

hapfo - CNC WOOD TURNING LATHES
Quality & Reliability since 1975



CNC WOOD TURNING LATHES 5000-CNC / 7000-CNC

hapfo 5000-CNC 7000-CNC

Easy operating with graphical user interface



For large scale manufacturing and to satisfy highest demands on precision, hapfo CNC-lathes presents all technical advantages, which are characteristic for precise and powerful machines built of heavy grey cast iron and first-class workmanship made in Germany.

SPECIFIC CHARACTERISTICS OF THE 5000-CNC:

DISTANCE BETWEEN CENTRES : 1.600 mm (calculated with short six-pronged dog and short live centre)
COPYING LENGTH: 1.480mm (calculated with long six-pronged dog and long live center and four-jaw back rest. By using the ring-follower rest, additional 120 mm must be deducted). **HEIGHT BETWEEN CENTRES:** 250 mm

- Headstock and machine bed in high quality grey cast iron with milled and polished bed slideway.
- Bearing of the hollow shaft free from backlash (suitable for connection of vacuum device) with thrust M 33 and inner cone MK 3.
- Bearing of the slide on linear guideways with servodrive.
- Tailstock in massive grey cast iron with eccentric quick clamping and cone MK3
- Production of thin parts is possible due to follower rest.
- The use of the ring-follower rest and steel for rough cutting make the planing of the feedstock unnecessary.
- Option: lathe tool swivel device for a continuous cut, even for balls and grooves.

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. Therefore, we offer as an option a simple and robust router unit mounted vertically and fix at height of centres or. An unit adjustable in height and swivelling in several senses to execute any imaginable operation.

DRIVE: standard: 1.4/1.8 kW motor, 400 volts, 3-phase, 50 Hz, speed: 400-800-1.000-1.250-1.600-2.000-2.500-3.200 rpm.
OPTION: 2.2kW motor, 400 volts, 3-phase, 50 Hz, infinitely variable spindle drive with frequency converter from 0 to 3.000 rpm
 In case of 3-axis version, regulated servodrive with speed range from 0 to 4.000 rpm.

DIMENSION (STANDARD): L= 2600mm B=700 mm, H= 1.230 mm

WEIGHT (STANDARD): approx. 750 kg depending on type



SPECIFIC CHARACTERISTICS OF THE 7000-CNC:

DISTANCE BETWEEN CENTRES: 1.800 mm, 2.900 mm, 3.700 mm (calculated with short six-pronged dog and short live centre)
COPYING LENGTH: 1.620 mm, 2.720 mm, 3.520 mm (calculated with long six-pronged dog and long live center and four-jaw back rest. By using the ring-follower rest, additional 120 mm must be deducted) **COPYING DIAMETER:** 400 mm
EIGHT OF CENTRES: 300 mm

