locking at any point in the 360° rotation.



Equipped with micron precise Heidenhain® glass scales, state of the art Schneeberger® guideways and the largest and toughest recirculating ball bearing contact face in its class. Guarantees the highest precision and repeatability along the whole system's measuring range.

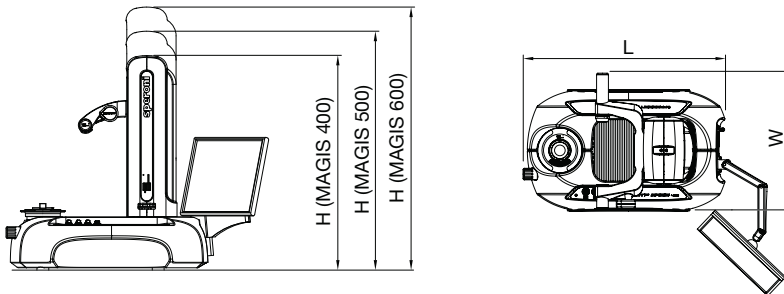
### Features:

- The structure of the MAGIS is made completely of aged pearlitic cast iron in order to guarantee the best thermal stability
- The solid design eliminates the need for frequent recalibration, guaranteeing the precision and repeatability of your system
- High frequency sub-pixel analysis delivers a 45x standard optical magnification
- Integrated high precision vertical rotating spindle for robustness, reliability and unmatched precision — T.I.R .0003" at 400mm

## The Most Intuitive and Easy to Use Vision System on the Market Today

The new SIMPLE VISION PC-based control and image processing system is supplied with a brilliant high resolution 19" monitor for a crisp and clear visualization of your tool data.

The newly designed graphical interface and a powerful online help function guarantees a trouble-free and secure experience.



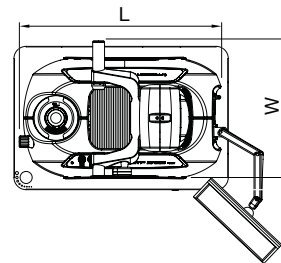
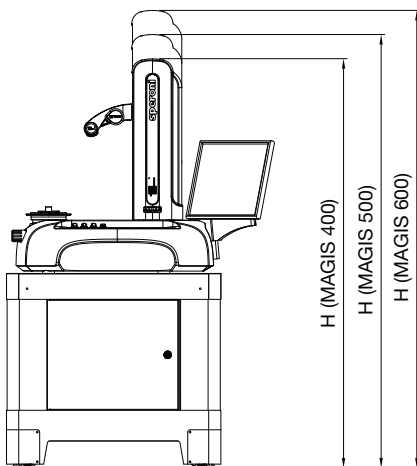
Catalog Number	Description	Z Axis Max Length	X Axis Max ø	Power*	Consumption	Pneumatic Requirements	L	W	H	Weight
32.105.040	MAGIS 400	16.0 (400mm)	16.5 (420mm)	100V (60Hz up to 5 AMPs)	1...2 cfm	70-100 psi (.05-.07 bar)	33.5 (852mm)	23.0 (583mm)	36.0 (916mm)	440 lbs (200 kg)
32.105.050	MAGIS 500	20.0 (500mm)		110V (60Hz up to 5 AMPs)			33.5 (852mm)	23.0 (583mm)	40.0 (1017mm)	505 lbs (230 kg)
32.105.060	MAGIS 600	24.0 (600mm)		220V (50Hz up to 3 AMPs)			33.5 (852mm)	23.0 (583mm)	44.0 (1119mm)	570 lbs (260 kg)

- \*Please specify power supply choice of 100V, 110V or 220V when ordering
- Standard integral spindle is ISO 50 taper, other options available
  - Standard control software is SIMPLE VISION, other upgrades available

INTEGRAL SPINDLES <b>PG. 20</b>	SOFTWARE OPTIONS <b>PG. 40</b>	ADAPTERS <b>PG. 46</b>
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**Now Available in a Computer Controlled Version for Operator Independent Measuring Results**

Speed, precision and ease of use allows for fast and precise positioning of the axes. The combination of the CNC spindle and the CNC X & Z axis control delivers a full CNC MAGIS. You can now automatically execute measuring cycles, adding speed and precision to your measurements. The unmatched repeatability and quality will further increase efficiency and profitability in your operation.



Catalog Number	Description	Z Axis Max Length	X Axis Max ø	Power*	Consumption	Pneumatic Requirements	L	W	H	Weight
32.105.041	MAGIS 400 CNC	16.0 (400mm)	-2.0+14.0 (-50mm+350mm)	100V (60Hz up to 5 AMPs)	1...2 cfm	70-100 psi (.05-.07 bar)	37.0 (940mm)	29.0 (737mm)	67.5 (1716mm)	505 lbs (230 kg)
32.105.051	MAGIS 500 CNC	20.0 (500mm)		37.0 (940mm)			29.0 (737mm)	71.5 (1817mm)	550 lbs (250 kg)	
32.105.061	MAGIS 600 CNC	24.0 (600mm)		37.0 (940mm)			29.0 (737mm)	75.5 (1919mm)	595 lbs (270 kg)	

\*Please specify power supply choice of 100V, 110V or 220V when ordering  
 • Standard integral spindle is ISO 50 taper, other options available  
 • Standard control software is EDGE 2.0, other upgrades available

<b>INTEGRAL SPINDLES</b> PG. 20	<b>SOFTWARE OPTIONS</b> PG. 40	<b>ADAPTERS</b> PG. 46
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# MAGIS OPTIONS & ACCESSORIES

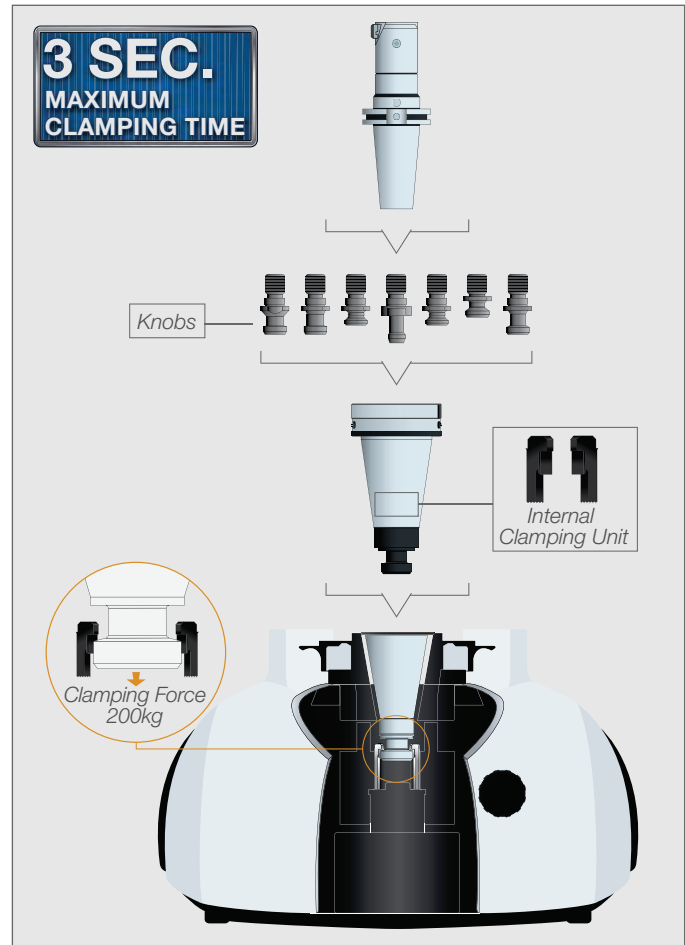
## Automatic Mechanical Clamping System

The proprietary design of this automatic system allows for a high repeatability and accuracy in the measurement of the tool. All of this is achieved without adding or removing any component on the machine. Guarantees correct unclamp and immediate release of the taper.

Catalog Number	Description
32.105.202	MAGIS ISO50 Automatic Mechanical Clamping System
32.105.203	MAGIS ISO40 Automatic Mechanical Clamping System
32.105.204	MAGIS ISO30 Automatic Mechanical Clamping System

Catalog Number	Description
32.110.037	HSK-32A/C Integral Spindle w/ Automatic Clamping
32.110.038	HSK-40A/C Integral Spindle w/ Automatic Clamping
32.110.039	HSK-50A/C Integral Spindle w/ Automatic Clamping
32.110.040	HSK-63A/C Integral Spindle w/ Automatic Clamping
32.110.041	HSK-100A/C Integral Spindle w/ Automatic Clamping

Catalog Number	Description
32.110.056	C3 Integral Spindle w/ Automatic Clamping
32.110.057	C4 Integral Spindle w/ Automatic Clamping
32.110.058	C5 Integral Spindle w/ Automatic Clamping
32.110.059	C6 Integral Spindle w/ Automatic Clamping
32.110.064	C8 Integral Spindle w/ Automatic Clamping



## 4 Position Index System

The 90° spindle indexing system enables you to fix in four precise positions. A key element for the fast and accurate preset and measurement of your lathe tooling.



Catalog Number	Description
32.105.200	4 Position Index System

### CAUTION

These systems are guaranteed for the following standard knobs: DIN 69872, ISO 7388/2A, ISO 7388/2B, MAS 403 BT, MAS 403 BT ANSI Type, ANSI 5.50 CATERPILLAR, BT (JIS 6339).

## Reduction Adapters — Automatic Integrated Clamping

This adapter will simultaneously clamp to the tool as it is clamped to the spindle. The adapter has an integrated calibration notch with calibration values etched onto the side plate.

Catalog Number	Description
32.310.100	ISO50 / ISO40 Speroni Original Reduction Adapter - A.I.C.
32.310.101	ISO50 / ISO30 Speroni Original Reduction Adapter - A.I.C.
32.310.102	ISO50 / ISO45 Speroni Original Reduction Adapter - A.I.C.
32.310.103	ISO40 / ISO30 Speroni Original Reduction Adapter - A.I.C.
32.310.110	ISO50 / HSK-40A/C Speroni Original Reduction Adapter - A.I.C
32.310.111	ISO50 / HSK-50A/C Speroni Original Reduction Adapter - A.I.C
32.310.112	ISO50 / HSK-63A/C Speroni Original Reduction Adapter - A.I.C.
32.310.114	ISO50 / HSK-80A/C Speroni Original Reduction Adapter - A.I.C.
32.310.116	ISO50 / HSK-80FM Speroni Original Reduction Adapter - A.I.C.
32.310.119	ISO50 / C3 Speroni Original Reduction Adapter - A.I.C
32.310.120	ISO50 / C4 Speroni Original Reduction Adapter - A.I.C
32.310.121	ISO50 / C5 Speroni Original Reduction Adapter - A.I.C
32.310.122	ISO50 / C6 Speroni Original Reduction Adapter - A.I.C



**Automatic CNC Spindle Movement**

For the automatic research of the tool's maximum diameter. This feature provides a totally automatic determination of the tool assembly's maximum focus and greatly aids the operator in the measurement and inspection of the tool assembly. A powerful disk brake system locks the spindle at any point in the 360° rotation.

