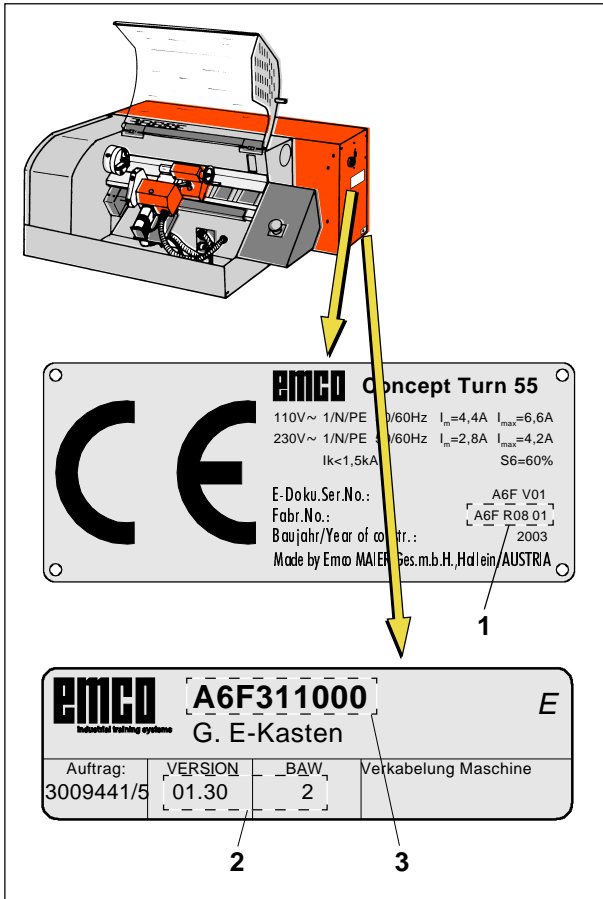
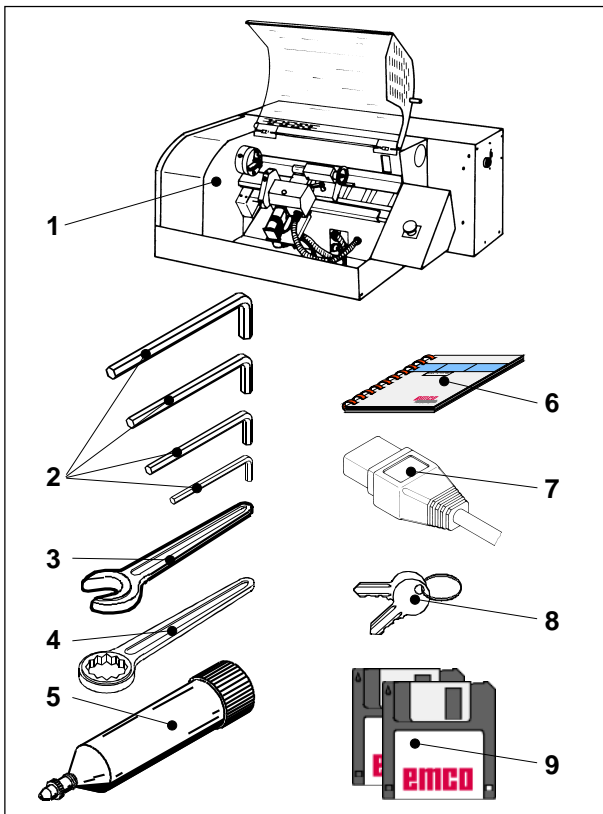


A Installation of the machine



Machinenumber and electrical number



Scope of supply

Machine acceptance

- Check the machine for any transport damage and completeness of the delivery.
If you find any defects, please contact the dealer or the insurance company.
- In case of complaints always specify the exact designation of the machine and the machine number.
The self-adhesive plate indicating the machine number and the electric number is on the machine side below the key switch.

