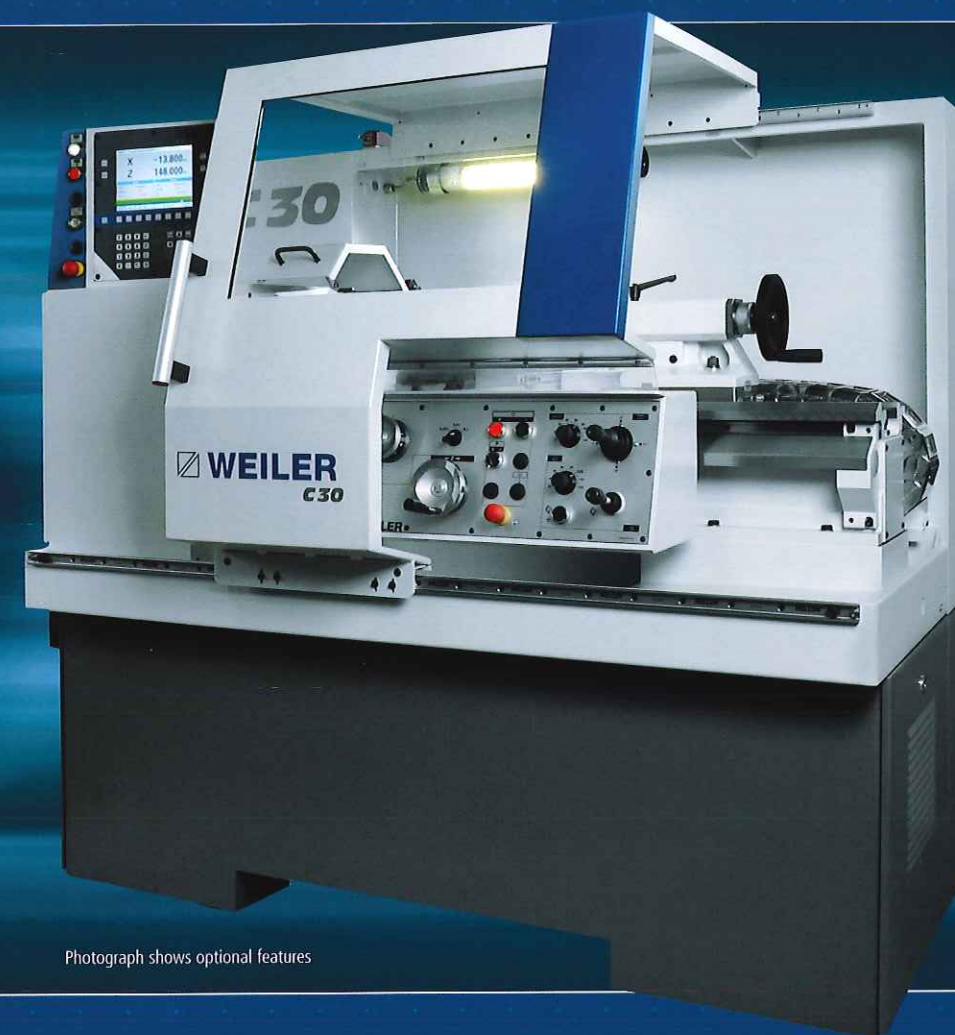


Technical Data

Technical Data		C30	C50
Working Range			
▶ Turning length/distance between centres	mm	750	1,000/2,000
▶ Swign over bed	mm	330	570
▶ Swing over cross slide	mm	160	340
▶ Cross slide travel	mm	180	340
▶ Width of bed	mm	240	350
▶ Cross section of turning tool (height x width)	mm	20 x 20	32 x 25
Main Spindle			
▶ Spindle nose according to DIN 55027	size	5	8
▶ Spindle diameter in front bearing	mm	70	120
▶ Spindle bore	mm	40.5	83
▶ Inside taper of the main spindle	MT	5	metr. 90
Main Drive			
▶ AC drive			two-step gearbox
▶ Drive power at 60 %/100 % duty cycle	kW	9/7	15/12
▶ Speed range	1/min ⁻¹	1 – 4,500	1 – 2,500
Feed Range			
▶ Three phase digital servo drives			
▶ Feed force Z-axis	N	6,000	10,000
▶ Feed force X-axis	N	3,000	7,000
▶ Feed range Z/X-axis	mm/U	0.001 – 10	0.001 – 10
▶ Rapid traverse Z/X max.	m/min	6/3	6/3
Thread Cutting Range			
▶ Metric threads	mm	0.1 – 400	0.1 – 400
▶ Inch treads	TPI	56 – 1/4	56 – 1/4
▶ Modular threads	mm	0.125 – 28	0.125 – 28
▶ Diametral threads	DP	224 – 1	244 – 1
▶ Number of thread courses	max.	99	99
Tailstock			
▶ Quill diameter	mm	50	80
▶ Quill travel	mm	130	200
▶ Quill taper	MT	3	5
Dimensions			
▶ Length	mm	1,750	2,850/3,850
▶ Width	mm	1,150	2,000
▶ Height	mm	1,670	1,800
▶ Weight	kg	1,300	3,200/3,700

