



# MACHINE TOOLS





# Pinnacle

## 5-axis precise Pinnacle Machining Centre



- Comprehensive configuration options
- Best quality subassemblies
- Wide variety of CNC systems
- 24 month warranty
- ISO 10791
- Wide range of additional equipment

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Eurometal Sp. z o. o. has been present on the market of machine tools for over 25 years, what guarantees the best quality of our tools and service. During those years we have earned the trust of almost 6000 customers and suppliers.

We offer nearly 100 machining and plastic working tools. Most of the machines are in stock in our showroom and warehouses. We invite all customers for the presentation of the selected machine.

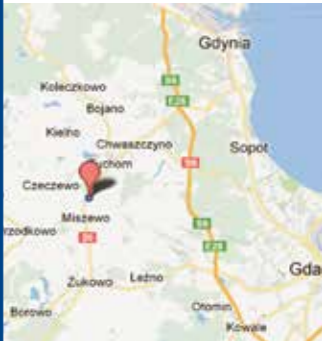
Our machines come with 12 or 24 month warranty. The machine tools bear the CE marking and come with a manual in English. All our machines are double-checked: by the manufacturer and in our warehouse before they are shipped to the customer. Spare parts and consumables are available in our warehouse.

Our service team is available for our customers 24/7 in order to handle any emergencies.

### WE OFFER

- CNC Machining centres
- Slotting machines
- CNC Milling machines
- Tool milling machines
- Hobbing machines
- Vertical milling machines
- Universal milling machines
- Milling drilling machines
- Pipe and section profile bending machines
- Training machines
- Mini lathes
- Hydraulic guillotine shears
- Mechanical guillotine shears
- Ironworkers
- Laser milling plotters
- Hydraulic press brakes
- C-frame hydraulic presses
- C-frame mechanical presses
- Circular Saws
- Band saw machines
- Surface and cylindrical grinding machines
- Tool grinders
- Multifunctional grinders
- Heavy duty lathes
- CNC lathes
- Vertical lathes
- Universal lathes
- Thread and spline rolling machines
- Square column drilling machines
- Radial drilling machines
- Bench and pillar drilling machines
- Drilling-milling machines
- Laser cutting machines
- Water cutting machines
- Boring machines
- Folding machines
- Hydraulic bending machines
- Manual bending machines

