

# THE KNUTH MACHINE 2025

## Reliable

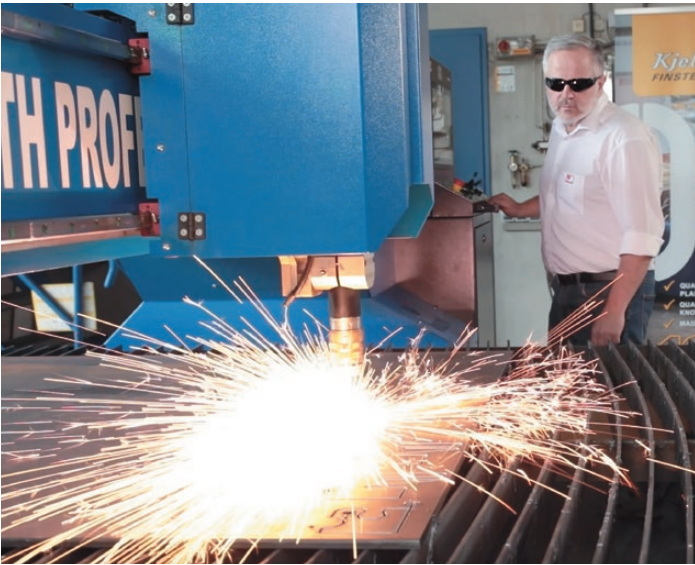
High performance even under demanding conditions

## Powerful

Maximum power for any challenge

## Top Prices

Best quality and performance at a top price-performance ratio



**From hardware dealers to leading suppliers of CNC and conventional machining technologies - customers worldwide now rely on KNUTH machines.**

Visit our company headquarters in Wasbek! Here, you will find machines from all areas of metalworking. Our warehouse contains over 1000 machines, with many ready for demonstration.

**Let us advise you!** The KNUTH consulting team consists of experienced sales consultants and engineers from the metalworking industry who will help you find the perfect machine and solution for your company.

Our highly qualified service team ensures we can respond quickly to your needs. KNUTH technicians ensure the implementation of strict quality assurance, from the manufacturer to the delivery of the machine.

## 100 years of competence in metalworking

Read our story on [www.knuth.com](http://www.knuth.com)

**SERVICE WITHOUT COMPROMISE  
WE ENSURE THAT YOUR  
PRODUCTION RUNS  
SMOOTHLY**

Our one-stop service by our qualified staff is fast and professional. A network of suppliers for spare and worn parts, plus our main warehouse at our headquarters in Wasbek, also guarantees

high availability.

All information on our service packages can be found on our website [www.knuth.com](http://www.knuth.com)

- Installation - Commissioning - Instruction
- Inspection and maintenance

- User and maintenance training
- Repair and spare parts



Dear Customers,

At KNUTH Werkzeugmaschinen, we focus on what sets us apart: High-quality machine tools that effortlessly meet the ever-increasing demands for productivity and functionality. Our optimized product range enables us to develop a proven series and offer more powerful and reliable machines.

Our goal? To provide you with the best solution for your manufacturing tasks. By concentrating on our core competencies, we can offer you better service and more efficient cooperation.

We are proud of our team of highly qualified engineers and technicians who use their expertise to support major customer projects from selection to installation and maintenance. With a network of service technicians, we are at your side for installation, commissioning, and maintenance. Our tailored training programs ensure your employees master new machines and technologies quickly and sustainably.

Put your trust in KNUTH - discover the future of manufacturing with KNUTH machine tools!

Your KNUTH team



[www.knuth.com](http://www.knuth.com)

FOR THE **BEST**  
**DECISIONS**



#### RELIABLE SOURCE OF INFORMATION

As our products become more powerful and complex, decision makers need reliable, clear data and sources of information. Our website is our response to meet this growing demand for information.

- ✓ Overview of the complete KNUTH Machine Tool Program
- ✓ Complete Information at a Glance
- ✓ Up-to-Date News
- ✓ Additional Decision-Making Aids (Downloads, Videos)
- ✓ Clearly Structured Navigation

**Online shop for tools and accessories**



[www.knuth.com](http://www.knuth.com)

# CNC Lathes



**CNC Slant Bed Lathes**

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**CNC Flat Bed Lathes**

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# CNC Slant Bed Lathes

## Roturn C Series

This machine of the ROTURN C series impresses with the classic virtues of a compact CNC production lathe. With its Siemens 828 D Basic control, it meets all the requirements for current control technology. The inclined bed machine with 8-station tool turret and powerful 15 kW (20 hp) main spindle motor has a hydraulic 3-jaw chuck with through-hole. The tailstock is equipped with a hydraulically operated quill and a large stroke.

- Powerful main spindle motor
- 8 station tool turret
- Includes chip conveyor
- Siemens 828 control
- Chuck with through-hole



### STANDARD EQUIPMENT

Siemens 828 D control, Hydr. tailstock, Automatic central lubrication, Chain-type chip conveyor, Heat Exchanger for electric control cabinet, Closed work space, LED work lamp, Coolant system, Air gun, Coolant system flush gun, Operating tools, Operator manual



Additional options available upon request.

### TECHNICAL SPECS

Workpiece length (max.)	420 - 430 mm
Turning diameter over bed	400 mm
Speed range	50 - 2000 - 50 - 3000 1/min
Main motor rating	15 / 11 kW
Weight	3340 - 3400 kg



CNC Turning





#### TECHNICAL SPECS

Workpiece length (max.)	340 mm
Travel Z-axis	350 - 380 mm
Speed range	50 - 2000 - 50 - 3000 1/min
Main motor rating	15 / 11 kW
Weight	3740 - 3760 kg

## CNC Slant Bed Lathes Roturn M Series

Compact CNC lathe with driven tools and tailstock

- Powerful main spindle motor
- High-resolution C-axis
- 12-station tool turret with driven tools
- Chip conveyor included
- Siemens 828 control



#### STANDARD EQUIPMENT

Siemens 828 D control, Hydr. 3-jaw- lathe chuck 200 mm with borehole, Hydr. tailstock, Automatic central lubrication, Chain-type chip conveyor, Heat Exchanger for electric control cabinet, Closed work space, LED work lamp, Coolant system, Air gun, Coolant system flush gun, Operating tools, Operator manual, 12-station tool changer, 1 piece driven tool holder radial, 1 piece driven tool holder axial, Bar feeder interface,

Additional options available upon request.

## CNC Flat Bed Lathes Forceturn Series

Precision flatbed lathe with Fagor control, 4-fold tool changer and electronic handwheels for manual operation

- Powerful main drive for heavy machining
- Servo-driven 4-station tool changer
- 2 electronic hand-wheels for manual operation
- Cycle programming for series production



#### TECHNICAL SPECS

Turning diameter over bed	670 - 818 mm
Workpiece length (max.)	1600 - 5100 mm
Speed range	20 - 1500 - 27 - 2250 1/min
Motor rating main drive	22 kW
Weight	4100 - 8000 kg

#### STANDARD EQUIPMENT

Fagor 8055i FL-TC control, 2 electronic hand-wheels, 3-jaw chuck Ø 300 mm, Automatic 3-step gears, 4-station servo tool holder, Coolant system, Central lubrication, Tailstock, Work lamp, Operating tools, Operating manual and programming instructions

Additional options available upon request.

## CNC Flat Bed Lathes Numturn

**NEW**

Versatility meets precision: Our NUMTURN flatbed lathes offer you the flexibility of a conventional lathe and the precision and productivity of a CNC machine.

**Whether for single part production or series production - we offer the right NUMTURN for your needs on request.**

- CNC control
- Powerful main drive
- Tool changer
- 2 electronic handwheels
- Tailstock



# Services

Our qualified service team will gladly assist you with an installation and training for your new machine!  
We put your machine into operation and instruct your employees - worldwide!

## Assembly and Start-up Services

### Start-up Package

- ✓ **Initial Setup**  
Removing transportation locks, assembly of machine components, levelling of the machine tool
- ✓ **Machine Tool Commissioning**  
Filling up operating fluids, conducting machine test run
- ✓ **Operator Training**  
Training on all machine functions and maintenance

### Add-ons

- ✓ **CNC Operator Training**
- ✓ **KNUTH-Protect - Machine Insurance**
- ✓ **First maintenance service**



## Maintenance Services

With our preventive maintenance packages, we make sure your machine remains a reliable cornerstone of your production. In addition to the necessary service jobs according to the KNUTH maintenance schedule for the specific machine, our service technician will also provide you with a detailed service protocol containing a condition rating of your machine tool, results of the accuracy tests, and a proposal for further maintenance and repair jobs.

### Conventional Machines

- ✓ **Testing of machine function**
- ✓ **Testing of safety features**
- ✓ **Geometric accuracy testing**
- ✓ **Checking all maintenance and wear points**
- ✓ **Service protocol**

### CNC Machines

- ✓ **Testing of machine function**
- ✓ **Testing of safety features**
- ✓ **Geometric accuracy testing**
- ✓ **Checking all maintenance and wear points**
- ✓ **Control and software check-up**
- ✓ **Service protocol**

### Cutting Machines

- ✓ **Testing of machine function**
- ✓ **Testing of safety features**
- ✓ **Geometric accuracy testing**
- ✓ **Checking all maintenance and wear points**
- ✓ **Control and software check-up**
- ✓ **Pump / laser source / plasma source check-up**
- ✓ **Service protocol**

## Spare Parts

In case of unforeseen emergency situations, you will always have a KNUTH Machine Service available. Our Spare Parts Department at our headquarters in Wasbek keeps more than 10.000 parts in stock at all times.

The KNUTH Service Help Desk is at your side with advice and solutions. They offer technical support by phone or upon agreement in person at your site. Just give us a call or send us an e-mail.

**KNUTH Technical Service Help Desk**

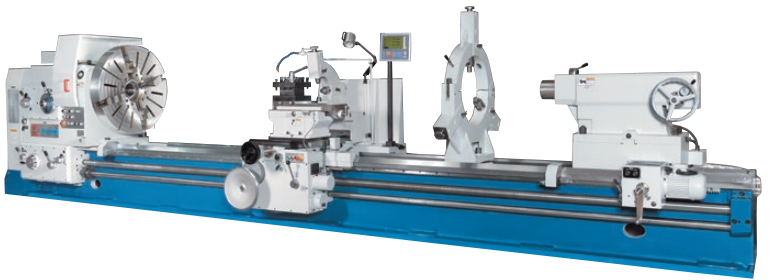
Tel. +49 4321 609-263 / -273  
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**KNUTH Spare Parts Service**

Tel. +49 4321 609-258 / -265  
E-Mail [ersatzteile@knuth.de](mailto:ersatzteile@knuth.de)



# Conventional Lathes



**Heavy-Duty Lathes**

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**Engine Lathes**

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**Mechanics Lathes**

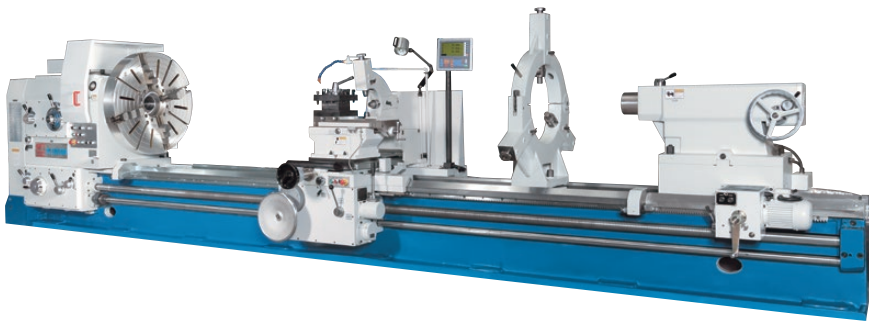
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# Conventional Horizontal Lathes DL E Heavy Series

With the machines of the DL E Heavy series, you can machine really large turning diameters and workpiece lengths. This lathe series is the solution for conventional machining of workpieces up to 8000 mm in length and over 1600 mm in diameter.

- Center widths up to 8000 mm
- Spindle bore of 130 mm
- Powerful motor
- Rapid feed in X and Z directions
- Complete with assembled 3-axis position indicator



## STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Coolant system, LED work lamp, Center points, Reducing sleeve, Foundation bolts, Central lubrication, Operating tools, Operator instructions



Additional options available upon request.

## TECHNICAL SPECS

Workpiece length (max.)	1500 - 8000 mm
Turning diameter over bed	1250 - 1600 mm
Turning-Ø over support	900 - 1280 mm
Motor rating main drive	22 kW
Weight	9750 - 21020 kg

## KNUTH on YouTube Information to the point

Visit us on YouTube and experience our machines in operation before a test in our company.

**Subscribe to our YouTube channel - Go to KNUTH Machine Tools!**

**Are you interested in a machine for which you cannot find a current video? Please feel free to contact us!**



Conventional Turning

 YouTube



DL E Heavy

## Conventional Horizontal Lathes DL S Series

Designed for large workpieces, with a powerful motor and with a rapid feed on X and Z axes

- Center widths up to 5000 mm
- Spindle bore of 100 mm
- Powerful motor
- Spindle speed can be adjusted in 4 steps
- Rapid feed in X and Z direction
- Complete with assembled 3-axis position indicator



### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, 4-station tool holder, Dead centers, Reducing sleeve, Chuck guard, Protective shield for the toolpost, Coolant system, Foundation bolts, Work lamp, Operating tools, Operator instructions

Additional options available upon request.

## Conventional Horizontal Lathes Sinus D Series

Classic design with extensive standard equipment, including 3 axis read out, and taper turning

- One-piece heavy-duty cast bed for increased rigidity
- Sturdy headstock design with large spindle bearings
- Rapid feed on 2 axes for fast positioning
- Taper turning attachment for additional applications
- Well-designed safety functions



### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, 3-jaw chuck Ø 315 mm, 4-jaw face plate chuck Ø 400 mm, Dog plate, Fixed splash guard (wall), Coolant system, Steady and follow rests, Taper turning unit, Chuck guard, LED Work light, Reducing sleeve, Dead center, Toolbox with operating tools, Operator instructions, Rapid feed on Z and X axes

Additional options available upon request.

## Conventional Vertical Lathes VDM S Series

With movable crossbeam, infinitely variable servo feed and additional lateral support for very large turning diameters

- Optimum assembly with crane and forklift
- Infinitely variable feed control via servo motor
- Long, sturdy vertical boom
- Side support with boom and independent feed
- Reduction gear drive for high torque



### STANDARD EQUIPMENT

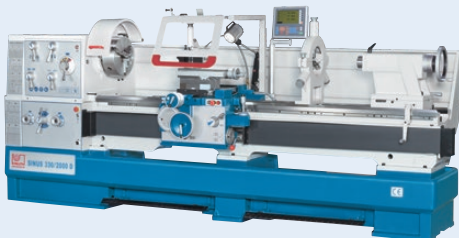
3-axis position indicator X.Pos 3.2, Totally enclosed work space, Chip conveyor, Tool holder vertical, Tool holder horizontal, Automatic central lubrication, Work lamp, Anchor bolts, Operating tools, Operator manual

Additional options available upon request.



