



ERNST
INDUSTRIEANLAGEN
GMBH

Specialized in used heavy machine tools from

WALDRICH SIEGEN

WALDRICH COBURG

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
Tel. +49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
email: maschinen@web.de www.ernstmachines.de



CNC Turbine/Roll Lathe WALDRICH SIEGEN, Model DH 1600/35 CNC x 12000-1 YOM 1989, with hydrostatic guide ways in z and x axis, initial start up 4/1990 option: new 3 axis CNC control SINUMERIK 840 DsL, new electric, new wiring, new tail stock , ser. no. 13.152



machine at production place GE in Birr/Switzerland
the machine was only used in finishing of turbine shafts and is in a new mechanical condition.
We do guarantee a new machine accuracy!

techn. details

- Hydrostatic guide ways in z axis
- Hydrostatic guide ways in x axis
- Hydrostatic worm drive in z axis
- C axis in face plate
- Workpiece measuring in upper carriage



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working area		
max. turning- \varnothing over saddle	mm	1.600
distance between centers	mm	12.000
max. work piece lengths	mm	11.800
max. work piece weight	t	40

head stock		
power at main spindle	kW	136
revs at face plate	min-1	1 – 240
step 1	min-1	1 – 60
step 2	min-1	4 – 240
base speed	min-1	15

face plate with C axis with clamping system		
face plate - \varnothing	mm	1.200
clamping area outside, min – max	mm	105 – 1.000
no. of clamping jaws	no.	4
max. torque at face plate	Nm	80.000
center angle	degree	60

carriage		
no. of carriages	no	1
travel way Z - axis	mm	13.500
travel way X - axis	mm	700
traverse X - axis	mm/min	0 – 4.500
traverse Z - axis	mm/min	0 – 4.500
rapid traverse X - axis	mm/min	4.500
rapid traverse Z - axis	mm/min	4.500
upper carriage with measurement system for work pieces		

The machine doesn't have a tailstock, because the user produced the turbine shafts on 2 stadies
Option 1: a new tailstock

tailstock		
dia. of quill	mm	360
movement of quill	mm	100

measurements		
machine lengths	mm	20.000
machine widths	mm	5.000
machine heights, above floor level	mm	2.400
machine weight	t	105
electrical conditions	V/Hz	380/50



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hydrostatic steadies

no. of steadies	no.	2
clamping area	mm	125 - 650
max. work piece weight	t	20
no. of quills	no.	3
rapid traverse	mm/min	2.150

accessories

- 1 piece of chip conveyor
- 2 pieces of hydrostatic steadies, with 3 quill, 20 t each, 200 – 650 mm
- 1 piece conventional steady
- 1 integrated measurement system in upper carriage for workpiece measurement
- integrated C axis in face plate with clamping

delivery conditions

delivery time

the machine as/where is direct after order
remanufacturing and assembly after 5 month

payment

- 100 % for the machine as/where is via irrevocable LC
- 70 % down payment for the option
- 20 % at beginning of installation
- 10 % after commissioning against a bank guarantee

With best regards





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upper carriage with tool holder and work piece measurement



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headstock, face plate with C axis and clamping, hydrostatic steady