On the plate with the electric number you'll find:

- machine variant (e.g. "A6F")
- Electric version (e.g. "V 01.00 BAW 2")

The available circuit diagrams for this machine you will find in the Electrical Documentation, which is put inside of the electrical cabinet of the machine.

The Electrical Documentation may also be ordered from EMCO:

Electrical Documentation EMCO Concept TURN 55

Ref. No. ZVP 677 914

Version A6F_V01.00 BAW 2

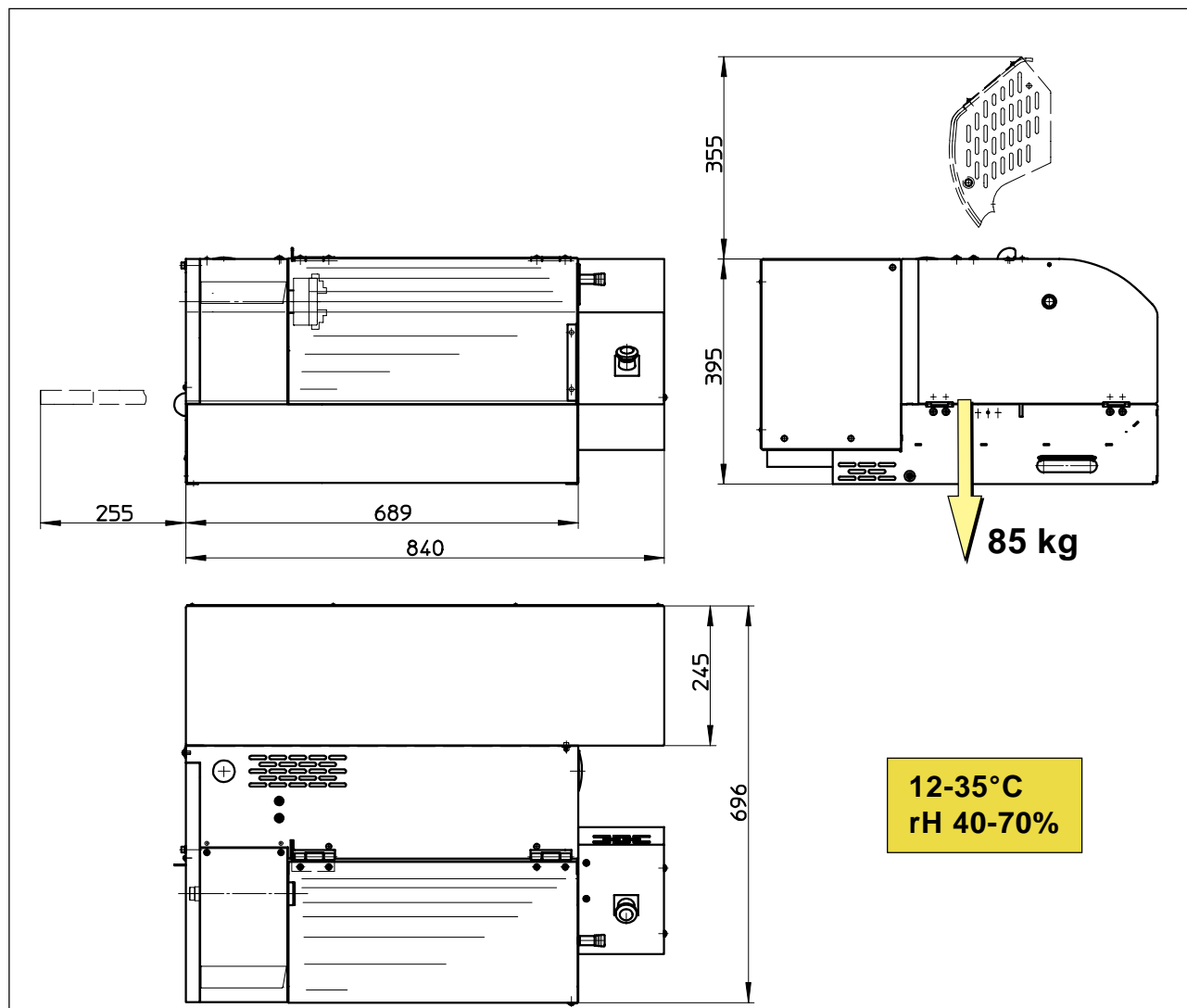
(= machine variant and electrical version of your machine)

