



# **hapfo** COPYING TURNING LATHES

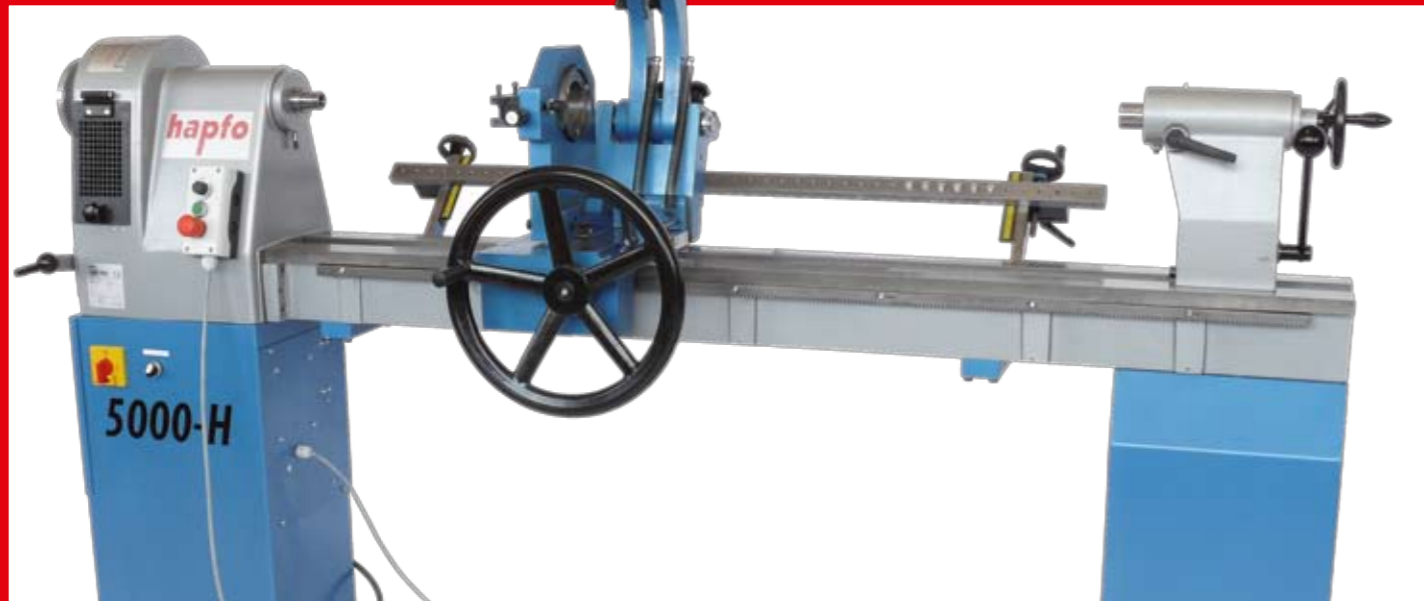
Quality & Reliability since 1975



# COPYING TURNING LATHE 5000-H/ME

**hapfo** 5000-H /ME 6000-ES

with manual feed or feed motor



For small-lot production, the 5000-H presents all technical advantages, which are characteristic for an efficient copying lathe. The 5000-H is a very precise and powerful machine in heavy grey cast iron (no sheet metal construction) and first-class workmanship made in Germany. The 5000-ME feed is equipped with an infinitely variable d.c. gear motor. To increase the production volume, the copying slide has a fast return. Due to the follower rest, the turning of thin parts is also possible.

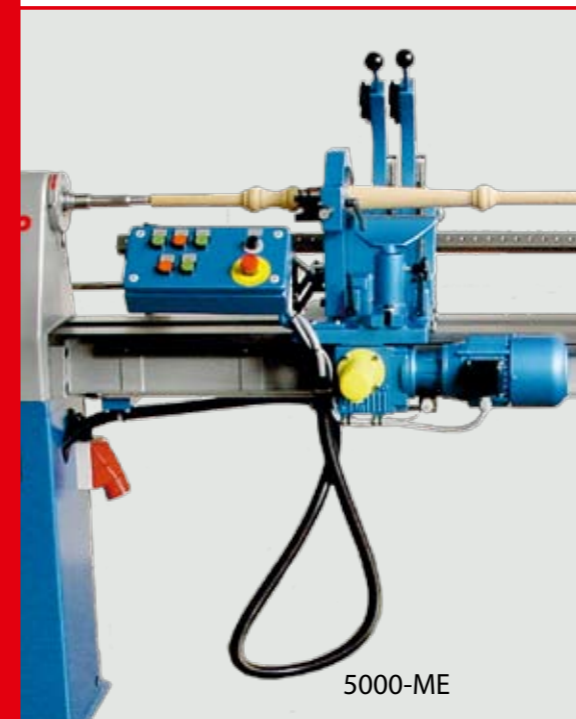
**DISTANCE BETWEEN CENTRES:** 1.400 mm (standard), 1.700 mm, 2.600 mm, (calculated with short six-pronged dog and short live centre) **COPYING LENGTH:** 1.250 mm (standard), 1.550 mm, 2.450 mm (calculated with long six-pronged dog and long live center and four-jaw back rest. By using the ring-follower rest additional 120 mm must be deducted) **HEIGHT OF CENTRES:** 250 mm

