speroni®

precision by design

ESPERIA

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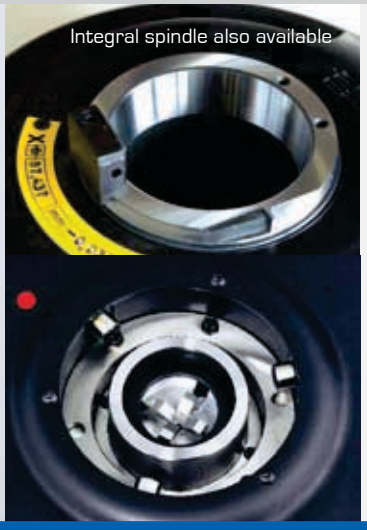
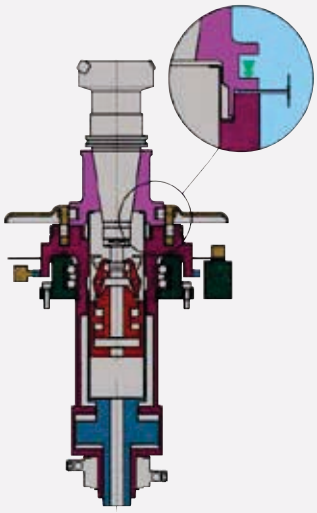




Rapid axis movement has been designed to maximize the ease of use of the system. The operator can move the axis simultaneously or independently. Pneumatically activated for ergonomic comfort, this feature guarantees smooth and precise movement.

Quick-change adapter system allows the changing of adapters in less then 8 seconds, guaranteeing unmatched precision and accuracy.

The uniquely designed "simultaneous fit" adapter clamping system allows for an adapter mount repeatability of 0.000019" (0.0005mm).

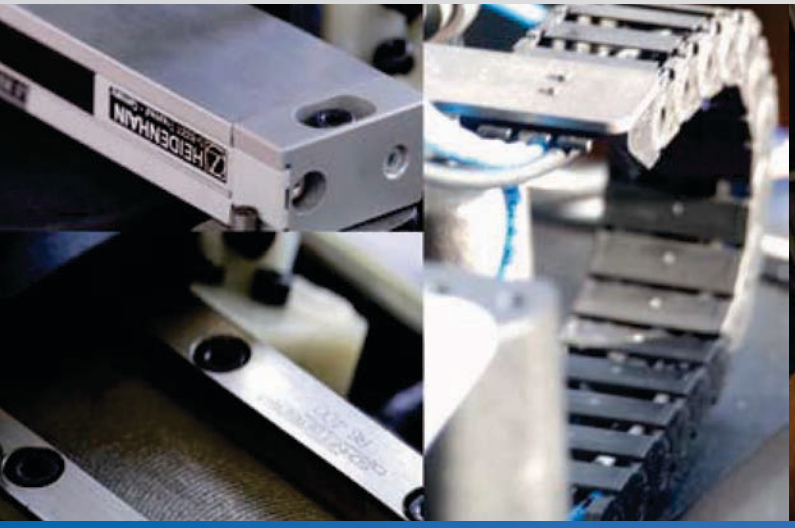
ESPERIA

precision by design

STP Esperia represents the ideal solution for today's modern tool measurement and presetting needs. The line of Esperia systems was conceived and designed in order to operate in a shop floor environment next to your machine tool.

Control Options Offered:

- Basic
- Edge
- Edge+
- ProVision
- CNC
- Shrink
- Tribos



Mounted directly on the system's structure, micron precise Heidenhain® glass scales, state of the art Schneeberger® guideways, together with the largest and toughest recirculating ball bearing contact surface in its class, guarantee the highest precision and repeatability along the system's entire measuring range. Integrated cable carriers are present in both the X axis (base) and Z axis (column).

Optional dual monitors and 17" industrial grade touch screen monitor can be integrated with the keyboard and mouse operation for increased flexibility and ease of use.

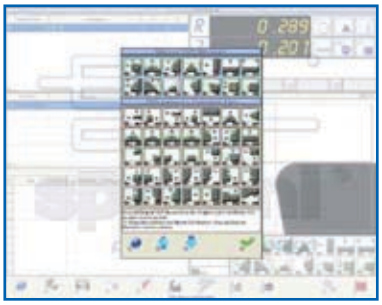
The Esperia line of tool presetters represents over 45 years of experience in the manufacturing of high quality tool presetting and measuring equipment. These presetters are the standard to which all other presetters are measured.

As with all of Speroni's tool presetters, the structure is made completely of aged pearlitic cast iron in order to guarantee the best thermal stability. Contrasting most presetter designs, the homogeneous structure resolves all of the issues encountered on systems which use light alloys and/or granite, which have different and unstable reactions to changes in temperature & the environment. This solid design, together with our excellence in manufacturing, eliminates the need for frequent recalibrations due to temperature changes during the work shift as well as guaranteeing the precision and repeatability of your system year after year.

