

Quality and Precision in Detail



Model DA 260 AC x 1000  
Photograph shows options

## Universal Lathes DA 210 AC / DA 260 AC

 **WEILER**

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

# Model DA 210 AC and DA 260 AC



Model DA 260 AC x 1000  
Photograph shows options

## Increased safety and benefits for the user

- ▶ EMERGENCY STOP buttons on the headstock and apron
- ▶ Chuck guard with limit switch monitoring
- ▶ Change gearbox door with limit switch monitoring
- ▶ Automatic braking of the main spindle
- ▶ Restart protection in case of a power cut
- ▶ Dual-channel safety technology
- ▶ Rear chip guard
- ▶ Roller type covers for the lead screw and feed rod
- ▶ Tube fluorescent lamp in the rear chip guard

## Decisive details

- ▶ Particularly high and solid quality
- ▶ Consistently dependable precision
- ▶ Ease of operation
- ▶ High drive performance
- ▶ Long lifetime
- ▶ Machine accuracy according to DIN 8605 (toolmakers accuracy)
- ▶ Feed gearbox switchable between metric and inch
- ▶ Reliable service and spare parts supply
- ▶ Good resale value

## Options



Follower rest with sliding jaws  
Ø 10 – 160 mm



Moveable hood with safety glass pane



Steady rest with roller jaws  
Ø 12 – 150 mm



Digital readout type Fagor 40i TS for  
3 axes and V-constant function

# Highest precision and simple operation together with sophisticated technology are the advantages of the conventional range



## Headstock

Heavy-duty main spindle and precision bearings ensure extremely high concentric accuracy and rigidity. Case hardened and finely ground gears guarantee quiet operation. All of the gears in the 2-step gearbox run within an oil bath. The hardened spindle nose is made according to DIN 55027. Forward and reverse running of the main spindle is switched on and off through a safety shift lever on the apron.



## Tailstock

Robust design with a single lever quick-clamping device. The guideways are independent of the carriage guideways. The tailstock can be moved sideways on its base plate to enable the turning of thin tapers. The quill has a form fit to prevent twisting. The range of movement of the quill is indicated by a scale ring.



## Main drive / Electrical system

The frequency operated three-phase current drive with toggle switch on the apron for a stepless spindle speed adjustment enables a comfortable working. A holding brake integrated in the main motor effectuates a quick and reliable stop of the main spindle.



## Carriage

Longitudinal and cross feed as well as the split nut are switched through two interlocking levers. All gears in the apron and the worm gear on the feed rod run in an oil bath. A friction clutch adjustable through a hand lever that acts on the longitudinal and cross feed enables turning against a stop without rebound. The carriage and cross slide guideways are lubricated through a central lubrication hand pump. The 90 degree low-profile V-guide in the carriage ensures high accuracy. The cross and top slide are guided in dovetail guideways that can be adjusted through tapered gibs. The backlash of the cross and top slide nuts is adjustable. Wipers protect the guideways.



## Machine bed

The high torsion and tension resistance provided by a wide bed made of high quality grey cast iron guarantee high stability during machining. Hardened and finely ground guideways ensure high precision and long lifetimes. Generously dimensioned chip openings provide reliable chip removal. The chip tray is removable and has a high loading capacity. Recesses in front of the headstock enable even higher turning diameters.



## Power supply

The cables and coolant hoses are protected by metal cable carrier chains leading to the carriage.

# Technical data

## Standard equipment

- Coolant attachment
- Rear chip guard
- Roller type covers for the lead screw and feed rod
- Quick-change tool post Multi Suisse size B with 1 turning tool holder
- Chuck guard with limit switch monitoring
- Chip deflector on the top slide
- Change gearbox door with limit switch monitoring
- Bed stop with micrometer screw
- Tailstock quill with anti-twist protection and ejection slot
- Taper sleeve for main spindle MT 4 (DA 210 AC) MT 5 (DA 260 AC)
- Male center MT 4 (DA210 AC) MT 5 (DA260 AC)
- Tube fluorescent lamp in the rear chip guard
- Oil gun
- Set of wrenches
- Instruction manual with spare parts catalogue
- Machine card

## Options

- Three and four jaw chucks
- Independent four jaw chucks
- Collet chucks
- Driver plate with protective rim and driver
- Live center
- 6-position bed stop
- Transverse stop
- I.D. back stop
- Follower rest with sliding jaws
- Steady rest with roller jaws or sliding jaws
- Moveable hood with safety glass pane
- Longitudinal and transverse rapid traverse
- Digital readout for 3 axes
- Taper turning device (template) for 350 mm taper length
- Rear tool holder for cross slide
- Machine set-up elements

## Electrical equipment

- Frequency-controlled three-phase drive with integrated holding brake
- Toggle switch for stepless speed adjustment on the apron
- Digital speed display above the headstock
- Operating voltage 3 x 400 V / 50 Hz
- Control voltage 230 V
- Frequency converter and contactor control in the lockable control cabinet behind the headstock
- Restart protection in case of a power cut
- Safety switch for main spindle forward / reverse
- Jog button for main spindle
- EMERGENCY STOP buttons on headstock and apron
- Dual-channel safety technology
- Lockable main switch
- Main motor protection through temperature sensor
- Electrical system according to VDE 0100/0113

Working range		DA 210 AC	DA 260 AC
Distance between centres	mm	1.000/1.500	1.000/1.500/2.000
Centre height	mm	210	260
Swing over bed	mm	435	535
Swing in bed recess	mm	470	560
Swing over cross slide	mm	245	345
Width of bed	mm	330	330
Travel of cross slide	mm	330	330
Travel of top slide	mm	130	130
Cross section of tool (height x width)	mm	25x25	25x25

Main drive			
Drive power 100% ED	kW	5,5	5,5

Main spindle			
Spindle nose acc. to DIN 55027	size	6	6
Spindle diameter in front bearing	mm	83	100
Spindle bore	mm	52	71
Internal taper of main spindle	metr.	57	76
Speed range	rpm	20-2.500	20-2.500
Number of speed ranges		2	2

Feed range			
Longitudinal feeds	mm/rev	0,072-2	0,072-2
Transverse feeds	mm/rev	0,036-1	0,036-1

Tailstock			
Quill diameter	mm	65	65
Quill travel	mm	120	120
Internal taper of the quill	MT	4	4

Thread cutting range			
Metric threads	mm	0,5-14	0,5-14
Inch threads	TPI	56-2	56-2

Permissible workpiece weights			
With chuck	kg	150	200
With tailstock	kg	500	800
With steady rest	kg	700	1.000

Weight			
	kg	1.450/1.700	1.650/1.900/2.200



User videos are available on the WEILER Channel at



# WEILER

WEILER Werkzeugmaschinen GmbH

Friedrich K. Eisler Strasse 1

91448 Emskirchen, Germany

Telephone +49 (0)9101-705-0

Fax +49 (0)9101-705-122

info@weiler.de • www.weiler.de