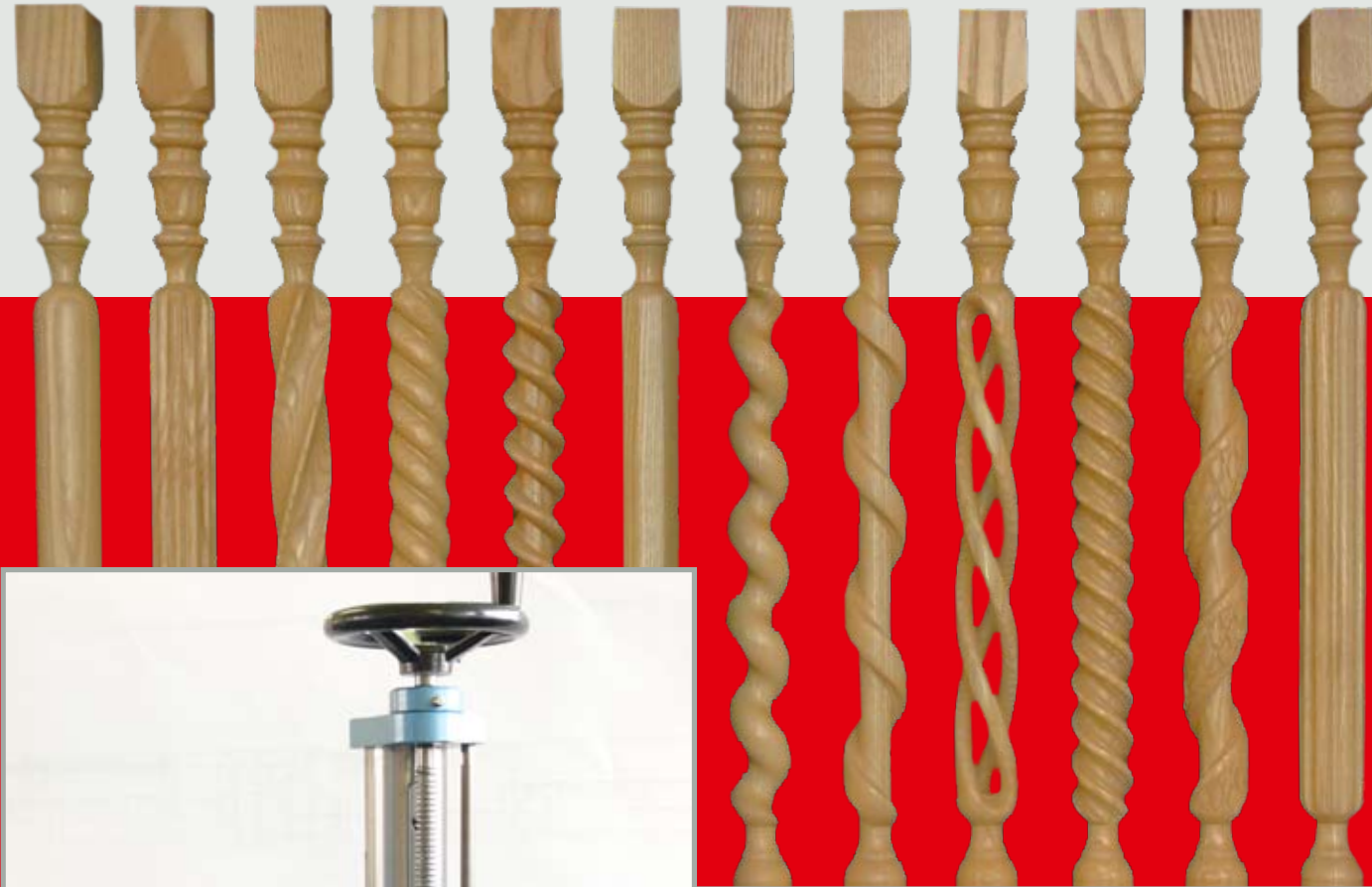
- Headstock and machine bed in high quality grey cast iron with milled and polished bed slideway.
- Bearing of the hollow shaft free from backlash (suitable for connection of vacuum device) with thrust M 45 and inner cone MK 4.
- Bearing of the slide on linear guideways with servodrive.
- The use of the ring-follower rest and steel for rough cutting make the planing of the feedstock unnecessary.
- Tailstock in massive grey cast iron with eccentric quick clamping and cone MK3
- Production of thin parts is possible due to follower rest.
- Option: lathe tool swivel device for a continuous cut, even for balls and grooves.

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. Therefore, we offer as an option a simple and robust router unit mounted vertically and fix at height of centres or an unit adjustable in height and swivelling in several senses to execute any imaginable operation.

DRIVE: 4 kW motor, 400 volts, 3-phase, 50 Hz, infinitely variable speed range from 375 to 2700 rpm. Option: pole-changing motor 2.6/4.2kW for increased speed range from 270 to 3.500 rpm. Safety electricity according to VDE with undervoltage release and lockable switch, index of protection IP 54. In case of 3-axis version, regulated servodrive with speed range from 0 to 4.000 rpm.