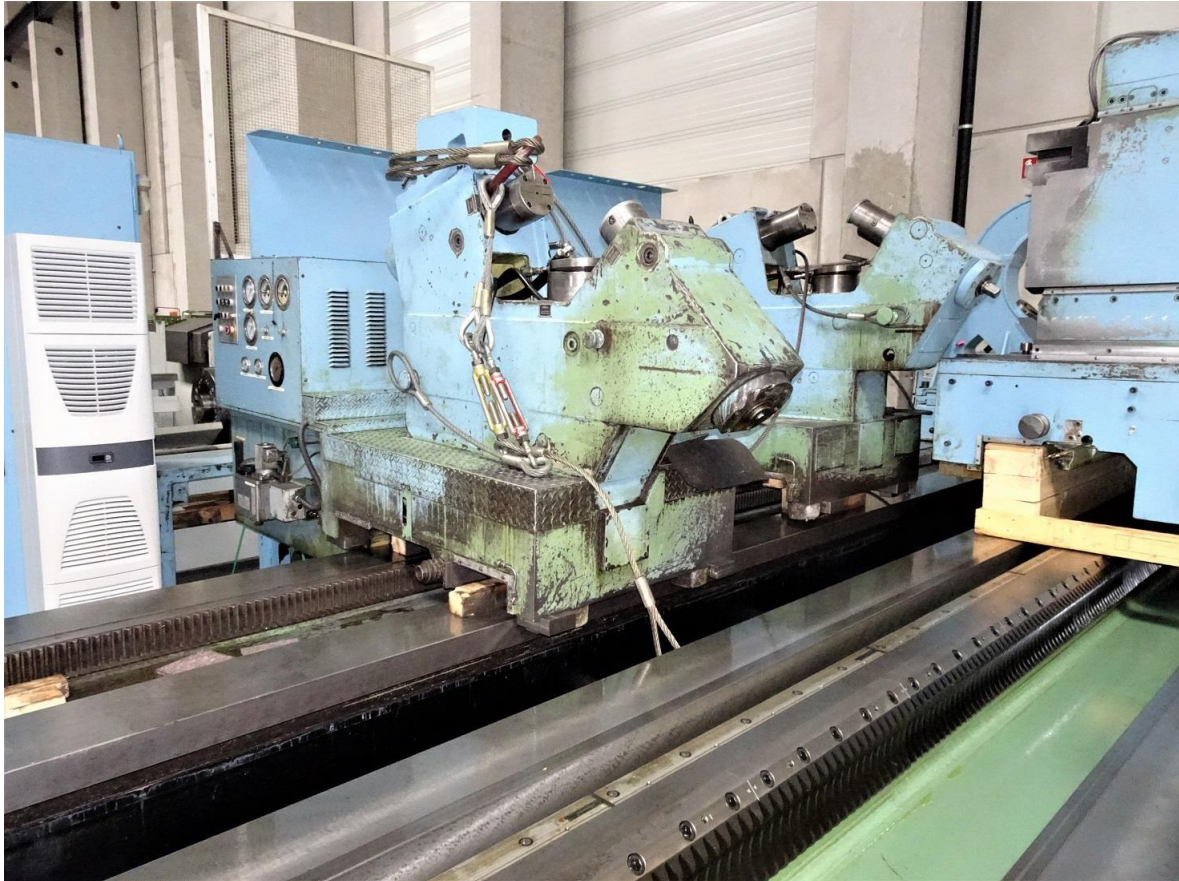


used as turbine rotor finish lathe

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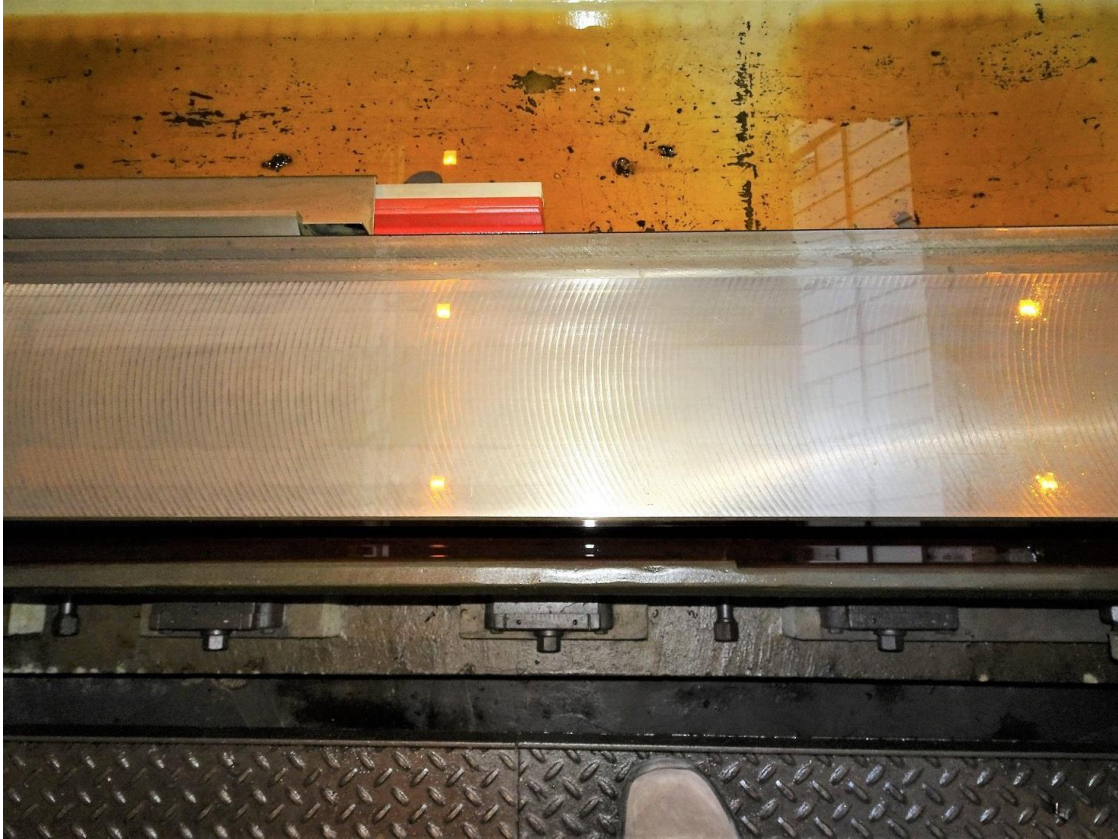
hydrostatic steadies with 3 quills per steady