**CAUTION** ⚠

You do not need to upgrade to a CNC control to have a CNC/Autofocus spindle.

Catalog Number	Description
32.105.101	Automatic (CNC) Axis - Autofocus

- The spindle axis can also be rotated manually



**Workbench**

Consisting of a black steel cabinet and 30x60 maple top work area. The closed workbench comes complete with PC storage shelf, one lower shelf excellent for accessories storage and a hinged lockable door that limits theft and access to valuables. This area is ventilated for optimal PC performance.

Catalog Number	Description	Length	Width	Height
32.100.015	Modular Workbench - MAGIS	60	30	34



*Holders for Reduction Sleeves & Accessories*

**Speroni Original Workbench**

Prevent dirt and debris from corrupting your presetter PC with this enclosed and ventilated workbench. Complete with storage area and lockable door to prevent any tampering. The Speroni designed black and white steel workbench provides enough working area for all presetting requirements. Reduction pockets can be purchased separately depending on tapers needed.

Catalog Number	Description	Length	Width	Height
32.105.175	Speroni Original Workbench - MAGIS	37	29	31



**Dust Cover**

Protect your investment with a custom vinyl cover. Place over the tool presetter while not in use, to protect it from dust particles and other contaminants.

Catalog Number	Description
32.100.110	Dust Cover - MAGIS



## Unparalleled Precision, Repeatability and Longevity

The all new Speroni FUTURA line is the result of over 50 years of experience in the design and production of tool measuring and presetting systems. The FUTURA product line represents the most advanced and complete line of vertical tool presetting & measuring machines in its class.



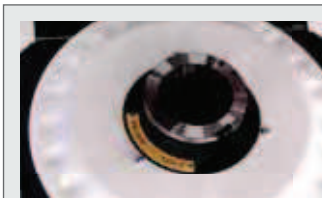
reddot award 2014 winner



One hand rapid axis movement has been designed so the operator can move the axis simultaneously or independently. Because it's pneumatically activated, this feature guarantees smooth and precise movement of the linear axis.



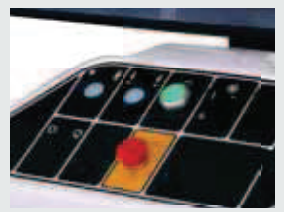
Integrated X and Z axis fine adjustment hand-wheels allow for smooth micron adjustments throughout the system's range of travel.



New high precision 50 taper vertical rotating integral spindle fully manufactured by Speroni provides the highest precision in its class (T.I.R. max 4µ at 300mm). Taper angle tolerance AT1.



Industrial grade controls for the spindle disk brake system, the 4-position index, the mechanical tool clamping and all other controls are conveniently positioned on the new cockpit system.



New integrated adapter support is conveniently located in a drawer making them readily available and protected from the environment.

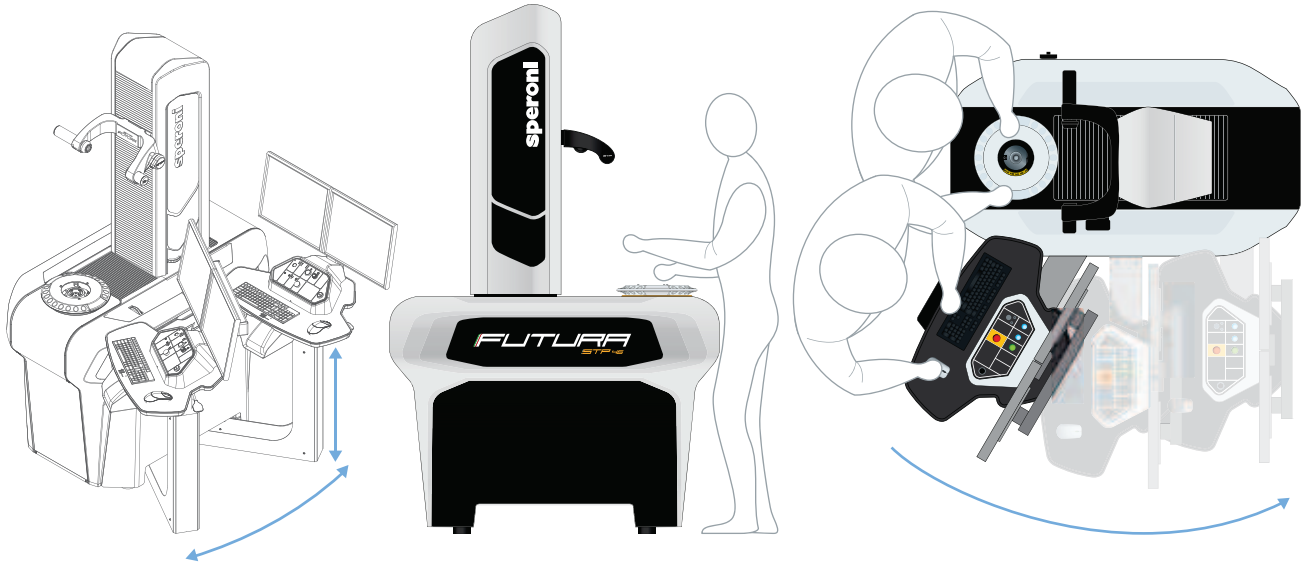
### Features:

- The structure of the FUTURA is completely made of aged pearlitic cast iron in order to guarantee the best thermal stability
- Micron precise Heidenhain® glass scales, state of the art Schneeberger® guideways and the largest and toughest recirculating ball bearing contact face in its class, guarantees the highest precision and repeatability along the whole system's measuring range
- The solid design eliminates the need for frequent recalibration, guaranteeing the precision and repeatability of your system
- High frequency sub-pixel analysis delivers a 45x standard optical magnification
- Integrated high precision vertical rotating spindle — robustness, reliability and unmatched precision — 1µ concentricity and T.I.R @ 300mm of less than 5µ

# FUTURA

## Fully Customizable Operator Working Position

As a manufacturer, it is Speroni's constant aim to push the boundaries of tool presetting & measurement. The challenges faced encompassed aspects such as safety, ease of use and design. Ergonomics is sometimes used just as a marketing slogan, but the FUTURA definitely sets the bar, becoming the benchmark in that department. While maintaining the unsurpassed open spindle design, and introducing a completely new and redesigned cockpit solution, FUTURA allows each operator to fully customize their working position.



**+/- .002mm  
GUARANTEED**



**FUTURA STP 44**



**FUTURA STP 64**

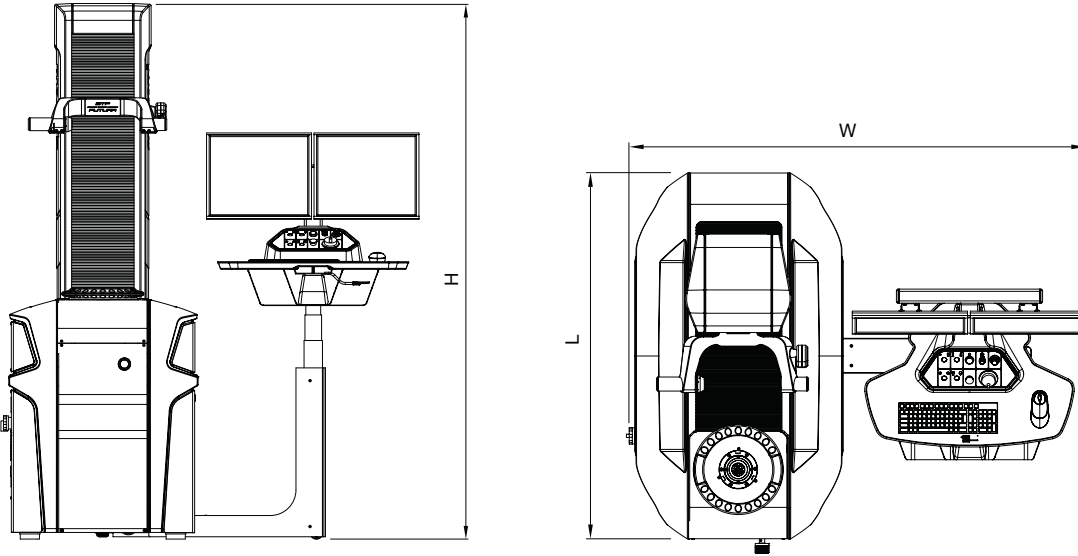


**FUTURA STP 84**



**FUTURA STP 124**





Catalog Number	Description	Z Axis Max Length	X Axis Max ø	Power*	Consumption	Pneumatic Requirements	L	W	H	Weight
32.220.000	FUTURA STP 44	16.0 (400mm)	16.0 (400mm)	100V (60Hz up to 5 AMPs)  110V (60Hz up to 5 AMPs)  220V (50Hz up to 3 AMPs)	1...2 CFM	70-100 PSI (.05-.07 bar)	51.0 (1295mm)	63.0 (1600mm)	74.0 (1880mm)	1215 lbs (550 kg)
32.220.011	FUTURA STP 46		24.0 (600mm)				51.0 (1295mm)	63.0 (1600mm)	82.0 (2082mm)	1260 lbs (570 kg)
32.220.012	FUTURA STP 48		32.0 (800mm)				51.0 (1295mm)	63.0 (1600mm)	90.0 (2286mm)	1300 lbs (590 kg)
32.220.013	FUTURA STP 64	24.0 (600mm)	16.0 (400mm)				51.0 (1295mm)	63.0 (1600mm)	74.0 (1880mm)	1300 lbs (590 kg)
32.220.014	FUTURA STP 66		24.0 (600mm)				51.0 (1295mm)	63.0 (1600mm)	82.0 (2082mm)	1345 lbs (610 kg)
32.220.015	FUTURA STP 68		32.0 (800mm)				51.0 (1295mm)	63.0 (1600mm)	90.0 (2286mm)	1390 lbs (630 kg)
32.220.016	FUTURA STP 612	48.0 (1200mm)	48.0 (1200mm)				51.0 (1295mm)	63.0 (1600mm)	106.0 (2692mm)	1435 lbs (650 kg)
32.220.017	FUTURA STP 84	32.0 (800mm)	16.0 (400mm)				53.0 (1345mm)	63.0 (1600mm)	74.0 (1880mm)	1345 lbs (610 kg)
32.220.018	FUTURA STP 86		24.0 (600mm)				53.0 (1345mm)	63.0 (1600mm)	82.0 (2082mm)	1410 lbs (640 kg)
32.220.019	FUTURA STP 88		32.0 (800mm)				53.0 (1345mm)	63.0 (1600mm)	90.0 (2286mm)	1455 lbs (660 kg)
32.220.020	FUTURA STP 812		48.0 (1200mm)				53.0 (1345mm)	63.0 (1600mm)	106.0 (2692mm)	1500 lbs (680 kg)
32.220.021	FUTURA STP 124	48.0 (1200mm)	16.0 (400mm)				61.0 (1550mm)	63.0 (1600mm)	74.0 (1880mm)	1585 lbs (720 kg)
32.220.022	FUTURA STP 126		24.0 (600mm)	61.0 (1550mm)	63.0 (1600mm)	82.0 (2082mm)	1630 lbs (740 kg)			
32.220.023	FUTURA STP 128		32.0 (800mm)	61.0 (1550mm)	63.0 (1600mm)	90.0 (2286mm)	1675 lbs (760 kg)			
32.220.024	FUTURA STP 1212		48.0 (1200mm)	61.0 (1550mm)	63.0 (1600mm)	106.0 (2692mm)	1765 lbs (800 kg)			

\*Please specify power supply choice of 100V, 110V or 220V when ordering  
 • Standard integral spindle is ISO 50 taper, other options available  
 • Standard control software is SIMPLE VISION, other upgrades available

SPINDLE OPTIONS PG. 29	SOFTWARE OPTIONS PG. 40	ADAPTERS PG. 46
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## Fully Automatic and Easy-to-Use, Preset, Measure & Shrink Fit System

Speroni was the first company to develop an integrated presetting and shrink fit system. While already considered top-of-the-line in terms of functionality, total accuracy and safety – the FUTURA AutoShrink is also the only hands-off fully automatic solution on the market.