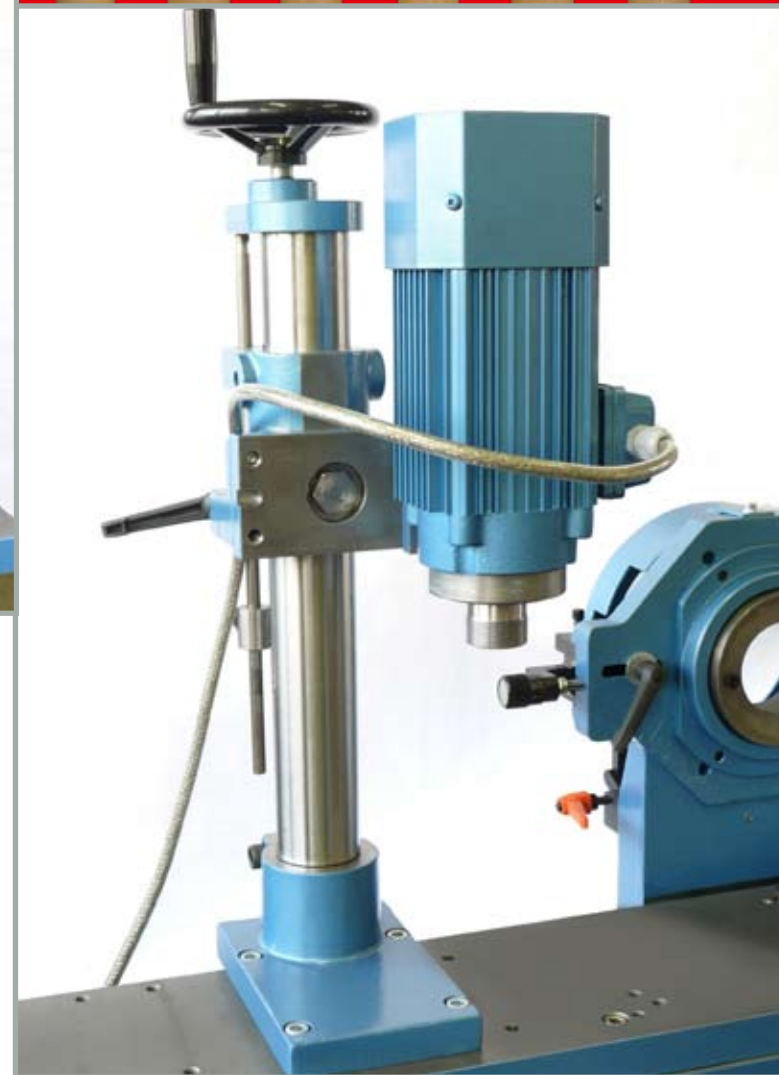
DIMENSION (STANDARD): L= 3250mm, L= 4350mm, L= 5150mm, B=1260 mm, H= 1.300 mm

WEIGHT (STANDARD): approx. 1000 kg to 1600kg depending on type



HANDWHEEL FOR MANUAL AND AUTOMATIC MODE

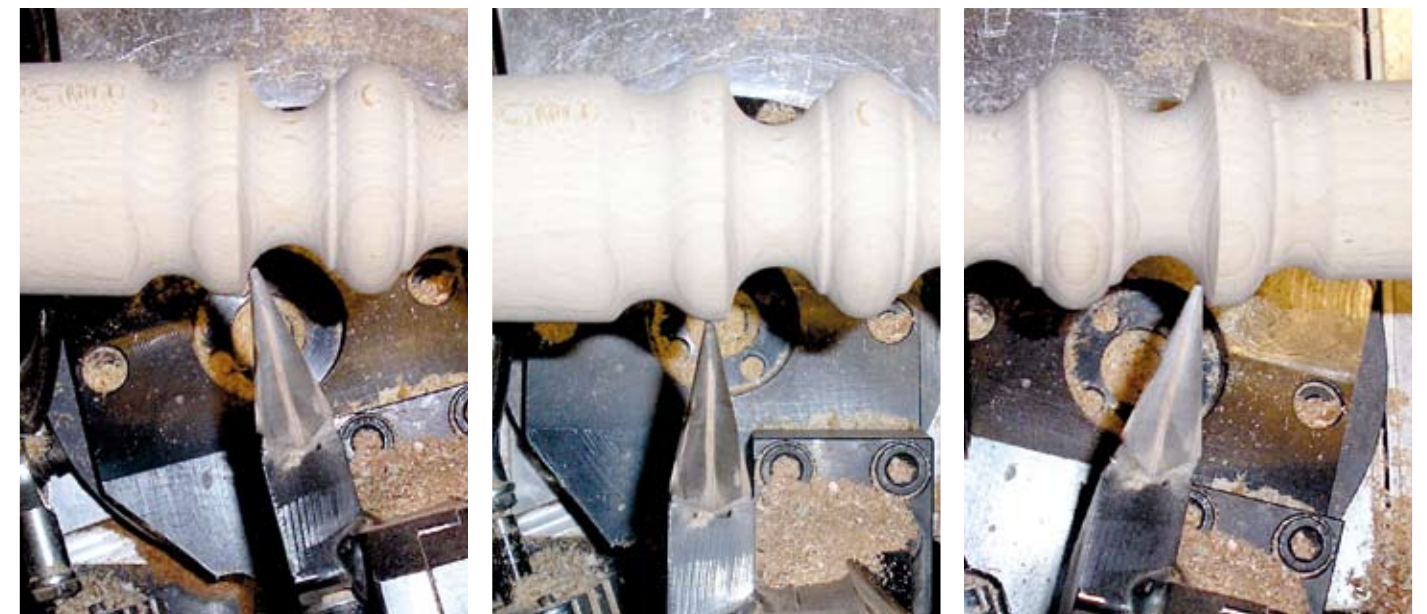
With the new handwheel you can control either each axle separately in manual mode, or even control spindle speed and feed rate infinitely variable in the automatic mode. You can use it also for START, PAUSE or STOP of the program.



