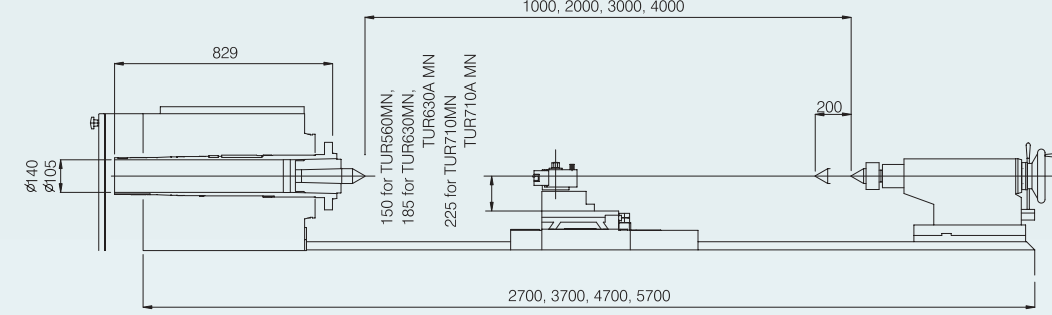
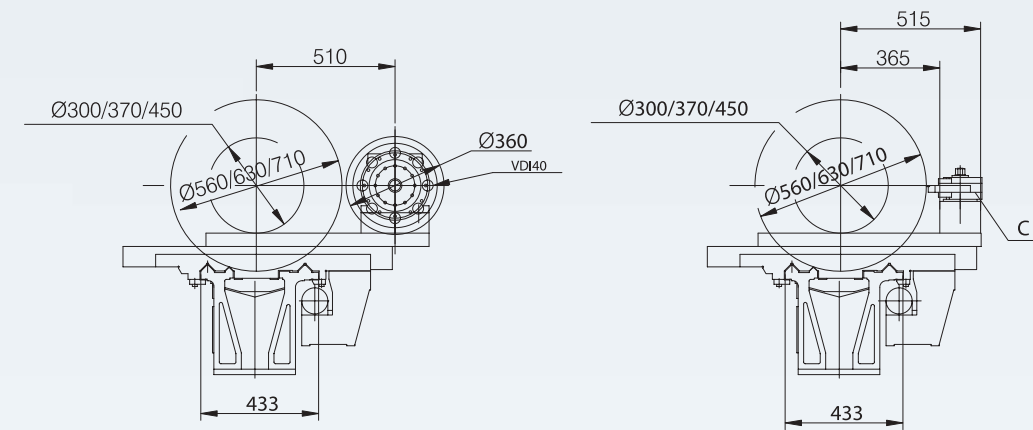




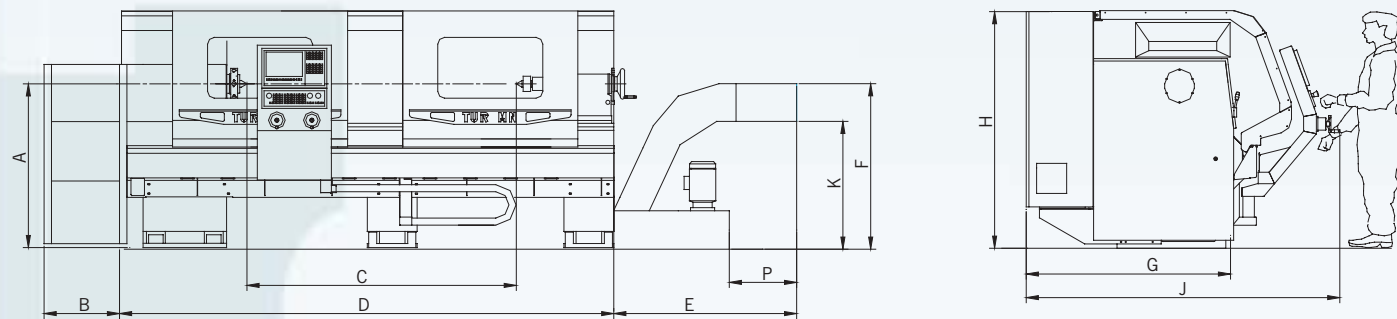
WORKING RANGE TUR 560 / 630 / 630 A / 710 / 710 A MN