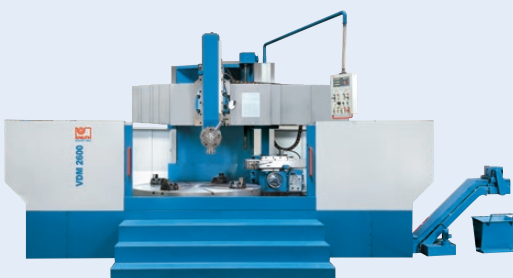
### TECHNICAL SPECS

Workpiece length (max.)	1500 - 5000 mm
Turning diameter over bed	850 - 1000 mm
Turning-Ø over support	520 - 720 mm
Spindle speed	5 - 630 1/min
Motor rating main drive	18,5 - 22 kW
Weight	5600 - 9500 kg



### TECHNICAL SPECS

Workpiece length (max.)	1500 - 3000 mm
Turning diameter over bed	660 - 800 mm
Turning-Ø over support	440 - 570 mm
Spindle speed	25 - 1600 1/min
Motor rating main drive	7,5 kW
Weight	2800 - 3870 kg



### TECHNICAL SPECS

Rotating diameter (max.)	1250 - 2600 mm
Turning diameter of side tool holder	1000 - 2300 mm
Workpiece length (max.)	1000 - 1500 mm
Speed range	5 - 160 - 6,3 - 200 1/min
Motor rating main drive	22 - 37 kW
Weight	9000 - 27500 kg

## Conventional Horizontal Lathes Turnado Pro Series

Top model of the Turnado series with infinitely variable spindle speed and constant cutting speed, as well as rapid traverse and modern ergonomic design

- Infinitely variable speed range
- Apron with rapid feed motor
- Extensive standard equipment
- Constant cutting speed



### STANDARD EQUIPMENT

Operator instructions, Dead center, Follow and steady rests, Reducing sleeve, Rapid traverse for X- and Z-axis, Micrometer longitudinal stop, 3-axis position indicator, X.pos 3.2 VC, Traveling cover for the toolpost, Toolbox with operating tools, Chuck guard, Fixed splash guard (wall), Foot brake pedal, Thread gauge, Coolant system, Work light

Additional options available upon request.

### TECHNICAL SPECS

Center width	1000 - 1500 mm
Turning-Ø over bed	460 - 560 mm
Turning-Ø over support	224 - 355 mm
Speed range, low	25-200 - 30-600 1/min
Speed range, high	200-1600 - 600-3000 1/min
Motor rating main drive	7,5 kW
Weight	1720 - 2370 kg

## Conventional Horizontal Lathes Turnado Series

Proven classic with extensive standard equipment and powerful motor

- Classic design with sturdy construction
- One-piece heavy cast bed for increased rigidity
- 3-axis position indicator with various turning functions
- Adjustable feed stops for longitudinal feed
- Extensive standard equipment package



### STANDARD EQUIPMENT

Adjustable feed stops, Operator instructions, Dead center, Chuck guard, Follow and steady rests, Reducing sleeve, Protective shield for the toolpost, Fixed splash guard (wall), Micrometer longitudinal stop, 3-axis position indicator X.Pos 3.2, Toolbox with operating tools, Foot brake pedal, Thread gauge, Coolant system, Work light

Additional options available upon request.

### TECHNICAL SPECS

Workpiece length (max.)	1000 - 2000 mm
Turning-Ø over bed	460 - 560 mm
Turning-Ø over support	224 - 355 mm
Spindle speeds	(12) 25 - 1,600 - (12) 25 - 2,000 1/min
Motor rating main drive	5,5 kW
Weight	1720 - 2720 kg

## Conventional Horizontal Lathes V-Turn 410 PRO

Top model of the V-Turn series with infinitely variable spindle speed and constant cutting speed, as well as rapid traverse and modern ergonomic design

- Ergonomic machine housing
- Improved apron with automated feed
- Constant cutting speed
- High spindle speed and motor power
- Roller bearings from world-leading manufacturer NSK



### STANDARD EQUIPMENT

3-axis position indicator, X.pos 3.2 VC, 4-jaw face plate chuck Ø 250 mm, Face plate Ø 350 mm, Quick change tool holder head WB, Quick change tool holder WBD 25120, Coolant system, Steady rest, Chip tray, Fixed splash guard (wall), Traveling cover for the toolpost, Follow rest, Turret stop, Micrometer stop, Foot brake pedal, Chuck guard, Work light, Toolbox with operating tools, Dead center, Reducing Sleeve, Fixed stainless steel safety cover for tension and lead screw, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Center width	1000 mm
Turning-Ø over support	255 mm
Speed range, high	550 - 3000 1/min
Speed range, low	30 - 550 1/min
Motor rating main drive	5,5 kW
Weight	1210 kg

## Conventional Horizontal Lathes V-Turn Series



Best selling machine class featuring constant cutting speed and extensive package of accessories

- Constant cutting speed
- High spindle speed and motor power
- Extensive standard equipment
- Roller bearings from world-leading manufacturer NSK



### TECHNICAL SPECS

Center width	1000 - 1500 mm
Turning diameter over bed	380 mm
Speed range, high	550 - 3000 1/min
Speed range, low	30 - 550 1/min
Motor rating main drive	5,5 kW
Weight	1200 - 1800 kg

### STANDARD EQUIPMENT

3-axis position indicator, X.pos 3.2 VC, 4-jaw face plate chuck Ø 250 mm, Face plate Ø 350 mm, Quick change tool holder head WB, Quick change tool holder WBD 25120, Coolant system, Steady rest, Follow rest, Turret stop, Micrometer stop, Chip tray, Fixed splash guard (wall), Protective shield for the toolpost, Chuck guard, Foot brake pedal, Work light, Reducing Sleeve, Dead center, Thread gauge, Toolbox with operating tools, Operator instructions

Additional options available upon request.

## Conventional Horizontal Lathes Basic 180 V



With extra wide bed, infinitely variable spindle speed and constant cutting speed

- Largest bed width in this machine class
- Constant cutting speed
- High spindle speed and motor power
- Extensive standard equipment for a wide range of applications



### TECHNICAL SPECS

Center width	1000 mm
Turning diameter over bed	356 mm
Speed range, high	550 - 3000 1/min
Speed range, low	30 - 550 1/min
Motor rating main drive	4 kW
Weight	880 kg

### STANDARD EQUIPMENT

3-axis position indicator, X.pos 3.2 VC, Quick change tool holder head WE, Quick change tool holder WED 20100, 4-jaw face plate chuck Ø 200 mm, Face plate Ø 320 mm, Steady and follow rests, Coolant system, Micrometer stop, Thread gauge, Reducing sleeve, Dead center, Protective shield for the toolpost, Chuck guard, Foot brake pedal, Fixed splash guard (wall), Work light, Chip tray, Toolbox with operating tools, Operator instructions

Additional options available upon request.

## Conventional Horizontal Lathes Basic 180 Super



Heavy mechanic's lathe with extensive accessories, extra wide bed and high cutting performance

- Heavy-duty wide machine bed
- Rugged construction for minimal vibration
- Powerful motor for demanding operations
- Extensive standard equipment for a wide range of applications



### TECHNICAL SPECS

Center width	1000 mm
Turning diameter over bed	356 mm
Spindle speed	45 - 1800 1/min
Motor rating main drive	2,4 kW
Weight	880 kg

### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Quick change tool holder head WE, Quick change tool holder WED 20100, 3-jaw chuck Ø 160 mm, 4-jaw face plate chuck Ø 200 mm, Face plate Ø 320 mm, Steady and follow rests, Coolant system, Micrometer stop, Thread gauge, Reducing sleeve, Dead center, Protective shield for the toolpost, Chuck guard, Foot brake pedal, Fixed splash guard (wall), Work light, Chip tray, Operator instructions, Toolbox with operating tools

Additional options available upon request.

## Conventional Horizontal Lathes

# Basic 170 Super Pro

Top model of the mechanic's lathes, perfect for workshop and training with complete equipment and modern ergonomics

- Modern ergonomic design
- Large spindle bore
- Machine base with storage space
- Extensive standard equipment
- Coolant system



### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Quick change tool holder head WE, Quick change tool holder WED 20100, 3-jaw-chuck 178 mm, 4-jaw face plate chuck Ø 200 mm, Face plate Ø 280 mm, Steady and follow rests, Coolant system, Micrometer stop, Reducing sleeve, Dead center, Traveling cover for the toolpost, Fixed stainless steel safety cover for tension and lead screw, Chuck guard, Foot brake pedal, Fixed splash guard (wall), Work light, Chip tray, Toolbox with operating tools, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Center width	1000 mm
Turning diameter over bed	354 mm
Spindle speed	70 - 2000 1/min
Motor rating main drive	1,5 kW
Weight	650 kg

## Conventional Horizontal Lathes

# Basic 170 Super

Solid precision bench lathe with large center width. The Basic 170 Super is a versatile lathe for single part production.

- Compact design for small footprint
- Extensive standard equipment for a wide range of applications
- 3-axis position indicator with turning functions



### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Quick change tool holder head WE, Quick change tool holder WED 20100, 3-jaw chuck Ø 160 mm, 4-jaw face plate chuck Ø 200 mm, Face plate Ø 280 mm, Steady and follow rests, Micrometer stop, Thread gauge, Reducing sleeve, Dead center, Protective shield for the toolpost, Chuck guard, Foot brake pedal, Fixed splash guard (wall), Work light, Chip tray, Toolbox with operating tools, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Center width	1000 mm
Turning diameter over bed	330 mm
Spindle speed	70 - 2000 1/min
Motor rating main drive	1,5 kW
Weight	520 kg

## Conventional Horizontal Lathes

# Basic Plus

Best-selling entry-level lathe with extended list of standard accessories, also ideal for training

- Robustness and precision
- Compact design with small footprint
- Extensive standard equipment
- Quick change tool holder
- Assembled 3-axis position indicator



### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Quick change tool holder head WA, Quick change tool holder WAD 1675, 3-jaw chuck Ø 160 mm, 4-jaw face plate chuck Ø 200 mm, Face plate Ø 250 mm, Steady and follow rests, Micrometer stop, Thread gauge, Reducing sleeve, Dead center, Protective shield for the toolpost, Chuck guard, Fixed splash guard (wall), Work light, Toolbox with operating tools, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Center width	810 mm
Turning diameter over bed	300 mm
Turning-Ø over support	178 mm
Spindle speed	60 - 1550 1/min
Motor rating main drive	1,1 kW
Weight	520 kg

# CNC Milling Machines



**CNC Vertical Machining Centers**

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**CNC Milling and Boring Machines**

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## Vertical Machining Centers **VECTOR 1400 M SI**

Premium milling solution for machining large workpieces in multi-shift operation, with extensive customisation and automation options

- Spindle on multiple bearings ensures minimal vibrations
- 30-bar CTS to ensure optimum machining quality
- Designed for multi-shift operation
- Many customization and automation possibilities
- 2-year standard warranty



### STANDARD EQUIPMENT

Siemens 828D control with Shopmill, Coolant through spindle 30 bar with double filter, 24-station tool changer with dual-arm, ST 40 mount, Spindle oil cooler, Chain-type conveyor with chip container, Electronic hand-wheel, Oil skimmer, Automatic central lubrication, Coolant system flush gun, Chip wash system, Heat Exchanger for electric control cabinet, Telescoping axis cover, USB port, Work lamp, 3-color signal lamp, CF card reader, Totally enclosed work space, Coolant system, Adjustable machine feet, Operating tools, Operator instructions, Preparation for Renishaw TS 27 R

Additional options available upon request.



### TECHNICAL SPECS

Table dimensions	1500 x 700 mm
Travel X-axis	1400 mm
Spindle speed	10000 1/min
Spindle mount	SK 40 ISO 7388-1 (DIN 69871)
Main drive, continuous load	17 kW
Weight	9500 kg

## Vertical Machining Centers **VECTOR 1200 M SI**

Premium milling solution for mould making and production with extensive customisation and automation options

- Spindle on multiple bearings ensures minimal vibrations
- 30-bar CTS to ensure optimum machining quality
- Designed for multi-shift operation
- Many customization and automation possibilities
- 2-year standard warranty



### STANDARD EQUIPMENT

Siemens 828D control with Shopmill, Coolant through spindle 30 bar with double filter, 24-station tool changer with dual-arm, ST 40 mount, Spindle oil cooler, Chain-type conveyor with chip container, Electronic hand-wheel, Oil skimmer, Automatic central lubrication, Coolant system flush gun, Chip wash system, Heat Exchanger for electric control cabinet, Telescoping axis cover, USB port, Work lamp, 3-color signal lamp, CF card reader, Totally enclosed work space, Coolant system, Adjustable machine feet, Operating tools, Operator instructions, Preparation for Renishaw TS 27 R

Additional options available upon request.



### TECHNICAL SPECS

Table dimensions	1300 x 600 mm
Travel X-axis	1220 mm
Spindle speed	10000 1/min
Spindle mount	SK 40 ISO 7388-1 (DIN 69871)
Main drive, continuous load	12 kW
Weight	6500 kg

## Vertical Machining Centers **VECTOR M Series**

Premium milling solution for production and one-off manufacturing with extensive customisation and automation options

- Extra-wide Y-shaped Meehanite column for maximum stability
- 30-bar CTS to ensure optimum machining quality
- Designed for multi-shift operation
- Many customization and automation possibilities



### STANDARD EQUIPMENT

Siemens 828D control with Shopmill, Coolant through spindle 30 bar with double filter, 24-station tool changer with dual-arm, Main spindle motor 9 kW, ST 40 mount, Spindle oil cooler, Chain-type conveyor with chip container, Electronic hand-wheel, Oil skimmer, Automatic central lubrication, Coolant system flush gun, Chip wash system, Heat Exchanger for electric control cabinet, Telescoping axis cover, USB port, Work lamp, 3-color signal lamp, CF card reader, Totally enclosed work space, Coolant system, Adjustable machine feet, Operating tools, Operator instructions, Preparation for Renishaw TS 27 R

Additional options available upon request.



### TECHNICAL SPECS

Table dimensions	800 x 550 - 1100 x 550 mm
Travel X-axis	650 - 1000 mm
Spindle speed	10000 1/min
Spindle mount	SK 40 ISO 7388-1 (DIN 69871)
Main drive, continuous load	9 kW
Weight	4000 - 4600 kg



#### TECHNICAL SPECS

Table dimensions	900 x 450 - 1100 x 550 mm
Travel X-axis	700 - 1000 mm
Spindle speed	10000 1/min
Spindle mount	SK 40 ISO 7388-1 (DIN 69871)
Motor rating main drive	9 - 11 kW
Weight	4200 - 4600 kg

## Vertical Machining Centers X.mill T Series

Compact all-in-one solution for complex solutions and powerful 3-axis machining

- Optimized frame design using FEM analysis
- Extra wide Y-shaped column for increased rigidity
- Ø32 mm C3 preloaded ball screws for high accuracy
- Available with Siemens or Fanuc control
- High customization and automation possibilities



#### STANDARD EQUIPMENT

Shield-type 20-station tool changer, Screw-type chip conveyor with bucket, Ridgid tapping, Autom. power off, Manual coolant spray gun, Coolant system, Spindle air system, Heat Exchanger for electric control cabinet, Fully enclosed work space (without top cover), Electronic hand-wheel, USB port, Automatic central lubrication, Work lamp, 3-color signal lamp, Operating tools, Leveling bolts and blocks, Preparation for Renishaw TS 27 R

Additional options available upon request.



