

The Start of a New Lathe Generation



Abbildung beinhaltet Optionen

Optionally with
WEILER WTS



Precision Engine Lathe Praktikant VC^{Plus}

WEILER

www.weiler.de



BLUECOMPETENCE
Alliance Member

Partner of the Engineering Industry
Sustainability Initiative

Service

Radial Drilling Machines

CNC Lathes

Cycle-Controlled Lathes

Tool Room Lathes / Semi-Cycle Controlled Lathes

New Option

The Future of Conventional Turning: WEILER WTS Touchscreen

- ▶ **WEILER WTS**
First 15" touchscreen on a conventional engine lathe
- ▶ **Latest user trends**
Operate in the same way as a smartphone or tablet PC
- ▶ **Superimpose technical drawings**
Import through USB stick and individually scalable
- ▶ **Video support**
Videos about maintenance and operation



Photograph shows options

The New WEILER WTS



WEILER offers a newly developed operating solution for the Praktikant VC^{Plus}. The 15" touchscreen enables smart and ergonomic data input.

Simple turning



Fast menu navigation, everything at a glance, individually adjustable. With the WTS, WEILER sets a new standard in conventional turning.

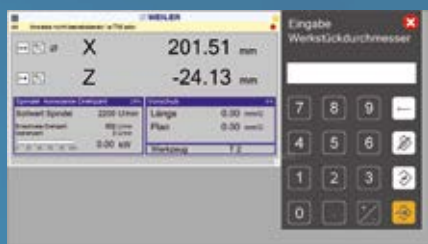
Get There Quicker with the WEILER WTS Touchscreen

Intuitive access to all functions



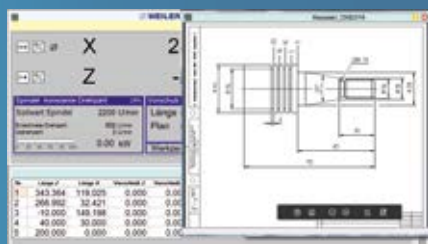
All operating keys can be called and placed next to each other just as needed!

Streamlined operating keyboard



Vulnerable and protruding operating keys are a thing of the past! Operating keys are only superimposed when they are needed.

Overlay of technical drawings and sketches



Import through USB interface, the display is freely scalable through a zoom function in the window!

Praktikant VC^{Plus}



Photograph shows options

- ▶ **WEILER VC^{Plus} digital readout**
Redesigned with more functions
- ▶ **"Green" technology**
Standby mode and recovery of braking energy
- ▶ **9" screen**
Easy to read and everything at a glance

- ▶ **GS mark**
Guarantees utmost safety
- ▶ **Easy to maintain**
All maintenance points are easily accessible
- ▶ **WEILER Design**
Perfectly suited to practical requirements



Safety

WEILER conventional engine lathes are approved according to the testing and certification system of the German Statutory Accident Insurance Association (DGUV). This ensures utmost operator safety.

- ▶ Two-channel safety circuit
- ▶ Lead screw and feed shaft covers
- ▶ GS approval mark
- ▶ Chuck guard proven through ballistic tests



Efficiency

The unique operating concept provided by the latest generation of WEILER lathes is the perfect solution for one-off and small batch production. In conjunction with a wide range of tool systems, the Praktikant VC^{Plus} is ideal for both vocational training and industry.



Quality

WEILER stands for outstanding quality machine tool manufacturing Made in Germany. Smart and innovative mechanical solutions ensure that the machine is well within the acceptance tolerances specified by the machine tool accuracy standard DIN 8605.



WEILER Design

WEILER Design is the result of decades of experience in machine tool production. Due to its space-saving, maintenance-friendly and ergonomic design the Praktikant VC^{Plus} is perfect for everyday operation.

The High Precision Cost Cutting Machine with "Green" Technology

The electronics: new, user-friendly and forward-looking display and control electronics WEILER VC^{Plus}

- ▶ Large, easy-to-read 9" colour screen
- ▶ Constant cutting speed with speed limitation
- ▶ Additional speed and feed override through precision potentiometer
- ▶ Electronic turning against the stop through input into the readout unit or teaching-in the slide position
- ▶ Electronic limit switch for thread cutting
- ▶ Remaining path display for the thread length
- ▶ Stored thread cutting tables
- ▶ Tool technology store for turning speed or cutting speed of 99 tools
- ▶ Power display for the main spindle in percent (graphically) and in kW
- ▶ Electronic operating hour counter for Machine "On" and Spindle "On"
- ▶ Automatic indication of the maintenance intervals
- ▶ Context-sensitive help menu
- ▶ Pocket calculator function