**SAME FEATURES  
AS THE STANDARD  
FUTURA**



### Features:

- 1 micron resolution, positioning to +/- 2.5 microns, drive-pin becomes a true axis and allows for the highest level of precision
- Shrink fit any kind of tool including HSS tools ranging from ø6-32mm in diameter, additional quick-change coil is available for ø32-50mm
- Large range of diameter and taper degree in setting and cooling sleeves

Catalog Number	Description
32.220.071	AutoShrink Kit - 400mm & 600mm for FUTURA
32.220.072	AutoShrink Kit - 800mm for FUTURA
32.220.073	Automatic Fume & Gas Extractor for AutoShrink Kit

- Above catalog number is an add-on option only and must be combined with a FUTURA catalog number
- Also available as AutoTribos
- Standard control software is EDGE PRO

<b>SPINDLE OPTIONS PG. 29</b>	<b>SHRINK OPTIONS PG. 33</b>
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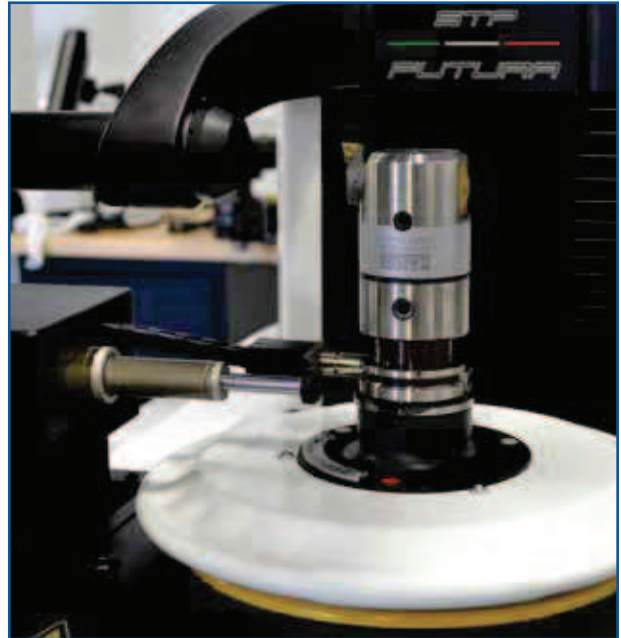
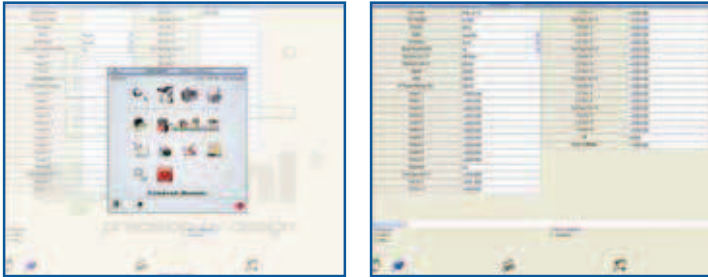
# FUTURA OPTIONS & ACCESSORIES

## Tool ID Chip

While allowing for the reading & writing of tools equipped with an ID chip, tools can be automatically recognized and the measured data can be automatically written. This software allows for the reading of the code field from the chip in order to automatically select the tool from the system database.

After the measurement/presetting of the cutting edge(s), it also allows for the writing of the actual measured data and possible nominal tool life information, as well as other data present within the Speroni.

An off-line feature allows for the complete reading and writing of the chips by typing the desired values from your keyboard. These values will automatically be checked for congruence.



Catalog Number	Description
32.220.083	Mechanical Slide for Read/Write Head - Automatic
32.220.084	Bar Code Reader - Uniscan C2R
32.220.085	Read/Write Balluff Hardware & Software Model BIS C - 650
32.220.087	Tool Identification Balluffs - Handle For Read/ Write Head

• P&F, Mazak and other systems available

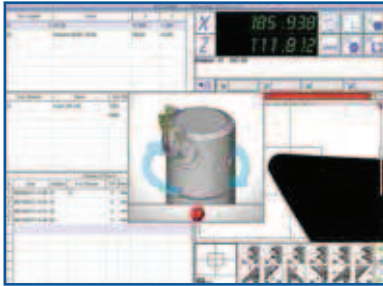
### CAUTION

Requires EDGE 2.0 Control Software.

## CNC Control Unit

Electronic micrometric movements allows for accurate and repetitive positioning of the X & Z axis. The positioning certainty of these two linear axis is 1 micron or .000039". This feature, together with the optional automatic CNC spindle movement, makes the measurement and inspection of the tool assembly completely operator independent. The mastering and recalibration of the system is a simple one step operation, which can be carried out on any of the Speroni original adapters stored in the database.





**Automatic CNC Movement**

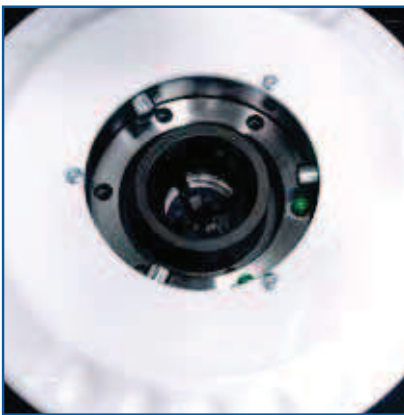
For the automatic research of the tool's maximum diameter, X & Z axes. This provides a totally automatic determination of the tool assembly's maximum focus and greatly aids the operator in the measurement and inspection of the tool assembly. A powerful disk brake system locks the spindle at any point in the 360° rotation.

Catalog Number	Description
32.105.101	Automatic (CNC) Axis - Autofocus
32.220.007	Automatic (CNC) Axis - X & Z
32.220.009	Automatic (CNC) Axis - Micrometric

**CAUTION** ⚠

You do not need to upgrade to a CNC control to have a CNC/Autofocus spindle.

• All axis can also be moved manually



**High Precision Universal Vertical Rotating Spindle**

The uniquely designed spindle construction includes the hyper static, simultaneous fit clamping system for standard and special tooling adapters. The massive construction of the Speroni universal spindle ensures that its intrinsic accuracy is maintained throughout the life of the system. The accuracy and T.I.R of the complete system is unmatched in both absolute terms and durability.

Catalog Number	Description
32.220.025	High Precision Universal Vertical Rotating Spindle

**CAUTION** ⚠

Requires at least one Speroni original adapter (adapter not included).

**Mechanical Clamping System**

The pneumatically activated universal retention knob clamping system is a proprietary design of this system and is unique in the industry. It allows for the mechanical clamping of any standard size knob applying a draw of about 300 kg (550 lbs) to ensure a high repeatability and accuracy in the measurement of the tool. All of this is achieved without adding, removing or exchanging any component on the machine. Guarantees a correct and repeatable clamp, unclamp and immediate release of tool holders.



**3 SEC.**  
MAXIMUM  
CLAMPING TIME

Catalog Number	Description
32.220.027	F-20 Tool Holder Mechanical Clamping System

**CAUTION** ⚠

Available for the new integral spindle included in this FUTURA configuration.

**Quick Change Adapter**

Manually activated system allows the change of adapters in under 8 seconds, guaranteeing unmatched precision and accuracy not only within the spindle and adapter assembly, but also along the entire Z axis travel. The locking and unlocking of the adapters is carried out by rotating the multi-function spindle hand-wheel.



**8 SEC.**  
MAXIMUM ADAPTER  
CHANGE TIME

Catalog Number	Description
32.220.026	Adapter Quick Change System

**CAUTION** ⚠

Speroni original adapter not included.

# FUTURA OPTIONS & ACCESSORIES



## ISO10 to ISO60 Adapters

The taper is supplied complete with zeroing/calibration data etched on the adapter itself.



Catalog Number	Description
32.300.110	ISO30 Taper Q/C Adapter
32.300.111	ISO35 Taper Q/C Adapter
32.300.112	ISO40 Taper Q/C Adapter
32.300.113	ISO45 Taper Q/C Adapter
32.300.114	ISO50 Taper Q/C Adapter
32.300.115	ISO20 Taper Q/C Adapter
32.300.116	ISO25 Taper Q/C Adapter
32.300.117	ISO60 Taper Q/C Adapter

*All ISO adapters are manufactured by Speroni in accordance to the following standards: ISO 7388.1, DIN 69871, ANSI B 5.50, MAS/BT 403, DIN 2080, ISO 1947/1973 (E) & Taper Angle Tolerance AT1*

## C3 to C8 Adapters

The simultaneous fit and the automatic clamping mechanism supplied with this adapter allows for a secure and repetitive measurement of your polygon tooling. The clamping is carried out automatically via the optional F-20 mechanical clamping system.



Catalog Number	Description
32.300.170	C3 Manual Clamp Quick Change Adapter
32.300.170.1	C3 Auto Clamp Quick Change Adapter
32.300.171	C4 Manual Clamp Quick Change Adapter
32.300.171.1	C4 Auto Clamp Quick Change Adapter
32.300.172	C5 Manual Clamp Quick Change Adapter
32.300.172.1	C5 Auto Clamp Quick Change Adapter
32.300.173	C6 Manual Clamp Quick Change Adapter
32.300.173.1	C6 Auto Clamp Quick Change Adapter
32.300.174	C8 Manual Clamp Quick Change Adapter
32.300.174.1	C8 Auto Clamp Quick Change Adapter

## HSK-32 to HSK-160 Adapters

The unique simultaneous fit design of the Speroni adapters deliver unmatched T.I.R. specs no matter the age of your presetting and measuring system.



