

DIGITAL LEARNING IN BESTFORM

# EDUCATION4.0

The digital training machines  
from WEILER



The figure includes options

**Primus VCPlus EDUCATION4.0**  
**Praktikant VCPlus EDUCATION4.0**  
**Condor VCPlus EDUCATION4.0**

 **WEILER**

[www.weiler.de](http://www.weiler.de)



# THE BEST BASIS FOR DIGITAL LEARNING: THE WEILER EDUCATION4.0 SERIES

## Digital training machines for future-oriented training

EDUCATION4.0 from WEILER is a variable concept to introduce trainees to lathes.

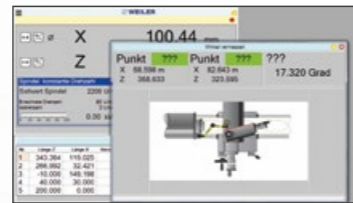
### The right training machine with associated tutorials

EDUCATION4.0 ensures that theoretical knowledge is implemented in practice: What is a chuck guard? How do I mount a chuck? Where do I move which axis? All functions can be carried out on the machine in a safety mode accompanied by tutorials.

### Individual learning – lathing in self-study – anytime and anywhere

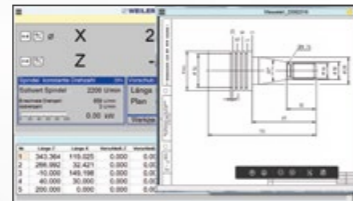
Use learning tasks accompanied by interactive tutorials at school or home to acquire theoretical knowledge. These learning tasks provide basic knowledge of lathes as well as advanced operation and maintenance. Learning tasks prepared by WEILER deepen the acquired knowledge.

A large 19" WEILER touchscreen is included as standard



All operating windows can be accessed simultaneously and placed side-by-side if needed.

### Showing engineering drawings and sketches



Importing over central networks; the display is freely scalable using the window magnification function

Equipped with EDUCATION4.0 BoxPC for storing other content or software, too



Easy to maintain thanks to easy accessibility of the maintenance points

WEILER design: Perfectly tailored for practical use

WEILER touchscreen WTS – larger and clearer

WEILER decided on a user-friendly touchscreen for the new generations of lathes. Ideal for digital training.

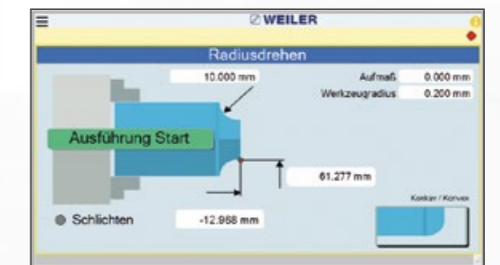
### Tutorials on the machine



### eLISSY for EDUCATION4.0

The authorisation software controlled centrally using the StateViewer enables the creation of users as well as the development and monitoring of learning progress adapted to the trainees' level of knowledge.

### Easy radius turning without a CNC lathe



A variety of machine accessories

The figure includes options

Integration into your company network





# WEILER EDUCATION4.0: THE OPTIMAL CONCEPT FOR DIGITAL EDUCATION

## Communication and transparency

The WEILER VCPlus EDUCATION4.0 machines Primus, Praktiker and Condor open up numerous options.

### Networked training machines

The machines can be connected to the internal network. All videos, drawings, tutorials and educational websites are accessible from the machine.

### StateViewer

All information converges in one place. The trainer can monitor parameters, assign machine authorizations, view machine states and store all relevant documents centrally. A chat function enables quick and easy exchange of information between trainees and trainers.



### The WEILER learning platform – impart knowledge easily, anytime and anywhere

Virtual learning content can impart theoretical knowledge, even mobile and flexible if needed. The WEILER learning platform accompanies trainees from the first impressions through learning tasks to monitored knowledge tests. In addition to the WEILER training concept, training institutions can also define their proprietary learning content. This way, decades of experience are made available digitally.



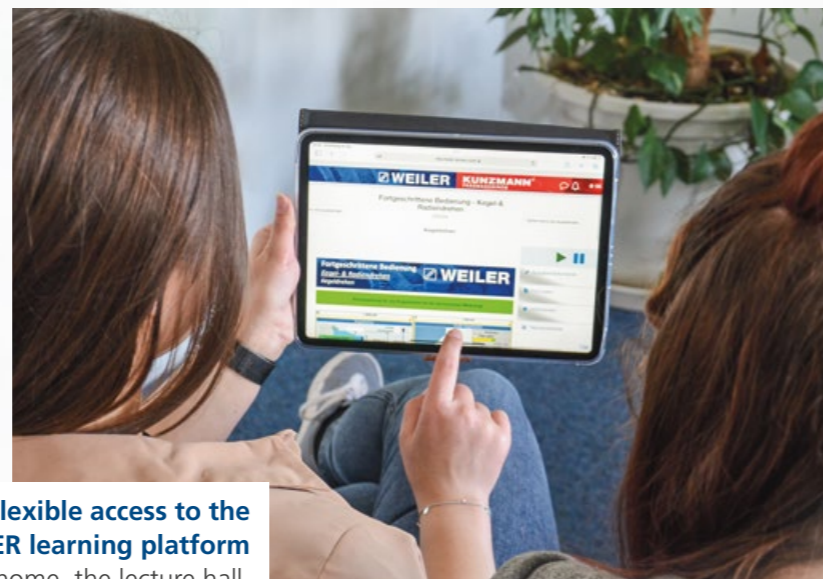
### Virtual training elements on and with the machine

Run tutorials directly on the machine: for beginners to advanced users.



