



CNC ALL-AUTOMATIC WOOD TURNING LATHE CHALLENGE-2000

for industrial scale manufacture with parts ready for lacquer

For industrial scale manufacture and to satisfy highest demands on precision and in case of extremely complex parts, the CHALLENGE-2000 presents all technical advantages, which are characteristic for an efficient all-automatic CNC wood turning lathe. The CHALLENGE-2000 is capable of turning, milling, grooving, graving, drilling and grinding. As an option, we offer this machine with a laser scanning equipment to scan original workpieces.

DISTANCE BETWEEN CENTRES: 2.000mm, 2.500mm (with swivelling tailstock)

COPYING LENGTH: 1.800mm, 2.000mm (with swivelling tailstock)

COPYING DIAMETER: max. 360mm (without magazine operation)

BESONDERE MERKMALE DER CHALLENGE-2000:

- Bearing of the slide on linear guideways with servodrives.
- Option: lathe tool swivel device for a continuous cut, even for balls and grooves.
- 5-axis machining with roughing and finishing tool
- PC controlled belt grinding unit for centerless and surface grinding on round profiles
- Turning and grinding in one single operation.
- Simple and practice oriented operation with specific turning functions.
- Due to the utilization of simple 2D CAD-software, very little training is necessary.
- Utilization of common, commercially available PC hardware.
- Production of many workpieces from wood-bar is possible.
- Groovings can be realized with as many graduations and leads as you like by means of the unit adjustable in height and swivelling in several senses.

DRIVE: regulated servodrives with speed range from 0 to 4000 rpm.

DIMENSION (STANDARD): L= 3.500 mm (4.800 mm with open sliding door), ,
W=1.600 mm (2.300 with magazine), H= 1.900 mm

WEIGHT (STANDARD): approx. 1800 kg depending on type

5-AXIS MACHINING WITH ROUGHING- AND FINISHING TOOL



Roughing tool for higher feed and cutting performance. Simultaneous use of the finishing tool for finest contours in combination with swivel tool. Automatic recognition by the control system of roughing or finishing tool.

AUTOMATICALLY SELF-CENTERING MAGAZINE



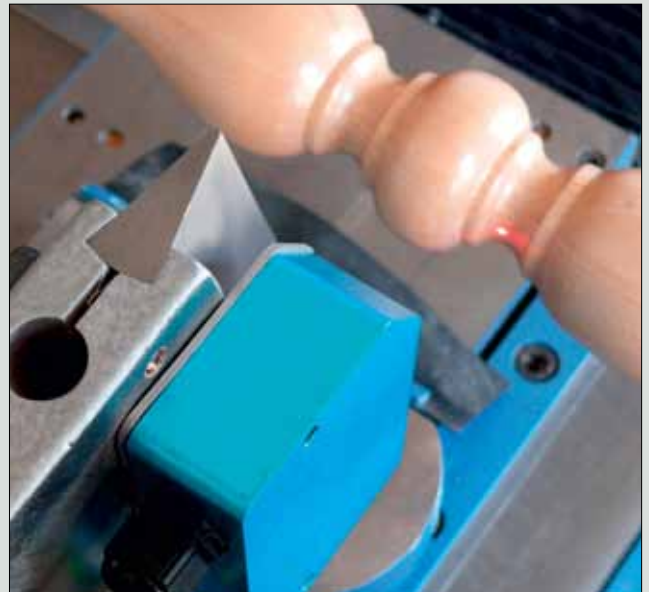
The new self-centering magazine is positioning planed wood as well as sawing raw wood, with cross sections up to 20 mm, exactly between centres. The length is quickly adjustable between 200mm and 1600 mm.

GRINDING DEVICE



The PC-controlled belt grinding unit for centerless and surface grinding is acting simultaneously to the turning operation, without any loss of time, in one clamping position.

LASER SCANNING



Laser scanning device available as an option, to scan the original part, rework it on CAD and reproduce it as many times as necessary

Specifications subject to change!