*All HSK adapters are manufactured in accordance to the following standards: DIN 69893 /Type A/B/C/D/E/F*



Catalog Number	Description
32.300.212	HSK-25E Quick Change Adapter
32.300.214	HSK-32A/C Quick Change Adapter
32.300.216	HSK-32E Quick Change Adapter
32.300.218	HSK-40A/C Quick Change Adapter
32.300.219	HSK-40B/D Quick Change Adapter
32.300.220	HSK-40E Quick Change Adapter
32.300.221	HSK-40F Quick Change Adapter
32.300.222	HSK-50A/C Quick Change Adapter
32.300.223	HSK-50B/D Quick Change Adapter
32.300.224	HSK-50E Quick Change Adapter
32.300.225	HSK-50F Quick Change Adapter
32.300.226	HSK-63A/C Quick Change Adapter
32.300.227	HSK-63B/D Quick Change Adapter
32.300.228	HSK-63E Quick Change Adapter
32.300.229	HSK-63F Quick Change Adapter
32.300.230	HSK-80A/C Quick Change Adapter
32.300.231	HSK-80B/D Quick Change Adapter
32.300.232	HSK-80E Quick Change Adapter
32.300.233	HSK-80F Quick Change Adapter
32.300.234	HSK-100A/C Quick Change Adapter
32.300.235	HSK-100B/D Quick Change Adapter
32.300.236	HSK-100E Quick Change Adapter
32.300.237	HSK-100F Quick Change Adapter
32.300.238	HSK-125A/C Quick Change Adapter
32.300.239	HSK-125B/D Quick Change Adapter
32.300.240	HSK-125E Quick Change Adapter
32.300.241	HSK-125F Quick Change Adapter
32.300.242	HSK-16A/C Quick Change Adapter
32.300.243	HSK-160B/D Quick Change Adapter
32.300.244	HSK-160E Quick Change Adapter
32.300.245	HSK-160F Quick Change Adapter
32.300.246	HSK-63F/M Quick Change Adapter
32.300.247	HSK-80F/M Quick Change Adapter

## VDI16 to VDI80 Adapters

Simultaneous fit and the lateral manual clamp supplied with this adapter allows for a secure and repetitive measurement of your VDI tooling.

Catalog Number	Description
32.300.118	VDI30 Quick Change Adapter
32.300.119	VDI40 Quick Change Adapter
32.300.120	VDI50 Quick Change Adapter
32.300.121	VDI60 Quick Change Adapter
32.300.122	VDI80 Quick Change Adapter



## Pneumatic Cockpit Height Adjustment

Adjust the cockpit pneumatically to the most comfortable operating height with an adjustment range of 200mm.

Catalog Number	Description
32.220.036	Pneumatic Cockpit Height Adjustment



## Label Printer Support

Support to place the Speroni defined label printer directly on the control arm of the machine.

Catalog Number	Description
32.220.047	Label Printer Support



## Printer Shelf

Attached shelf to place the A4 printer directly at the machine.

Catalog Number	Description
32.220.048	Printer Support



**Setting Sleeves**

Available in metric and inch, setting sleeves are offered in a large range of diameters depending on the tool holder's size and tool shank size. Each sleeve is precision ground and marked for easy recognition.



**Inch**

Catalog Number	Description
<b>32.316.201</b>	Inch Shrink Fit Setting Sleeve Complete Set (9 pcs.)

*Includes the Following Sizes:*  
 3/16", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/4"

**Metric**

Catalog Number	Description
<b>32.316.000</b>	Metric Shrink Fit Setting Sleeve Complete Set (10 pcs.)

*Includes the Following Sizes:*  
 6mm, 8mm, 10mm, 12mm, 14mm, 16mm, 18mm, 20mm, 25mm, 32mm

**Cooling Sleeves**

Available in metric and inch, cooling sleeves are offered in a large range of diameters and taper degree depending on the tool holder's size and tool shank size.



**3°**

Catalog Number	Description
<b>32.316.110</b>	Complete 3° Shrinker Cooling Sleeve Set

*Includes the Following Sizes:*  
**Metric** – 5mm, 6mm, 8mm, 10mm, 12mm, 14mm, 16mm, 18mm, 20mm, 25mm  
**Inch** – 3/16", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/4"

**4.5°**

Catalog Number	Description
<b>32.316.111</b>	Complete 4.5° Shrinker Cooling Sleeve Set

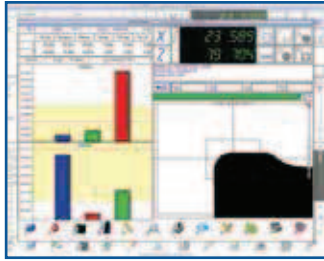
*Includes the Following Sizes:*  
**Metric** – 6mm, 8mm, 10mm, 12mm, 14mm, 16mm, 18mm, 20mm  
**Inch** – 1/4", 3/8", 1/2", 5/8", 3/4", 7/8"

**Industrial Power Transformer**

Convert your plant from 220, 440, 460 or 480 volt 3 phase power to the 400 volt 3 phase power that is required for Speroni FUTURA AutoShrink.

Catalog Number	Description
<b>32.316.900</b>	Power Transformer





**CONTROL SOFTWARE**

Overview.....Pg. 36  
Features.....Pg. 37-39



**SIMPLE VISION**

Overview.....Pg. 40



**EDGE 2.0**

Overview.....Pg. 41



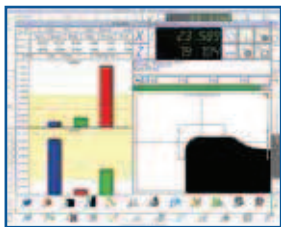
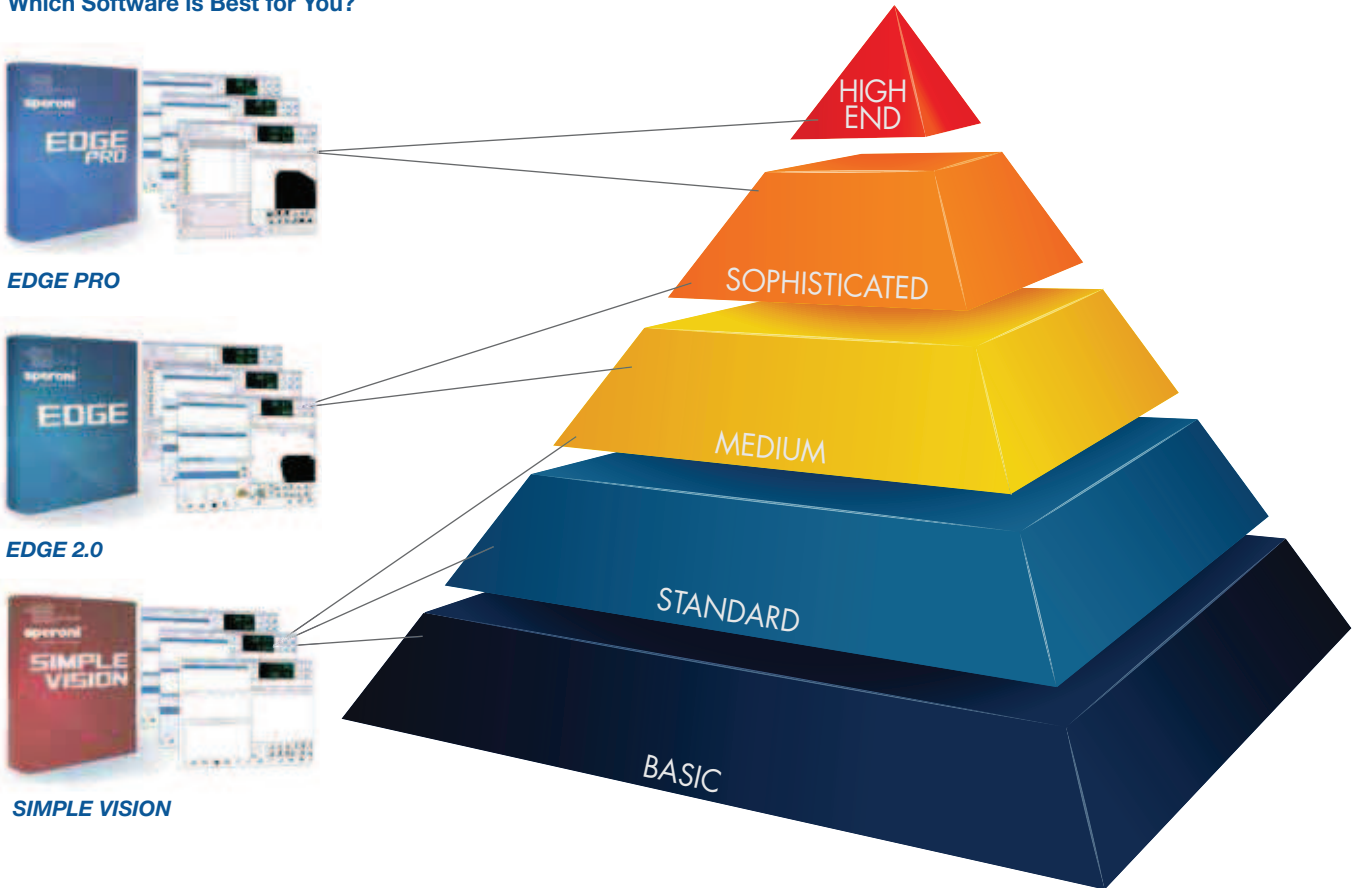
**EDGE PRO**

Overview.....Pg. 42-43

# CONTROL SOFTWARE OVERVIEW

New and innovative designs have been applied to the Speroni control and software interfaces. Our design, manufacturing and development experience is coupled with some of the most prestigious components on the world market in order to deliver unmatched reliability.

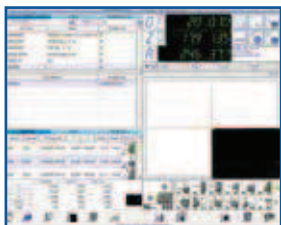
## Which Software is Best for You?



### **SIMPLE VISION Control Software**

The new SIMPLE VISION PC-based control software and image processing system is supplied with a brilliant high resolution 17" monitor for a crisp and clear visualization of your tool data.

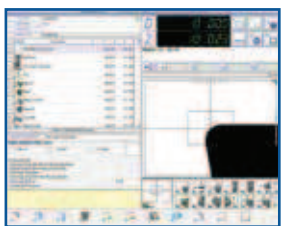
The newly designed graphical interface and a powerful online help function guarantees a trouble-free and secure experience.



### **EDGE 2.0 Control Software**

The new EDGE 2.0 control software is the complete control for tool management, user management, tool inspection and CAM interfacing.

The EDGE 2.0 system is ready to implement RFID solutions for improved tool management.



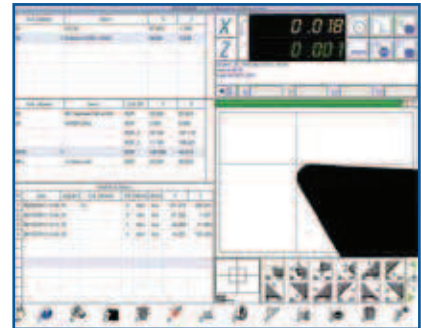
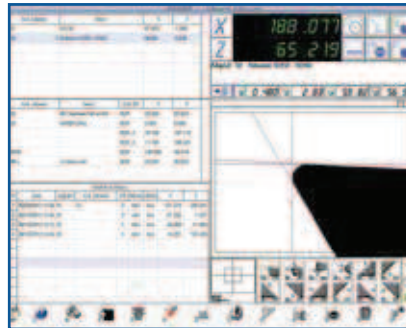
### **EDGE PRO Control Software**

The new EDGE PRO control software is the complete control for manual and full CNC systems. The powerful database allows for the cataloging of tool jobs, assemblies, zero-points and adapters, as well as single components.