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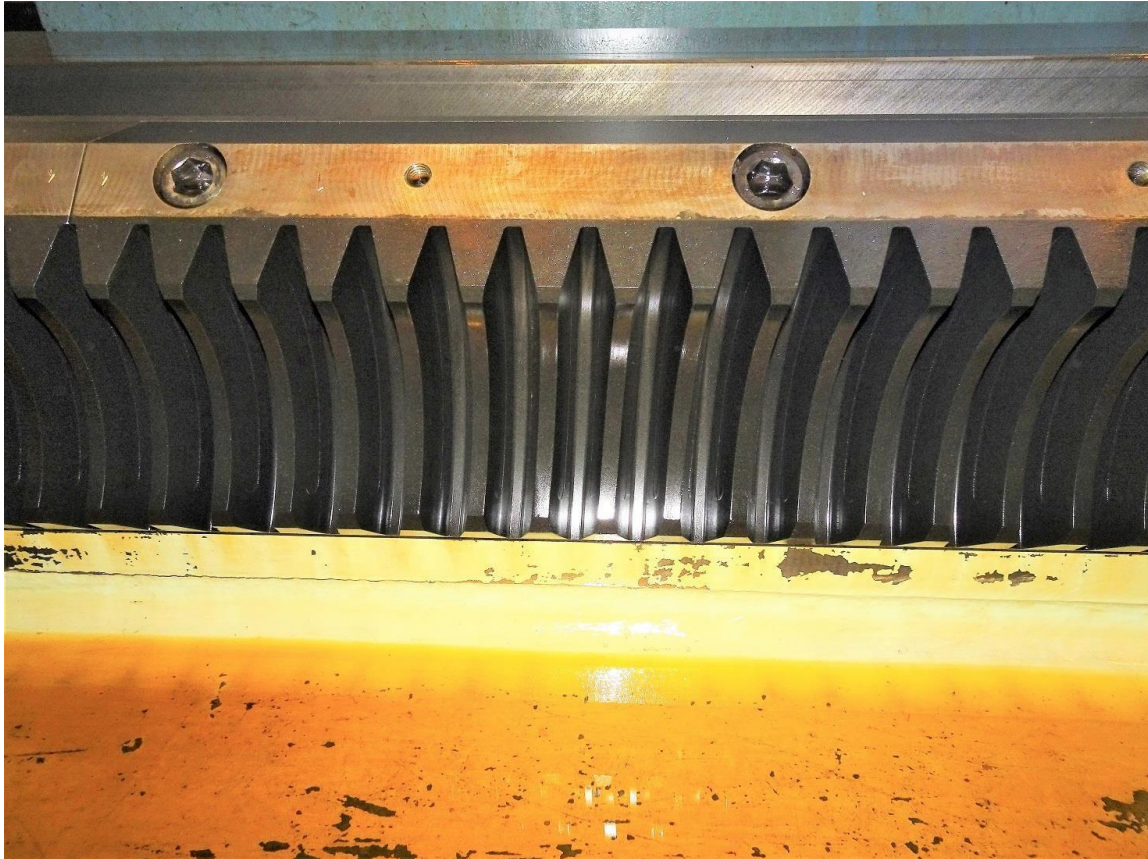


hydrostatic guide ways in X and Z axis

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hydrostatic worm drive for the carriage