## SPECIFIC CHARACTERISTICS OF THE 5000-H AND ME:

- Scanning of the master copy or as option original workpiece scanning
- 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.
- Drive: 1,1/1,4 kW Motor, 400 Volt, 3-Ph. 50 Hz, Drehzahl: 400-800-1.000-1.250-1.600-2.000-2.500-3.200 U/min.
- Option: infinitely variable spindle drive with frequency converter.

## FURTHER CHARACTERISTICS OF THE 5000-H AND ME:

- Tailstock in massive grey cast iron with eccentric quick clamping and cone MK2
- Safety electricity according to VDE with undervoltage release and lockable switch, index of protection IP 54
- Dimension (standard): L= 2.250 mm / 2.550 mm / 3.450 mm, W= 450 mm, H= 1.230 mm
- Weight (standard): approx. 300 to 400 kg depending on type
- 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
- Two copying units for rough-machining and finishing in one operating cycle.
- Max. copying diameter 260mm lengthwise
- Following handrest on slide 160mm
- Option: Handrest (275 mm) with eccentric quick clamping possible

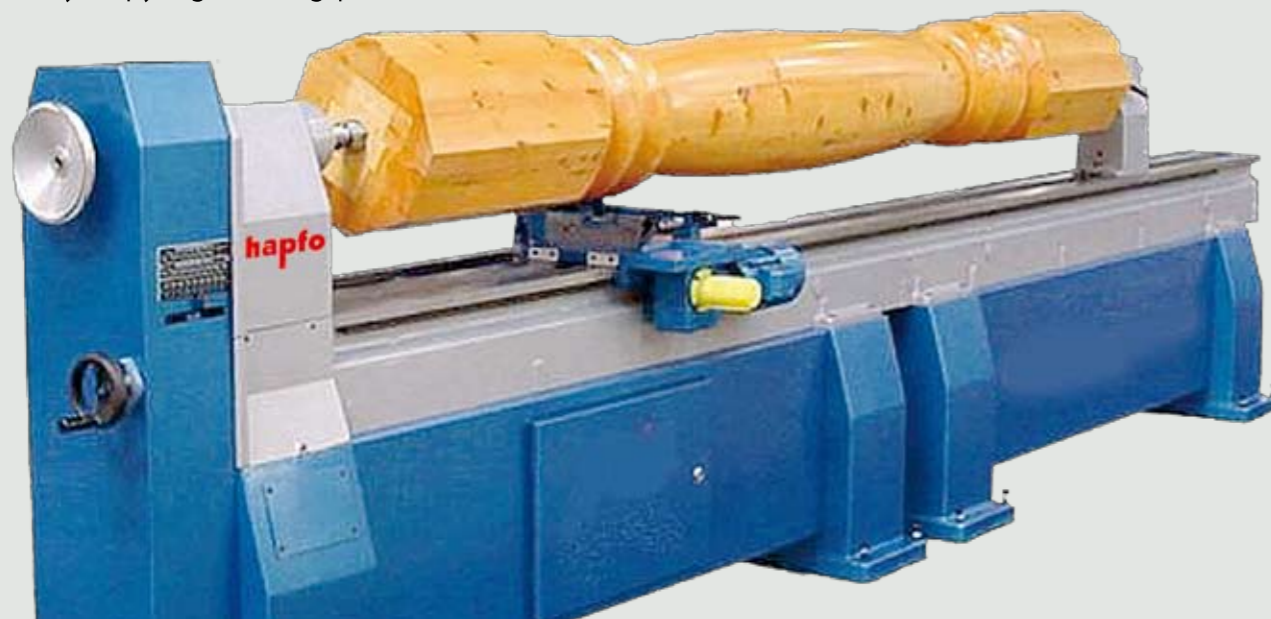


## SPECIFIC CHARACTERISTICS OF THE 5000-ME:

- Infinitely variable feed with speed from 0 to 3.5 rpm
- Quick return of the copying slide
- As an option, we offer a grooving milling device KFE-5000 for very critical and demanding components.