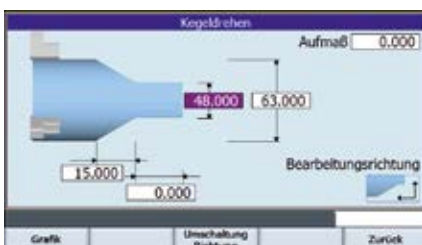


Leading-edge safety technology

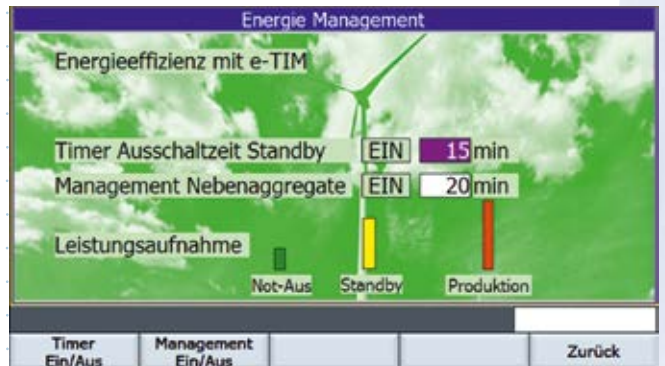
The WEILER VC^{Plus} digital readout fulfils the highest demands respecting safety

- ▶ 8-stage turning speed monitoring
- ▶ Adaption of the maximum turning speed according to the clamping device and machining operation
- ▶ Safety certified by the German Statutory Accident Insurance Association (GS mark)

Taper turning



Turn inner and outer tapers



e-TIM: reduces energy consumption – protects the environment!

- ▶ Timer-controlled standby mode: automatic shut-down after a freely configurable time interval
- ▶ Intelligent drive management with energy recovery
- ▶ Whatever is not needed will be shut down!



Angle measurement on top slide

Technical Data

Standard equipment

- WEILER VC^{Plus} digital readout
- Braking device for the main drive
- Machine light in the rear panel
- Taper quill ME50/MK3
- Turning centre MK3
- Multisuisse size A quick-change tool holder with AD 2090 changeable holder
- Movable chuck guard with limit switch monitoring
- Moving splash guard
- Removable chip tray
- Longitudinal fixed stop
- Central lubrication
- 5 spare shearing pins for the lead screw
- Set of operating keys

Options

- 15" WEILER WTS touchscreen
- Multisuisse size B quick-change tool holder
- Three and four jaw chucks
- Face plates
- Various clamping devices for chucks
- Electrically monitored protective devices for working with draw-in chucks and open chuck guard
- Hollow spindle stops
- Follow rest with sliding jaws
- Fixed rest with rolling or sliding jaws
- Revolving tailstock centres
- Lever-operated drilling unit for tailstock
- Tailstock turret head
- Coolant device
- LED machine lights
- Additional machine lights
- e-LISSY
- Electronic multiple stop
- Graphical assistance for taper turning
- Special voltages through upstream transformer
- 230 V socket
- Other accessories on request

Electrical equipment

- Operating voltage 3 x AC 400 V N/PE/50 Hz
- Control voltage 24 V
- Contactor control and motor control in lockable switch cabinet in substructure
- All safety-relevant components are electrically interlocked
- Two-channel safety devices
- Restart protection in case of power failure or EMERGENCY OFF
- EMERGENCY OFF integrated in substructure and headstock housing
- Safety monitoring device for ccw / cw main spindle movement
- Input of the permissible main spindle speed after switching on the machine
- Operating elements centrally integrated in the headstock housing
- e-TIM consisting of: Timer-controlled standby mode – automatic shut-down of the machine when a pre-defined time interval has elapsed, Intelligent drive management – feeds braking energy back into the power grid Machine-status-related energy management – all ancillary devices that are not required are automatically switched off

Working range

Distance between centres	mm	650
Centre height	mm	160
Swing over bed	mm	320
Swing over cross slide	mm	190

Main spindle

Spindle head DIN 55027 (ISO702-3)	size	5
Spindle diameter in front bearing	mm	70
Spindle bore	mm	43
Inner taper of main spindle	ME	50

Main drive

Drive power 100 % duty cycle	kW	8
Speed range	1/min	25–5,000
Number of gears		1
Number of speeds		stepless

Feed drive

Number of feeds		stepless
Feed range longitudinal/transverse	mm/turn	0.01–6/0.003–2

Thread cutting range

For all thread types (metric, inch, module, Dp)	mm	0.1–20
Input capability	mm	0.001

Tailstock

Quill diameter	mm	40
Quill travel	mm	85
Inner taper of the quill	MK	3

Abmessungen

Length / width / height	mm	1,680/900/1,700
Weight	kg	1,100



User videos are available
On the WEILER Channel at



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