#### TECHNICAL SPECS

Table dimensions	700 x 260 mm
Travel X-axis	450 mm
Spindle mount	SK 40 ISO 7388-1 (DIN 69871)
Spindle speed	10000 1/min
Weight	1800 kg

## Vertical Machining Centers X.mill 450

Compact machining centre for high-performance 3-axis machining

- Compact design
- High-quality components and extensive equipment
- Siemens 828D control
- Robust 12-station tool changer

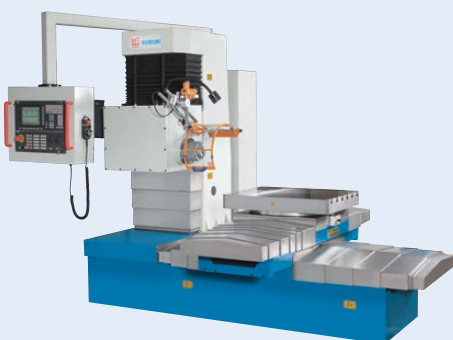


#### STANDARD EQUIPMENT

Siemens 828D control, Carousel-type 12-station tool changer, Enclosed work area (without top cover), Automatic central lubrication, Coolant System, Manual coolant spray gun, Air gun, Heat exchanger for electric control cabinet, Electronic hand-wheel, Work lamp, 3-color signal lamp, Operating tools, Operator instructions

Additional options available upon request.

NEW



#### TECHNICAL SPECS

Table dimensions	630 x 800 mm
Travel X-axis	840 mm
Spindle speed	10 - 6000 1/min
Spindle mount	BT 40 JIS (MAS 403)
Motor rating main drive	11 kW
Weight	6000 kg

## CNC Milling and Boring Machines BO 90 CNC

Stable CNC milling solution for heavy machining with an easily manually swivelled work table for up to 1 t workpiece weight

- Compact machine design
- Powerful main motor
- Manual table with 5° indexing
- Siemens 828D controller for advanced machining
- Telescoping guideway covers made of stainless steel in the work area



#### STANDARD EQUIPMENT

Siemens 828 D control, Pneumatic rotary table, Electronic hand-wheel, Halogen lights, Central lubrication, Drill chuck 3-16 mm / B18, Tool-holder bits MT4 / B18, Reducing sleeves MT3, MT4, MT5, Foundation bolts, Operating manual and programming instructions, Machine guard screen system

Additional options available upon request.



# Visit our In-House Expo 2025



Visit our annual in-house exhibition in Wasbek on June 26 and 27, 2025. At our 16,000 m<sup>2</sup> company headquarters in northern Germany, we have around 1000 machines in stock, many of which are ready for demonstration and all of which can be delivered at short notice. Get to know our team and find out how KNUTH can help you achieve your production goals. Benefit from quality, high availability and first-class service.



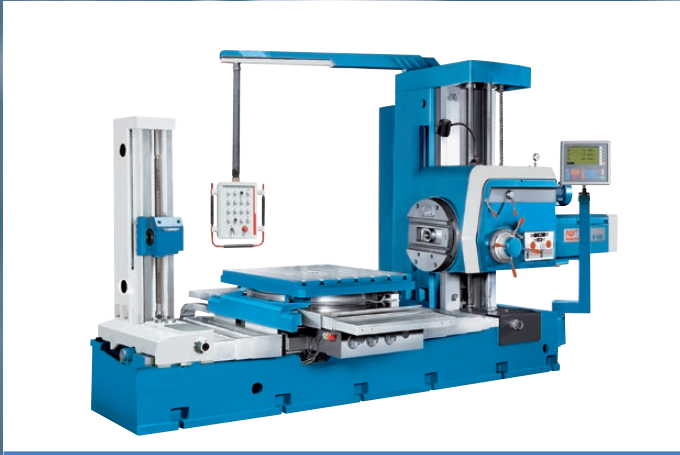
**SAVE  
THE DATE**  
26.-27. June

Visitors can take part in informative **Workshops** that provide practical knowledge about the latest production techniques and process optimization. There will also be exciting **Live Demonstrations** showing innovative machines in action. We will also be providing information about our comprehensive **Services**, where our experts offer individual advice and support for maintenance, servicing and machine optimization.



Highlights at our in-house exhibition include the exclusive **Auction** and our **Lottery**, where high-quality machines can be won or bid for. The physical well-being is also taken care of: first-class **Catering** spoils the guests with culinary delicacies. Another special highlight is the **Boat Trip** on Kieler Woche, which is organized exclusively for trade fair visitors. This unique combination of trade fair and maritime experience makes the visit an unforgettable event.

# Conventional Milling Machines



**Boring Machines**

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**Bed-Type Milling Machines**

Page 18



**Servo-conventional**

Page 19



**Universal Milling Machines** from Page 20



**Multipurpose Milling Machines** Page 22



**Drill Press/Milling Machines** Page 24

# Conventional Milling and Boring Machines



Large workpieces such as beds, racks and housings usually have to be machined laterally. Both boring machines and milling machines allow drilling, turning and conventional milling on all four sides in just one operation. The machines in heavy cross-bed construction combine a drilling and milling bed. Thanks to the long travel and long strokes of the quill combined with the facing slide and the heavy, height-adjustable tailstock, you can also modify large universal components.



## Conventional Milling and Boring Machines BO 130

For heavy and demanding machining  
of up to 10 T workpiece weight

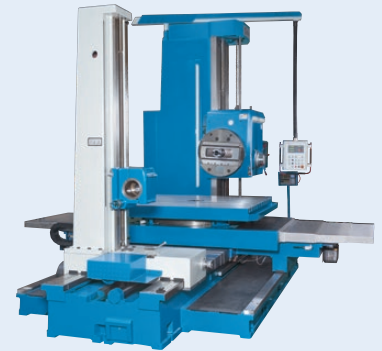
- Large work area with W-axis and facing slide
- Thread cutting unit
- Rotatable clamping table with sighting device for 4 positions
- Telescoping stainless steel covers on all guides



### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Wedge strip, Central lubrication, Work lamp, Foundation bolts, Operating tools, Operator instructions

Additional options available upon request.



### TECHNICAL SPECS

Table set up area	1600 x 1800 mm
Travel X	2000 mm
Spindle diameter	130 mm
Spindle mount	SK 50
Weight	29300 kg

## Conventional Milling and Boring Machines BO 110

For heavy and demanding machining  
of up to 2.5 T workpiece weight

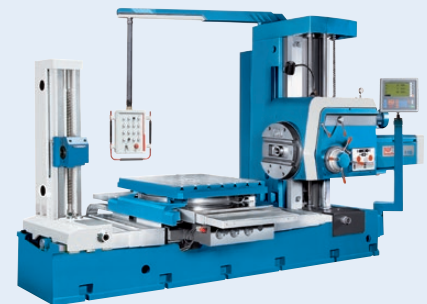
- Large work area with W-axis and facing slide
- Thread cutting unit
- Rotatable clamping table with sighting device for 4 positions
- Telescoping stainless steel covers on all guides



### STANDARD EQUIPMENT

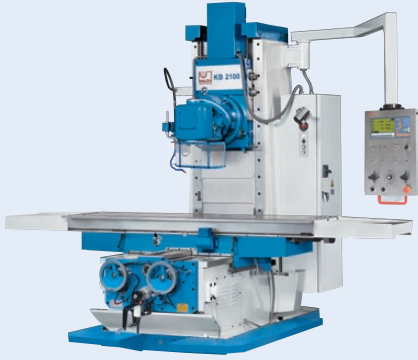
3-axis position indicator X.Pos 3.2, Wedge strip, Central lubrication, Work lamp, Foundation bolts, Operating tools, Operator instructions

Additional options available upon request.



### TECHNICAL SPECS

Table set up area	1100 x 960 mm
Travel X	900 mm
Spindle diameter	110 mm
Spindle mount	SK 50
Weight	11500 kg



#### TECHNICAL SPECS

Table set up area	2100 x 500 mm
Travel X-axis	1500 mm
Spindle speed (vertical)	35 - 1345 1/min
Spindle mount	ISO 50
Weight	7300 kg

## Conventional Vertical Milling Machines KB 2100

Heavy-duty bed-type milling machine with universal milling head in Huron design for demanding cutting operations

- Large work area
- Infinitely variable feed
- Universal cutter head with 2 swivel axes
- Horizontal milling with outer arbor support
- Extensive standard equipment



#### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Universal swivel head, Coolant system, Draw bar, 1 set- milling chuck set ISO 50 (4, 6, 8, 12, 16, 18, 22, 26mm), Cutter arbor ISO 50 Ø 40 mm, Horizontal arbor holder, Horizontal arbor Ø 32 mm, Work lamp, Operating tools, Foundation bolts M12 x 500 mm, Operator instructions

Additional options available upon request.



#### TECHNICAL SPECS

Table set up area	1400 x 400 mm
Travel X-axis	950 mm
Spindle mount	SK 50 DIN 2080
Spindle speed (vertical)	30 - 1800 1/min
Weight	3660 kg

## Conventional Vertical Milling Machines KB 1400

Optimal for heavy machining of large workpieces with swivelling vertical milling head and infinitely variable speed

- Large work area
- Vertical cutter head with quill stroke
- Infinitely variable feed speeds
- Extensive standard equipment



#### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Collet chuck with collets (4,5,6,8,10,12,14,16 mm diam.), Reducing sleeves MT4, MT3, MT2, Cutter arbor Ø 40 mm, Coolant system, Work lamp, Central lubrication, Operating tools, Operator instructions

Additional options available upon request.



KB 1400

## KNUTH on YouTube Information to the point

You can find videos for most machines on our YouTube channel. We show the machines from current deliveries, and you get an impression of the handling, processing quality, and machining performance.

**Are you interested in a machine for which you cannot find a current video?  
Please feel free to contact us!**

# Servomill® UWF Series

The versatile Servomill UWF with servo-conventional feed technology and on two levels swiveling cutter head is the top model of the Universal Milling Machine series. This series features an extra large work area and more powerful main spindle drives. Electronic stops, electronic hand wheels and additional milling functions give the Servomill many of the advantages of the CNC series production technology even without programming. These machines are mainly used in tool making, manufacturing and training.

- Large work area
- Servo-conventional feed technology
- Preloaded ball screws on all axes
- Electronic hand-wheels
- Universal cutter head with 2 swivel axes
- Infinitely variable spindle speed



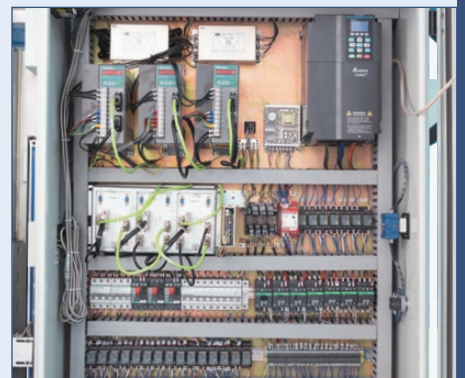
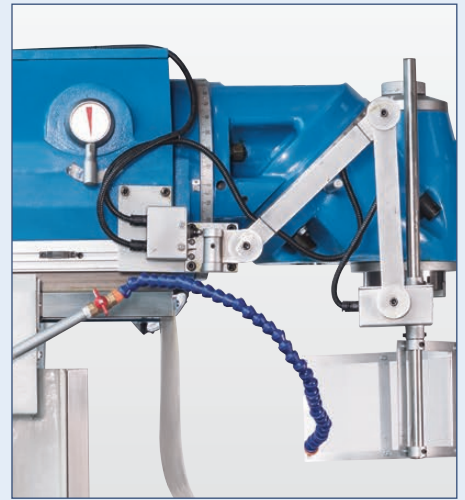
## STANDARD EQUIPMENT

Control panel with X.Pos 3.2 and extended functions, Ball screw drives and servo direct drives in all axes, Automatic feed with electric limit switches in all axes, Electronic handwheels, Automatic central lubrication, Heat exchanger for electrical control cabinet, Protection shield, Coolant system, LED work light, Operating tool, Operator instructions



## TECHNICAL SPECS

Table dimensions	1235 x 460 - 2000 x 500 mm
Travel X-axis	900 - 1400 mm
Speed range (2)	30-390 / 390-2050 1/min
Spindle mount	SK 40 DIN 2080
Motor rating main drive	7,5 - 11 kW
Weight	4000 - 4500 kg





#### TECHNICAL SPECS

Table dimensions	1600 x 360 mm
Travel X-axis	1300 mm
Speed range	60 - 1750 1/min
Spindle mount	SK 50 DIN 2080
Weight	2950 kg

## Conventional Vertical Milling Machines UWF 6

With extended travel on axes, universal type milling head, ISO50 spindle, automatic feed on all axis and swiveling table

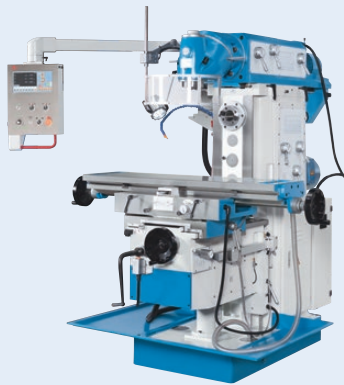
- Universal cutter head swivels on 2 levels
- Horizontal milling spindle with its own drive
- Swiveling milling table
- Servo-feed on all axes with rapid feed
- Extensive standard equipment



#### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Reducing sleeve ISO 50 / MT4, Milling arbor Ø 32 mm, Horizontal arbor Ø 27 mm, Outer arbor support for horizontal milling, Chip tray, Coolant system, Work lamp, Manual central lubrication, Draw bar, Operating tools, Operator instructions

Additional options available upon request.



#### TECHNICAL SPECS

Table dimensions	1325 x 360 mm
Travel X-axis	750 mm
Speed range	60 - 1750 1/min
Spindle mount	SK 50 DIN 2080
Weight	2850 kg

## Conventional Vertical Milling Machines UWF 5

Heavy console milling machine with stable SK 50 spindle in the universal milling head, horizontal milling spindle, as well as swivel table and automatic feed in all axes.

- Universal cutter head swivels on 2 levels
- Horizontal milling spindle with its own drive
- Swiveling milling table
- Automatic feed in all axes with rapid feed
- Extensive standard equipment



#### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Reducing sleeve ISO 50 / MT4, Milling arbors (27, 32 mm), Outer arbor support for horizontal milling, Collet chuck ISO 50 incl. collets 3-25mm (8 pieces), Coolant system, Work lamp, Chip tray, Draw bar, Operating tools, Operator instructions

Additional options available upon request.



UWF 3.2

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## Conventional Vertical Milling Machines UWF 3.2

With universal type milling head, automatic feed on all axis, swiveling table and horizontal spindle

- Universal cutter head swivels on 2 levels
- Outer arbor support for horizontal milling
- Swiveling milling table
- Servo-feed on all axes with rapid feed
- Extensive standard equipment



### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Collet chuck with collets (4,5,6,8,10,12,14,16 mm diam.), Horizontal arbor Ø 27 mm, Outer arbor support for horizontal milling, Chip tray, Coolant system, Central lubrication, M16 draw bar, LED work lamp, Operating tools, Operator instructions

Additional options available upon request.



### TECHNICAL SPECS

Table set up area	1370 x 320 mm
Travel X-axis	1000 mm
Spindle mount	SK 40 DIN 2080
Spindle speed (vertical)	45 - 1660 1/min
Weight	1950 kg

## Conventional Vertical Milling Machines FPK 4.3 • FPK 6.3 Series

Our new generation of machine tools with automated feed and infinitely variable spindle drive

- Vertical and horizontal spindle
- Precise preloaded ball screws on all axes
- Large vertical console and work table
- Automatic feed on all axes with rapid feed
- Infinitely variable main spindle drive
- Extensive accessory package included



### STANDARD EQUIPMENT

Electronic hand-wheels, 3-axis position indicator X.Pos 3.2, Central lubrication, Reducing sleeves MT1, MT2, MT3, Collet chuck with collets, Horizontal milling arbor 16mm, Horizontal milling arbor 22mm, Horizontal milling arbor, 27 mm, Horizontal milling arbor 32mm, Counterholder for horizontal milling, Chip tray, Coolant system, Work lamp, pull rod (M16) for horizontal / vertical spindle, levelling pads and bolts, Operating tools, Operator manual

Additional options available upon request.



