

LONG-TERM PRECISION AND
OUTSTANDING EASE-OF-USE



The machine shown includes options



Precision Engine Lathe **PRIMUS VCD**

 **WEILER**

www.weiler.de

PRECISION ENGINE LATHE PRIMUS VCD



The machine shown includes options

- Exceptional running smoothness thanks to a regulated, infinitely variable main drive
- New chuck protection guarantees maximum safety
- Ease of maintenance thanks to good access to all points that require servicing
- Machine lamp in a glare-free position
- WEILER Design – perfectly tailored for practical use
- Easy chip disposal through chip pan

Quality

The acceptance tolerances according to DIN 8605 are way below its limits – proof of the high quality of the machine.

Safety

- Main spindle brake
- Automatic handwheel release
- Lead screw and feed rod cover
- Mitigation of crushing zone
- Dual-channel safety technology

Efficiency

In single part and small series production, craft and industrial companies, as well as tool and fixture construction, the Primus VCD offers numerous possible uses that can be a wide range of considerably with extensive additional equipment.

Highest precision and manageability thanks to modern, high-quality mechanical engineering „Made in Germany“

WEILER VCD digital readout (option)

- Large, clear 9-inch colour screen
- Three axes for bed, cross and top slides (Z and Zo offset or separable)
- Constant cutting speed with speed limitation
- Oriented spindle stop
- Electronic limit switching during thread cutting
- Distance-to-go display for thread cutting with limit switching
- Automatic notification of the maintenance intervals
- It is possible to hide the axis positions
- Radius/diameter switch over
- Metric/imperial switch over
- Zero-point offset
- Timer-controlled standby operation
- Tool memory for rotation speed or cutting speed of 99 tools
- Electronic operating hours counter for machine "On" and spindle "On"



Headstock

The very stable main spindle ensures high dynamic rigidity. The bearing high surface quality, very quiet running and good turning performance.

Drive

Low-noise toothed belts drive the main spindle without gears.

Benefits:

- The entire speed range is available without gear change
- High efficiency of the toothed belt drive
- Infinitely variable speed adjustment using a safety potentiometer

Apron

- Two-level solution for effortless operation
- Control lever for feed (longitudinal and transverse)
- Secured control lever for clasp nut

Adjustable slip clutch for optimum power transmission. Easy lubrication of the bed slide and clasp nut thanks to integrated central lubrication.

Options



- GS certified by the testing and certification system of the German Social Accident Insurance (DGUV test)
- Meets the requirements of the Product Safety Act (ProdSG)
- New chuck guard, checked with ballistic test
- Wide range of GS-certified options

TECHNICAL DATA

Standard equipment

- Magnetic brake for main drive
- LED machine light in rear chip dash panel
- Taper sleeve ME50/MT3
- Male center MT3
- Quick-change tool post Multi Suisse size A incl. 1 off turning tool holder AD 2090
- Chuck splash guard movable
- Change gear box door with limit switch monitoring
- Rear splash guard
- Chip deflector hinged on compound slide
- Single bed stop
- Set of change gears 21-33-63-120 T
- Central lubrication
- 5 off shear pins for lead screw
- Set of operating keys

Special options

- Increased main spindle speed (5,000)
- WEILER VCD display
- Three and four-jaw chucks
- Independent 4-jaw chucks
- Various clamping devices for collets
- Hollow spindle stops
- Travelling steady rest with slide jaws
- Fixed steady rest with roller or slide jaws
- Rotating centre
- Lever drilling device for tailstock
- Tailstock – inclined turret head
- Limit switch for thread cutting
- Traversable chip splash guard with viewing window
- LED machine light
- Additional machine lamps
- Socket 230 V
- Further accessories upon request

Electrical equipment

- Operating voltage 3 x AC 400 V N/PE/50 Hz
- Control voltage 24 V
- All safety-relevant components are electrically locked
- Dual-channel safety technology
- Restart protection in case of power failure or EMERGENCY STOP
- EMERGENCY STOP integrated into the base and headstock cover
- Safety circuit for left and right rotation of the main spindle
- Speed display and speed potentiometer for continuous speed adjustment
- Entering the permissible main spindle speed after switching on the machine
- Additional monitoring and preselection of the permitted spindle speed with key switch

Working range		
Distance between centres	mm	500
Centre height	mm	140
Swing over bed	mm	280
Swing over cross slide	mm	150
Main spindle		
Spindle head DIN ISO 702-3 (DIN 55027)	size	5
Spindle diameter in front bearing	mm	70
Spindle bore	mm	43
Inner taper of main spindle	metr.	50
Main drive		
Drive power 100 % duty cycle	kW	4
Speed range	min ⁻¹	30 – 4,000
Number of gears		1
Number of speeds		stepless
Feed drive		
Number of feeds		24
Feed range longitudinal/transverse	mm/rev	0.02 – 0.63/0.006 – 0.2
Thread cutting range		
Metric threads	mm	0,25 – 8
Inch threads	TPI	80 – 2
Tailstock		
Quill diameter	mm	40
Quill travel	mm	85
Inner taper of the quill	MT	3
Dimensions		
Length/Width/Height	mm	1,570/890/1,700
Weight	kg	1,050

User videos are available
On the WEILER Channel at



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