#12TD138E

Technical Data

Manufacturer's data

Machine designation:	Underfloor Wheel Lathe

Type: **U2000**

Machine No.: 101 280

Year of manufacture: 2003

Manufacturer: Hegenscheidt-MFD GmbH & Co. KG, Erkelenz

Client: Tram S.A. Athen

Machine data

Weight: Complete weight of the machine 17.000 kg

Dimensions / required space: Machine arrangement plan (Hegenscheidt Dwg. No. 1009544-0..1)

Noise emissions

Sound power level L _{WA} :102	dB(A)
Sound excess pressure level L _{PA} :81	dB(A)
Max. value of sound pressure level LPC peak:99,9	dB(C)

The above mentioned values were measured in accordance with DIN 45635 during official acceptance at the manufacturing plant.

The values measured at the place of installation might be divergent.

Connections/Consumption

Hydraulic unit:	Operating pressure	Litres MPa
Gears:	Filling volume	Litres

Speeds

Mataus		
Motors:	Drive motor (rev. _{max)} 6500	min -1
	Feed motor3000	min -1
	Hydraulic motor	min -1

Machine data

Track gauge	1435	mm	221
Distance between inside surfaces of (/	tyres Ar) 1382 ^{+1,5} /	-0,5 m	ım
Maximum axle length	2289	mm	100
Maximum tread diameter to be machined	660	mm	
Minimum tread diameter to be machined	610	mm	
Tyre width	84	mm	
Maximum axle load	300	kN	
Cutting speed (profile machining)	40-80	m/min	
Cutting speed at measuring circle lev (brake disk machining)	el . max. 305	m/min	
Feed	0-2,5	mm/rev	

Electrics

Mains connection:	Rated power96	kVA
	Rated voltage400	V
	Mains voltage tolerance10/+6	%
	Mains frequency50	Hz

		V / 50 Hz
frequencies:	Voltage solenoid valves24 Voltage inputs/outputs24	

Main Drive2 x 30	kW
Hydraulic pump7.5	

Machine control system:	SIEMENS Sinumerik 840 DE
Machine Control System.	SIEWENS SITUMENK 840 DE

Serial port (if existing):

Motor power ratings:

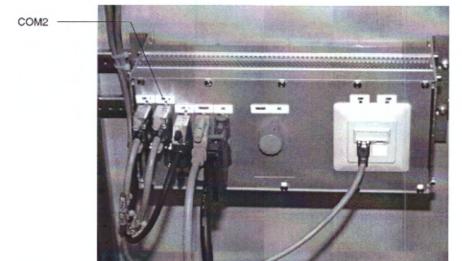
Pin arangement

At the CNC control the port COM2 for serial data transfer is

This port is named X7 and is located on the

MMC-CPU of the SINUMERIK 840D/DE (back side of system monitor).

This as well as other interfaces of the MMC CPU have been transferred to the electrical cabinet for better accessibility. The line for "serial data transfer" must be plugged into the COM2 port in the electrical cabinet.



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The allocation of signals on the 9-pole D Sub plug on the MMC or, respectively, on the interface box in the electrical cabinet is as follows:

Pin	1 2 3 4 5	DCD RxD TxD DTR Mext	Data Carrier Defect Receive Data Transmit Data Data Terminal Ready
	6	DSR	Data Set Ready
	7	RTS	Request To Send
	8	CTS	Clear To Send
	9	RI	Ring Indicator

The cabel connection should include all above listed signals.

Port configuration

The used port COM2 is to be configured by the operating system as followed:

Baudrate	2400
Datenbits	8
Startbit	1
Stopbits	1
Protocol	Hardware
Parity	None

The same configuration has to be set to the external computer.