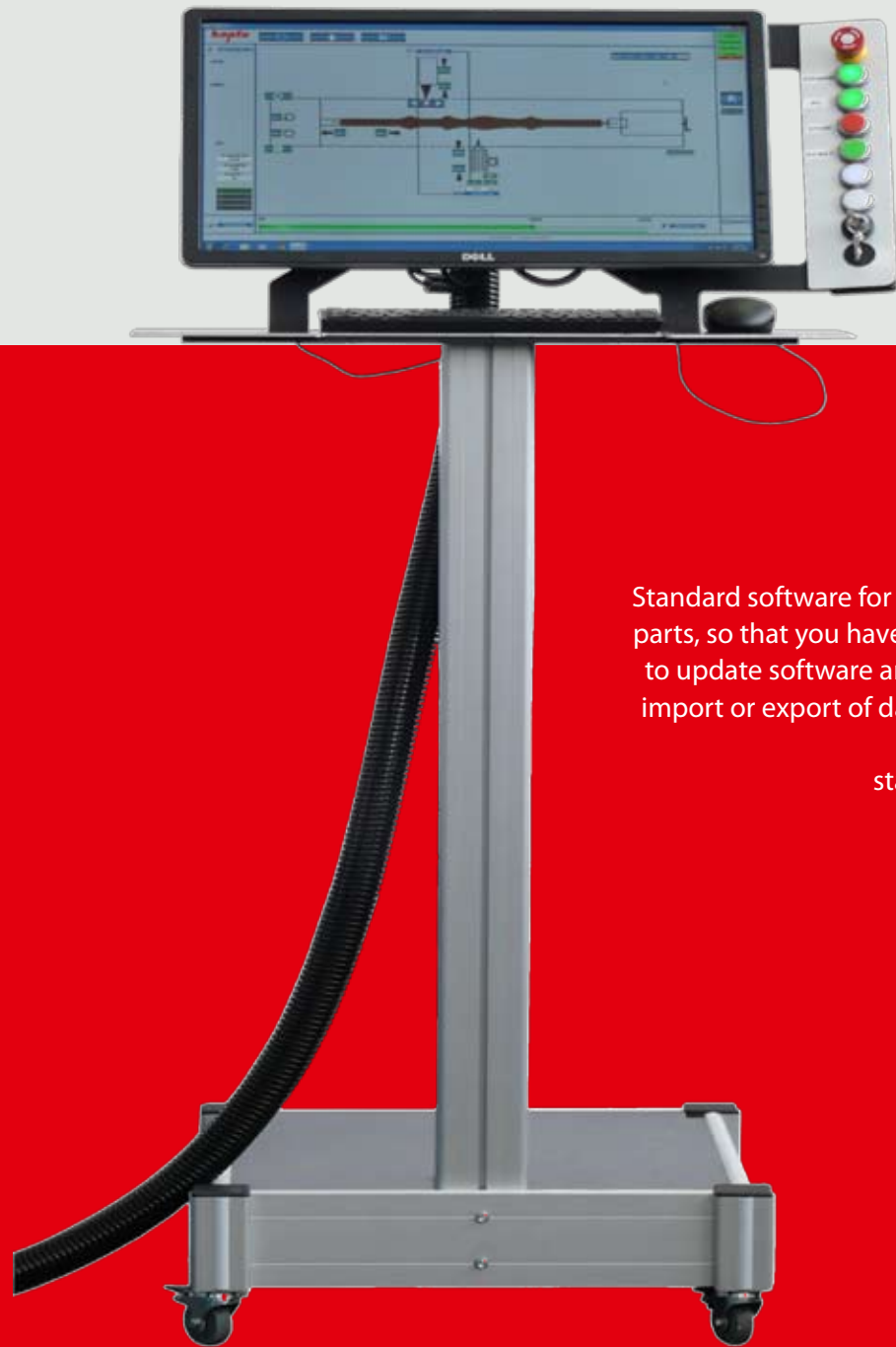
As an option you can get all hapfo CNC-lathes with additional milling-unit for production of any groovings or twists. This attachment can be mounted horizontal, vertical or in any angle to be adapted to any pitch of twists. It can also be used for drilling, engraving or manufacturing of threads.