Photographs may deviate from the standard version. The right of technical modifications is reserved. - 07/13 - 5.0915.12.90.03.02

Turning Made Simply



Photograph shows optional features

The Servo-Conventionals
C30 / C50

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Service
Radial Drilling Machines
CNC Lathes
Automated Cycle Lathes
Conventional/Servo Lathes

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The Servo-Conventionals C30 / C50

Conventional lathes have proven themselves for the machining of straightforward turning jobs for a number of years. This can be particularly attributed to the simple handling of the machine.

Servo-conventional lathes allow the operator to concentrate on the job at hand. Time and effort spent on setting the gearbox speed or exchanging the change gears for thread cutting operations become a thing of the past – this eliminates sources of errors and increases productivity.

The C30 / C50 have enhanced the simplicity, practicality and profitability of conventional lathes through leading-edge drive and control technology together with extensive WEILER application know-how.



Photograph shows optional features



Photograph shows optional features

User-Friendly

- ▶ No psychological barrier for the operator as data input is plain language, i.e. graphically supported and dialog-guided
- ▶ Predefined screen forms for taper and radius turning without the need to use additional tools
- ▶ Direct selection of simple cycles
 - Facing and cylindrical turning
 - Radius and taper turning
 - Thread cutting
 - Grooving
- ▶ Simple data input for the corresponding cycles in predefined screen forms
- ▶ USB interface

Cost-Effective

- ▶ Short set-up times and easier operation through oriented main spindle stop. The main spindle or chuck comes to a stand-still at the pre-selected chuck key setting
- ▶ Fast adaptability to the job changes. Short processing cycle times through:
 - Constant cutting speed
 - Thread cutting of various types of threads with continuous running of main spindle
 - Simple re-cutting of existing threads
 - Grooving cycle for a wide range of groove geometries
- ▶ Radius and taper turning
- ▶ Possibility of storing tool data and processing cycles
- ▶ Cutter radius compensation feature ensures the highest possible contour accuracy
- ▶ Cutting cycle
 - Turning against the stop in both axes without mechanical settings
- ▶ Automatic central lubrication of the guideways as well as ground ball screws

Precision

- ▶ High surface quality through constant cutting speed with variable speed limitation and override switch for feed and main spindle speed
- ▶ Machine accuracy to DIN 8605 (tool maker's accuracy)
- ▶ Positioning in μ -range, also through electronic handwheels

Bed and Subbase C50

- ▶ The bed is manufactured from high-quality grey cast iron. Strong transverse ribbing and continuous guides ensure resistance to bending and torsional forces. The separate vee and flat guides for the carriage and tailstock are flame-hardened and ground.
- ▶ The bed is supported by robust cast iron feet. In between there is a large coolant tank (100 l) with settling tray and sub-mergible pump. Above the tank there is a chip tray on four rollers that can be pulled out to the front.

Current, convenient, user-friendly and well placed – the control

Energy efficiency – a WEILER priority

WEILER cycle-controlled lathes implement their energy saving potential through the integral TIM software.

Energy efficiency with TIM means

- T**ime-controlled Emergency Stop operation from the standby mode according to operator requirements.
- I**ntelligent drive management with energy recovery: Dynamic energy management controls the flow of energy within the machine. Excess braking energy is not pointlessly converted to heat, but fed back into the supply network.
- M**achine status energy management of ancillary components: Only the ancillary components that are required for the active machining process are powered up, all others are shut down.