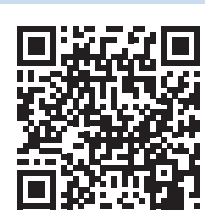
### TECHNICAL SPECS

Table dimensions	400 x 800 - 450 x 850 mm
Travel X-axis	500 - 600 mm
Speed range	40 - 2000 1/min
Spindle mount	SK 40 DIN 2080
Motor rating main drive	3,2 - 5,5 kW
Weight	1550 - 1750 kg

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FPK 4.3



#### TECHNICAL SPECS

Table set up area	1370 x 250 mm
Travel X-axis	800 mm
Spindle speed (vertical)	70 - 3600 1/min
Spindle mount	SK 40 DIN 2080
Weight	1590 kg

## Conventional Vertical Milling Machines MF 5 VP

With large traverse paths, automatic feed in the X and Y axes, swiveling milling head and pneumatic tool clamping

- Swiveling cutter head with quill feed
- Pneumatic tool tightening system
- Infinitely variable spindle speed
- Feed on X-axis with rapid feed
- Heavy construction with wide guideways



#### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Operating tools, Coolant system, Pneumatic tool clamping, Chip tray, Central lubrication, Horizontal guideway cover, Table feed TV 1000 on X- and Y-axis, Operator manual

Additional options available upon request.



#### TECHNICAL SPECS

Table set up area	1370 x 320 mm
Travel X-axis	1000 mm
Spindle mount	SK 40 DIN 2080
Spindle speed (infinitely variable) (L)	70 - 450 1/min
Spindle speed (infinitely variable) (H)	450 - 3600 1/min
Spindle speeds	35 - 1500 1/min
Weight	1950 kg

## Conventional Vertical Milling Machines VHF 3.2

With swiveling vertical milling head, automatic servo feed in all axes, horizontal spindle and swivel table

- Swiveling cutter head with automated quill feed
- Horizontal spindle with its own drive
- Swiveling milling table
- Servo-motor for infinitely variable feed on all axes
- Extensive standard equipment



#### STANDARD EQUIPMENT

Chip tray, Coolant system, Central lubrication, 3-axis position indicator X.Pos 3.2, Operator instructions, M16 draw bar, Operating tools, Cutter arbor Ø 27 mm

Additional options available upon request.



VHF 3.2

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## Conventional Vertical Milling Machines VHF 2.2

Universal milling machine with swiveling cutter head, automated feed in X and Y axes, horizontal spindle and extensive standard equipment

- Tilting vertical milling head
- Automatic feed in X and Y axes
- Horizontal spindle with counter holder
- Extensive package of standard accessories



### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Coolant system, Work lamp, Operating tools, Operator instructions, M16 draw bar, Outer arbor support for horizontal milling, Chip tray, Cutter arbor Ø 27 mm

Additional options available upon request.



### TECHNICAL SPECS

Table set up area	1270 x 280 mm
Travel X-axis	700 mm
Spindle speed (vertical)	115 - 1750 1/min
Spindle mount	SK 40 DIN 2080
Weight	1400 kg

## Conventional Vertical Milling Machines VHF 1.1

Console milling machine with swiveling milling head, automatic feed in the X-axis, horizontal spindle and swivel table

- Universal cutter head with manual quill feed
- Horizontal milling spindle with its own drive
- Infinitely variable spindle speed
- Feed on X-axis
- Extensive standard equipment



### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, 2 long cutter arbors (Ø22,Ø27 mm), Drill chuck 16 mm, Reducing sleeve ISO 40 / MT3 and ISO 40 / MT2, Coolant system, Work lamp, Operating tools

Additional options available upon request.



### TECHNICAL SPECS

Table set up area	1000 x 240 mm
Travel X-axis	535 mm
Spindle speed (vertical)	100 - 2000 1/min
Spindle mount	SK 40 DIN 2080
Spindle speed (horizontal)	60 - 1350 1/min
Weight	1000 kg

## KNUTH on YouTube Information to the point

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Please feel free to contact us!**

  
  
VHF 3



#### TECHNICAL SPECS

Table dimensions	800 x 240 mm
Drilling capacity in steel	25 - 32 mm
Travel X-axis manual / autom.	560 / 480 mm
Spindle mount	MK 4 DIN 228
Main motor rating	1,5 kW
Weight	380 kg

## Conventional Vertical Milling Machines Mark Super Series

Multi-side milling/drilling machine with automated feed in the X axis, automated quill feed and tapping unit

- Infinitely variable feed on X axis
- Automated drilling feed with depth display
- Gearbox milling head for powerful machining
- Swiveling head for wide range of applications
- Infinitely variable spindle speed with digital display (SV model only)



#### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2, Automatic quill feed, Base, Table feed TV 1000, Drill chuck 13 mm, Tool-holder bits, Operator manual

Additional options available upon request.



#### TECHNICAL SPECS

Table set up area	730 x 210 mm
Travel X-axis	500 mm
Spindle mount	MK 4 DIN 228
Speed range	75 - 3200 1/min
Main motor rating	1,5 / 1,1 kW
Weight	390 kg

## Conventional Vertical Milling Machines SBF 40 TV 1000

Universal milling/drilling machine with automated drilling feed, compound sliding table with driven X axis and swiveling gear head

- Infinitely variable feed on X axis
- Automated drilling feed with depth display
- Gearbox milling head for powerful machining
- Swiveling head for wide range of applications



#### STANDARD EQUIPMENT

Thread cutting function, Table feed TV 1000, Draw bar, Drill chuck, Tool-holder bits, Coolant system, Operator manual

Additional options available upon request.



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We look forward to seeing you!**

# Accessories Milling

## Tool Holders



The tool holder segment includes various tool holders for milling, drilling, turning and other machining processes. In most cases they allow the forces to be transferred between the tool and the machine. In addition to milling arbors and adapters, there are also drill chucks, drilling tools and tool holders in a wide variety of



## Workpiece Holding



Precise positioning and fixing of the workpiece is crucial for precise machining. Depending on the processing and type of processing required, various fixing elements are available. In addition to the classic vises and clamping tables, dividing devices for precise angular alignment are also available. The range is expanded by clamping tools such as collets and chucks for precisely fitting fixation.



## Machining Tools



The tool segment includes wear and tear parts as well as spare parts for machining types such as milling, turning and drilling. In addition to broaches for making grooves and other notches, there are various end mills for roughing and finishing. Furthermore, reamer and countersinking tools are included in this category with which, for example, bores can be reworked. Various tools are also available for turning and drilling. When selecting the suitable tool, attention must be paid not only to the tool dimensions but also to compatibility with the respective tool holder.



## Measuring technology



The required tolerances and dimensions can only be adhered to by constantly monitoring the decisive parameters. For this purpose, KNUTH Machine Tools provides various measuring equipment and control elements. In addition to dial gauges and analog or digital micrometers, measuring and control plates can also be used.



The new KNUTH Accessory Shop is now live! → [Shop now](#)



# Grinding Machines



**NC Surface Grinders**

Page 27



**Conventional Cylindrical Grinders**

Page 28/29



**Tool Grinders**

Page 28

## Conventional Surface Grinders

### HFS F NC Series

Moving column design with automated control of X and Z axes and Siemens HMI

- Moving column design for maximum stability
- Magnetic clamping plate with built-in demagnetizing function
- Siemens Smart Line PLC control with grinding cycles
- NC-controlled Y/Z axes driven by servo motors
- User-friendly HMI with touchscreen
- Electronic handwheel for Y/Z axes

#### STANDARD EQUIPMENT

2-axis position indicator X.Pos 3.2, Electronic Handwheel for Y Z Axis, Grinding wheel flange, Workspace enclosure, Coolant system, Diamond dresser stand (without diamond), Balancing station, Balancing shaft, LED work lamp, Magnetic clamping plate, Adjustment screws, Operating tools, Operator manual, Siemens PLC-control with Touchscreen, Grinding wheel, Automatic central lubrication

Additional options available upon request.



#### TECHNICAL SPECS

Table dimensions	500 x 1000 - 800 x 3000 mm
Spindle center-to-table distance	600 - 920 mm
Travel X-axis	1000 - 3000 mm
Travel Y-axis	500 - 810 mm
Grinding wheels dimens (l x w)	350 x 40 x 127 - 500 x 75 x 305 mm
Weight	5500 - 14000 kg

## Conventional Surface Grinders

### HFS F Advance Series

Surface grinders with automated control of Z axis and Siemens HMI

- Magnetic clamping plate with built-in demagnetizing function
- Vertical axis with ballscrew and servo motor for high precision
- Easy auto-mode programming with Siemens PLC and touchscreen
- Extensive standard equipment package

#### STANDARD EQUIPMENT

2-axis position indicator X.Pos 3.2, Electronic hand-wheel, Grinding wheel flange, Automatic central lubrication, Workspace enclosure, Coolant and suction device, Grinding wheel dresser, Balancing station, Balancing shaft, LED work lamp, Magnetic clamping plate, Adjustment screws, Operating tools, Demagnetization unit, Siemens PLC-control with Touchscreen, Operator manual, Grinding wheel

Additional options available upon request.



#### TECHNICAL SPECS

Table dimensions	508 x 254 - 1020 x 406 mm
Workpiece weight (max.)	180 - 600 kg
Spindle nose-to-table surface distance	450 - 580 mm
Travel X-axis	560 - 1130 mm
Motor rating main drive	2,2 - 4 kW
Grinding wheel dimensions	200 x 20 x 31,75 - 350 x 40 x 127 mm
Weight	1800 - 3700 kg

## Conventional Surface Grinders

### FSM 480

Ideal grinder featuring many standard features for workshop applications

- Cast-iron machine base absorbs vibrations
- Magnetic clamping plate 125 x 300 mm
- Extensive standard equipment included
- Angle-adjustable grinding vise

#### STANDARD EQUIPMENT

Exhaust vacuum, Work lamp, Magnetic clamping plate 125 x 300 mm, Balancing shaft, Balancing station, Angle - adjustable grinding vise, Operating tools, Operator manual, Grinding wheel flange, Grinding wheel dresser, Grinding wheel

Additional options available upon request.



#### TECHNICAL SPECS

Table dimensions	210 x 450 mm
Spindle axis-to-table surface distance	450 mm
Travel X-axis	480 mm
Grinding wheel dimensions	200 x 13 x 32 mm
Motor rating main drive	1,5 kW
Weight	730 kg



#### TECHNICAL SPECS

Center height	135 - 180 mm
Working spindle taper	4 MT
Grinding length	750 - 2000 mm
Workpiece weight between centers (max.)	80 - 150 kg
Grinding diameter	8 - 200 - 15 - 320 mm
Grinding wheel dimensions	400 x 50 x 203 - 500 x 50 x 203 mm

## Conventional Cylindrical Grinders RSM C Series

Inside and outside machining with auto feed on transverse axis

- Internal and external grinding
- Hydrostatic bearings for high surface quality
- Heavy machine frame to support large workpieces
- Swiveling headstock for conical grinding of short parts
- Integrated rapid feed on Z-axis with manual return
- Extensive package of standard accessories



#### STANDARD EQUIPMENT

2-axis position indicator X.Pos 3.2, Internal grinding equipment, Open rest, Closed rest, 3-jaw chuck Ø 200 mm, Coolant system, Grinding wheel dresser, Balancing station, Balancing mandrel, Grinding wheel flange, Center point, Front and rear splatter guard, Drivers, Operating tools, Operator manual, Test certificate

Additional options available upon request.



#### TECHNICAL SPECS

Center height	135 mm
Workpiece length (max.)	640 - 950 mm
Grinding length	500 - 800 mm
Grinding diameter	8 - 200 mm
Workpiece weight betw. centers (max.)	50 kg
Grinding wheel dimensions	400 x 50 x 203 mm

## Conventional Cylindrical Grinders RSM A Series

Inside and outside machining with manual feed on transverse axis

- Internal and external grinding
- Hydrostatic bearings for high surface quality
- Swiveling headstock for conical grinding of short parts
- Integrated rapid feed on Z-axis with manual return
- Extensive package of standard accessories



#### STANDARD EQUIPMENT

2-axis position indicator X.Pos 3.2, Internal grinding equipment, 3-jaw chuck Ø 200 mm, Chuck flange, Balancing station, Balancing mandrel, Dress equipment, Center point, Grinding wheel flange, Coolant system, Drivers, Work lamp, Operating tools, Operator instructions, Open rest, Closed rest

Additional options available upon request.



#### TECHNICAL SPECS

Grinding diameter	200 mm
Workpiece length (max.)	500 mm
Workpiece weight (max.)	10 kg
Travel Z-axis	480 mm
Grinding spindle speed	2500 1/min
Motor rating main drive	1,1 kW

## Tool Grinders Multi-Grind

Multifunctional machine with inner and outer grinding device, ideal for sharpening tools and light grinding work

- Outer and inner cylindrical grinding
- Surface grinding
- Tool grinding
- Hydraulic table feed
- Wide range of accessories



#### STANDARD EQUIPMENT

Coolant system, Exhaust vacuum, Tool mount / indexing head MT 4, Internal grinding unit including 2 die grinders, 3-jaw chuck Ø 100 mm, Left tailstock, Right tailstock MT 2, Center point, Half center points, Balancing station, Spindle extension, Vise for surface grinding (3-D angle adjustment), Spring stop, 5 drivers, Various splash guards, Grinding wheel guard (2x), Automatic central lubrication, Operator manual, Test certificate

Additional options available upon request.

# Servogrind® RSM NC Series

Servo-conventional cylindrical grinding with NC-controlled cycles for internal and external machining

- NC control with touchscreen
- Grinding cycles for internal and external cylindrical grinding
- Servomotors in both axes
- Swivelling table and swivelling work spindle
- Extensive range of standard accessories



## STANDARD EQUIPMENT

NC control with touchscreen, electronic handwheel Y-, Z-axis, internal grinding device, work area protection, pneumatic tailstock quill, 3-B chuck Ø 200 mm, grinding wheel dresser, balancing arbor and balancing stand, open and closed steady rest, coolant device, automatic central lubrication, accessories for grinding, LED work light, operating instructions



Additional options available upon request.

## TECHNICAL SPECS

Center height	180 mm
Working spindle taper	4 MT
Grinding length	1000 - 1500 mm
Grinding diameter	8 - 320 mm
Workpiece weight between centers (max.)	150 kg
Grinding wheel dimensions	400x50x127 - 400x50x203 mm



# Drilling Machines



**Radial Drilling Machines** Page 31/32



**Quick-Action Radial Drilling Machines** Page 32



**Column Drilling Machines** from Page 33



**Bench Drilling Machines** Page 34 / 35





on the **Touchscreen**

## Radial Drilling Machines **R-VT PRO Series**

**NEW**

**3 Year Warranty** on the Touchscreen

Servo-conventional radial drilling machine with advanced functions and large touchscreen

- Unique operating concept
- Advanced control of machine functions
- Servomotor-driven quill feed
- Rigid design with proven high stability



### STANDARD EQUIPMENT

Automatic thread cutting cycles, Touchscreen control panel, Servo motor for quill feed, Manual central lubrication, Coolant system, Work light, Height adjustable spindle cover, Operator instructions

Additional options available upon request.