- The rust protection agent must be removed by the customer

Scope of supply

1. Inclined-bed turning lathe Emco Concept Turn 55 with 8-fold toolholder, chip tray, splash board, tailstock, complete electric equipment, chip guard cover and safety package.
2. 1 hexagonal key size 8, 5, 4, 3
3. 1 single-ended spanner SW8
4. 1 ring spanner SW13
5. 1 grease gun
6. 1 operating instructions and programming instructions
7. 1 interface cable
8. 2 keys for main switch
9. Software (operating and programming surface according to order)

Dimensions of the machine



Dimensions of the machine

Installation requirements

Place the machine on a stable table.
Mind that the selected installation site is adequately clean (free of excessive dust exposure etc.) to take care of the machine as well as the PC and the peripheral devices.

Weight of machine 85 kg
Ideal table height approx. 650 mm
Installation width x depth 840 x 696 mm

Room climate

Room temperature 12-35°C
Atmospheric moisture 40-70%

Note:

Mind that the ventilation slots on the electric cabinet are not blocked or covered.
In case of insufficient ventilation disturbances on the machine due to too high temperature might occur.



Electrical connection of the machine



Danger:

A ground wire contact has to be available at the socket.

Voltages: 100 V 1/N/PE ~ 50/60 Hz
110 V 1/N/PE ~ 50/60 Hz
230 V 1/N/PE ~ 50/60 Hz

Connected load: 0,85 kVA

Preliminary fuse: max. 12A slow

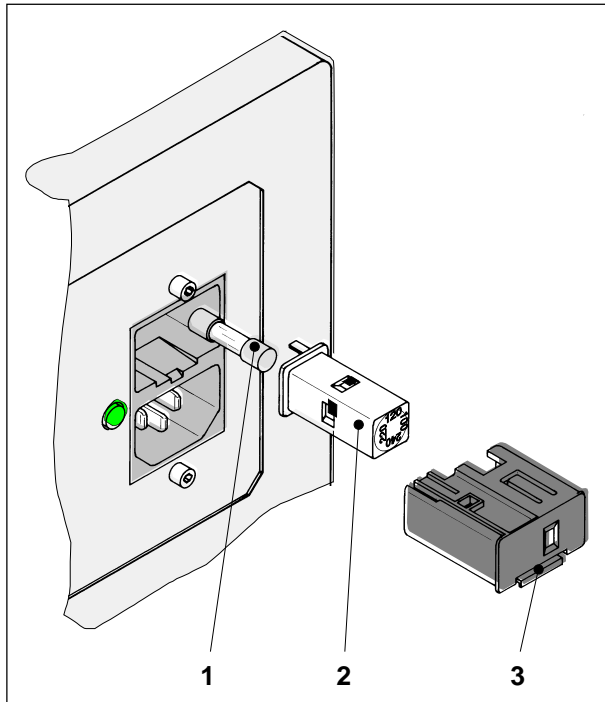
Max. voltage fluctuations: +5/-10%

Adjustment of the required supply voltage

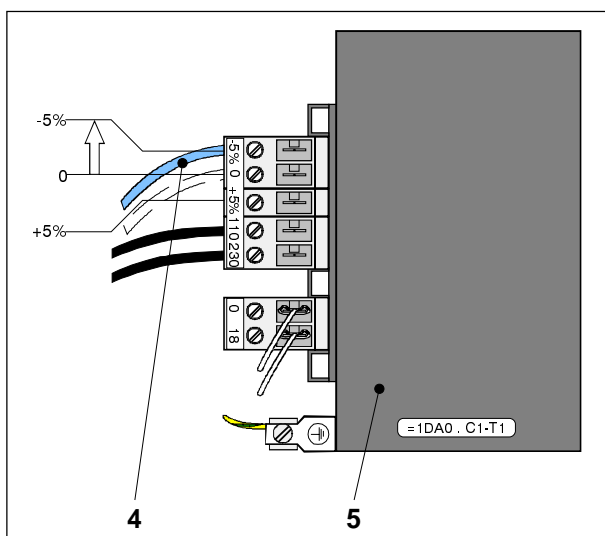
- Push up the latch on the casing (3) and remove the casing with the fuse (1) and the selector pin (2).
- Turn the selector pin (2) in such a way that in the window of the casing (3) the following voltage setting appears:

