

hapfo – AUTOMATIC LATHES QUALITY AND RELIABILITY SINCE 1975



hapfo CHALLENGE-5000

CNC ALL-AUTOMATIC WOOD TURNING LATHE CHALLENGE-5000

for industrial scale manufacture with parts ready for lacquer



For industrial scale manufacture and to satisfy highest demands on presision and in case of extremely complexe parts, the CHALLENGE-2000 presents all technical advantages, which are characteristic for an efficient all-automatic CNC wood turning lathe. The CHALLENGE-5000 is capable of turning, milling, grooving, graving, drilling and grinding.

DISTANCE BETWEEN CENTRES: 1600mm

COPYING LENGTH: 1.300mm

(depending on accessories like chucks, live centres, steady rests...)

COPYING DIAMETER: max. 300mm (without magazine operation)

SPECIFIC CHARACTERISTICS OF THE CHALLENGE-5000:

- Headstock and machine bed made of grey cast iron
- Pretensioned spindle bearing without backlash with thread M33 and MT3, hollow shaft for vacuum device.
- Bearing of all linear axles with linear guideways.
- Tailstock made of grey cast iron, controlled by the program or even manually, Actuated with a pneumatic cylinder, pressure can be adjusted by pressure relief valve, MT3
- optional you can get the swivel-tool accessory for continuously cutting of balls and 90° recesses in both directions



- All kind of followers are available even for turning of very thin and long parts
- besides there is a sanding unit available, which can be controlled by the program to change between pointed and flat sanding
- simple programing of any machine parameters
- less training necessary due to standard 2D-CAD-Software
- Small parts can be made in "Bar"-Mode.
- Millings and groovings are possible in any thread or pitch with our milling attachment.

DRIVE:

Frequency controlled motor. Infinitely variable by program.

Optional CNC-controlled servo-drive motor for spindle speed from 0 to 3500 rpm

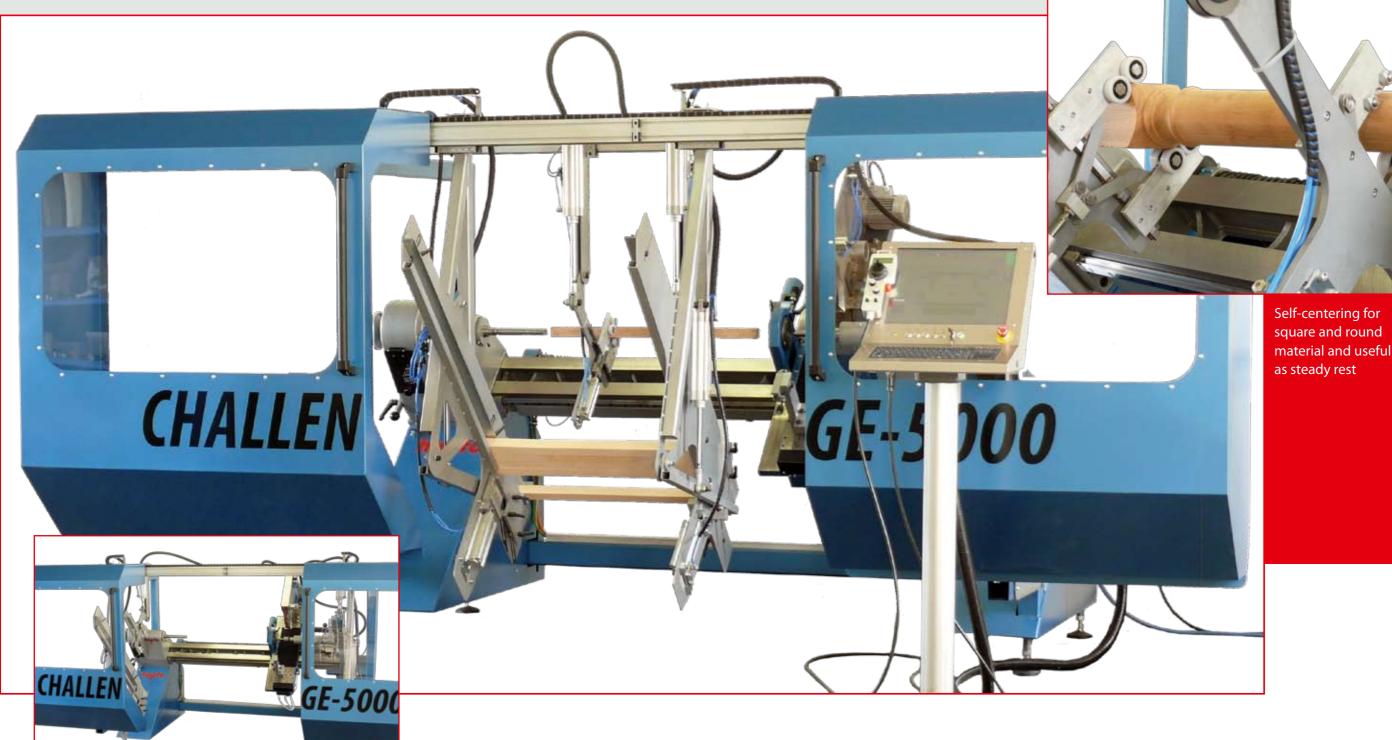
DIMENSIONS (STANDARD): Width = 3050mm (4600mm with opened sliding door),