## Radial Drilling Machines **R-V Series**

Infinitely variable spindle speed, feed gear and a wide range of sizes characterise our proven bestseller series

- Infinitely variable spindle speed with digital display
- A cube table offers extended clamping possibilities
- Robust construction for constant high accuracy
- Modern design for easy and comfortable operation



### STANDARD EQUIPMENT

Coolant system, Cube table, LED work lamp, Operator instructions

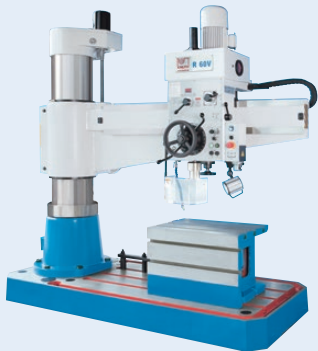
Additional options available upon request.



Drilling

### TECHNICAL SPECS

Drilling capacity	40 - 80 mm
Drilling depth (max.)	250 - 400 mm
Spindle nose-to-table surface distance	300 - 1200 - 360 - 1560 mm
Speed range	30 - 1400 - 74 - 2200 1/min
Spindle mount	4 - 6 MT
Motor rating main drive	2,2 - 7,5 kW



### TECHNICAL SPECS

Drilling capacity	40 - 80 mm
Drilling depth (max.)	260 - 400 mm
Spindle nose-to-table surface distance	300 - 1200 - 400 - 1580 mm
Speed range	30 - 1400 - 54 - 2150 1/min
Spindle mount	4 - 6 MT
Motor rating main drive	2,2 - 7,5 kW



#### TECHNICAL SPECS

Drilling capacity	32 mm
Spindle nose-to-table surface distance	320 - 860 mm
Quill stroke	240 mm
Speed range	75 - 1220 1/min
Spindle mount	4 MT
Motor rating main drive	1,5 kW



#### TECHNICAL SPECS

Drilling capacity	50 mm
Spindle nose-to-table surface distance	760 mm
Quill stroke	200 mm
Spindle mount	4 MT
Spindle speed (infinitely variable)	50 - 2000 1/min
Motor rating main drive	3 kW

## Radial Drilling Machines R 32 Basic

Compact radial drilling machine with a large throat, manual axis clamping and automatic quill feed

- Easy positioning on all axes
- Motorized height adjustment of the boom
- Spindle made of premium hardened steel
- Mechanical clamping for head, column, and arm



#### STANDARD EQUIPMENT

Coolant system, Cube table, Halogen lights

Additional options available upon request.

## Radial Drilling Machines KSR 50 VT



Fast smooth positioning of the drilling quill on 3 possible workstations, with servo quill feed and infinitely variable spindle speed, large touchscreen control panel and extra drilling power

- Unique operating concept
- 3 work stations
- Expanded control of machine functions
- Servomotor-driven quill feed
- Linear guides for smooth, high-precision movement of the arm



#### STANDARD EQUIPMENT

Touchscreen monitor, Additional setup areas at the side and rear, Cube table, Swiveling horizontal table, Work lamp, Coolant system, Thread cutting function, Reduction sleeves, Operating tools, Operator manual

Additional options available upon request.



KSR 50 VT

## KNUTH on YouTube Information to the point

You can find videos for most machines on our YouTube channel. We show the machines from current deliveries, and you get an impression of the handling, processing quality, and machining performance.

**Are you interested in a machine for which you cannot find a current video?  
Please feel free to contact us!**

## Column Drilling Machines SSB 70 Xn Advanced

**NEW**

**3** Year  
Warranty on the Touchscreen

Heavy drill press with high drilling power, touchscreen and motorized table height adjustments

- High drilling power
- Touchscreen control panel
- Precision-stepped gear drive
- Quill feed shifted via manual transmission
- Motorized table height adjustment
- Work table swivels and rotates



### STANDARD EQUIPMENT

Control panel with touchscreen, Thread cutting function, Automatic spindle feeds, Motorised table height adjustment, Accessory set for drilling, Coolant system, Protective shield, LED work lamp, Operator instructions

Additional options available upon request.

## Column Drilling Machines SSB F Super VT Series

**3** Year  
Warranty on the Touchscreen

Drill presses with touchscreen, modern inverter technology, and motorized table height adjustment

- Touchscreen control panel with extra functions
- Automatic feed with manual transmission
- Infinitely variable speed control
- Motorized table height adjustment
- Swiveling and rotating work table



### STANDARD EQUIPMENT

Touchscreen controller, Thread cutting function, Automatic spindle feeds, Motorised table height adjustment, Accessory set for drilling, Coolant system, Protective shield, LED work lamp, Operator instructions

Additional options available upon request.

## Column Drilling Machines SSB F 60 Super VT PRO

**3** Year  
Warranty on the Touchscreen

Powerful drill with touchscreen control panel, servo quill feed with advanced functions

- High drilling and thread cutting capacity
- Servo motor for quill feed
- Touchscreen control panel with additional features
- Infinitely variable speed
- Motorized table height adjustments
- Swiveling and rotating setup table



### STANDARD EQUIPMENT

Touchscreen controller, Automatic thread cutting cycles, Automatic drilling feed, Motorised table height adjustment, Accessory set for drilling, Coolant system, Protective shield, LED work lamp, Operator instructions

Additional options available upon request.



### TECHNICAL SPECS

Drilling capacity	70 mm
Quill stroke	270 mm
Spindle nose-to-table surface distance manual	792 mm
Spindle nose-to-table surface distance motorised	740 mm
Spindle mount	5 MT
Speed range	38 - 1230 1/min
Motor rating main drive	5,5 kW



### TECHNICAL SPECS

Drilling capacity	40 - 50 mm
Quill stroke	190 - 200 mm
Spindle nose-to-table surface distance	575 - 595 mm
Speed range	50 - 2000 - 60 - 2600 1/min
Spindle mount	4 MT
Motor rating main drive	2 - 3 kW



### TECHNICAL SPECS

Drilling capacity	60 mm
Quill stroke	200 mm
Spindle nose-to-table surface distance	520 mm
Speed range	50 - 316 - 316 - 2000 1/min
Motor rating main drive	4 kW



## Column Drilling Machines **SSB Xn Series**

Our best selling, gear driven drill press for your workshop. These drilling machines have a thick-walled column, powerful drives and robust gearboxes for spindle and feed.

- Tilting table for drilling at an angle
- Automatic drilling feed
- Work table with 2 axes of rotation for flexibility in operation
- Well-considered safety protection
- Integrated coolant system



### TECHNICAL SPECS

Drilling capacity	32 - 40 mm
Spindle nose-to-table surface distance	610 - 630 mm
Quill stroke	160 - 190 mm
Spindle mount	4 MT
Speed range	75 - 2020 - 125 - 3030 1/min
Motor rating main drive	1,2 kW

### STANDARD EQUIPMENT

Thread cutting function, Accessory set for drilling, Coolant system, Protective shield, LED work lamp, Operator instructions

Additional options available upon request.



## Column Drilling Machines **KB 32 SFV Pro**

Top model of the KB drilling machines with infinitely variable speed adjustment, automatic feed and touchscreen control panel

- Automatic feed
- Touchscreen
- Thread cutting unit



### TECHNICAL SPECS

Drilling capacity	32 mm
Spindle nose-to-table surface distance	800 mm
Quill stroke	150 mm
Speed range, high	400 - 2250 1/min
Motor rating main drive	3 kW

### STANDARD EQUIPMENT

Touchscreen control panel, Automatic quill feed, LED work lamp, Coolant system, Drill chuck, Tool-holder bits, Drill press vise, Thread cutting function, Operating tools, Operator manual

Additional options available upon request.



## Column Drilling Machines **KB 20 SV**

Table design with infinitely variable speed adjustment and touchscreen for parameters setup

- Compact table design
- Touchscreen for selection of functions
- Integrated LED work light
- Thread cutting unit
- Infinitely variable main spindle speed



### TECHNICAL SPECS

Drilling capacity	20 mm
Spindle nose-to-table surface distance	366 mm
Quill stroke	135 mm
Speed range	205 - 2045 1/min
Spindle mount	2 MT
Motor rating main drive	1,1 kW

### STANDARD EQUIPMENT

Drill chuck, Tool-holder bits, Drill press vise, Thread cutting function, Operating tools, LED work lamp, Operator manual

Additional options available upon request.

## Column Drilling Machines KB 32 SF

Column drilling machine with manual feed and heavy-duty belt drive

- Compact and powerful
- Digital speed display
- Tapping feature
- Integrated work light
- Delivered with drill chuck and vise



### STANDARD EQUIPMENT

Drill chuck, Tool-holder bits, Drill press vise, Thread cutting function, Operating tools, Coolant system, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Drilling capacity	32 mm
Spindle nose-to-table surface distance	813 mm
Quill stroke	150 mm
Speed range	320 - 1820 1/min
Spindle mount	3 MT
Motor rating main drive	1,5 kW

## Column Drilling Machines TSB Series

Featuring gear drive, swivel drilling head and digital display for spindle speed

- Compact table design
- Swiveling drill head
- Manual transmission for high torque



### STANDARD EQUIPMENT

Base, Protective shield, LED work lamp, Drill chuck, Operating tools, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Drilling capacity	25 - 35 mm
Spindle nose-to-foot distance	645 - 650 mm
Spindle speed	125 - 2825 - 125 - 3030 1/min
Spindle mount	3 - 4 MT
Quill stroke	110 - 155 mm
Motor rating main drive	0,75 - 1,2 kW

# Accessories Clamping Tool

## Vises



Workpieces must be held firmly on the machine table. For small and medium workpieces, a vise is the optimum solution for a firm hold and precise angular and parallel clamping. The machine or milling vise must be matched to the application to provide the required high stability and clamping force to withstand the strong vibrations and lateral forces that are exerted on the workpiece during machining. For drilling operations axial forces are the greatest concern, while for grinding and electric discharge machining maximum precision is top priority. KNUTH has the right vise for every application.



**The new KNUTH Accessory Shop is now live! → Shop now**

# Band and Circular Saws



**Mitre Cutting Bandsaws** from Page 37



**Horizontal Cutting Bandsaws** from Page 37



**Vertical Bandsaws** Page 40



**Manual Circular Saws** Page 40

## Horizontal Mitre Cutting Bandsaws

### ABS S NC Series

Double-column design, Omron NC control with high-precision servo material feed and hydraulic bundle clamping device for series processing

- Double-column design with precise linear guidance
- Miter cutting with hydraulic workpiece clamping and digital display
- Omron touchscreen controller for fast programming and setup
- Automated stroke height control with optical sensor



#### STANDARD EQUIPMENT

Omron control with touchscreen, Automatic workpiece feed (servo), Hydraulic part clamping, hydraulic cutting angle clamping, Digital angle display, Optical height adjustment, Saw-band, Mechanical saw blade tensioning with hydraulic pressure gauge, Saw blade cleaner brush, Coolant system, Operating tools, Operator manual

Additional options available upon request.

#### TECHNICAL SPECS

Cutting capacity 0° (round)	325 - 540 mm
Cutting capacity 30° (round)	325 - 540 mm
Cutting capacity 45° (round)	300 - 510 mm
Motor rating main drive	2,2 - 4 kW
Blade dimensions	4380 x 34 x 1,1 - 6000 x 41 x 1,3 mm
Weight	1860 - 4190 kg

## Horizontal Mitre Cutting Bandsaws

### ABS 350 C

Fully automatic miter band saw with vice integrated feed rollers and touch screen control panel

- Vice with feed rollers
- Angle cutting possibility for increased versatility
- Facile operation via touchscreen
- Height adjustment with switch to speed up the cutting process
- Workpiece counter to facilitate continuous production
- Manual top vise for bundle cutting



#### STANDARD EQUIPMENT

Automatic band break control, Bundle vise, Coolant system, Hydraulic part clamping, Operating tools, Saw-band, Chip wiper, Feed roller table 1,2 m, Operator instructions

Additional options available upon request.

#### TECHNICAL SPECS

Cutting capacity 0° (round)	350 mm
Cutting capacity 30° (round)	320 mm
Cutting capacity 45° (round)	320 mm
Motor rating main drive	2,2 kW
Blade dimensions	4160 x 34 x 1,1 mm
Weight	1050 kg

## Horizontal Straight Cutting Bandsaws

### ABS 320 PLC

Fully automatic band saw with motorized material feed. Operation is simple, and the touchscreen guides the operator through the machine setup.

- Touchscreen for automatic feed
- Hydraulic workpiece clamping
- Bundling vise
- Infinitely variable cutting speeds



#### STANDARD EQUIPMENT

SPS-control with touch-screen, Hydraulic part clamping, Bundle vise, Mechanical saw blade tensioning with hydraulic pressure gauge, Optical height adjustment, Automatic band break control, Feed roller table 1,2 m, Coolant system, Saw-band, Saw blade cleaner brush, Operating tools, Operator instructions

Additional options available upon request.

#### TECHNICAL SPECS

Cutting capacity 0° (round)	320 mm
Cutting capacity 0° (square)	300 mm
Cutting speed	20 - 100 m/min
Motor rating main drive	1,5 kW
Blade dimensions	3660 x 27 x 0,9 mm
Weight	765 kg



#### TECHNICAL SPECS

Cutting capacity 0° (round)	380 - 1020 mm
Cutting capacity 45° (round)	300 - 810 mm
Cutting speed	20 - 100 m/min
Motor rating main drive	3 - 7,5 kW
Blade dimensions	4800 x 34 x 1,1 - 9500 x 54 x 1,6 mm
Weight	1150 - 5860 kg

## Horizontal Mitre Cutting Bandsaws HB L Series

Stable double column construction with linear guide for large diameters with hydraulically clamping and swivelling vice

- Double column design with linear guide
- Semi-automatic operation
- Automatic stroke height adjustment with optical sensor
- 45° swiveling vise for miter cutting
- Short setup time for machine and workpiece



#### STANDARD EQUIPMENT

Bimetallic band saw blade, Hydraulic part clamping, Automatic stroke height adjustment, Feed roller table 1 m, Coolant system, Operator instructions

Additional options available upon request.



#### TECHNICAL SPECS

Cutting capacity 0° (round)	320 mm
Cutting capacity 45° (round)	320 mm
Cutting capacity 60° (round)	260 mm
Motor rating main drive	2,2 kW
Blade dimensions	4160 x 34 x 1,1 mm
Weight	1000 kg

## Horizontal Mitre Cutting Bandsaws HB 320 BS

Miter bandsaw with swivel frame and hydraulic machine vise

- Saw frame can swivel 60° for miter cutting
- Semi-automated operation
- Automated stroke height control with optical sensor
- Low machine and workpiece setup times



#### STANDARD EQUIPMENT

Hydraulic part clamping, Coolant system, Linear stop, Feed roller table 1,2 m, Operator manual

Additional options available upon request.



#### TECHNICAL SPECS

Cutting capacity 0° (round)	225 - 355 mm
Cutting capacity 45° (round) L	145 - 290 mm
Cutting capacity 45° (round) R	120 - 350 mm
Cutting capacity 60° R (round)	90 - 230 mm
Cutting capacity 60° R (square)	90 - 180 mm
Motor rating main drive	1,1 - 2,2 kW
Weight	295 - 805 kg

## Horizontal Mitre Cutting Bandsaws SBS Series

Double miter bandsaw with great cutting performance in the best processing quality and with an outstanding price-performance ratio

- One-piece cast-iron saw frame
- Rigid vise with long stroke
- High cutting capacity
- Compact design
- Quick-action angle adjustment left and right



#### STANDARD EQUIPMENT

1 saw blade, Coolant system, Base, Pressure gauge for saw blade tensioning, Hydraulic cylinder for saw frame, Operator instructions

Additional options available upon request.