# COPYING TURNING LATHE 6000-ES

for heavy copying turning parts



Constructed for the professional user, the 6000-ES presents all technical advantages, which are characteristic for an efficient wood turning lathe. The 6000-ES is a very precise and powerful machine in heavy grey cast iron (no sheet metal construction) and first-class workmanship made in Germany.

**DISTANCE BETWEEN CENTRES:** 1.350mm (standard), 1.800mm, 3.700mm, (calculated with short six-pronged dog and short live centre) **COPYING LENGTH:** 1.170 mm (standard), 1.620mm, 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:** 400mm. **HEIGHT OF CENTRES:** 300 mm

**SPECIFIC CHARACTERISTICS OF THE 6000-ES:** Headstock, machine bed and feet 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. Handwheel for braking. Following handrest on slide 160mm. Option: Handrest (275 mm) with eccentric quick clamping possible. Tailstock in massive grey cast iron with eccentric quick clamping and cone MK3

**DRIVE:** 2.2 kW motor, 400 volts, 3-phase, 50 Hz, infinitely variable speed range from 375 to 2700 rpm. Option: pole changing motor 1.4/2.2kW for increase speed range from 270 to 3500 rpm. Safety electricity according to VDE with undervoltage release and lockable switch, index of protection IP 54

**DIMENSION (STANDARD):** L=2.700mm/ 3.050mm/ 4900mm, W=660 mm, H= 1.300 mm

**WEIGHT (STANDARD):** approx. 750 to 1100 kg depending on type

# WOOD COPYING LATHE

with hydraulic scanning



For the big-lot production and to satisfy highest demands on precision, the 5000-Hydro-King presents all technical advantages, which are characteristic for an efficient hydraulic copying lathe. The 5000-Hydro-King is a very precise and powerful machine in heavy grey cast iron and first-class workmanship made in Germany. The 5000-Hydro-King can be equipped with hydraulic scanning of the template or the original workpiece. The turning of thin part is also possible due to the follower-rest.

**DISTANCE BETWEEN CENTRES:** 1.700 mm, 2.500 mm, (calculated with short six-pronged dog and short live centre)

**COPYING LENGTH:** 1.500 mm, 2.300 mm (calculated with long six-pronged dog and long livecenter and four-jaw back rest. By using the ring-follower rest additional 120 mm must be deducted)

**COPYING DIAMETER:** 260 mm lengthwise

**HEIGHT OF CENTRES:** 250 mm

## SPECIFIC CHARACTERISTICS OF THE 5000-HYDRO-KING:

- Scanning either of the master copy or the original workpiece.
- Copying stroke up to 150mm
- Can be equipped with a grooving milling unit KFE-5000 for very critical workpieces
- Infinitely variable feed with speed from 0 to 3,5m/min.
- Fast return of the copying slide
- Headstock and machine bed in high-quality grey cast iron with milled and polished bed slideway