Together with the CNC axis, EDGE PRO provides an easy interface for the automatic measurement of all your tools.

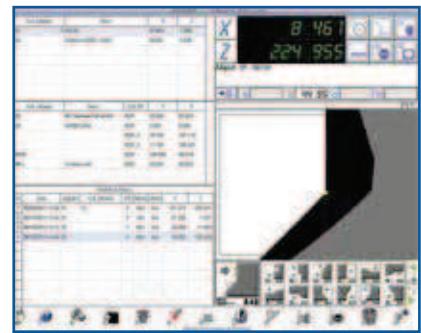
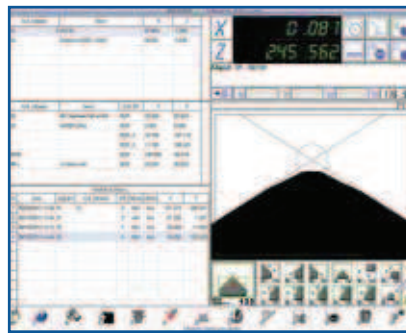
## Flying Cross-Hair

Automatic measurement of height, diameter, angles and nose radius.



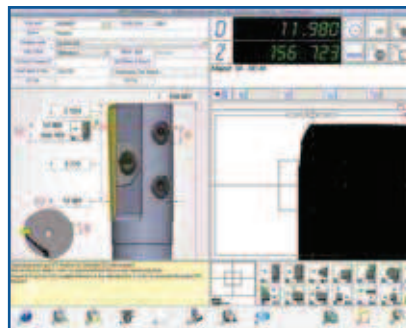
## Step Tools

Step tool measurements are easily and automatically performed.



## Reamers

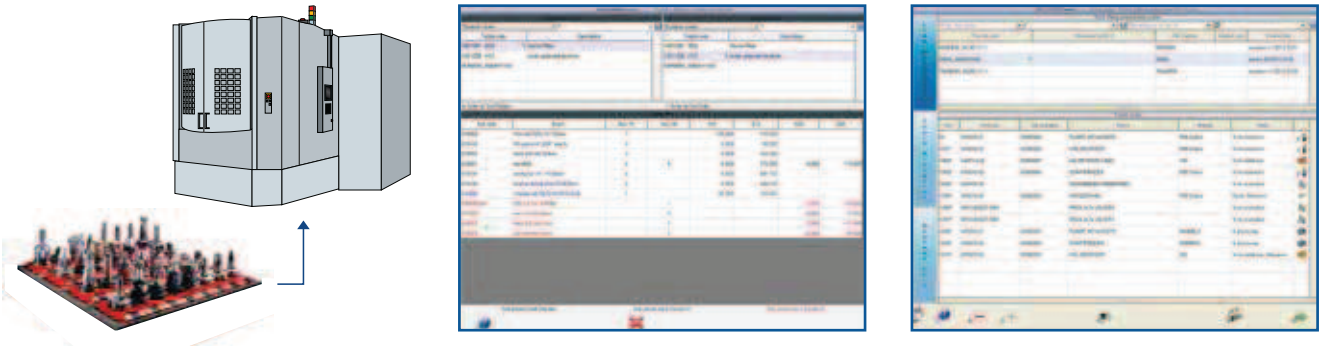
Measurement and setting of reamers without any data entry.



# SOFTWARE FEATURES

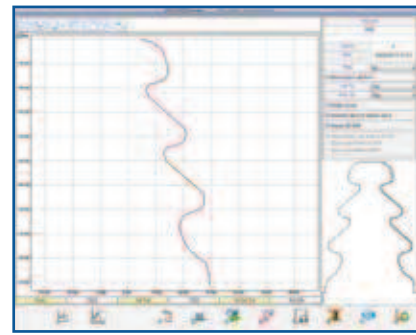
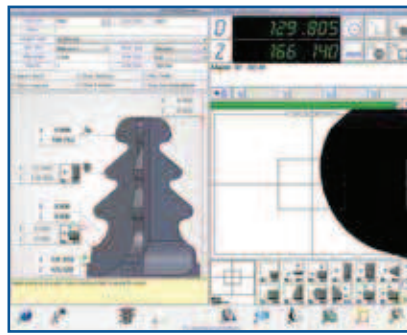
## Job Comparison & TPL

Tool preparation list module allows you to easily and seamlessly prepare your tools for the next job.



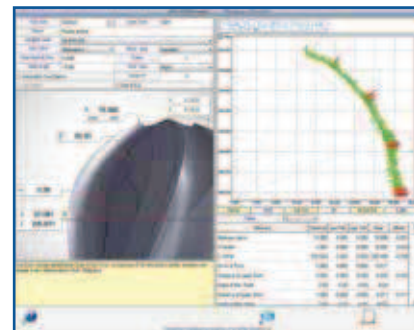
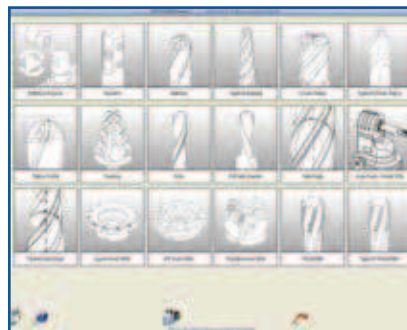
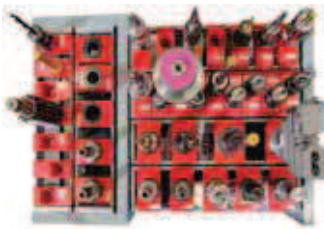
## Scanning Function

Measuring program for the measurement and scan of any tool contour.



## Families Measuring Programs

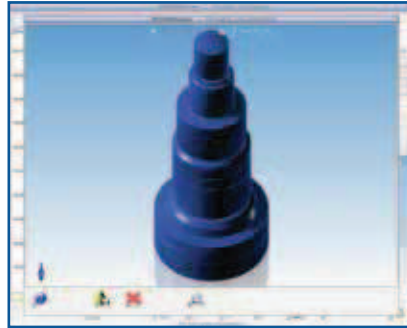
Measuring and presetting of tools without data entry.



## SOFTWARE FEATURES

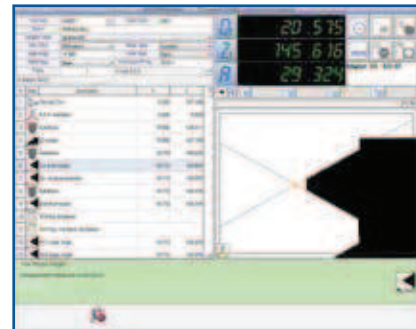
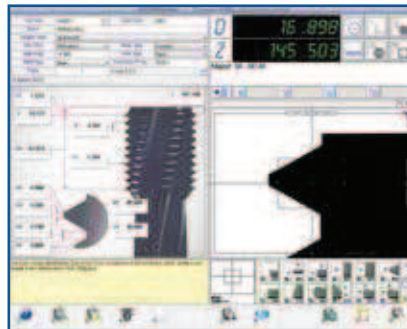
### 3D Reconstruction and Measurement

Automatic 3D generation and dimensioning of acquired features.



### Thread Mills

Easy programming and accurate measurement of pitch length, pitch diameter, etc.



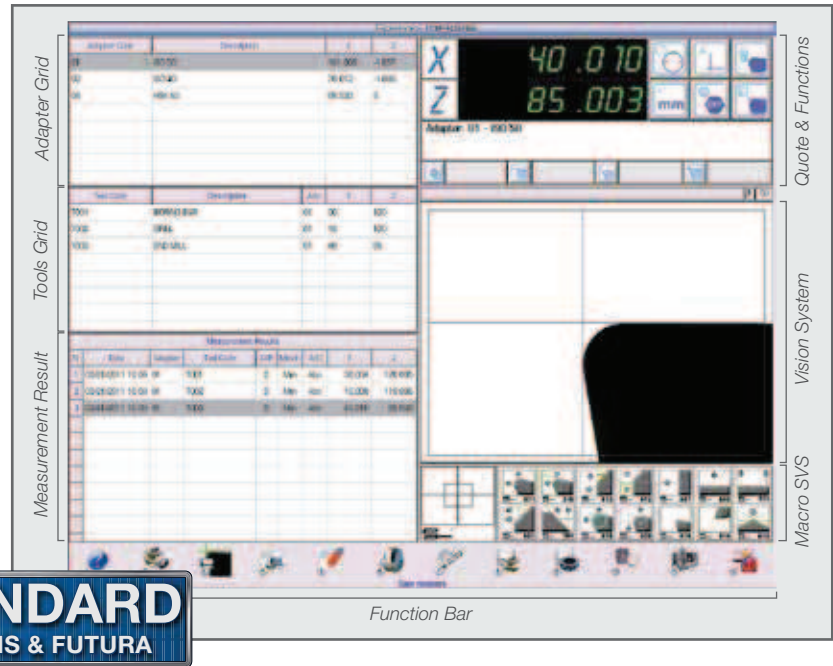
# SIMPLE VISION CONTROL SOFTWARE

## SIMPLE VISION Control Software

This newly designed interface is the standard software offered with a Speroni tool presetter.

### Features:

- Single window graphical interface
- Flying cross-hair
- 45x standard magnification
- Over 150 measuring icons
- Tool management for 1,000 tools
- Adapter & zero-point management
- Print management
- Dial indicator and runout functions
- MaxP function
- Full screen function and zoom to 120x
- Base post processor
- Data backup function
- Optional auto-focus function



**STANDARD  
FOR MAGIS & FUTURA**



### Tool & Adapter Management

Integrated tool management for the storage of 1,000 tool assemblies and their specific tolerances. Adapter management and control includes an automatic zero-point monitoring feature which helps avoid crashes, rejects and machine downtime.



### Autofocus Spindle

Autofocus spindle can be added in order to automate the important determination of the maximum diameter as well as the execution of the run out function. The cutting edge's highest point is automatically measured independent of the operator and without any programming.



### Runout Function

Automatic runout feature is the easiest and fastest way to determine your tool's runout without any specific programming.

- Standard control software for MAGIS and FUTURA is SIMPLE VISION, other upgrades available



The new EDGE 2.0 PC based control and image processing system is the complete control for tool management, user management, tool inspection and CAM interfacing. Rapid and always up to date traceability of all of the operations that are being carried out on the tool presetting and measuring system.