## Horizontal Mitre Cutting Bandsaws **HB 250 A**

Affordable workshop bandsaw with quick action clamping and miter cutting

- Cast-iron saw frame, one-piece construction
- Two speeds for cutting optimization
- Hydraulic lowering
- Vise with quick-action clamping feature



### STANDARD EQUIPMENT

1 saw blade, Coolant system, Base, Hydraulic cylinder for saw frame, Operator instructions, Quick-action vise

Additional options available upon request.

### TECHNICAL SPECS

Cutting capacity 0° (round)	225 mm
Cutting capacity 45° (round)	155 mm
Cutting capacity 60° - round	90 mm
Belt speed	40 / 90 m/min
Main motor rating	1,1 kW
Weight	185 kg

## Horizontal Mitre Cutting Bandsaws **B 200 S**

Economical mobile bandsaw for workshop use with swiveling vise for miter cuts

- One-piece cast-iron saw frame
- 45° swiveling vise for miter cutting
- Compact design
- Hydraulic cylinder-adjustable saw frame feed
- Coolant unit in machine base



### STANDARD EQUIPMENT

Coolant system, Quick-action vise, Mobile base, Saw-band, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Cutting capacity 0° (round)	205 mm
Cutting capacity 45° (round) L	135 mm
Belt speed	24 / 41 / 61 / 82 m/min
Motor rating main drive	1,1 kW
Blade dimensions	2360 x 20 x 0,9 mm
Weight	190 kg

## KNUTH on YouTube Information to the point

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**Are you interested in a machine for which you cannot find a current video?  
Please feel free to contact us!**



SBS 355



#### TECHNICAL SPECS

Cutting capacity 0° (round)	330 - 560 mm
Stop length	500 mm
Cutting speed infinitely variable	20 - 100 m/min
Blade dimensions	4160 x 34 x 1,1 - 6000 x 41 x 1,3 mm
Motor rating main drive	3 - 4 kW
Weight	1250 - 2100 kg



#### TECHNICAL SPECS

Table dimensions	500 x 400 x 890 - 700 x 660 x 980 mm
Cutting speed	10 - 180 - 15 - 328 m/min
Motor rating main drive	0,55 - 1,5 kW
Blade width	3 - 15 - 6 - 19 mm
Blade length	2835 - 2915 - 4430 - 4520 mm
Weight	275 - 555 kg



#### TECHNICAL SPECS

Max. saw blade diameter	250 - 350 mm
Speed	18/36 - 42 1/min
Cutting capacity 0° (round)	60 - 120 mm
Cutting capacity 45° (round) L	55 - 105 mm
Main motor rating	0,75 / 1,3 - 1,1 kW
Weight	143 - 236 kg

## Horizontal Straight Cutting Bandsaws ABS L Series

Sturdy double-column design with large cutting capacity and robust fully automatic feed for efficient series production

- Dual column design for superior stability
- Material feed system with workpiece guide rollers
- Hydraulic workpiece clamping
- Optical detection of the workpiece height
- Feed roller table 1,2 m



#### STANDARD EQUIPMENT

Saw-band, Workpiece counter, Band break control, Coolant system, Hydraulic clamping, Mechanical saw blade tensioning with hydraulic pressure gauge, Feed roller table 1,2 m, Linear stop, Operator instructions

Additional options available upon request.

## Vertical Bandsaws VB-A Series

The solution for contour sawing with a particularly stable saw frame, table that can be swivelled on both sides, minimum quantity cooling and strip welding unit

- Swiveling table
- Infinitely variable belt speed
- Adjustable saw blade guide with carbide jaws
- Saw blade welder with shearing and grinding unit



#### STANDARD EQUIPMENT

Saw blade welder assembly, Blade cutting unit, Work lamp, Saw-band, Coolant system, Adjustable material stop for table, Operator instructions

Additional options available upon request.

## Circular Sawing Machines KKS T Series

Robust manual cold circular saw for workshop use with precise miter adjustment and space-saving base frame

- High-precision angle cuts
- Rigid vise
- Rigid machine base included
- Built-in coolant system



#### STANDARD EQUIPMENT

Base, Coolant system, 1 saw blade, Operator instructions

Additional options available upon request.

# Accessories Sawing

## Roller Conveyors



Roller conveyors are an excellent addition to circular and band saws. The fed material is reliably and continuously supported. This makes material handling much easier and ensures safety. Roller conveyors are available in various lengths and in versions with length stops.



## Saw Blades



Our saw blades stand for highest product quality “Made in Germany”. State-of-the-art production technologies, the best materials and high process stability ensure their reproducibility.

- **“100% Made in Germany“**  
All products are manufactured in Germany. The high quality is ensured during the entire production process.
- **Best input materials**  
For the production of all products only such materials are used that meet strict quality guidelines.
- **State-of-the-art manufacturing technologies**  
The manufacturing methods and production processes are constantly being further developed.
- **Continuous quality controls**  
The high product quality is ensured by continuous quality controls.



## Circular Saw Blades



Our circular saws ensure high angularity and short cutting times for rod material and profile machining. They use premium saw blades that are known for their precision, optimum teeth design and suitable blade surfaces. We also offer specific saw blades for the circular cold saws in our portfolio. This ensures cost-effective, reliable, and clean machining of cast-iron and steel.



The new KNUTH Accessory Shop is now live! → [Shop now](#)



# EDM Machines



**CNC Wire Cut EDM Machines**

Page 43



**Die Sinker EDM Machines**

Page 43

## Wire Cut EDM Neospark T 500

CNC wire eroding machine with reciprocal high-speed eroding wire system

- Electrical discharge machining with highest cost-efficiency
- C3 class ballscrew transmission on XYUV axis
- Easily programmable CNC control with integrated CAD/CAM software
- Real-time system diagnostics, high process reliability
- Time-saving programming during the machining process

### STANDARD EQUIPMENT

IPC-based control system, Electronic manual control unit, Aluminium cutting function, USB port, Ethernet port, Standard wire guides, Dielectric tank with pump, Work lamp, Leveling plates and jacks, Central lubrication, Operating tools, Operator instructions



### TECHNICAL SPECS

Table dimensions	800 x 500 mm
Workpiece weight (max.)	600 kg
Travel X-axis	500 mm
Travel Y-axis	400 mm
Travel Z-axis	300 mm
Generator	10 A

Additional options available upon request.

## Die Sinker EDM ZNC-EDM Series

ZNC-controlled electrical discharge machine with manually positioned work reservoir for tool and die making

- User-friendly CNC control
- Preloaded ball screws on all axes
- High-precision preloaded ball screws on Z-axis
- High quality components
- Integrated diagnostic system



### TECHNICAL SPECS

Table dimensions	450 x 280 - 700 x 450 mm
Workpiece weight (max.)	200 - 2000 kg
Quill stroke	200 - 300 mm
Travel X-axis	250 - 700 mm
Travel Y-axis	200 - 600 mm
Mean generator capacity	40 - 100 A

Additional options available upon request.

# Consumables

for Eroding



Wire erosion or Electronic Discharge Machining (EDM) is used for precise machining of conductive materials of any hardness, like steel, stainless steel, or titanium. Use only high-grade EDM wire, precise wire guides and process-specific dielectric to ensure long service life and low operating cost.



The new KNUTH Accessory Shop is now live! → Shop now

# Cutting Machines



**Laser Cutting Machines**

from Page 45



**Plasma Cutting Machines**

from Page 47

## Laser Cutting Machines ACE Laser PRO Series

NEW

High-power fiber laser cutting system with shuttle table, wide machining and performance spectrum, gas console and filtered vacuum system

- High cutting power with 12 to 30 kW laser sources
- Robust design with premium components
- Complete cutting package with filtered vacuum system
- Comprehensive KNUTH Service: setup, commissioning, and maintenance



Cutting

### STANDARD EQUIPMENT

Complete system with CNC control (FSCUT8000), Hypecut CAD/CAM Software, CypNest offline software, Ytterbium Faserlaser Raycus, BOCI BLT 6 generation autofocus cutting head, Filter suction system, Laser safety cabin, Automatic shuttle table system, Centralised lubrication, Cooling water cooler, Aventics proportional valve, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Workpiece weight (max.)	1500 - 5000 kg
Travel X-axis	1550 - 6350 mm
Travel Y-axis	2550 - 4100 mm
Rapid feed X-/ Y-axis	180 - 200 m/min
Z-axis rapid feed	35 m/min
Fiber laser	12000 - 30000 W
Weight	7500 - 13500 kg

## Laser Cutting Machines ACE Laser R Series

The machines of the ACE Laser series offer a cutting system that sets new standards in price and performance. They are optimally designed for the cutting process and excellent part quality. Fiber laser (Raycus) cutting system with shuttle table, wide machining and performance spectrum, gas console and filtered vacuum system.

- Rugged design with high quality components
- Complete cutting package including dust collector
- Comprehensive KNUTH service: design, setup, and maintenance



### STANDARD EQUIPMENT

CypCut CNC controller, Ytterbium fiber laser by Raycus, CypCut CAD/CAM Software, CypNest offline software, Dust collector and filtration unit, Full protective housing, Automatic exchange table, Automatic gas console with electrovalves for Oxygen and Nitrogen, Recirculating water cooling system for the laser source, Central lubrication system, Operator instructions



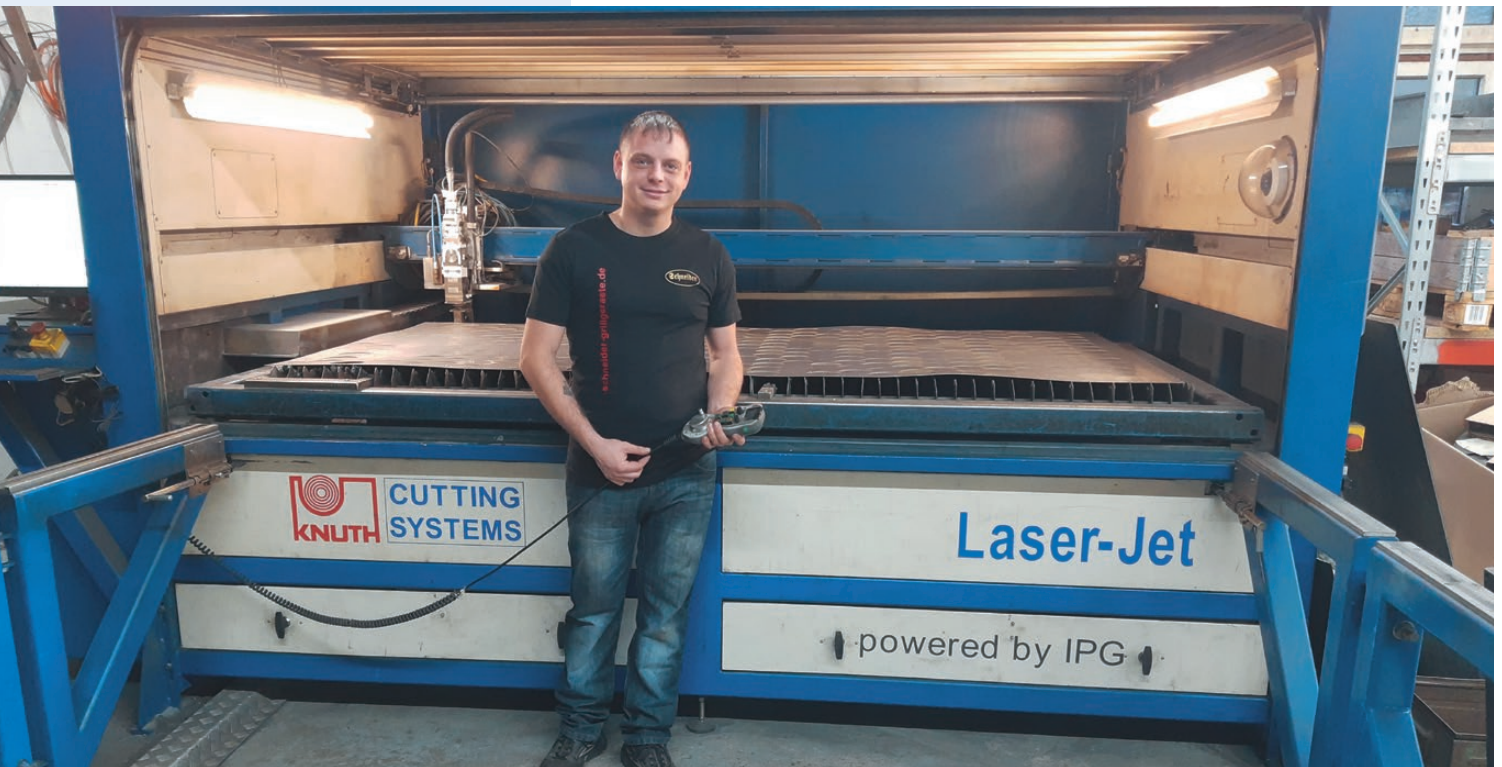
Additional options available upon request.

### TECHNICAL SPECS

Workpiece weight (max.)	1000 - 2000 kg
Travel X-axis	1520 - 2020 mm
Travel Y-axis	3050 - 6050 mm
Fiber laser	1500 - 6000 W
Rapid feed	80 - 100 m/min
Weight	8000 - 17800 kg

## A great cut: How the KNUTH Laser Jet adds to your grilling joy

Schneider Grills is a family-owned grill manufacturer that uses the KNUTH LJ 2512 Laser Cutting System on a daily basis.



**There is a wide variety of sizes and types of grills. The laser cutting system provides the necessary flexibility for quick prototype development, testing, and optimizing. Prototyping is the specialty of Mr. Naeher, an experienced employee of the German grill manufacturer Schneider Grills.**

### 20 years KNUTH Laser Cutting Machines

KNUTH supplies manufacturers with laser cutting systems since 2004. The machines of the latest ACE Laser series set new standards in our portfolio.

Additionally, KNUTH offers the complete cutting package with filtered vacuum exhaust, including full service from assembly, start-up to regular maintenance.



to the complete user report

The business is known for robust products with carefully thought out details. Bernd Schneider learned about the tools of the trade in his father's metalworking operation, and he started building grills in his free time. In 1997, he turned his hobby into a business that now has 20 employees.

Since 2017, he has been using a KNUTH Laser-Jet 2512 with a Fiber-Laser 2000 for their production. He saw the machine at the Euroblech Trade Show in Hannover, Germany, and after consultation with the KNUTH team, the excellent price-performance ratio convinced him. The fully functional entry-level model takes up less space while still providing travel distances up to 2500 mm. Focus tracking and capacitive height scanning ensure high cutting quality, and automatic cutting process guidance ensures optimum plunge-cuts as well as corner and radius cuts.

Schneider states that "still after seven years, we are very satisfied with this Laser-Jet. The machine is in use every day, and we can cut metal sheets exactly per drawing in a very short time." The previously used punching process was much more time-consuming and costly, and also rougher. With the old system, any modification required the production of a new tool. With this cutting system, the necessary modifications are merely entered at the computer and then implemented directly.