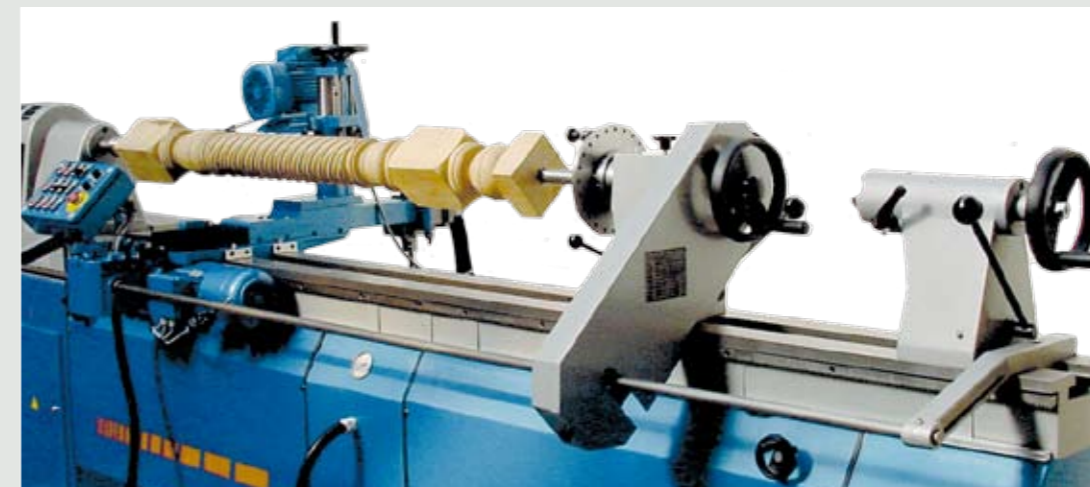
**hapfo** 5000-HydroKing

## BESONDERE MERKMALE DER 5000-HYDRO-KING:

- Bearing of the hollow shaft free from backlash (suitable for connection of vacuum device) with thrust M 33 and inner cone MK 3.
- Handwheel for braking
- Drive: 1,4/1,8 kW Motor, 400 Volt, 3-Ph. 50 Hz,  
Speed: 400-800-1.000-1.250-1.600-2.000-2.500-3.200 U/min.

## FURTHER CHARACTERISTICS OF THE 5000-HYDRO-KING:

- Option: infinitely variable spindle drive with frequency converter
- Tailstock in massive grey cast iron with eccentric quick clamping and cone MK3
- Safety electricity according to VDE with undervoltage release and lockable switch, index of protection IP 54
- Dimension (Standard): L= 2550mm/ 3450mm B=450 mm, H= 1.230 mm
- Weight (Standard): approx. 300 to 400 kg depending on type
- 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
- Two copying units for rough-machining and finishing in one operating cycle as option available.
- Possibility of following handrest on slide for manual rework
- Option: Handrest (275 mm) with eccentric quick clamping possible



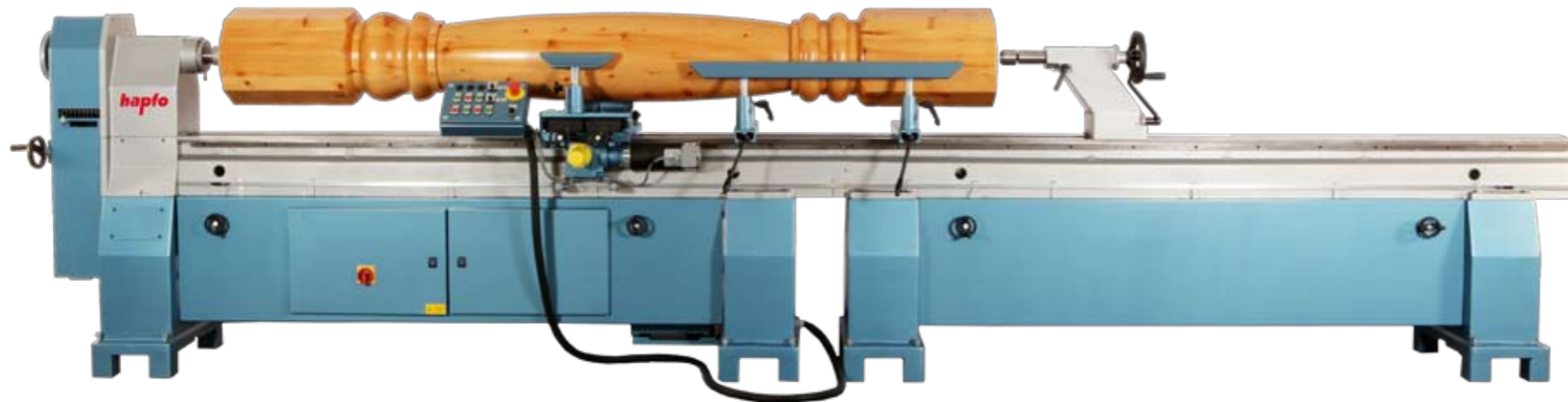
## GROOVING MILLING UNIT KFE-5000

- As an option we offer a grooving milling unit KFE-5000. for machining very critical workpieces.
- As an alternative a simple and robust router unit is mounted vertically but fix at height of centres or
- an unit adjustable in height and swivelling in several senses to execute any imaginable operation is available.
- The KFE-5000 can realize lengthwise groovings and milling clockwise or counterclockwise contours.

# WOOD COPYING LATHE

with hydraulic scanning for large operations

**hapfo** 7000-HydroKing



## FURTHER CHARACTERISTICS OF THE 7000-HYDRO-KING:

- Bearing of the hollow shaft free from backlash (suitable for connection of vacuum device) with thrust M 45 and inner cone MK 4.
- 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.
- Two copying units for rough machining and finishing in one operating cycle as option available.
- Following handrest on the slide for manual rework.
- Option: Handrest (275 mm), with eccentric quick clamping.