**Features:**

- All the features of SIMPLE VISION
- Full tool management
- Pictures and graphics management
- Autofocus management
- Quick report management
- History tracking
- Automatic data backup
- Jobs management option
- Full post processor option
- User management option



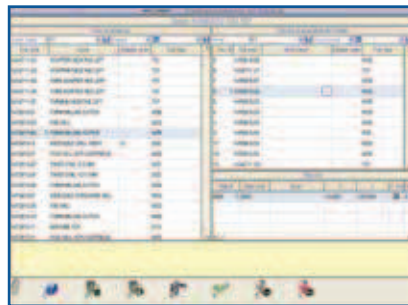
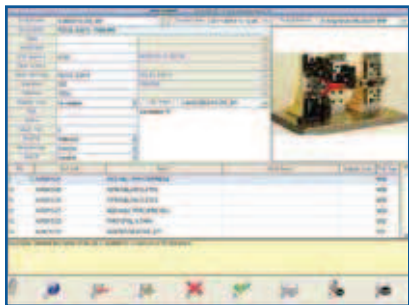
**Database and Step Programming**

Catalog and program all your tools in seconds either on line or off line via the EDGE 2.0 RDL system.



**Tool Jobs Management**

Easily generate group lists of specific tool assemblies needed for specific machining cycles on your machine tools.



**User Management**

Configure your system for multi-user access and different levels of use. Each operator autonomously defines a specific user ID and relative password and access level.



Catalog Number	Description
32.105.102	EDGE 2.0 - MAGIS
32.220.005	EDGE 2.0 - FUTURA

- Standard control software for MAGIS CNC is EDGE 2.0, other upgrades available

# EDGE PRO CONTROL SOFTWARE

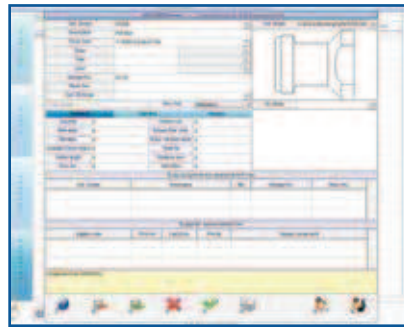
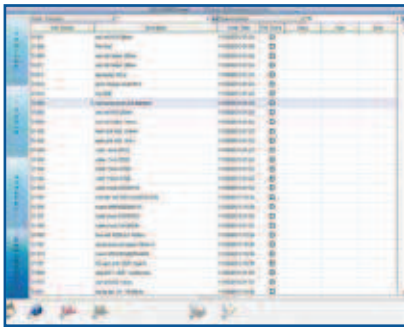
The new EDGE PRO PC-based control and image processing system is the complete control for manual and CNC configurations.

## Features:

- All features of EDGE 2.0
- User management
- Jobs management
- Components management
- Manual & full CNC management
- Automatic measuring cycles
- Dedicated measurement cycles
- Interface to external TMS
- Interface to CAM systems
- Shrink management



The powerful database allows for the cataloging of tool jobs, tool assemblies, zero-points and adapters as well as single components.

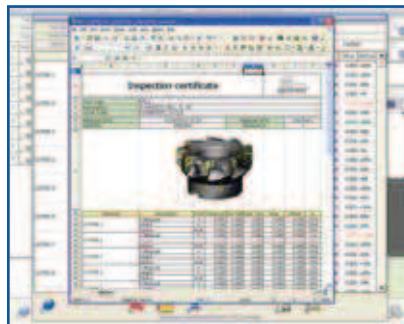
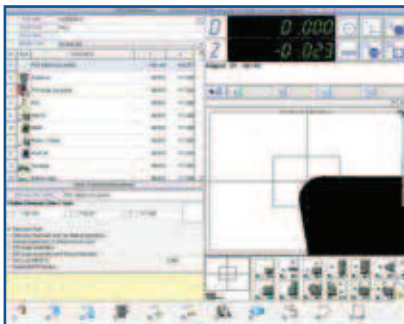


Together with the CNC axis, EDGE PRO provides an easy interface for the automatic measurement of all your tools.



## Self-Teach Programming

Powerful, flexible and extremely simple to use, the EDGE PRO self-teach programming allows you to freely program any simple or complex tool your way. The generation of a detailed and customizable inspection certificate is also a built-in feature.



Catalog Number	Description
32.105.104	EDGE PRO - MAGIS
32.220.006	EDGE PRO - FUTURA

- Standard control software for FUTURA CNC and FUTURA AutoShrink is EDGE PRO

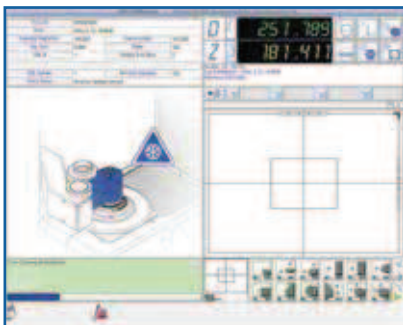
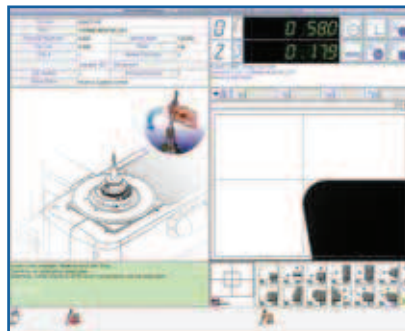
## Connectivity to RFID Systems

The EDGE 2.0 system is ready to implement RFID solutions at any time for improved tool management and data communication.



## AutoShrink Dedicated Software Module

Easy step-by-step and mistake-free dedicated software module guides the operator in the correct setting of any shrink tool assembly. Each step of the assembly and disassembly process is guided by clear graphics as well as text instructions for maximum user friendliness.

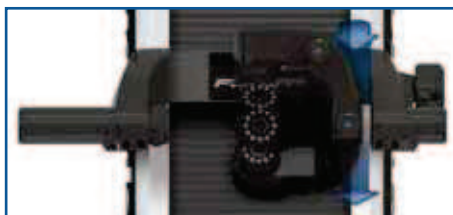






**ADAPTERS**

ISO to ISO .....Pg. 46  
 ISO to Polygon .....Pg. 47  
 ISO to HSK .....Pg. 47



**CAMERAS**

Second CCD Camera.....Pg. 48  
 Second CCD Camera with Swing Arm.....Pg. 48  
 Dedicated Optics.....Pg. 49  
 Arm Extension .....Pg. 49



**MONITORS**

19" LCD .....Pg. 50  
 Touch Screen.....Pg. 50



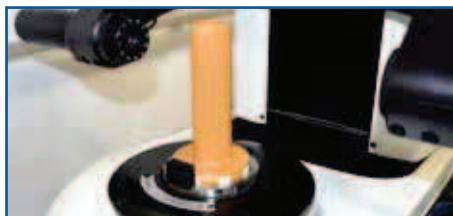
**TIME SAVERS**

Data Clip.....Pg. 50  
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**TOOL ASSEMBLY DEVICES**

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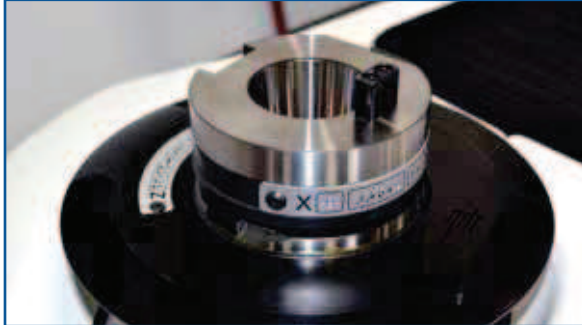
**MAINTENANCE**

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# ACCESSORIES

## Speroni ISO to ISO Adapters

Designed with a precision ground notch and calibration tag stamped with values for quick referencing. A full taper allows for more spindle contact when inserted into the Speroni's ground integral spindle. Simple drop-in design used for accurately measuring Z (length).



Catalog Number	Description
32.310.094	ISO50 / ISO25 Speroni Original Reduction Adapter Sleeve
32.310.095	ISO50 / ISO30 Speroni Original Reduction Adapter Sleeve
32.310.096	ISO50 / ISO35 Speroni Original Reduction Adapter Sleeve
32.310.097	ISO50 / ISO40 Speroni Original Reduction Adapter Sleeve
32.310.098	ISO50 / ISO45 Speroni Original Reduction Adapter Sleeve

*Precision Ground Taper Angle Tolerance AT1*

## Innotool ISO to ISO Adapters

Designed with zeroing/calibration data etched on the sleeve itself. Simple drop-in design used for accurately measuring Z (length).



Catalog Number	Description
31.330.002	ISO50 / ISO25 Innotool Reduction Adapter Sleeve
31.330.003	ISO50 / ISO30 Innotool Reduction Adapter Sleeve
31.330.004	ISO50 / ISO35 Innotool Reduction Adapter Sleeve
31.330.005	ISO50 / ISO40 Innotool Reduction Adapter Sleeve
31.330.006	ISO50 / ISO45 Innotool Reduction Adapter Sleeve

*ISO taper according to DIN 69871*



## BIG Daishowa ISO to Polygon Adapters

Designed with a rear access locking mechanism to allow for manual clamping of your polygon taper tooling. Must be actuated using an allen wrench — not supplied with adapter. Adapter must be referenced on face of adapters for accurate Z (length) readings.

Catalog Number	Description
BBT50-C5-40	BIG Daishowa Original Rear Clamping Adapter ISO50 / C5
BBT50-C6-50	BIG Daishowa Original Rear Clamping Adapter ISO50 / C6
BBT50-C8-70	BIG Daishowa Original Rear Clamping Adapter ISO50 / C8

- Allen wrench not included

**Speroni ISO to HSK Adapters**

Speroni's adapter sleeve unique design includes an integrated clamping system which delivers unmatched T.I.R specs and ensures secure and repetitive clamping of your HSK tooling. The design allows for tool holder clamping without having to remove the coolant tube. Supplied with a precision ground notch and calibration gage with stamped values for quick referencing.



*Precision Ground Taper  
Angle Tolerance AT1*



Catalog Number	Description
32.110.001	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-32A/C
32.110.001.1	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-32E
32.110.002	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-32F
32.110.003	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-40A/C
32.110.004	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-40B/D
32.110.005	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-40E
32.110.006	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-40F
32.110.007	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-50A/C
32.110.008	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-50B/D
32.110.009	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-50E
32.110.010	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-50F
32.110.011	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-63A/C
32.110.012	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-63B/D
32.110.013	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-63E
32.110.014	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-63F
32.110.019	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-100A/C
32.110.020	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-100B/D
32.110.021	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-100E
32.110.022	Speroni Original Manual Side Clamping Adapter ISO50 / HSK-100F



**BIG Daishowa ISO to HSK Adapters**

Designed with a lateral access locking mechanism to allow for manual clamping of your HSK tooling. Must be actuated using an allen wrench (not supplied). Also contains internal access hole for coolant-through HSK tooling. Adapter must be referenced on face of adapters for accurate Z (length) readings.