### WCM – WEILER Condition Monitoring- Industry 4.0 already during training

Analysis of the machine drive and troubleshooting with simulated failures.



### Flexible access to the WEILER learning platform

From home, the lecture hall, training centre or on the move



The technical basis for the digital training concept EDUCATION4.0 is the brilliant 19" touchscreen (16:9) with a pixel resolution of 1,366 x 768.

The touchscreen is the key to the new world of training for all EDUCATION4.0 machines from WEILER.

- Intuitive access to all functions with several windows side-by-side
- Button to open the digital operating instructions

- Simplified operation like with a smartphone or tablet – for example by swiping
- Display of technical drawings and sketches, freely scalable – import over the network or USB interface
- Playing animations and videos, for example for routine maintenance and operation



# EXCELLENT BASE – SUBTLE DIFFERENCES: THE EDUCATION4.0 MACHINES FROM WEILER



## PRIMUS VCPlus EDUCATION4.0

The space-saving entry-level model in the EDUCATION4.0 series. Everything that is needed for digital training.

**Distance between centres**  
500 mm

**Swing over bed**  
280 mm

**Spindle bore**  
43 mm

**Speed range**  
5.000 min<sup>-1</sup>

**Drive power**  
100 % ED: 5,5 kW



## PRAKTIKANT VCPlus EDUCATION4.0

The all-rounder with an excellent price-performance ratio. Ideal for training in production-related operations.

**Distance between centres**  
650 mm

**Swing over bed**  
320 mm

**Spindle bore**  
43 mm

**Speed range**  
5.000 min<sup>-1</sup>

**Drive power**  
100 % ED: 8 kW



## CONDOR VCPlus EDUCATION4.0

Digital and large-dimensioned with extensive accessories. Learning on a machine for real-world assignments.

**Distance between centres**  
800 mm

**Swing over bed**  
360 mm

**Spindle bore**  
57 mm

**Speed range**  
4.000 min<sup>-1</sup>

**Drive power**  
100 % ED: 10,5 kW



# TECHNICAL DATA

## Basic EDUCATION4.0 package

- Digital training machine VCPlus EDUCATION4.0
- WEILER 19" touchscreen
- EDUCATION4.0 BoxPC
- StateViewer
- Network connection

## Options

- Virtual training elements
- e-LISSY for EDUCATION4.0
- WEILER learning platform
- WEILER training video
- Dynamic torque monitoring
- Taper and radius turning
- Gigabit live-screen streaming
- Chuck
- Steady rests
- Coolant devices
- Tailstock accessories
- IP camera
- WEILER Condition Monitoring WCM
- HDMI port

## Electrical equipment

- Operating voltage 3 x AC 400 V N/PE/50 Hz
- Control voltage 24 V
- Contactor and drive control in the base of the lockable control cabinet
- All safety-relevant components are electrically locked
- Dual-channel safety system
- Restart protection in the 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
- Entering the permissible main spindle speed after switching on the machine
- Energy saving with e-TIM

Working Range		Primus VCPlus EDUCATION4.0	Praktikant VCPlus EDUCATION4.0	Condor VCPlus EDUCATION4.0
Distance between centres	mm	500	650	800
Centre height	mm	140	160	180
Swing over bed	mm	280	320	360
Swing over cross slide	mm	150	190	190
Main Spindle				
Spindle nose size acc. to DIN ISO 702-3 (DIN 55027)	size	5	5	6
Spindle diameter in front bearing	mm	70	70	90
Spindle bore	mm	43	43	57
Inner taper of main spindle		ME 50	ME 50	MK 6
Main Drive				
Drive power at 100 % duty cycle	kW	5,5	8	10,5
Speed range	min <sup>-1</sup>	25-5.000	25-5.000	25-4.000
Number of gears		1	1	1
Number of speeds		stepless	stepless	stepless
Feed drive				
Number of feeds		stepless	stepless	stepless
Feed range longitudinal/transverse	mm/rev	0,01-6/ 0,003-2	0,01-6/ 0,003-2	0,01-6/ 0,003-2
Thread cutting range				
Metric threads (metric, inch, module, Dp)	mm	0,1-20	0,1-20	0,1-20
Input capability	mm	0,001	0,001	0,001
Tailstock				
Quill diameter	mm	40	40	50
Quill travel	mm	85	85	110
Inner taper of the quill	MT	3	3	3
Dimensions				
Length/Width/Height	mm	1.530/900/ 1.700	1.680/900/ 1.700	2.000/970/ 1.730
Weight	kg	1.050	1.100	1.500

User videos are available on the WEILER Channel at



## WEILER Werkzeugmaschinen GmbH

Friedrich K. Eisler Strasse 1  
91448 Emskirchen  
Germany  
Phone +49 (0)9101-705-0  
Fax +49 (0)9101-705-122  
info@weiler.de | www.weiler.de