

Precision in Every Dimension



New product: the first 4-way precision lathe with automated cycles

V-Series

4-Way Precision Lathe with Automated Cycles

 **WEILER**

www.weiler.de

Service

Radial Drilling Machines

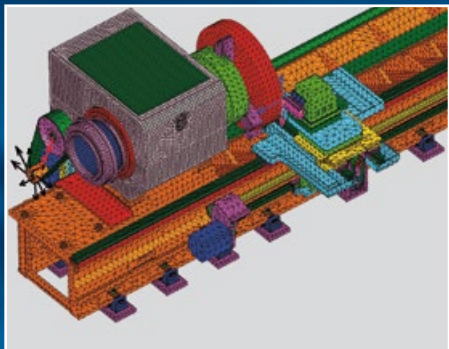
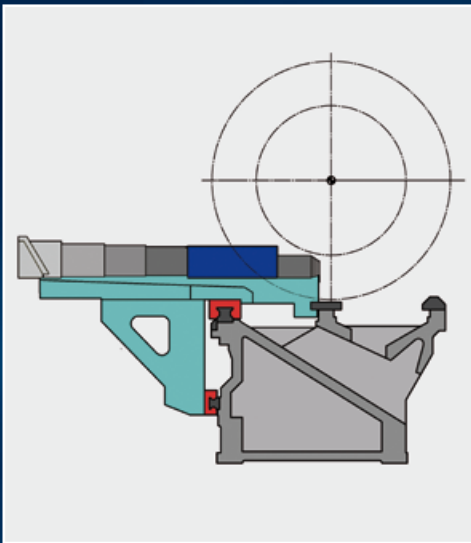
Cycle-Controlled Lathes

Manual/Engine Lathes

V90 / V110: Limitless Economic Efficiency for All Lengths

The WEILER 4-way precision lathe with automated cycles embodies the implementation of the WEILER cycle controller, that is well-known and proven from over a thousand E-Series installations, into a 4-way bed lathe.

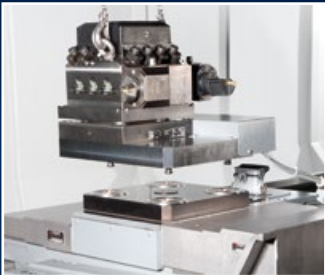
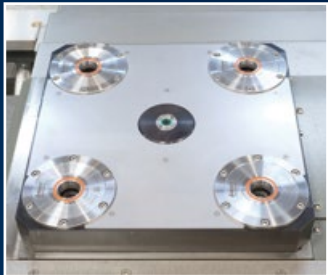
The V-Series has been specially developed for the economic machining of long workpieces. To enable this, the slides can over-run the steady rest and tailstock.



State-of-the-art calculating methods are used



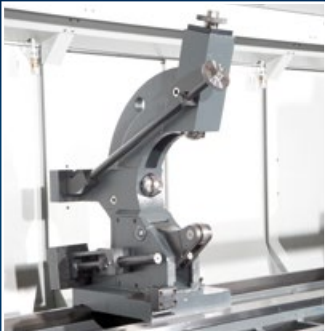
The machine takes its name from the four guideways along which the slides, tailstock and steady rest are moved. Precise, anti-friction bearings on a heavy-duty and torsion-resistant bed ensure the utmost positioning accuracy of the bed slides. The tailstocks and steady rest are precisely guided on hardened and finely-ground steel rails that are screwed on to the machine.



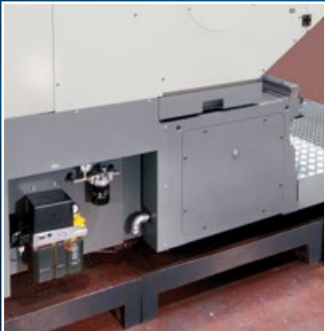
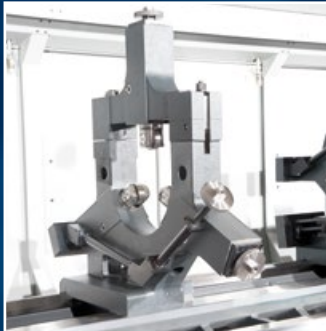
The design provides the straight-forward and precise change-over of the various tooling systems that range from tool turret, boring block and milling attachment through to a grinding unit on a quick-release plate.