ATTACHMENT FOR SWIVEL-V-STEEL

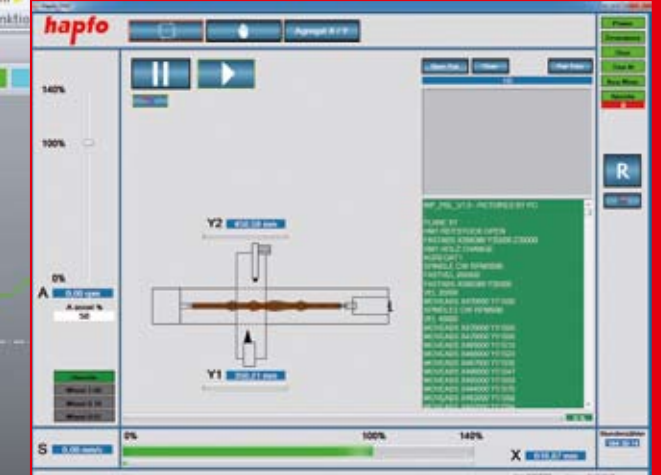
As an option you can choose an attachment for swiveling the V-Steel by the programme. It is possible to turn 90° recesses in both directions without interruption of the turning process. Due to that, you get a better surface quality by even faster production time



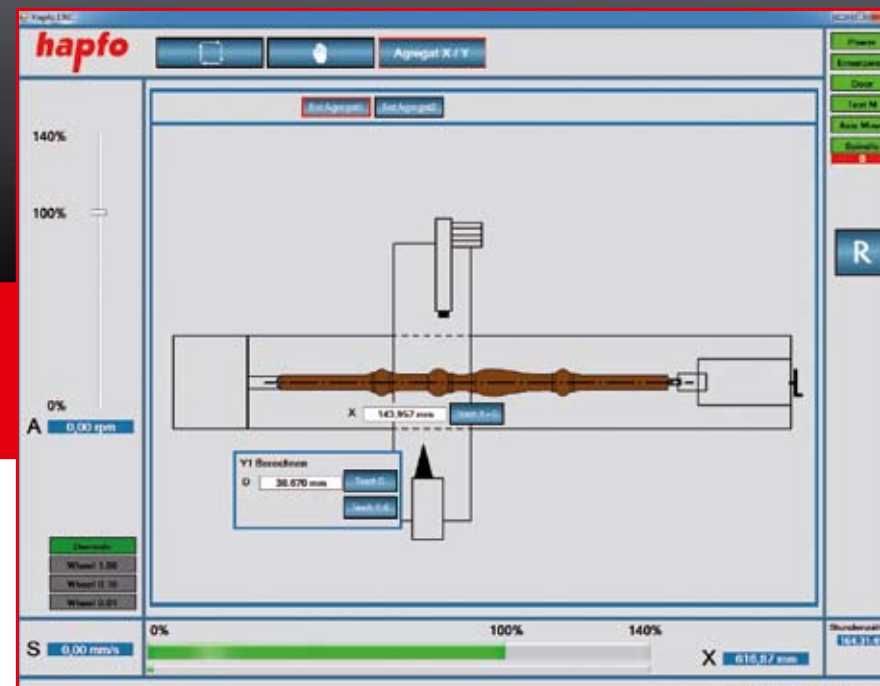
hapfo Software and programming



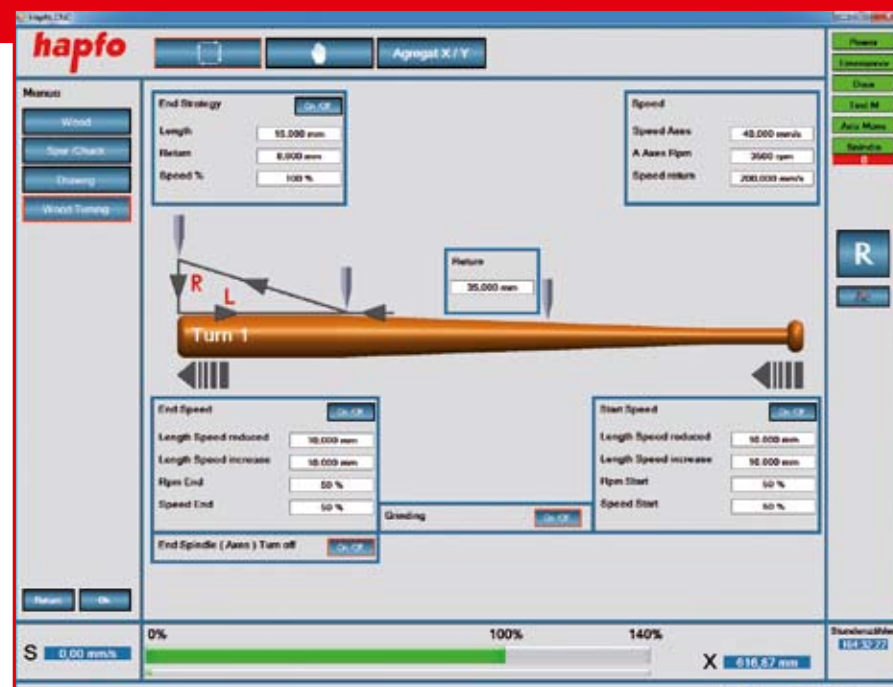
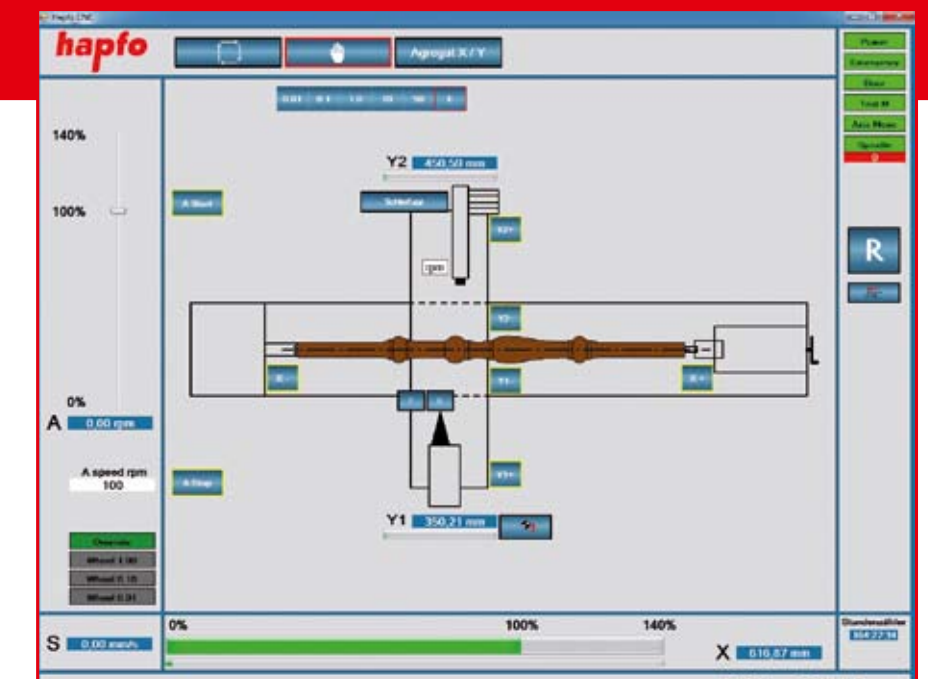
Standard software for designing your parts, so that you have the possibility to update software and drivers. Easy import or export of datas from other systems in all standard formats



All menu-items are graphical and marked with icons. You get any time all informations like spindle speed, feed rate, positions of all axes or the actual progress in the automatic program. Also the hopper system can be controlled with it very easily.



All other parameters are saved in the machine software





Your merchant/trader/supplier:

Titelfoto: Nadine Schachinger - Herzflimmern



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