Mains supply	Setting in control window
*100V-mains	setting 100V + transformer
110V-mains	setting 120V
230V-mains	setting 220V

- Put the whole unit with fuse (1), selector pin (2) and casing (3) again into the socket.



Adjustment of the supply voltage



100V-voltage adjustment on the transformer



Attention:

With the 100V mains supply there has to be done a modification on the transformer of the machine!

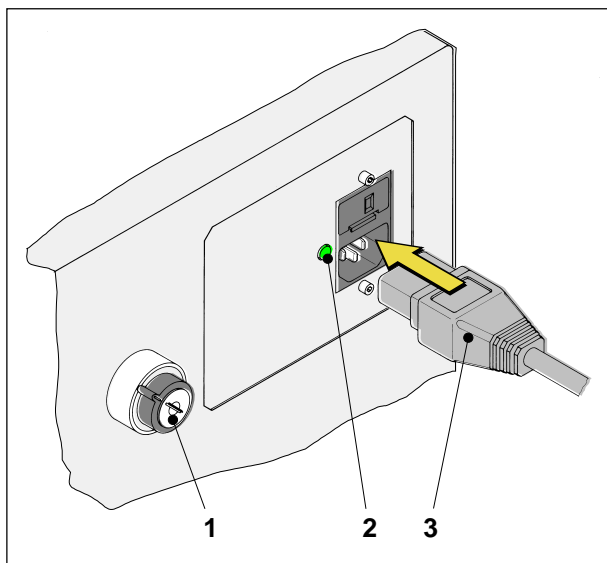
Modification on transformer for 100V mains supply



Danger:

Modifications in the electric cabinet may only be carried out by an electrician expert.

- Unscrew cover of the electric cabinet on the rear side of the machine.
- Connect blue core (4) on the transformer (5) from setting "0" to setting "-5%".
- Remount cover of electric cabinet.



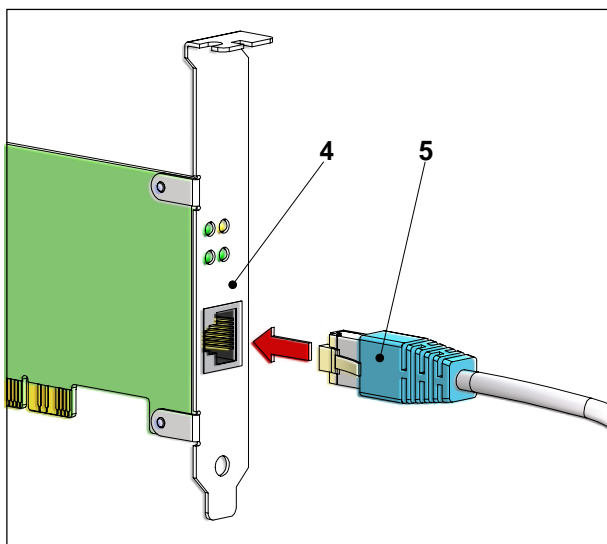
Power connection of the machine

Connection of the power cable

- Plug in the power cable (3) at the machine and the other end at a socket with ground wire contact.
- The LED (2) shows you the main supply, when main switch (1) is switched on.

Connection machine - PC

The machine is controlled by a PC. You can use either the PC keyboard as input device or the control keyboard which can be obtained as accessory from EMCO.