Heavy-duty tailstock with integrated pressure indicator



Various versions of easy-to-use steady rests that can be set from the front



All components of the machine are clearly arranged and easily accessible

Fast and simple communication between man and machine

Even without prior programming knowledge, the smart WEILER software guides the operator through the program. Using automated cycles, you can control the V-Series like a “manually operated” machine. Or you can completely program the work-piece contour with the assistance of the geometry processor that can automatically calculate the points of intersection. For further information, please refer to the separate WEILER control brochure.

The three basic principles for working with all E-series machines

- 1) Simple workpieces are processed in the same way as with a conventional machine, only more efficiently.
- 2) Elaborate parts are processed in the same way as with a conventional machine, only faster.
- 3) Complex parts are processed in the same way as with a CNC machine, only easier.

Data transfer interfaces

- ▶ V24 / RS232
- ▶ USB
- ▶ Network-compatible



Clear user interface with TFT screen and additional membrane keyboard with shortstroke keys

Perfect Solution for a Wide Range of Applications

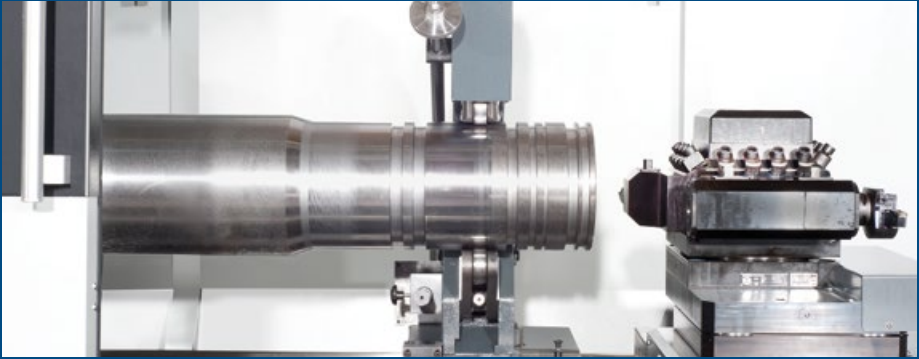


Excellent usability through a control panel with all of the necessary operating elements that can be turned and moved in the longitudinal and transverse directions

Field of application: oil and gas industry



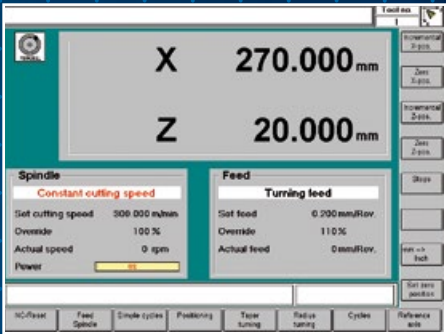
Field of application: wind energy



Field of application: shipbuilding

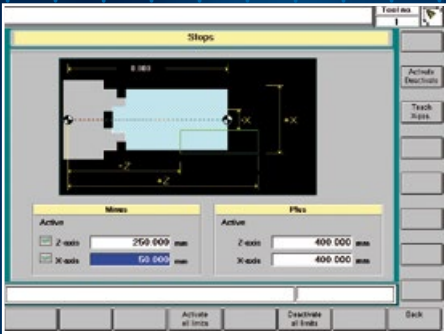


Field of application: hydraulics



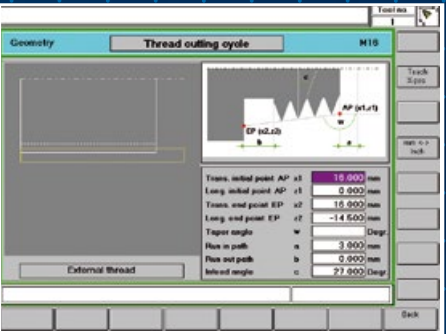
Straightforward input and display of machine data

Machine and processing data are entered according to practical requirements and are clearly displayed.



Tool management

Simple, menu-controlled input and management of tool data with the capability of setting-up a user-specific technology database.



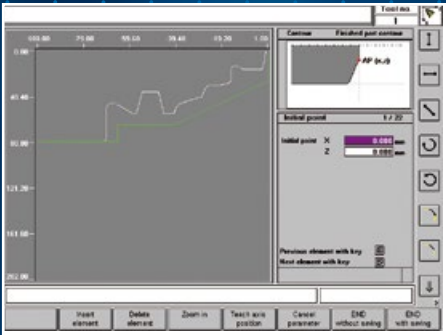
Thread cutting cycle

Only little data is required for the input of the thread geometry.