Catalog Number	Description
BT50-TPA/HSK32E-100	BIG Daishowa Original Side Clamping Adapter ISO50 / HSK-32E
BT50-TPA/HSK40-100	BIG Daishowa Original Side Clamping Adapter ISO50 / HSK-40A/E
BT50-TPA/HSK50-100	BIG Daishowa Original Side Clamping Adapter ISO50 / HSK-50A/E
BT50-TPA/HSK63-100	BIG Daishowa Original Side Clamping Adapter ISO50 / HSK-63A
BT50-TPA/HSK63F-100	BIG Daishowa Original Side Clamping Adapter ISO50 / HSK-63F

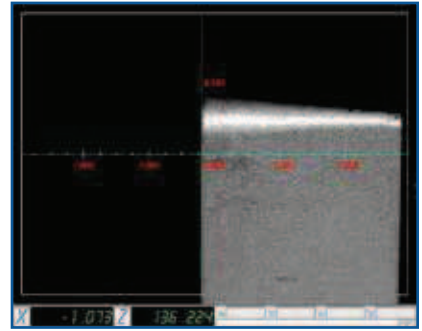
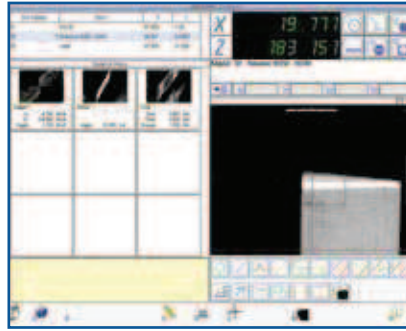
• Allen wrench not included

**Innotool ISO to HSK Adapters**

Designed with zeroing/calibration data etched on the sleeve itself. Simple drop-in design used for accurately measuring Z (length).



Catalog Number	Description
31.330.024	ISO50 / HSK-63A/C/E Adapter Sleeve
31.330.027	ISO50 / HSK-50A/C/E Adapter Sleeve
31.330.052	ISO50 / HSK-40A Adapter Sleeve
31.330.053	ISO50 / HSK-80A Adapter Sleeve
31.330.054	ISO50 / HSK-100A Adapter Sleeve



## Second CCD Camera

The fixed second CCD Camera is also equipped with a dedicated inspection light. Field of view is 6mm x 4.5mm and has a visual magnification of 45x with a zoom function of 120x magnification.

This additional camera is completely independent from the optic that comes with the S.V.S. vision system. It is used to determine the center height of lathe and turning tools, as well as for the frontal radial inspection of any tool type.

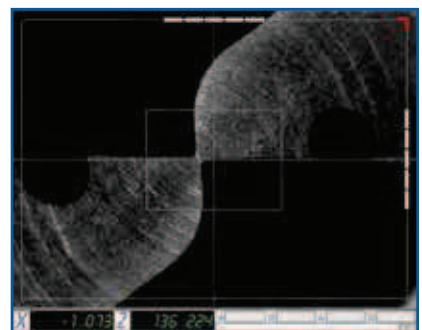
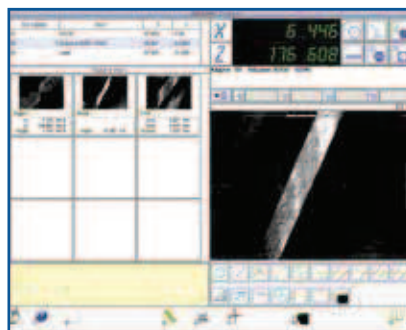
The software edge finder allows for the manual measurement of radii, angles and distances on the illuminated cutting tool surface. This analysis is displayed on the same screen surface as the S.V.S. vision system and it can easily be activated via the symbols of the vision system.

Catalog Number	Description
32.105.212	Center Height Camera - MAGIS
32.220.061	Center Height Camera - FUTURA

### CAUTION

This option requires EDGE 2.0 or EDGE PRO software module.

- The maximum space between the optic carrier is 220mm



## Second CCD Camera with Swing Arm

This option offers the same advantages and functions as above, except the camera is on a swing arm rather than being fixed.

The swing arm has two fixed positions at 0° and 90°. Between -30° and 120°, the position can be manually adjusted.

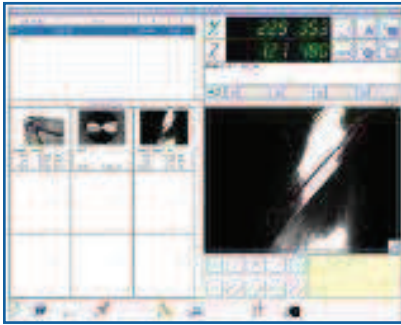
Catalog Number	Description
32.105.215	Swing Arm Camera - MAGIS
32.220.062	Swing Arm Camera - FUTURA

### CAUTION

The maximum measurable diameter at horizontal camera position is 356mm and at a vertical camera position is 240mm. This option requires EDGE 2.0 or EDGE PRO software module.

- The maximum space between the optic carrier is 220mm





**Dedicated Optics**

View micro tools with increased magnification.

Catalog Number	Description
32.299.157	Dedicated Optics, 1.5mm x 1mm
32.299.164	Dedicated Optics, 3mm x 2mm



**Arm Extension**

This extension allows for the camera system to go across the spindle center line.

**50mm**

The measuring capacity of the X axis will be reduced 100mm in diameter & 50mm in radius.

**100mm**

The measuring capacity of the X Axis will be reduced of 200mm in diameter & 100mm in radius. Tool clearance between the optic carrier will be 220mm maximum.

Catalog Number	Description
32.220.054	Arm Extension 50mm – Snap Gage Principle
32.220.055	Arm Extension 100mm – Snap Gage Principle

- The maximum space between the optic carrier is 220mm





## Second Monitor

With this option, your Speroni tool presetting machine becomes a dual monitor system and allows for a full screen image of your inspected tool.

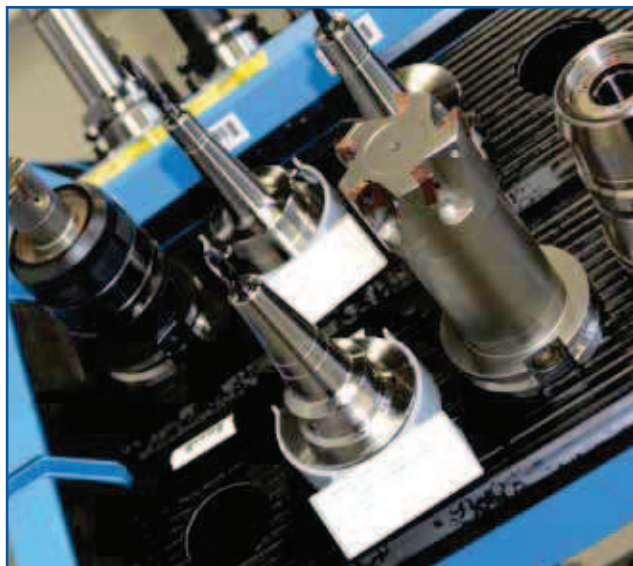
Catalog Number	Description
32.220.057	Additional LCD Monitor 19" - FUTURA



## Touch Screen

The touch screen technology upgrade allows you to easily access and operate all of the MAGIS software features without using the keyboard or mouse. This industrial grade touch screen is provided with a three year warranty directly from the manufacturer.

Catalog Number	Description
32.105.106	Touch Screen Monitor 17" - MAGIS
32.220.056	Touch Screen Monitor 19" - FUTURA



## Data Clip

Secures around the flange for easy labeling of tools.

Catalog Number	Description
32.300.010.3	Data Clip - 30 Taper
32.300.010.4	Data Clip - 40 Taper, HSK-63, C6, KM63
32.300.010.5	Data Clip - 50 Taper
32.300.010.1	Data Clip Labels - 1" x 2 1/8" (500 Per Roll)



**Cleaning Putty**

Keep your measurements accurate by wiping away dust particles, oil or coolant from your tools. One package includes 6 units of cleaning putty.



Catalog Number	Description
32.400.049	Tool Cleaning Putty – 2oz.



**Label Printer**

Allows the printing of text labels and bar code labels (for PC based controls).

Catalog Number	Description
32.300.011	Thermal Alphanumeric Label Printer - MAGIS
32.220.042	Thermal Alphanumeric Label Printer - FUTURA



**Laser Printer**

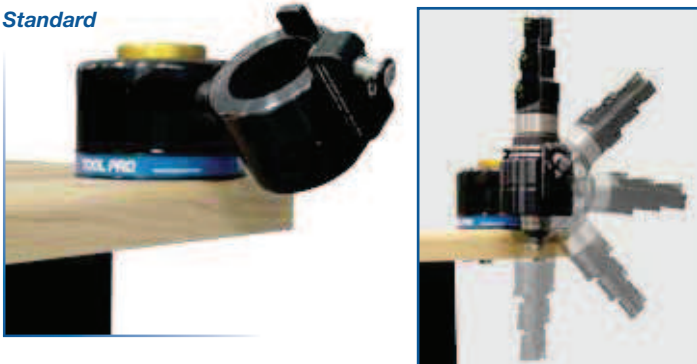
For printing black & white laser-quality lists and inspection certificates.

Catalog Number	Description
32.220.043	Laser Printer A4

**Tool Pro**

The Tool Pro is a unique tool holding device for the assembly and disassembly of tapered V-flange tooling and modular tooling systems. Depressing the large gold button permits the adapter to rotate 360° and lock in 45° increments, allowing convenient access for all operations. Tightening torque for tool clamping can be applied in a downward motion, rather than horizontally, allowing the it to be installed on tool carts. Tools are simply lowered into the tool pot and automatically clamped into place with a spring loaded pin that locates into the V-groove of the tool holder. With the Tool Pro, you reduce damage to your expensive tool holders, shanks and machine spindles while providing a safe working environment for your tool assembly operators – advantages which pay off very quickly!

**Standard**



**Steep Taper**

Taper Size	Catalog Number
30	31.300.001
35	31.300.000
40	31.300.002
45	31.300.003
50	31.300.004
60	31.300.020

**HSK Taper**

Taper Size	Catalog Number
32A	31.300.017
40A	31.300.015
50A	31.300.008
63A	31.300.006
100A	31.300.005
125A	31.300.029

• HSK Type E/F, VDI and Polygon taper also available

**Vario**



Quick-change system uses one permanently mounted base unit and multiple adapters for different types and sizes of tool shanks.

**Steep Taper**

Taper Size	Catalog Number
30	31.300.110
35	31.300.111
40	31.300.112
45	31.300.113
50	31.300.114

**HSK Taper**

Taper Size	Catalog Number
32A	31.300.130
40A	31.300.131
50A	31.300.132
63A	31.300.133
80A	31.300.134
100A	31.300.135

**Polygon Taper**

Taper Size	Catalog Number
C3	31.300.153
C4	31.300.154
C5	31.300.155
C6	31.300.156
C8	31.300.158

- Base unit must be ordered separately (Catalog Number 31.300.100)
- HSK Type E/F and VDI also available
- Vario Spin adapters also available

**Spin**



Full 360° radial tool rotation, while clamped, permits easy access to large diameter tools making it ideal for changing inserts on large face mills without removing the tool from the drive keys. Tools can be locked at increments of 30° by engaging an index pin. The adapter can also be rotated 360° and locked into any position in increments of 45°.

