COPYING TURNING LATHE 5000-H/ME

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 ans 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: 400-800-1.250-1.600-2.000-2.500-3.200 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, indexe 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: Hardrest (275 mm) with eccentric quick clamping possible

**Specific characteristics of the 5000-ME:**
- Irninitely 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

For heavy copying turning parts, 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:** 1,350 mm (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 ans 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: Hardrest (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, indexe 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.
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 parts 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
- Infiniterly 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

**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

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, indexe 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.