Depth =2300, Height = 2.200 mm

WEIGHT (STANDARD): app. 1800kg depending on model and accessories

hapfo CHALLENGE-5000

MAGAZIN

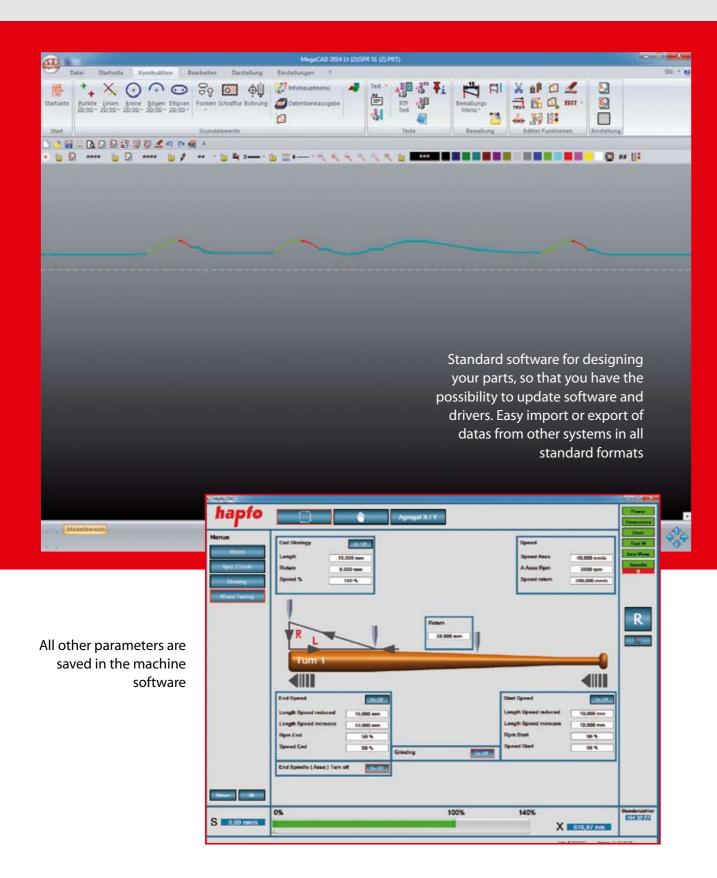


For initial samples or unique parts, you can move the whole hopper system beside, so that you have absolutely free access to the machine The new hopper system combines the experience of several generations before with some new and very beneficial details. It is self-centering either square or round wood. Due to the rollers in the gripper, the system can be also used as an software controlled steady rest for very thin parts, which reduces production time.

Due to the inside position of the gripper, even distorted wood can be used more efficiently. The handling and operation of the machine can be done completely from the frontside. The machined parts can be removed either from front or backside of the machine

The gripper system can be also used as centering device for initial samples or unique parts of a dimension of 130mm square. The length of the raw material can be adjusted between 140mm and 1300mm. Optional you can mount it to a length of 100mm.

SOFTWARE AND PROGRAMMING



hapfo

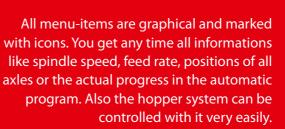
Software and programming

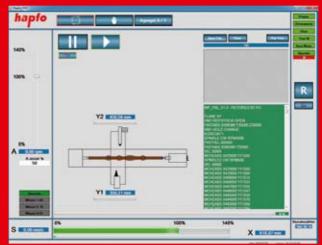


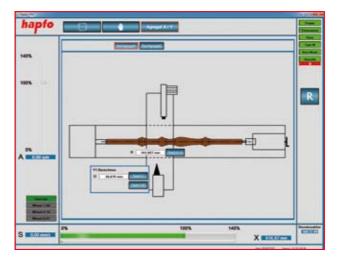


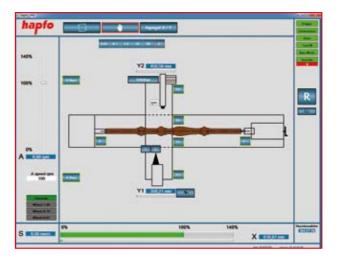
HANDWHEEL FOR MANUAL AND AUTOMATIC MODE

With the new handwheel you can control either each axle separately in manual mode, or even control spindle speed and feed rate infinitely variable in the automatic mode. You can use it ale for START, PAUSE or STOP of the program.











Your dealer





