

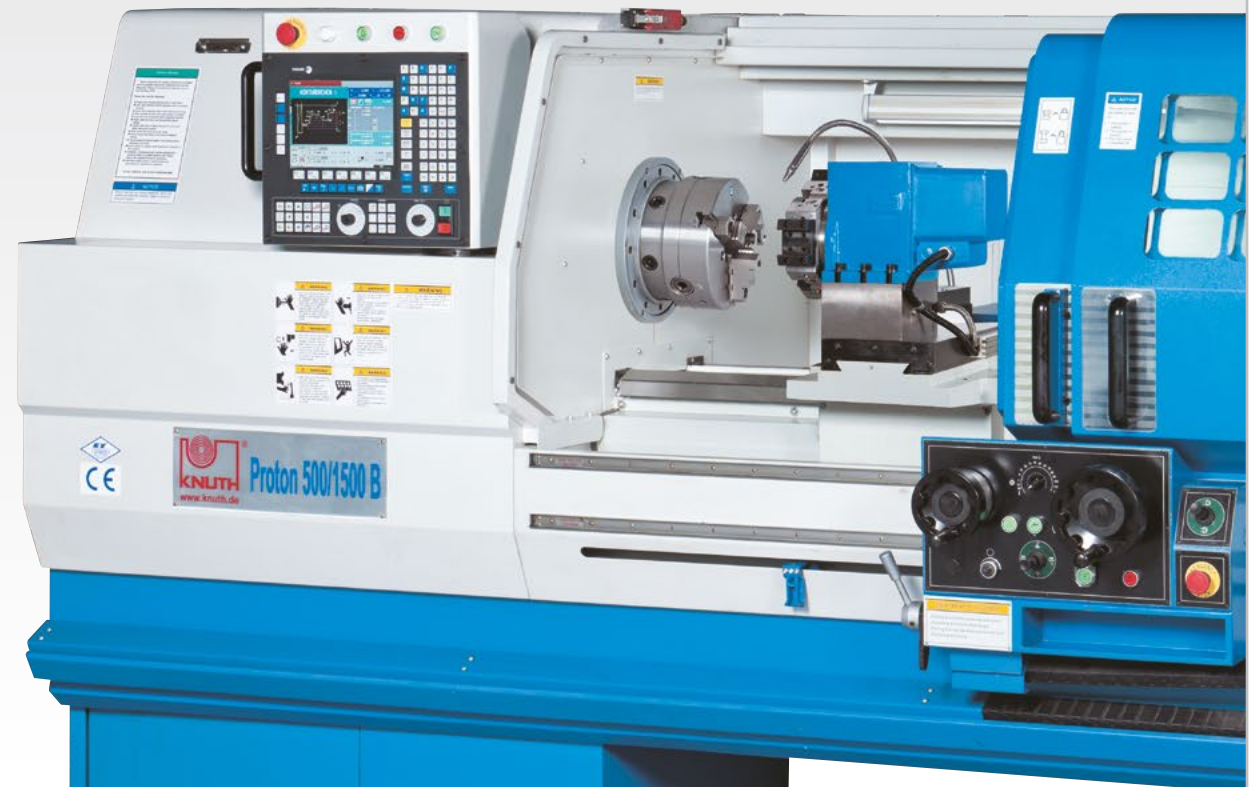


CNC Cycle Lathes

Proton 500 B

**Equipped with a high-performance
Fagor 8055i/A TC control**

- turning diameter over bed (max.) 500 mm
- center width 1000 up to 2000 mm
- spindle bore 82 mm
- bed width up to 390 mm



Proton 500 B

www.knuth.de



Entry-level model of the proven Proton Series - with center width from 1000 to 2000 mm

- wide V-block guides, hardened and ground – superior rigidity of the lathe flat bed, even with large center widths
- headstock and main spindle feature absolute rigidity under high loads, constant temperature balance and superior accuracy
- easy tooling and set-up through practical design of enclosure panels
- the solid tailstock has a large quill with MT5 taper and is especially rigid and load-resistant
- an automatic 6-station tool turret increases productivity even in small batch productions
- manual operation via 2 electronic hand-wheels, for manual control and easy set-up and measuring of tools and workpieces
- automatic central lubrication for simplified maintenance



Proton 500/1500 B shown
with optional equipment

DESCRIPTION

Proton 500 B



Fagor 8055i A-TC
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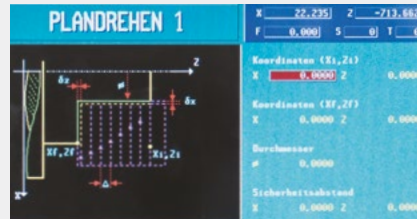
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Alles am richtigen Platz - gute Ergonomie und intuitive Bedingungen steigern die Produktivität



DESCRIPTION

Überzeugendes Steuerungskonzept - Werkstattprogrammierung vom einfachen Drehteil bis zu komplexen Konturen mit intuitiver Programmierung und implementierten Zyklen für Plan- und Längsdrehen, Radius, Kegel, Gewinde, Einstiche und komplette Konturzüge





