

teco – werkzeugmaschinen gmbh & co kg

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(Preliminary and incomplete description)

Subject to prior sale and our delivery conditions we can offer:

Stock-No. 9003

Gear Grinder
CNC HÖFLER MEGA 4500, new 2000
New price over 3 Mio. Euro

Gear grinding was never faster, more accurate, flexible and easier

The machine can grind spur and helical gears in one flank -, two flank- or contact line grinding. The machine is absolute wear-free through double clamped hydrostatic guides. Additional details: 2-bed construction. Cast iron for machine bed, column and outer steady is reducing vibration by thermostatic. Full automatic grinding cycle to finished size. Integrated measuring system for profile, flank line and pitch.

DIN 3-4 accuracy is possible under normal production conditions

Main data:

CNC control SINUMERIK 840 C

Integrated MMC-PC with Windows system

Digital drives SIMODRIVE 611D

Rotary current – linear motor IFNI and rotary current servo motors 1FT6

19" rack with a 10,4" coloured TFT display, CNC keyboard, softkeys and integrated floppy disc

HÖFLER software, hand control with electronic hand-wheel, modem, working cycle control for one flank -, two flank- or contact line grinding

HÖFLER 4-axes CNC dressing device

Dynamic grinding wheel balancing device, positioning of grinding wheel, start grinding automatic, high speed grinding spindle, crowning, hydraulic device, oil cooling device, grinding oil device with band filter, steel cabinet with oil mist exhauster

Technical data:

| | |
|--|-----------------------|
| Min./max. gear diameter | 300 - 4000 mm |
| Max. face width | 980 mm |
| Min/max. module | 2 – 34 mm |
| No. of teeth | free choosing |
| Min./max. helix angle left + right | 35 ° |
| Min./max. pressure angle | 12 – 30° |
| Table diameter | 1900 mm |
| Max. table load | 35000 kg |
| No. of teeth of dividing gears | 480 |
| Peripheral speed of grinding wheel | 35 or 45 m/s |
| Min/max diameter of grinding wheel / width | 300/400 / 45 mm |
| Special drive of grinding wheel | 30 kW |
| Voltage | 400 V 50 Hz |
| Total power required | 160 kVA |
| Machine weight approx. | 70 t |
| Space required l x w x h, approx. | 7200 x 6600 x 4100 mm |

Accessories:

Measuring system for profile, flank line and pitch on the machine

Today two versions of gear grinding machines are made by Messrs Höfler. One is the Profile Grinder and one the Conventional Hob/roller motion guided grinder. Both systems have their advantages and disadvantages.

Profile Grinding machines have a higher productivity, however, they require for any new tooth another grinding wheel. On the Conventional Höfler machine grinding is done with one and the same grinding wheel for nearly all profiles. On a Conventional Höfler it is also easier possible and no problem to grind corrections.

Price:

ex location, unpacked, uninsured

€ _____,-

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Error in dimensions, accessories and technical details accepted