**Steep Taper**

Taper Size	Catalog Number
40	31.300.202
50	31.300.204
60	31.300.206

**HSK Taper**

Taper Size	Catalog Number
63A	31.300.214
100A	31.300.216
125A	31.300.217

• Polygon taper also available



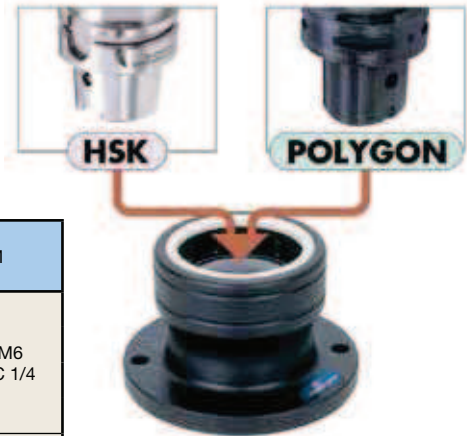
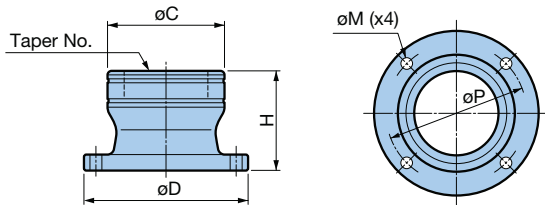
**Tool Pro Stand**

Safe and secure tool assembly stationed anywhere that's convenient on your shop floor.

Catalog Number 31.300.500

## Kombi Grip

Innovative two way clutch and needle roller clamping system assures secure clamping at the tool flange periphery. Safe design eliminates any possibility of damage to the shank taper during the tightening process.



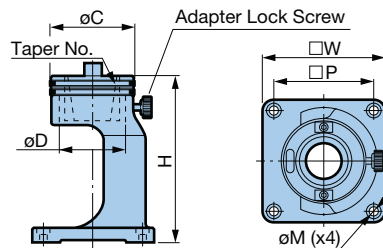
Catalog Number	HSK No. (Form A/E/F)	Polygon Taper No.	øC	øD	H	øP	øM
KG25R	25	—	1.890	3.110	2.559	2.441	.276 M6 or UNC 1/4
KG32R	32	C3	2.165	3.346		2.717	
KG40R	40	C4	2.480	3.661	2.756	3.031	
KG50R	50	C5	2.953	4.134		3.504	
KG63R	63	C6	3.465	4.862	2.953	4.154	.354 M8 or UNC 5/16
KG80R	80	C8	4.213	5.591	3.543	4.882	
KG100R	100	—	5.000	6.378	3.937	5.669	

**CAUTION** ⚠

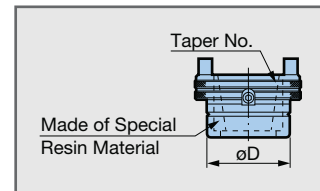
Kombi Grip must be securely fixed to a bench with 4 mounting bolts.

• Mounting bolts (4 pcs.) must be ordered separately

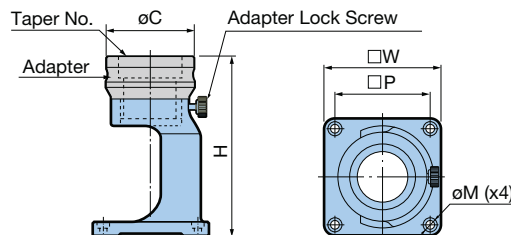
## Tooling Mate



### Replaceable Adapter



Catalog Number	CV/BT No.	øC	øD	H	øW	øP	øM	Adapter Model
TMS40-30	30	2.992	2.362	5.906	4.331	3.543	.276 M6	TMA40-30
TMS40-40	40							TMA40-40
TMS50-40	40	4.134	3.465	7.480	6.299	5.118	.354 M8	TMA50-40
TMS50-50	50							TMA40-50

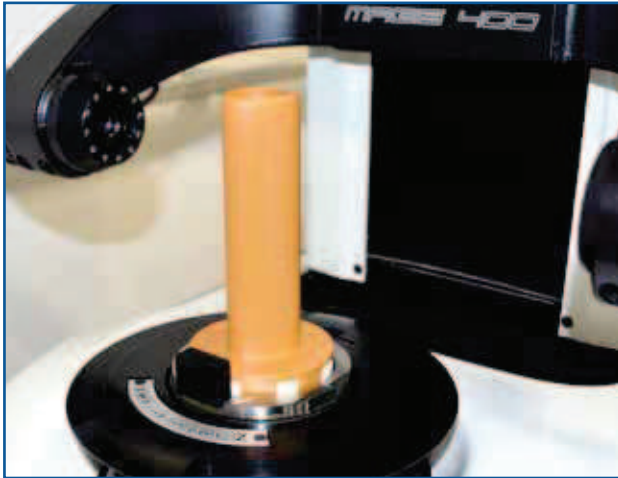


- 1 adapter is included
- Adapters can be ordered individually
- Adapter Lock Screw is available as a spare part (Model: RTM0615)
- Mounting bolts (4 pcs.) must be ordered separately

**CAUTION** ⚠

Tooling Mate must be securely fixed to a bench with 4 mounting bolts.

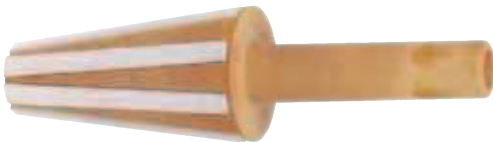
Catalog Number	HSK No.	Polygon Coupling No.	øC	H	øW	øP	øM	Adapter Model
TMS40-32R	32	C3	2.992	6.496	4.331	3.543	.276 M6 or UNC 1/4	TMA40-32R
TMS40-40R	40	C4						TMA40-40R
TMS40-50R	50	C5						TMA40-50R
TMS40-63R	63	C6	3.425	6.772	6.299	5.118	.354 M8 or UNC 5/16	TMA40-63R
TMS50-80R	80	C8	4.488	8.465				TMA50-80R
TMS50-100R	100	—	4.882	8.622				TMA50-100R



**Spindle Cleaners**

The unbeatable tool to ensure absolute cleanliness of tapered spindles, which maintains the precision and prolongs the life of your expensive machine tools, cutting tools and tool holders.

- Robust construction with high oil and grease resistance
- Plastic injection molded core with fluted locations for cleaning strips ensures accurate sizing and cleaning efficiency
- Cleaning strips will maintain adhesion to the taper core due to inset location even under scrubbing action
- Cleaning strips positioned at well spaced intervals to remove even large residual particles
- A quality control product



**ISO Taper (With Pull Stud Recess)**

Catalog Number	Description	Taper No.
20.580.220	ISO Spindle Cleaner	ISO20
20.580.230	ISO Spindle Cleaner	ISO30
20.580.240	ISO Spindle Cleaner	ISO40
20.580.245	ISO Spindle Cleaner	ISO45
20.580.250	ISO Spindle Cleaner	ISO50



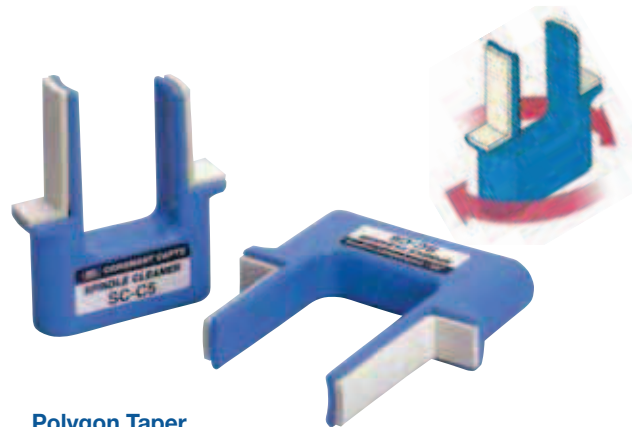
**Morse Taper**

Catalog Number	Description	Taper No.
20.580.001	Morse Taper #1 Spindle Cleaner	MT1
20.580.002	Morse Taper #2 Spindle Cleaner	MT2
20.580.003	Morse Taper #3 Spindle Cleaner	MT3
20.580.004	Morse Taper #4 Spindle Cleaner	MT4
20.580.005	Morse Taper #5 Spindle Cleaner	MT5
20.580.006	Morse Taper #6 Spindle Cleaner	MT6



**HSK Taper**

Catalog Number	Description	Taper No.
20.580.025	HSK-25 Spindle Cleaner	HSK-25
20.580.032	HSK-32 Spindle Cleaner	HSK-32
20.580.040	HSK-40 Spindle Cleaner	HSK-40
20.580.050	HSK-50 Spindle Cleaner	HSK-50
20.580.063	HSK-63 Spindle Cleaner	HSK-63
20.580.080	HSK-80 Spindle Cleaner	HSK-80
20.580.100	HSK-100 Spindle Cleaner	HSK-100
20.580.125	HSK-125 Spindle Cleaner	HSK-125



**Polygon Taper**

Catalog Number	Description	Taper No.
SC-C3	Polygon Taper C3 Spindle Cleaner	C3
SC-C4	Polygon Taper C4 Spindle Cleaner	C4
SC-C5	Polygon Taper C5 Spindle Cleaner	C5
SC-C6	Polygon Taper C6 Spindle Cleaner	C6
SC-C8	Polygon Taper C8 Spindle Cleaner	C8



Speroni Tool Presetters are designed ready for the future. In fact, most new technologies can be applied to the main construction of every Speroni machine. This makes the purchase of a Speroni Presetter less of a purchase, and more of an investment. Maintaining your investment and ensuring a long healthy life for your presetter is very important and we would like to help in guaranteeing it's life. Arrange an annual preventative maintenance checkup and know that your machine is running accurately and consistently.

### Services Included:

- Clean, inspect and lubricate all applicable parts of the machine
- Inspect and adjust bearing preloads on X and Z axis slide assemblies
- Verify spindle total indicator runout (T.I.R.) and that the column is square to spindle centerline, done using a NIST traceable certified bar
- Clean and adjust mechanical and optical assemblies
- Performance evaluation and verification of all functions
- Verification and repeatability and zero-point calibration
- Free two hours of onsite training



### Upgrade/Retrofit

Looking for a cost effective alternative to completely replacing your existing presetter? Ask one of our BIG Kaiser representatives what it will take to upgrade or retrofit your existing BIG Kaiser presetter system with today's top technology. Not only can you extend the life of your current presetter several years, you also get the satisfaction that your presetter continues to meet ISO certification.

***BIG Kaiser recommends annual maintenance and certification contracts.***

***To find out more, please ask your BIG Kaiser representative for a detailed quotation.***

BIG Kaiser Precision Tooling Inc. is not just presettlers. We're boring tools, tool holders, cutting tools, zero-point workholding, accessories and so much more. We're BIG-PLUS®, CAT, BT, HSK and BIG CAPTO. We're tightening tolerances, reducing set-up and cycle times, increasing tool life, and enhancing performance while driving down cost. We're delivering high-performance products and ingenuity for shops that demand results.



# **BIG KAISER**®

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