Connection machine - PC-network-card

Note:

To enable the connection of the machine with the PC, a network-card must be mounted and installed in the PC.

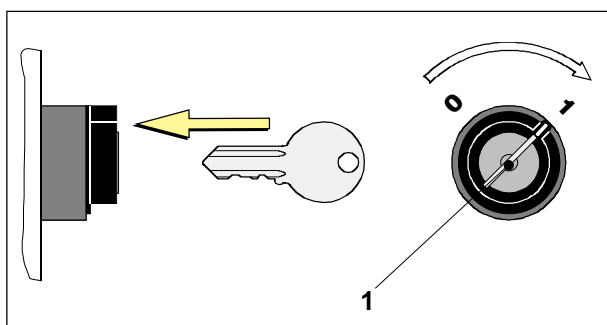
Mounting, installation and network adjustments see WinNC-Control descriptions, chapter "Installation".

Network card:Ethernet-network

- Plug in network-cable of the machine with the connector (5) at the connection of the network-card (4).

Initial start-up

- Machine is to be cleaned from rust preventive agent with a clean cloth.
- Establish power connection.
- Switch on machine at key switch (1).



Key switch on the machine

Note:

If the machine is not used for a longer period of time, slightly oil blank parts, protect machine against unauthorized start-up (take off key) and cover machine with dust protection.

Technical data of the machine

Working area		
centre height	[mm]	65
distance between centres	[mm]	280
swing over bed	[mm]	ø130
swing over cross slight	[mm]	ø60
max. part length	[mm]	215
max. turning diameter (chuck-parts with tailstock)	[mm]	ø52
travel of cross slide (useable)	[mm]	48
travel of longitudinal slide (useable)	[mm]	236
Headstock		
spindle nose according to manufacturer's standard		
hole through work spindle	[mm]	ø16
inner taper		MT2-shortened
chuck diameter	[mm]	ø74
clamping plate diameter	[mm]	ø90
spindle speed range	[rpm]	120 – 4000
mechanical speed steps		2
Torque at the main spindle	[Nm]	max. 14
Drive motor		
3-phase AC-motor		
nominal motor speed	[rpm]	1400
capacity	[W]	750
Feed motors		
step resolution	[µm]	0,5
working feed in X/Z (infinitely variable)	[mm/min]	0 – 2000
rapid traverse in X/Z	[mm/min]	2000
maximum feed force X/Z	[N]	1000
Medium positioning variation X/Z according to DIN VDI 3441	[µm]	6 / 8
Tool turret		
number of workholders	[1]	8
workholders internal / external	[1]	4 / 4
Shank section for ext. tools	[mm]	12 x 12
Shank bore for int. tools	[mm]	ø10
Tailstock		
centre sleeve diameter	[mm]	22
stroke of centre sleeve	[mm]	35
tailstock taper		MT 1

Subject to technical modifications!

Electrical connection		
power supply, reversible	[V~]	100/110/230
maximum voltage fluctuations	[%]	+5/-10
frequency	[Hz]	50/60
connected load	[kVA]	0,85
main fuse	[A-slow]	12
Machine dimensions, weight		
Height of the turning axis above floor	[mm]	320
total length x total width x total height	[mm]	840 x 696 x 395
total weight of the machine	[kg]	85
Sound pressure level		
Medium sound pressure level	[db(A)]	65
With the following conditions		
Measuring method: enveloping surface according to DIN 45635		
Operating mode: maximum speed during idle running		

PC-Configuration

Computer components	Minimum configuration
IBM or IBM compatible	Celeron 700 MHz
Hard disk	10 GB
Drives	3½" floppy drive CD-ROM drive
Operating system	Win 9x, NT, 4.0, 2000, XP
Main memory	128 MB
Graphics card	8 MB VGA colour graphics card
Screen	Colour screen 14"
Keyboard	MF-2
Network-card to connect the machine with PC	10/100MB LAN with RJ45-plug connection
USB-interface to connect external control keyboard to PC (Accessory)	up from USB 1.0

Subject to technical modifications!