With SAUTER 8-position toolturret (VDI40) With manual QC toolpost MULTIFIX C



OVERALL DIMENSIONS FAT CNC TUR 560 / 630 / 630 A / 710 / 710 A MN MACHINES



Type	A	B Option Hydraulic cylinder	C	D	E Option Chip conveyor	F Option Chip conveyor	G	H	J	P	K
TUR 560MN x 1000	1180 mm		980 mm	2840 mm							
TUR 560MN x 2000			1980 mm	3840 mm							
TUR 560MN x 3000			2980 mm	4840 mm							
TUR 630/630A MN x 1000	1215 mm	615 mm	980 mm	2840 mm	1400 mm	1350 mm	1540 mm	1815 mm	2310 mm	460 mm	950 mm
TUR 630/630A MN x 2000			1980 mm	3840 mm							
TUR 630/630A MN x 4000			3980 mm	5840 mm							
TUR 710/710A MN x 1000	1255 mm		980 mm	2840 mm							
TUR 710/710A MN x 2000			1980 mm	3840 mm							
TUR 710/710A MN x 3000			2980 mm	4840 mm							
TUR 710/710A MN x 4000			3980 mm	5840 mm							

MACHINE SPECIFICATIONS

		TUR 560 MN	TUR 630 MN	TUR 630A MN	TUR 710 MN	TUR 710A MN
CAPACITY						
Distance between centers	mm	1000 - 2000 - 3000 - 4000				
Swing over bed	mm	560	630	630	710	710
Swing over saddle	mm	300	370	370	450	450
Max. Weight between centers (without steadies)	kg	2000	2000	2000	2000	2000
Max. Weight in chuck only	kg	600	600	600	600	600
HEADSTOCK						
Number of spindle ranges		2	2	2	2	2
Top spindle speed ranges	rpm	I: 2-430, II: 200-2500		I: 2-430, II: 200-1850	I: 2-430, II: 200-2500	I: 2-430, II: 200-1850
Spindle nose (DIN 55029)	Camlock	D 1-8	D 1-8	2 x D 1-11	D 1-8	2 x D 1-11
Spindle inner taper	mm	115	115	150	115	150
Spindle bore	mm	105	105	140	105	140
Main drive motor power	kW	18,5	18,5	18,5	18,5	18,5
Max. Turning torque	Nm	2100	2100	2800	2100	2800
Front bearing	mm	210	210	250	210	250
SADDLE						
Cross slide travel X-axis	mm	365	390	390	410	410
Rapid travel Z-axis	m/min	8	8	8	8	8
Rapid travel X-axis	m/min	8	8	8	8	8
Feed force transverse	KN	10	10	10	10	10
Feed force longitudinal	KN	15	15	15	15	15
Ball screw Z-axis (1-3m b.c.)	mm	40	40	40	40	40
Ball screw Z-axis (4m b.c.)	mm	--	63	63	63	63
Ball screw X-axis	mm	32	32	32	32	32
Carriage length bearing on bedways	mm	610	610	610	610	610
Width of cross slideways	mm	230	230	230	230	230
QC toolpost type Multifix	size	C	C	C	C	C
TAILSTOCK						
Quill diameter	mm	100	100	100	100	100
Quill taper		MT 5	MT 5	MT 5	MT 5	MT 5
Quill stroke	mm	200	200	200	200	200
GENERAL						
Width of bed	mm	433	433	433	433	433
Total length of machine						
1000 mm b.c.	mm	3000	3000	3190	3000	3190
2000 mm b.c.	mm	4000	4000	4190	4000	4190
3000 mm b.c.	mm	5000	5000	5190	5000	5190
4000 mm b.c.	mm	--	6000	6190	6000	6190
Width of machine	Mm	2300	2300	2300	2300	2300
Height of machine	Mm	1765	1765	1765	1765	1765
Weight of machine						
1000 mm b.c.	Kg	3650	3700	3750	3800	3850
2000 mm b.c.	Kg	4450	4500	4550	4600	4650
3000 mm b.c.	Kg	5250	5300	5350	5400	5450
4000 mm b.c.	Kg	--	6100	6150	6200	6250

Specifications are subject to alterations without prior notice.

© FAT - version - TUR560e04.2006



FAT S.A.
ul. Grabiszewska 281
53-234 Wrocław POLAND
Tel: +48 (0)71 3609-420
Fax: +48 (0)71 3609-121
E-mail: info@fathaco.com
Website: www.fathaco.com

DISTRIBUTOR:



for impressive performances



**HACO / FAT
UNIVERSAL CNC LATHE
TUR 560 / 630 / 630 A /
710 / 710 A MN**

THE CONTROL SYSTEM (SIEMENS 810 D MANUAL TURN)

- Conventional turning with electronic handwheels and a digital/graphic positioning display
- Teach-in: the first piece is machined manually, the next piece is then CNC controlled
- Constant Surface Speed
- Elementary geometries: longitudinal turning and facing, conical and circular turning with CNC support
- Cycles: stock removal, grooving, drilling, threading, undercutting. The reworking of threads is also possible
- Contour mode: drawing contours, contour calculator for undefined elements, machining a contour, also manual machining of contours
- User friendly, with a straightforward programme display
- CNC mode: executing a programme in ISO/DIN code, read-in and read-out of programmes via V24 interface (RS 232)
- Tool table for 99 tools
- 2D Graphic simulation before and during turning
- Memory 0,5 MB standard up to 2,5 MB option