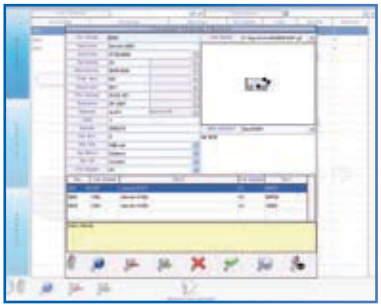
Due to this fact, the software compensations offered by other presetter manufacturer's to compensate for misalignment is not necessary with a Speroni. The precision comes from the mechanical construction! These tool presetting and measuring machines are the most rugged, dependable machines on the market. Designed for shop floor use, these machines provide tool presetting, tool inspection, and tool management along with unmatched repeatability and precision.

The modular design of the Esperia line allows for you to customize and specifically configure a presetter for your current needs and allow for this machine to grow with your company's ever changing needs. This modular flexibility, optimum ergonomic design and user friendliness have always been key features of all Speroni tool presetters. All system options are field retrofittable.

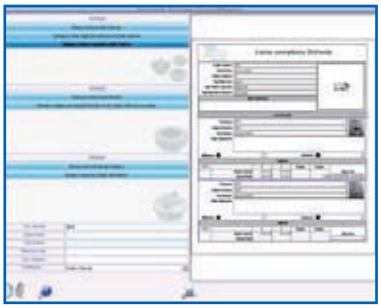
As with all Speroni tool presetters, the Esperia is designed and fully manufactured – hardware and software – by Speroni. The software interfaces as well as the measuring algorithms are developed by Speroni software engineers in cooperation with leading universities in this field. Our design, manufacturing and development experience is coupled with some of the most prestigious components on the world market in order to deliver unmatched reliability.



Over 130 specifically designed measuring icons allow for the precise and automatic measurement of all tool forms.



Newly designed EDGE and EDGE+ controls are the perfect systems for those companies approaching tool management. A powerful database allows for the perfect organization of tools and kits in order to start optimizing your tool resources.



The powerful analysis and reporting feature allows for a fast and easy interrogation of your tool and kit database. Each tool and kit detail is clearly displayed, thus enabling the EDGE tool management feature to provide the right tool in the right place at the right time.

Available Models and Specifications

Model	X	Z	System Weight	Height	Length	Width
STP-44	406mm (16")	406mm (16")	410 Kg (904 lbs)	1910mm (75.2")	1230mm (48.4")	1500mm (59")
STP-46	406mm (16")	609mm (24")	430 Kg (948 lbs)	2110mm (83.1")	1230mm (48.4")	1500mm (59")
STP-48	406mm (16")	812mm (32")	445 Kg (981 lbs)	2310mm (90.9")	1230mm (48.4")	1500mm (59")
STP-64	609mm (24")	406mm (16")	420 Kg (926 lbs)	1910mm (75.2")	1330mm (52.4")	1500mm (59")
STP-66	609mm (24")	609mm (24")	442 Kg (974 lbs)	2110mm (83.1")	1330mm (52.4")	1500mm (59")
STP-68	609mm (24")	812mm (32")	460 Kg (1014 lbs)	2310mm (90.9")	1330mm (52.4")	1500mm (59")
STP-84	812mm (32")	406mm (16")	430 Kg (948 lbs)	1910mm (75.2")	1435mm (56.5")	1500mm (59")
STP-86	812mm (32")	609mm (24")	450 Kg (992 lbs)	2110mm (83.1")	1435mm (56.5")	1500mm (59")
STP-88	812mm (32")	812mm (32")	470 Kg (1036 lbs)	2310mm (90.9")	1435mm (56.5")	1500mm (59")
STP-612	609mm (24")	1219mm (48")	410 Kg (904 lbs)	2710mm (106.7")	1330mm (52.4")	1500mm (59")
STP-812	812mm (32")	1219mm (48")	410 Kg (904 lbs)	2710mm (106.7")	1435mm (56.5")	1500mm (59")
STP-1212	1219mm (48")	1219mm (48")	410 Kg (904 lbs)	2710mm (106.7")	1650mm (65.0")	1500mm (59")

STP Esperia equipment, models and options may vary due to specific market or legal requirements.
The data in this catalog is purely indicative. For technical or commercial reasons Speroni may modify the models described at any time.

Base Model Specifications	
Basic DRO Readout	S
20x Magnification 5.9" Viewable Projector	S
Pneumatically Activated Axis Movement	S
Fine Adjustement X & Z	S
Integral Spindle ISO 50	S
Integrated Calibration Master	S
T.I.R. @ 300mm	<5µ
Spindle Concentricity	1µ
Axis Resolution	1µ
Axis Positioning Repeatability	2µ
Power	110V or 220V
Pneumatic Requirements	0.5-0.7 Mpa (70-100 PSI)

S - Standard

Base Model Options
Integral Spindle Brake
Integral Vacuum Clamping
Label Printer

Machine Upgrades
Edge Control
Edge+ Control
ProVision Control
Motorized X & Z Axis
CNC X & Z Axis
CNC A Axis
Autofocus Spindle
Label Printer
Universal Spindle
Quick-Change Adapter System (*)
Universal Spindle Disk Brake (*)
Universal Retention Knob Clamping (*)
Integrated Shrink Fit System
Integrated Tribos Clamping System
Episcopy Front Ring Light
2nd Fixed CCD Camera
2nd Swing Arm CCD Camera
Post Processing
Chip Read/Write Systems

*Universal spindle required

Base model machine shown

Speroni is a UNI EN 9001 : 2000 Certified Company

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