**DRIVE:** 2.2 kW motor, 400 volts, 3-phase, 50 Hz, infinitely variable speed range from 375 to 2700 rpm. Option: pole-changing motor 1.4/2.2kW for increased speed range from 270 to 3500 rpm. Safety electricity according to VDE with undervoltage release and lockable switch, index of protection IP 54.

**DIMENSION (STANDARD):** L= 2.700mm/3.050 mm/4.900mm,  
B= 660 mm, H= 1.300 mm

**WEIGHT (STANDARD):** approx. 750 to 1100 kg depending on type

For the production of big workpieces and to satisfy high demands on precision, the 7000-Hydro-King presents all technical advantages, which are characteristic for an efficient hydraulic copying lathe. The 7000-Hydro-King is a very precise and powerful machine in heavy grey cast iron and first-class workmanship made in Germany. As an option, we offer this machine with a laser scanning equipment to scan the template or the original workpiece. Due to the follower rest, the turning of thin parts is also possible.

**DISTANCE BETWEEN CENTRES:** 1.350mm, 1.800 mm, 3.700mm (calculated with short six-pronged dog and short live centre)

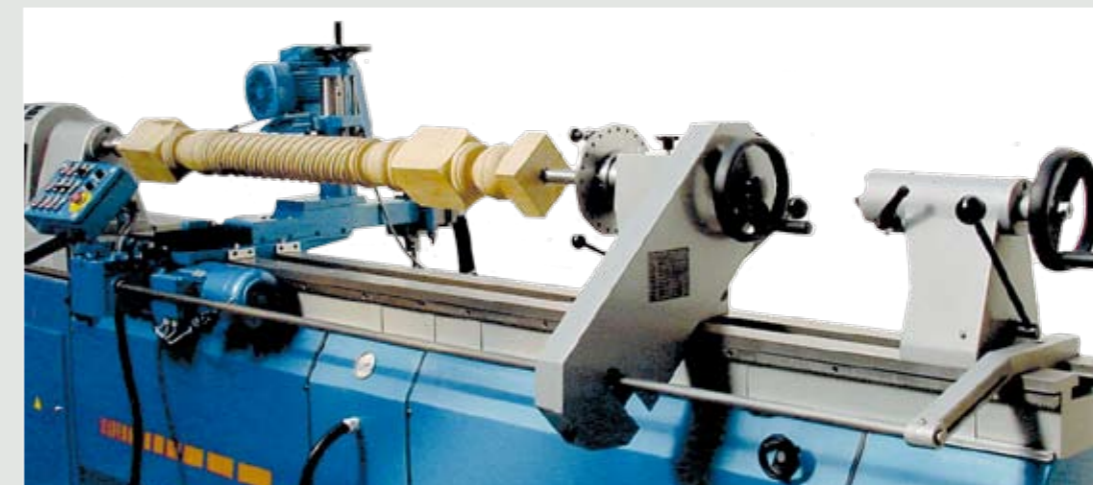
**COPYING LENGTH:** 1.170 mm, 1.620 mm, 3.520 mm (calculated with long six-pronged dog and long live center and four-jaw back rest. By using the ring-follower rest, additional 120 mm must be deducted)

**COPYING DIAMETER:** 390 mm

**HEIGHT OF CENTRES:** 300 mm

## SPECIFIC CHARACTERISTICS OF THE 7000-HYDRO-KING:

- Scanning either of the master copy or scanning of the original workpiece
- Copying stroke up to 200 mm
- As option: grooving milling unit KFE-5000 for very critical and demanding workpieces
- Infinitely variable feed with speed from 0 to 3,5m/min
- Fast return of the copying slide
- Headstock and machine bed in high quality grey cast iron and with milled and polished bed slideway



## GROOVING MILLING UNIT KFE-5000

- As an option we offer a grooving milling unit KFE-5000. for machining very critical workpieces.
- As an alternative a simple and robust router unit is mounted vertically but fix at height of centres or
- an unit adjustable in height and swivelling in several senses to execute any imaginable operation is available.
- The KFE-5000 can realize lengthwise groovings and milling clockwise or counterclockwise contours.



Your merchant/trader/supplier:

Titelfoto: Nadine Schachinger - Herzflimmern



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