MAIN FEATURES OF THE FAT CNC TUR MN MACHINES

- A European manufactured machine, constructed from high quality components
- Rigid, wide bed and slide construction with 3-V bedslideways ensures high rigidity and accuracy of operation, also fine surface finish of the machined workpiece
- Hardened and ground bedways, along with hardened and ground gears ensure the long life and durability of the machine
- Centrally operated lubrication system
- The large, precision made and over sized ball screws ensure precise positioning
- Heavy duty spindle with bore of 105 mm on TUR 560 / 630 / 710 MN and 140 mm on TUR 630 A / 710 A MN is supported by a combination of precision double-row cylindrical roller bearings and a double-direction angular contact thrust ball bearing. This system provides the highest precision and rigidity for heavy loads and superior surface finish
- A powerful spindle motor of 18,5 kW
- A two speed gearbox offers high torque available for heavy stock removal up to 1800/2500 rpm
- The complete work area is enclosed at the same time as providing good accessibility
- Manual gearchange as standard for TUR 560 / 630 / 710 MN, automatic gearchange for TUR 630 A / 710 A MN



QUICK CHANGE TOOLING SYSTEM

- Quick-change toolpost – type Multifix Size C as standard
- An 8-position bidirectional tool turret VDI 40 (DIN 69880)
- A 4-position tool turret for toolholder according to DIN 69881
- An 8-position turret for live tooling VDI 40
- Boring bar holder on T-slot



DOUBLE CHUCK

The TUR 630 A / 710 A MN are equipped with a large, 140 mm spindle bore and double spindle nose at the front and the rear side (Camlock D1-11). This enables the turning at the ends of both long and heavy workpieces, holding the piece in the two chucks.

HACO / FAT UNIVERSAL CNC LATHE TUR 560 / 630 / 630 A / 710 / 710 A MN

The TUR MN lathes combine the requirements for optimal operation of a modern workshop: the finished workpieces are produced quickly and easily due to very simple operation and programming, a rapid learning and set-up time, very high precision, low maintenance, and all of this for the best price conditions. In brief, a teach-in CNC lathe of the highest quality for heavy-duty machining.



HIGH PRECISION DOUBLE V SLIDEWAYS

The double V slideways, along with the inner V shaped slideway for tailstock, are induction hardened and precision ground. The wide heavy-ribbed bed is double walled, provides excellent rigidity and the best surface finish.

TAILSTOCK

This specially extended neck allows more clearance between the tailstock body and the cross slide. This design permits better access for machining parts close to the tailstock center. A hydraulically operated tailstock quill is offered as option.



CONTROL PANEL

The machine is ergonomically designed and the control panel is movable over the entire working length of the machine.

STANDARD MACHINE EQUIPMENT

- Siemens electrical equipment and motorisation with Siemens 810 D Manual Turn control - voltage 3 phase 400 V
- Colour RAL 7031/7044/1007
- CE conformity
- Quick change toolpost type Multifix Size C (without toolholders)
- Worklight (24V)
- Complete coolant system
- Working area enclosure with interlocking
- Automatic lubrication for headstock
- Automatic lubrication for carriage & cross slide
- Manual tailstock quill
- One set of operation/programming and maintenance manual
- The TUR 630 A / 710 A MN is equipped with a large 140 mm spindle bore and double spindle nose at the front and therear side (Camlock D1-11).

OPTIONAL MACHINE EQUIPMENT

- Live center
- Steady rests \varnothing 10-180 mm, \varnothing 140-300 mm, \varnothing 100-380 mm
- Follow rest \varnothing 10-140 mm
- 3-jaw self centering chucks \varnothing 250 mm, \varnothing 315 mm or \varnothing 400 mm
- 4-jaw self centering chucks \varnothing 400 mm, \varnothing 500 mm
- T-slots face plate
- Hydraulic aggregate
- Hydraulic chuck actuator, with or without through hole, and hydraulic chuck \varnothing 250 mm, \varnothing 315 mm or \varnothing 400 mm
- Pneumatic actuated chuck
- Automatic gear change
- Hydraulic quill tailstock
- DIN 55027/C1-8 spindle nose, \varnothing 90 mm spindle bore
- Chip conveyor
- 8-position tool turret head with tooldisc (VDI 40)
- 4-position automatic horizontal type turret
- Toolholders for Multifix or toolturret
- Spindle indexing 2,5° or C-axis positioning in combination with 8-position toolturret with live tooling
- Transformer to other voltages than 3 phase 400 V
- Off-line software - ManualTurn on PC
- Network option - 3,5" floppy disc station
- Third movable handwheel
- Linear scale - measuring system for X-axis
- Hydraulic self-centering steady rest

