Quality and Precision in Detail

Model DA 210 x 1000
Photograph shows options

Universal Lathes

DA 210 / DA 260

WEILER

www.weiler.de

Model DA 210 and DA 260

Model DA 210 x 1000
Photograph shows options

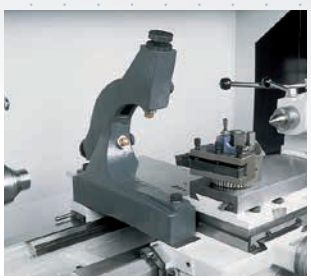
Increased safety and benefits for the user

- 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
- Rear chip guard
- Roller type covers for the lead screw and feed rod
- Tube fluorescent lamp in the rear chip guard

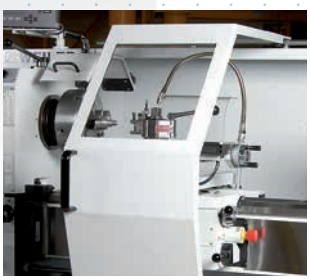
Decisive details

- 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

Optionen



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 Heidenhain ND780

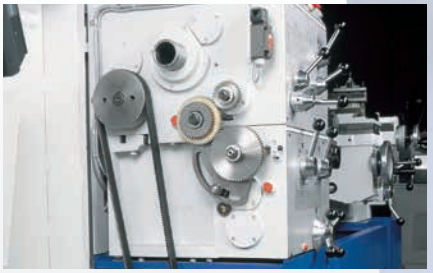
Highest precision and simple operation together with sophisticated technology are the advantages of the conventional range

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 12-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

To ensure the gentle start-up of the main spindle, a centrifugal clutch is attached to the motor. The brake on the motor effectuates a quick and reliable stop of the main spindle. The switch cabinet is attached to the rear side of the machine. Other voltages are optionally available.

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 (DA210) MT5 (DA260)
- Male center MT 4 (DA210) MT5 (DA260)
- 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
- Brake motor with brake release
- Operating voltage 3 x 400 V / 50 Hz
- Control voltage 230 V AC
- Contactor control in lockable switch 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
- Lockable main switch
- Main motor protection through temperature sensor
- Electrical system according to VDE 0100/0113

Working range		DA 210	DA 260
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	7,5
Max. torque of spindle	Nm	900	1.200
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	44 - 2.000	33 - 1.500
Number of speeds		12	12
Feed range			
Longitudinal feeds	mm/rev	0,07 - 4	0,07 - 4
Transverse feeds	mm/rev	0,035 - 2	0,035 - 2
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 - 28	0,5 - 28
Inch threads	TPI	56-1	56-1
Weight	kg	1.300/1.550	1.510/1.760/2.050

We reserve the right to make technical changes · 10/18 · 5.0915.05.90.06.02

User videos are availableon the WEILER Channel at YouTube

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