Proton 500 B

SPECIFICATIONS

Specifications Proton	500/1000 B	500/1500 B	500/2000 B	500/1000 B	500/1500 B	500/2000 B
Control	Fagor 8055i A-TC			tool Ø	32 mm	32 mm
working area				Tailstock		
center width	1000 mm	1500 mm	2000 mm	tailstock taper	MT 5	MT 5
bed width	390 mm	390 mm	390 mm	tailstock quill diameter	75 mm	75 mm
turning Ø over bed (max.)	500 mm	500 mm	500 mm	tailstock quill stroke	150 mm	150 mm
turning Ø over support (max.)	290 mm	290 mm	290 mm	Accuracies		
travel X-axis	240 mm	240 mm	240 mm	positioning accuracy X-axis	0,03 mm	0,03 mm
travel Z-axis	780 mm	1280 mm	1780 mm	positioning accuracy Z-axis	0,045 mm	0,045 mm
Headstock				repeatability X-axis	0,012 mm	0,012 mm
speed range (3 steps)	35 - 2500 rpm	35 - 2500 rpm	35 - 2500 rpm	repeatability Z-axis	0,02 mm	0,02 mm
spindle mount	D8	D8	D8	Drive capacity		
lathe chuck diameter	250 mm	250 mm	250 mm	motor rating main drive	11 kW	11 kW
spindle bore	82 mm	82 mm	82 mm	motor rating X	1,07 kW	1,07 kW
Feed				motor rating Z	1,95 kW	1,95 kW
rapid feed X-axis	6000 mm/min	6000 mm/min	6000 mm/min	Measures and weights		
rapid feed Z-axis	8000 mm/min	8000 mm/min	8000 mm/min	overall dimensions	3200 x 2100	3700 x 2100
Tool head					x 2200 mm	x 2200 mm
number of tool stations	6 pieces	6 pieces	6 pieces	weight	2700 kg	3000 kg
tool shank dimensions	25 x 25 mm	25 x 25 mm	25 x 25 mm	Part No.	180 173	180 174
						180 175

Standard Equipment	
- Fagor 8055i A-TC Control	- automatic central lubrication
- 6-station turret	- coolant system
- tailstock	- work lamp
- 2 electronic hand-wheels	- operating tools
- dead center MT 5	- operating manual

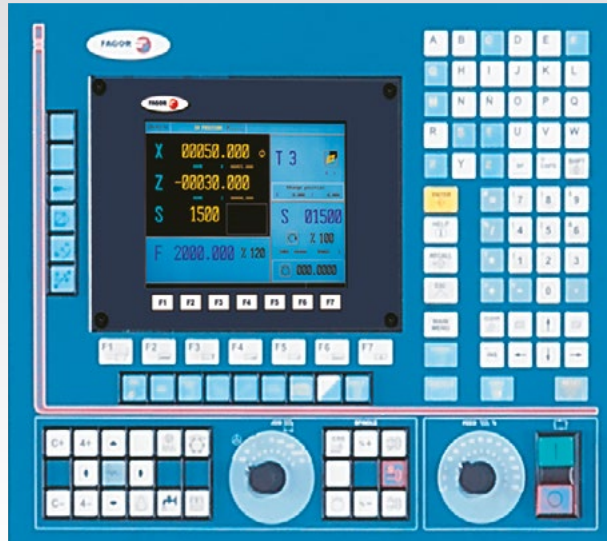
Training
- Free 1-day training in Wasbek
- Including accommodations for 1 night in our guest house

Optional	Part No.
- 3-Jaw Lathe Chuck Steel 250 mm	146 373
- Hydraulic tailstock (Proton 500/1000 B)	250 719
- Hydraulic tailstock (Proton 500/1500 B)	250 721
- Hydraulic tailstock (Proton 500/2000 B)	250 722
- Hydraulic pump	250 720
- Live Center MT 5	106 760
- Power Worker Metal Cutter	123 040
- Coolant Concentrate 5 Ltr.	103 184
- Quick-Set Spindle Bore Stop Size 9 79-91 mm	103 025

CNC Control

Fagor 8055i / A-TC

High Performance for Excellent Productivity



The Fagor 8055i/A Version TC Cycle Control is a powerful CNC, specifically designed for the most demanding machine tool applications. Its calculation capacity and high speed ensure maximum power and increased programming flexibility.

The FAGOR 8055 Numeric Controls are user-friendly and easy to handle. During the execution of one program, the user can already create the next program. A graphical Profile Editor is available to facilitate contour input. The contour to be produced can easily be created by using the information from the parts drawing.

We provide prompt and proficient support, when you need it.

- Up to 1 MB RAM memory
- Removable Memkey Card up to 24 MB, with Flash Memory for the storage of:
 - user programs
 - OEM programs
 - PLC programs
 - user-specific cycles
 - tables
 - parameters, etc.
- DIN ISO programming is also possible
- Fixed cycles with graphic background
- With multi-threaded thread cycle
- Controls up to 7 axes and 2 spindles (with optional digital interfaces)
- C axis function prepared for lathes
- Look Ahead function (75 blocks)
- Block processing time: 1.5 ms
- Profile Editor
- Graphic Simulation, boring graphics, and solid model
- USB port