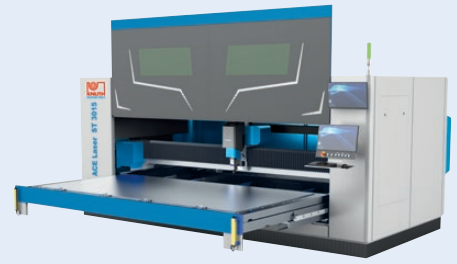


## Laser Cutting Machines ACE Laser ST Series

NEW

Fibre laser cutting system for large format sheets with motorised extendable table, wide processing and power spectrum, gas console and filter system

- Compact design, long service life and excellent beam quality
- Motorised retractable cutting table for easy loading and unloading
- Complete cutting package with filter extraction system
- Comprehensive KNUTH service: installation, commissioning and maintenance



Cutting

### STANDARD EQUIPMENT

Complete system with CNC control (FSCUT4000 6 kW and FSCUT2000 1-4 kW), CypCut CAD/CAM Software, BOCI BLT 4 Generation Autofokus cutting head (6 kW), RayTools Autofokus cutting head (1 -4 kW), CypNest offline software, Laser safety cabin, Recirculating water cooling system for the laser source, Aventics proportional valve, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Workpiece weight (max.)	1000 kg
Travel X-axis	1530 mm
Travel Y-axis	3050 mm
Fiber laser	1500 - 6000 W
Weight	5250 - 5350 kg

## Laser Cutting Machines ACE Laser Compact R Series

Small footprint design with Raytools cutting head and Raycus laser source

- Compact design with small footprint
- Powerful built-in nesting and cutting software from Cypcut
- Highly energy efficient laser sources from Raycus
- High quality cutting head with auto-focus



### STANDARD EQUIPMENT

CypCut CNC controller, Ytterbium fiber laser by Raycus, Fibre optics, High pressure cutting head with automatic focus adjustment, Automatic focus position adjustment, Full protective housing, Automatic gas console with electrovalves for Oxygen and Nitrogen, Recirculating water cooling system for the laser source, CAD/CAM software (CypCut), Operating manual and programming instructions,

Additional options available upon request.

### TECHNICAL SPECS

Workpiece weight (max.)	250 kg
Travel X-axis	1320 mm
Travel Y-axis	1320 mm
Fiber laser	1000 - 2000 W
Rapid feed	40 m/min
Weight	2040 kg

## Plasma Cutting Machines Plasma-Jet TrueCut H Series

First-class performance through Hypertherm CNC control with a large machining and power spectrum.

- Independent table for high accuracy
- Powerful ProNest LT nesting software for optimised production
- Customised for the use of HYPERTHERM plasma sources (option)
- High productivity, designed for multi-shift operation
- Extensive options for customised solutions



### STANDARD EQUIPMENT

Table prepared for filter system (automatic closure control), Panasonic Servomotors and drivers, Automatic burner height control with Hypertherm THC sensor, Cutting torch with magnetic coupling and crash sensor, Hypertherm Edge Connect CNC-Unit, 19" touchscreen by ELO, Ethercat-E, Laser pointer, ProNest LT

Additional options available upon request.

### TECHNICAL SPECS

Cutting width	1500 - 3000 mm
Cutting length	3000 - 6000 mm
Table height	700 mm
Table load capacity	520 kg/m <sup>2</sup>
Rapid feed	18000 mm/min
Weight	3100 - 9500 kg



## Plasma Cutting Machines

# Plasma-Jet TrueCut K Series

First-class performance with a large machining and power spectrum for the use of Kjellberg cutting technology

- Free-standing table construction for high accuracy
- Powerful Eckelmann controller for full cutting control
- High productivity, designed for multi-shift operation
- Extensive option list for customized solutions”



### TECHNICAL SPECS

Cutting width	1500 - 3000 mm
Cutting length	3000 - 6000 mm
Table height	700 mm
Table load capacity	520 kg/m <sup>2</sup>
Rapid feed	18000 mm/min
Weight	3100 - 9500 kg

### STANDARD EQUIPMENT

Table prepared for filter system (automatic closure control), Panasonic Servomotors and drivers, Automatic torch height control from Eckelmann, Cutting torch with magnetic coupling and crash sensor, Eckelmann CNC-Unit, 19” touchscreen by ELO, A-Modul from Beckhoff, Laser pointer, Eckelmann IBE Software cncCUT Nest

Additional options available upon request.



## Plasma Cutting Machines

# Plasma-Jet Compact H 1530

Compact system for large panels with integrated extraction table for the use of HYPERTHERM cutting technology

- Compact design
- Space saving and easy relocating
- High performance with USA Hypertherm technology
- Wide selection of Hypertherm plasma sources (optional)
- Low maintenance, rugged design



### TECHNICAL SPECS

Cutting width	1500 mm
Cutting length	3000 mm
Table height	600 mm
Table load capacity	410 kg/m <sup>2</sup>
Rapid feed	18000 mm/min
Weight	2250 kg

### STANDARD EQUIPMENT

Table prepared for filter system (automatic closure control), Panasonic Servomotors and drivers, Automatic burner height control with Hypertherm THC sensor, Cutting torch with magnetic coupling and crash sensor, Hypertherm Edge Connect CNC-Unit, 19” touchscreen by ELO, Ethercat-E, Laser pointer, ProNest LT Essentials

Additional options available upon request.



## Plasma Cutting Machines

# Plasma-Jet Compact K 1530

Compact plant for large panels with integrated extraction table for the use of cutting technology from Kjellberg

- Compact design
- Space saving and easy relocating
- High performance Eckelmann controls
- Wide selection of Kjellberg  
“Made in Germany” cutting technologies (optional)
- High productivity, designed for multi-shift operation



### TECHNICAL SPECS

Cutting width	1500 mm
Cutting length	3000 mm
Table height	600 mm
Table load capacity	410 kg/m <sup>2</sup>
Rapid feed	18000 mm/min
Weight	2250 kg

### STANDARD EQUIPMENT

Table prepared for filter system (automatic closure control), Panasonic Servomotors and drivers, Automatic torch height control from Eckelmann, Cutting torch with magnetic coupling and crash sensor, Eckelmann CNC-Unit, 19” touchscreen by ELO, A-Modul from Beckhoff, Laser pointer, Eckelmann IBE Software cncCUT Nest

Additional options available upon request.

# Plasma Cutting Machines

## Plasma-Jet AirPro Compact Series

Compact cutting systems suitable from small to large format sheets for the use of economical air plasma sources

- Compact design, fast setup
- For air plasma sources by Hypertherm or Kjellberg (optional)
- EtherCAT technology for best CNC performance
- Professional Nesting Software solution included
- With vacuum table, also optional water cutting table



Cutting

### STANDARD EQUIPMENT

PULSER 3 CNC unit, 15" HMI with touchscreen, ProNest LT Essentials, Table prepared for filter system (mechanical closure), Automatic torch height control with THC sensor, Cutting torch with magnetic coupling and crash sensor, INVT Servomotors and drivers, Laser pointer, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Cutting Width	1050 - 1550 mm
Cutting length	1550 - 3050 mm
Table height	500 mm
Table load capacity	800 kg/m <sup>2</sup>
Rapid feed	15000 mm/min
Weight	1100 - 1550 kg

# Consumables

## for Plasma Cutting



High-grade wear parts for plasma cutting systems guarantee superior cut quality and reliability while maximizing tool life and reducing operating cost. KNUTH offers a wide selection of wear parts for a wide variety of Hypertherm and Kjellberg cutting systems.



## for Laser Cutting



Fiber laser machines are known for their long service life and serve as virtually maintenance-free laser source. The fiber laser cutting head is made by the renowned manufacturer Raytools, who offers spare parts and wear parts in individual quantities or complete sets. Using these high-quality original replacement parts will result in excellent cut quality, long service life, and superior reliability of your machine. Use only original high-quality wear parts and replacement parts.



## Why original wear parts are the better choice:

- ✓ Optimal cutting quality
- ✓ Low cutting meter costs
- ✓ Defect reduction
- ✓ High process reliability
- ✓ Long life

The new KNUTH Accessory Shop is now live! → [Shop now](#)



# Presses



**Hydraulic Presses**

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**Workshop Presses**

Page 52

# Hydraulic Presses



The wide range of applications of a hydraulic press is reflected in its variety of designs and functions. With the right tools, a hydraulic press can be used in bushings as well as in embossing, deep-drawing, cutting, punching, and forming processes. The designs range from open, easy-to-load frames with low rigidity to the particularly rigid 4 column hydraulic press with high press force. KNUTH offers these as well as hydraulic C-frame press, hydraulic H-frame press and compact, horizontal hydraulic straightening press systems.

## Hydraulic Presses HPK A Series

C-form press in compact design, the perfect solution for punching, forming and drawing

- Classic design with c-frame
- Completely built in Europe for high reliability
- Designed for testing or batch production
- Possibility of Industry 4.0 integration
- Customized solution available



### STANDARD EQUIPMENT

Two-hand control panel, Adjustable stops for up/downstroke, Pressure gauge, Movable upper table with 2 guides and T-slots, Automatic operation, Automatic cylinder return, Siemens PLC, Hydraulic unit with 2 speed automatic change, Pressure switch, Timer, Operator manual

Additional options available upon request.

## Hydraulic Presses KP A Series

Compact double-column press for punching, forming and drawing with large tools

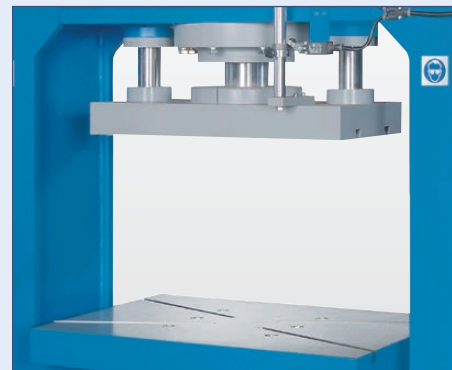
- Made in Europe
- For test and series production
- Multi-shift operation possible
- Industry 4.0 integration possible
- Customised solutions on request



### STANDARD EQUIPMENT

Two-hand control panel, Adjustable stops for up/downstroke, Pressure gauge, Movable upper table with 2 guides and T-slots, Automatic operation, Automatic cylinder return, Siemens PLC, Hydraulic unit with 2 speed automatic change, Pressure switch, Timer, Operator manual

Additional options available upon request.



### TECHNICAL SPECS

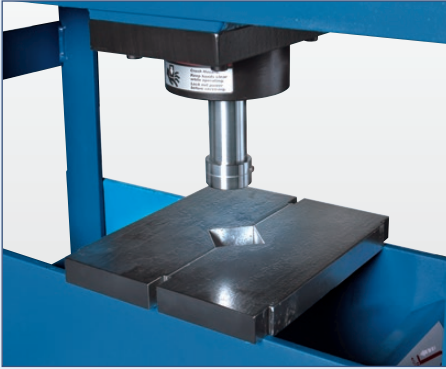
Pressure force	40 - 300 t
Table dimensions	700 x 500 - 1200 x 800 mm
Stroke	500 mm
Stroke speed	2 - 9 mm/s
Motor rating	4 - 7,5 kW
Weight	1500 - 11200 kg



### TECHNICAL SPECS

Pressure force	70 - 300 t
Table dimensions	800 x 500 - 1400 x 1000 mm
Stroke	500 mm
Stroke speed	2 - 5 mm/s
Weight	1450 - 7200 kg

# Workshop Presses



Workshop presses are part of the basic equipment of every repair workshop, for pressing bearings and shafts or for general assembly and straightening works. The welded, double H-shaped frame has a height-adjustable support. The workpieces are positioned in customized fixtures under the hydraulic cylinder. KNUTH offers workshop presses with different working widths, as well as manually and motor-driven hydraulic systems with different pressure capacities.



## Workshop Presses KNWP H Series

Hydraulic, with horizontal piston travel and a set of prismatic blocks

- Motorized hydraulic drive
- Horizontal piston travel
- Adjustable table height
- Set of prismatic blocks



### TECHNICAL SPECS

Working width	830 - 1550 mm
Pressure force	60 - 200 t
Stroke	400 mm
Press speed	6,1 - 7,12 mm/s
Motor rating hydraulic pump	3 - 7,5 kW
Weight	700 - 2600 kg

### STANDARD EQUIPMENT

Movable working cylinder, Height adjustable work table, V-blocks, Manometer, Operator manual

Additional options available upon request.



KNWP H 100

## KNUTH on YouTube Information to the point

You can find videos for most machines on our YouTube channel. We show the machines from current deliveries, and you get an impression of the handling, processing quality, and machining performance.

**Are you interested in a machine for which you cannot find a current video?  
Please feel free to contact us!**

## Workshop Presses **KNWP M Series**

Manual, ideal for craft shops, schools and training facilities

- High quality
- Made in Europe
- With hand and foot control
- Adjustable table height
- Material support included



Additional options available upon request.

## Workshop Presses **1-5 T Series**

Versatile arbor press with adjustable rod and bench mounting holes

- Compact design
- Heavy one piece casting design
- For a wide range of applications



Additional options available upon request.

## **KNUTH on YouTube** Information to the point

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### TECHNICAL SPECS

Pressure force	15 - 50 t
Operating pressure (max.)	374,6 - 399,5 bar
Total piston stroke	160 mm
Throat width	560 - 750 mm
Hydraulic tank volume	1,65 l
Weight	117 - 250 kg



### TECHNICAL SPECS

Press force	5 - 20 kN
Throat	100 - 220 mm
Workpiece thickness (max.)	147 - 400 mm
Ram dimensions	25 x 25 x 266 - 50 x 50 x 645 mm
Weight	17 - 163 kg



KNWP 50 M

# Sheet Metal Work





## Press Brakes AHK V CNC Series

NEW

CNC-controlled die bending machine for series production with extensive standard equipment and great customization potential

- Superior machining quality
- Premium hydraulic and electronic components
- Modern DELEM graphical touchscreen
- Motorized crowning included in standard equipment
- Laser optical safety system at the tool
- Time-saving detailing solutions



### STANDARD EQUIPMENT

Delem 53 T 2D touch control, X-axis backgauge with linear guide and recirculating ball screw, Motorised crowning, Quick clamping upper tool, AKAS laser-optical safety system, Light barrier, European tool clamping system, EUROPEAN TYPE upper tool (835 mm segmented), EUROPEAN TYPE Bottom tool 4V H: 60x60 mm, Foot pedal with emergency stop switch, 2 front support arms / movable, 2 height-adjustable backgauge fingers, ECO mode energy-saving function, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Pressure force	100 - 400 t
Brake length	2600 - 4100 mm
Distance between columns	2200 - 3600 mm
Stroke	265 - 310 mm
Motor rating main drive	11 - 37 kW
Weight	7200 - 20000 kg

## Control Delem 53 T 2D

### 4-axis CNC control with color touchscreen for press brakes

- The DA-53T Touch CNC is a modern, versatile solution for a wide range of press brake applications, featuring a compact design without compromising functionality.
- The controls of this series feature a graphic touchscreen monitor by Delem for easy CNC programming.
- The new compact DA-53T is a highly advanced complete touchscreen control solution for synchronized press brakes.
- This control panel can handle up to 4 axes and can be mounted either in a control cabinet or in an optional swivel arm-mounted enclosure.
- The 10.1" Multi-Touch Color TFT screen features high resolution and provides access to the proven Delem user interface.