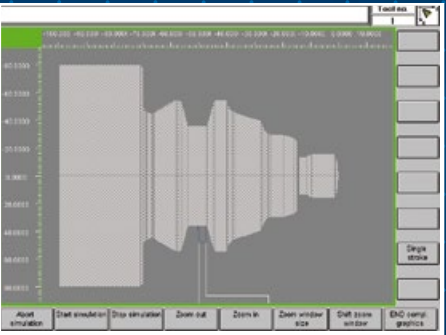
Cutting cycle technology

Cutting is possible longitudinally and cross-wise with any desired technology.



Cutting cycle geometry

The contour is generated by stringing together simple contour elements. The calculation of the points of intersection occurs automatically.



Simulation

The machining of the workpiece can be simulated through wire models or solid models.

ABOUT METHODS

Make a **Difference** to the Bottom Line



Methods Machine Tools was established in 1958 with three employees and a handful of refurbished machines. Since then, the company has become one of the largest privately-owned machine tool importers in North America. Methods designs and implements custom machining setups, including machine tool selection, automation integration, and turnkey automation cells. The corporate campus in Sudbury, Mass., comprises a showroom/technical center spanning 125,000 square feet, which contains automation, applications, and a full range of cutting-edge machines. Methods has more than 300 employees, nine sales/technology centers, one high-precision machining center, and has installed in excess of 40,000 machines throughout North America. Methods' founder, Mr. Clement McIver, Sr., established the core principle that sets Methods apart from the competition. "Anyone can sell a machine," he said, "but not everyone provides the extra effort that makes a difference in the company's bottom line."

Methods delivers that extra effort in the form of world-class customer service, peerless industry knowledge, innovative technology, and unique relationships with builders. We are dedicated to crafting the right tool for the right job.

SERVICE

Methods earned its unique reputation by developing a comprehensive umbrella of support and sales services utilizing decades of hands-on experience and expertise. Our sales and support staff work with an extensive national network of distributors and dealers to offer specific solutions for machine shop owners.

The unique blend of seasoned engineers, young talent, and an average level of experience of 15 years guarantees customer satisfaction.



APPLICATIONS

Method's applications engineering team is dedicated to solving challenges by integrating modifications and developing machining configurations. Our engineers analyze your needs and develop the best solution to elevate your business and help you reach your goals.

Methods has taken application engineering and technology to the next level, offering precise machine selection, programming, and automation. We stay ahead of the curve to keep you ahead of the competition.



AUTOMATION

Automation offers the greatest potential for increased productivity. Methods has more than 30 automation specialists nationwide and includes design, control, integration/assembly, and field service/installation engineers. Methods recognizes there is no one-size-fits-all solution. That's why all of our automation and integration specialists develop customer-specific solutions that reduce costs and increase throughput.



Technical Data

Service

Radial Drilling Machines

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Working Range		V90	V110
▶ Distance between centers	inch	118-472	118-472
▶ Swing over bed	inch	37.00	45.66
▶ Swing over cross slide	inch	23.22	31.88
▶ Cross slide travel	inch	22.83	22.83
▶ Width of bed	inch	35.43	35.43
Main Spindle			
▶ Spindle nose according to DIN 55027 (DIN ISO 702-3)	size	15 (20)	15 (20)
▶ Spindle bore	inch	6.49	6.49
▶ Other spindle bores	inch	10.31/14.25	10.31/14.25
▶ Spindle diameter in front bearing	inch	9.25	9.25
Main Drive			
▶ Drive power at 60 %/100 %	hp	60/50	60/50
Max. torque at spindle	lb ft	5,900	5,900
▶ Speed range	rpm	1-900	1-900
Feed Range			
▶ Feed force longitudinal	lb	4,500	4,500
▶ Rapid traverse Z/X	inch/min	394/197	394/197
▶ Feed range	inch/rev	0.00004-1.96	0.00004-1.96
Thread Cutting Range			
▶ Thread cutting range	mm TPI	0.1-2.000 112-1/64	0.1-2.000 112-1/64
Tailstock			
▶ Tailstock quill diameter	inch	5.51	5.51 (7.09)
▶ Tailstock quill taper	MT	6	6 (metr. 100)
Weights			
▶ Weight approx.	lb	33,000/60,000	35,500/62,000
Machine Accuracy			
▶ Acceptance accuracy	DIN	8606/8607	8606/8607



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