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guide ways and hydrostatic worm drive like new

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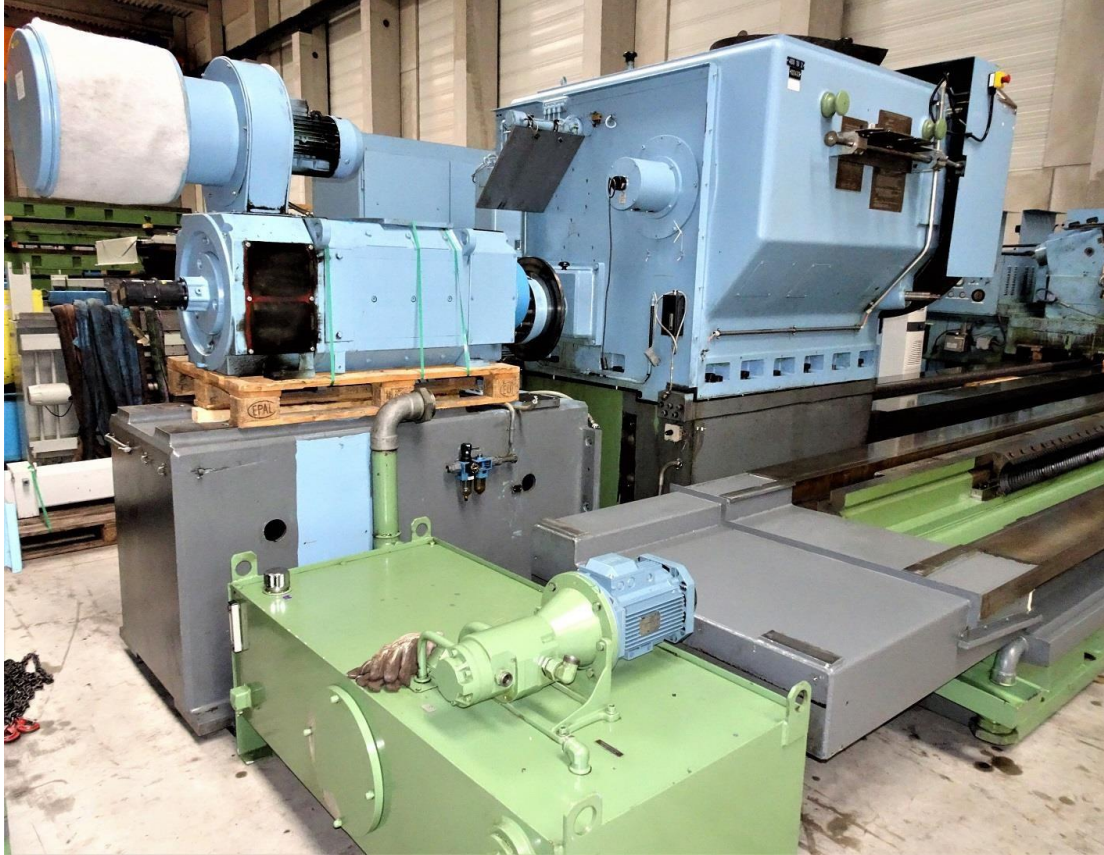


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option 1: new tailstock

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machine stored in our warehouse in Freudenberg

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machine in top condition, like new



option 2: new CNC control SINUMERIK 840 DsL



option 2: new electric cabinet

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take high way no. 45 (Dortmund to Gambacher Cross), exit Freudenberg,
from direction Dortmund, turn left, at the traffic light turn left, then direct left again,
from direction Gambacher Cross, turn right, at the traffic light turn left, then direct left again,
Spedition Bender, first building on the left side, door 24