## Press Brakes AHK M NC Series

Compact NC bending solution with X- and R-axis and extensive standard equipment as an excellent alternative to CNC machines

- Stress-relieved welded steel construction
- Top beam with torsion shaft
- NC control with touchscreen HMI
- Back gauge with X- and R-axes
- European-style male die



### STANDARD EQUIPMENT

Weintek 7" NC-control, Motorized backgauge X-axis, Motorized backgauge R-axis, European type bottom tool 4V, Upper tool H European style H = 67 mm (segmented), Laser optical safety system, Light curtain, Sliding front support arms (2 pcs), Foot pedal with emergency stop switch, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Pressure force	30 - 60 t
Brake length	1250 - 2100 mm
Distance between columns	1010 - 1700 mm
Stroke	150 - 160 mm
Motor rating main drive	3 - 7,5 kW
Weight	1700 - 4340 kg

## Guillotine Shears KHT V CNC Series

NEW



Guided guillotine shear with high cutting performance, adjustable cutting angle and proven Cybelec CNC control system

- Cybelec Touch 8 control
- Controlled back gauge with preloaded ball screw
- Controlled kerf adjustment
- Controlled cutting angle adjustment
- Knife suitable for stainless steel



### TECHNICAL SPECS

Working length	3050 - 4100 mm
Cutting angle	0,5 - 2 deg
Plate thickness (max.) - 450 N/mm <sup>2</sup>	6 - 20 mm
Plate thickness(max.) - 700 N/mm <sup>2</sup>	4 - 13 mm
Motor rating main drive	11 - 45 kW
Weight	7800 - 28000 kg

### STANDARD EQUIPMENT

Cybelec Touch 8 G controller, Energy saving function ECO mode, CNC controlled blade gap adjustment, motorized back-gauge, shadow graph display of cut line, material support table with rollers, support arms, lateral stop, foot switch with emergency stop switch, finger guard, safety system for work area, back gauging, Knife for stainless steel sheets, Operator instructions

Additional options available upon request.

## Control Cybelec Touch 8 G



- CybTouch 8 G is a powerful control that perfectly complements premium plate shears
- Like all CybTouch products, this control features a user-friendly design allowing users to get started quickly
- The intuitive HMI shows only the required information and supports a high degree of automation, while it is extremely easy to operate
- High-contrast touchscreen with vivid colors
- Simple page layout, large buttons, and an organized display that shows all the information the operator needs
- Intuitive and user-friendly interface
- Quick machine set-up via the EasyCut page
- Context-sensitive help and warning popups

## Guillotine Shears KHT M NC Series



Rigid swing beam construction with plate hold-up feature and NC control for the back gauge

- Estun E21 NC control
- Back gauge with preloaded ball screws gauge
- Pneumatic plate hold-up feature
- Cutter also suitable for stainless steel
- Adjustable angular stop



### TECHNICAL SPECS

Working length	2000 - 4000 mm
Plate thickness (max.) - 450 N/mm <sup>2</sup>	6 - 12 mm
Plate thickness(max.) - 700 N/mm <sup>2</sup>	4 - 8 mm
Cutting angle	1,5 deg
Motor rating main drive	7,5 - 18,5 kW
Weight	4500 - 13200 kg

### STANDARD EQUIPMENT

NC control Estun E21S, Pneumatic sheet support, Controlled backgauge, Shadow light cutting line, Front support arms, Foot pedal with emergency stop switch, Manual cutting gap adjustment, Full length finger guard, Safety system for back working area, Standard upper and lower knife for stainless steel sheets, Adjustable angle stop, Operating tools, Operator instructions

Additional options available upon request.

## Guillotine Shears KMT RNC Series

NEW

Sliding block guided motorized plate shears with NC-controlled back gauge

- NC-controlled back gauge can be easily programmed
- Automatic, semi-automatic, and manual modes
- Cutter for stainless steel machining included
- Reversible cutters with multiple cutting surfaces
- Adjustable kerf
- Return-to-Sender function



### STANDARD EQUIPMENT

BRL NC controller, cut counter, cut-line lighting, finger guard, light curtain, upper cutter with 2 cutting edges / Lower cutter with 4 cutting edges, foot switch with emergency stop switch, lateral stop with scale and T-slots, support arms, Motorized rear stop (750 mm), manual kerf adjustment, manual Return-to-Sender function, table with material support rollers, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Working length	1560 - 3060 mm
Plate thickness (max.) - 450 N/mm <sup>2</sup>	4 - 5 mm
Plate thickness(max.) - 700 N/mm <sup>2</sup>	2,5 mm
Cutting angle	1,3 - 2 deg
Motor rating main drive	7,5 - 11 kW
Weight	2500 - 4000 kg

## Guillotine Shears KMT M Series

NEW

Sliding-block guided motorized plate shears with manually adjustable controlled back gauge

- Solid steel weldment with sliding block guide
- Cutters for stainless steel cutting are included
- Reversible cutters with multiple cutting surfaces
- Manual back gauge with travel display
- Work area secured by light curtain



### STANDARD EQUIPMENT

Manual back gauge 750 mm, cut counter, cut-line lighting, finger guard, light curtain, upper cutter with 2 cutting edges / Lower cutter with 4 cutting edges, foot switch with emergency stop switch, lateral stop with scale and T-slots, support arms, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Working length	1360 - 2060 mm
Plate thickness (max.) - 450 N/mm <sup>2</sup>	3 mm
Plate thickness(max.) - 700 N/mm <sup>2</sup>	1,5 mm
Cutting angle	1,3 - 2 deg
Motor rating main drive	3 - 4 kW
Weight	1250 - 1750 kg

## Guillotine Shears KMT B Series

Simple, robust motorised guillotine shears with manual backgauge

- Solid steel weldment
- Rugged long support arms
- Mobile control unit with foot switch
- Manual back gauge with counter (back-of-machine operation)



### STANDARD EQUIPMENT

Foot pedal with emergency stop switch, Side angle stop, Support arms, Automatic hold-down device, Cut-line lighting, Manual rear stop, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Plate thickness (max.) - 450 N/mm <sup>2</sup>	0,8 - 2 - 0,8 - 4 mm
Working length	1250 - 2050 mm
Cutting angle	2 deg
Rear stop	630 mm
Motor rating main drive	3 - 4 kW
Weight	850 - 1520 kg

## Guillotine Shears KHS E 1000



Manual guillotine shears for precise cutting of thin plates, large support table and adjustable length stop

- Adjustable table stop
- Manually adjustable back-gauge
- Hardened cutters
- Counterweight to improve operator comfort



### TECHNICAL SPECS

Plate thickness (max.) - 450 N/mm <sup>2</sup>	1,5 mm
Working length	1040 mm
Rear stop	0 - 580 mm
Table dimensions	605 x 1100 mm
Overall dimensions (l x w x h)	1,3 x 1 x 1,5 m
Weight	460 kg

### STANDARD EQUIPMENT

Operator manual, Length stop

Additional options available upon request.

## Folding Machines SBS E Series



Heavy manual folding machine with segmented upper tool and manual crowning for large working length requirements

- Large bending lengths
- Segmented upper tool for increased bending possibilities
- Built-in manual bending compensation
- Adjustable angle stop
- Easy to use



### TECHNICAL SPECS

Working length	2020 - 3020 mm
Working height	920 mm
Plate thickness (max.) - 400 N/mm <sup>2</sup>	1,2 - 2 mm
Stroke	120 mm
Bending angle (max.)	135 deg
Weight	1025 - 1385 kg

### STANDARD EQUIPMENT

Segmented sharp nose tool type upper die, Operator manual

Additional options available upon request.

## Folding Machines SBS 1020 • 1270 Series



Compact manual swivel bending machine with segmented upper tool

- Compact and torsion-proof
- Segmented male die for many bending possibilities
- Built-in , manual bending compensation
- Adjustable angle stop for batch production
- Foot switch for top tool clamping for hands-free use



### TECHNICAL SPECS

Working length	1020 - 1270 mm
Plate thickness (max.) - 400 N/mm <sup>2</sup>	2 mm
Bending bar angle (range)	135°
Weight	285 - 330 kg

### STANDARD EQUIPMENT

Segmented sharp nose tool type upper die, Operator manual

Additional options available upon request.

## Plate Rolling Machines KRM T Series

Motor-driven rollers in asymmetrical arrangement with manual back roller adjustment for machining thin and medium plates

- Asymmetrical structure
- Main motor with braking
- Hardened rollers with wire insertion grooves
- Conical bender
- Manual rear roller adjustment (optionally motor-driven)



### STANDARD EQUIPMENT

Conical bending feature, Hardened rollers, Wire insert groove, Emergency stop safety rope, Seperate control panel with foot switch, Side cover, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Working length	1050 - 2050 mm
Plate thickness (max.) - 450 N/mm <sup>2</sup>	2 - 5 mm
Roll diameter	110 - 140 mm
Roller speed	3 m/min
Motor rating main drive	2,2 kW
Weight	990 - 1650 kg

## Plate Rolling Machines KRM AT Series

Motor-driven rollers in asymmetrical arrangement with manual back roller adjustment for machining fine and thin plates

- Asymmetrical structure
- Main motor with brakes
- Hardened rollers with wire insertion grooves
- Conical bender



### STANDARD EQUIPMENT

Conical bending feature, Hardened rollers, Wire insert groove, Emergency stop safety rope, Seperate control panel with foot switch, Side cover, Operator instructions

Additional options available upon request.

### TECHNICAL SPECS

Working length	1050 - 1550 mm
Plate thickness (max.) - 450 N/mm <sup>2</sup>	2,5 - 3 mm
Roll diameter	90 mm
Roller speed	6 m/min
Motor rating main drive	1,1 kW
Weight	480 - 580 kg

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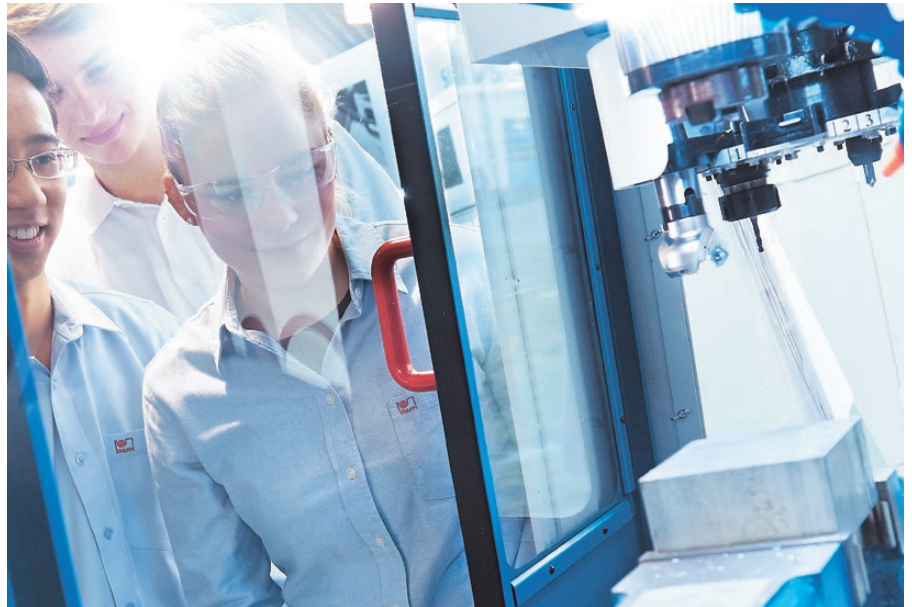


KRM AT 10/3,0

## Hands-on learning on KNUTH machines with Siemens controls

For state certified and practical vocational training

The programming instructions with the simulation software of the Siemens 808 control are ideal for CNC beginners, students and apprentices who have completed their training on conventional lathes and milling machines and have a basic knowledge of CNC machining. KNUTH machine tools have a proven track record of decades of successful use at schools and universities worldwide.



### TECHNICAL SPECS

Table dimensions	400 x 145 mm
Travel X-axis	160 mm
Spindle speed	80 - 5000 1/min
Spindle mount	SK 20 ISO 7388-1 (DIN 69871)
Motor rating main drive	1 kW
Weight	450 kg



### TECHNICAL SPECS

Workpiece length (max.)	280 mm
Turning diameter over bed	200 mm
Turning-Ø over support	90 mm
Speed range	100 - 3000 1/min
Motor rating main drive	1 kW
Weight	360 kg

## Vertical Machining Centers LabCenter 260 CNC

Compact mobile CNC milling machine with Siemens control and tool changer for training and model construction

- SIEMENS 808 Advance is the ideal introductory machine
- Preloaded ball screws on all axes
- Spindle speeds up to 5000 rpm
- 4-station tool changer
- Mobile machine base with storage space



### STANDARD EQUIPMENT

Siemens 808D Advance control, Electronic hand-wheel, 4-station tool changer, Mobile base, Central lubrication, Work lamp, Operating tools, Operating manual and programming instructions

Additional options available upon request.

## CNC Slant Bed Lathes LabTurn 2028 CNC

Compact mobile inclined-bed lathe with Siemens CNC control and tool turret for training and model construction

- Siemens 808 Advance is the ideal introductory machine
- Tool turret for inside and outside machining
- Linear guides and preloaded ball screws on all axes
- Enclosed machine housing
- Mobile machine base with ample storage space



### STANDARD EQUIPMENT

Siemens 808D Advance control, Electronic hand-wheel, 8-station turret, Mobile base, Tailstock, 3-jaw chuck Ø 100 mm, Central lubrication, Work lamp, Operating tools, Operating manual and programming instructions

Additional options available upon request.



## What should the ideal training machine for the skilled workers of tomorrow look like?

The demand for well-trained specialists is immense. At the same time, industry requirements have changed and traditional job profiles need to be adapted to modern production processes. This also applies to training and the machines used for it.

With our training machines for both conventional and CNC operations, we support the development of future-oriented training professions. For example, the TDE training center in Espenhain uses KNUTH machines to train cutting machine operators. They are mainly recruited by automotive suppliers.

„The KNUTH machines are handy, clearly laid out, easy to operate and equipped to meet the requirements of training. This is an ideal combination for training machines,“ says Daniel Müller, metal technology trainer at TDE.

A total of 200 trainees are currently learning 20 professions at TDE, 17 of which are in the industrial/technical field.

## 10 reasons for using KNUTH machines in training

- KNUTH machines are robust and reliable
- They enable intuitive learning without unnecessary hurdles
- They convey the basics and experience and enable the conventional implementation of the training task
- They are fully equipped to meet the training requirements
- They are easy to handle, clearly laid out and have operating elements that are clear in terms of function and operability
- They can be used for all standard set-up tasks
- They are up to date with the latest safety technology
- They are easy to maintain and easy to understand
- KNUTH CNC machines are equipped with a control system suitable for training purposes, which is widely used in the industry
- KNUTH machines come from a supplier with ISO certificates, good operating instructions and services as well as fast spare parts supply

## Visit KNUTH Machine Tools!

At our company headquarters, we present you on 16.000 m<sup>2</sup> of exhibition space machines and technologies from the entire spectrum of metalworking.

## Book your machine demonstration!

We have over 1000 machines in stock - many of them ready for demonstration.

We present the whole world of metalworking - from machining and forming to cutting.



### Conventional

Universal workshop machines for turning, milling, drilling, sawing and grinding. For repair, training, one-off production and industry.

### CNC Machining

Vertical CNC machining centers, horizontal CNC lathes for individual and small series production.

### Cutting Systems

We present the latest cutting technologies under one roof: plasma and laser cutting.

### Sheet Metal Working Machines

Machines for flexible sheet metal and tube processing. In addition to press brakes and guillotine shears, we will be exhibiting folding and round bending machines as well as hydraulic presses.