Sales office and warehouse  
1 in Miszewko



Head office



Parts warehouse



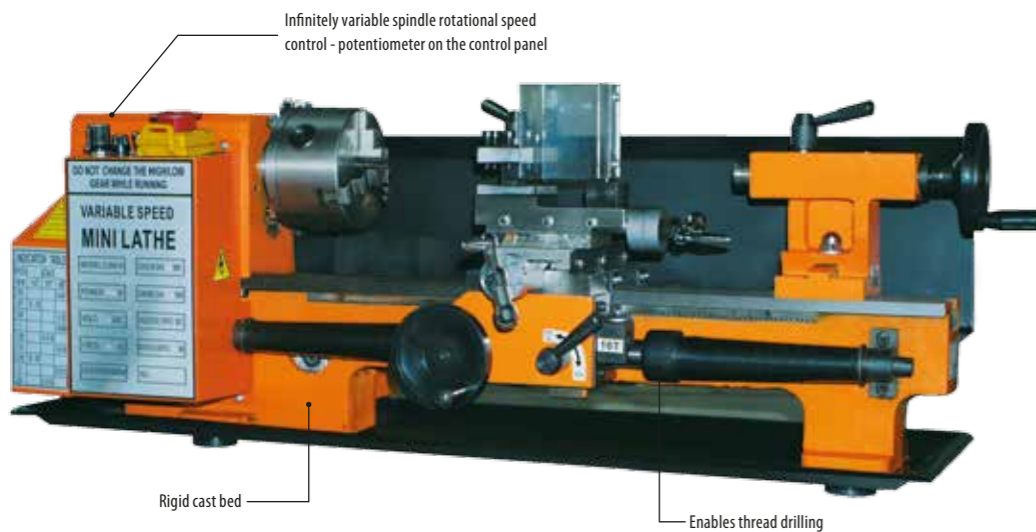
Machine warehouse 1



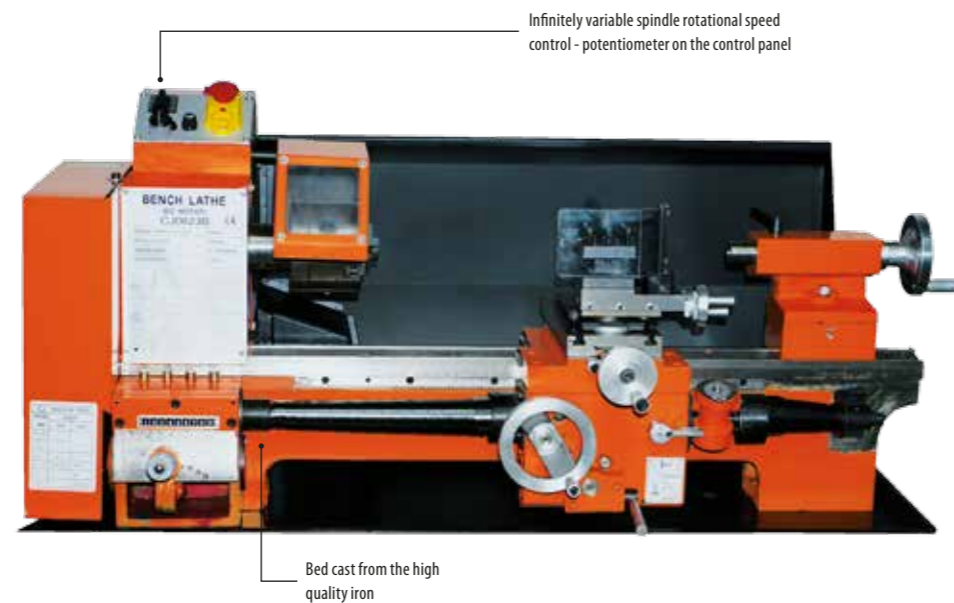
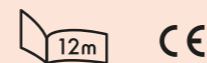
Machine warehouse 2

# LIGHTWEIGHT EUROMET D180, D230 SERIES LATHES

Lightweight Euromet D series lathes are suitable for machining small details made from ferrous alloys, non-ferrous metals and plastics. The machines are equipped with infinitely variable spindle rotational speed control and automatic feed. Rigid bed being a single cast provides proper stability and precision of machining. The lathes are also intended for hobbyists, model-makers and DIY enthusiasts.



- D180 standard equipment:**
- 3 jaw 100 mm chuck
  - chuck wrench
  - external jaws set
  - internal jaws set
  - work lights
  - manual in English
  - CE declaration of conformity



**D230 standard equipment:**

- Tool post
- 4 hex keys
- ph screwdriver
- slotted screwdriver
- 100mm lathe chuck
- chuck jaws set
- chuck wrench
- flat wrench 8/10
- MT2 centre
- MT3 centre
- 28T, 30T, 36T, 42T, 45T, 80T wheels
- manual in English
- CE declaration of conformity



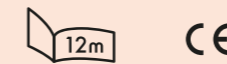
Technical data	Unit	D 180	D 230
Distance between centers	[mm]	350	500
Turning diameter	[mm]	180	230
Turning diameter over slide	[mm]	110	135
Spindle taper	[-]	MT3	MT3
Tailstock taper	[-]	MT2	MT2
Chuck diameter	[mm]	80	100
Spindle bore	[mm]	20	20
Cross travel	[mm]	65	125
Tool slide travel	[mm]	35	48
Metric thread turning range	[mm]	0.5-2.5	0.5-3
Inch thread turning range	[coil/inch]	12-52	8-56
Power feed range	[mm/turn]	-	0.12, 0.19, 0.21, 0.33
Spindle rotational speed	[rot/min]	50-2500	50-3000
Motor power	[W]	400/500	1200
Net weight	[kg]	40	105
Dimensions	[mm]	810 x 305 x 315	1055 x 565 x 575

# EUROMET D280x660 LATHE

Machine intended for small workshops and for DIY enthusiasts, suitable for light machining. Substantial range of thread turning and versatility of the lathe enable production of a wide variety of medium sized parts. The bed also serves as a tool cabinet which makes the operation easy and ergonomic.

**Main features:**

- small
- bed made from welded metal plates
- base with 2 practical tool cabinets
- hardened and tempered spindle head
- hardened and tempered bed slide ways
- elimination of backlash in all vee block guides



Technical data	Unit	D280
Max. turning diameter	[mm]	280
Max. turning diameter over slide	[mm]	182
Max. turning length	[mm]	660
Bed width	[mm]	155
Bed height	[mm]	200
Spindle nose	[-]	M lub C-3 (optional)
Spindle bore	[mm]	26
Spindle taper	[-]	MT4
Spindle speed range	[rpm]	125-2000
Longitudinal feed range	[mm]	0,063 - 0.350 (9 steps)
Max. tool dimension	[mm]	12 x 12
Metric thread	[mm]	0,25 - 3,5 (18 steps)
Inch thread	[-]	8-72 T.P.I. (32 ranges)
Tail centre feed	[mm]	65
Tailstock spindle diameter	[mm]	32
Tailstock taper	[-]	MT2 lub MT3
Motor power	[W]	750
Net weight	[kg]	330

**Standard equipment:**

- 3 jaw 125mm chuck
- steady rest
- follow rest
- tool post
- change gears
- CE declaration of conformity
- manual in English

**Additional equipment:**

- live centre
- drill chuck
- 4 jaw chuck



Lightweight workshop lathe intended for use in small workshops.

**Main features:**

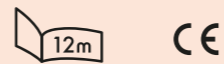
- bed made from welded metal plates
- hardened bed slide ways
- hardened and tempered spindle head
- hardened change gears in spindle gearbox
- adjustable friction clutch on the leading shaft
- enables machining of all kinds of threads without replacing the changing gears in the swing-frame
- feed change blocking: by screw or by shaft
- removable gap bridge

**Standard equipment:**

- 3 jaw 160mm chuck
- 4 jaw 200mm chuck
- 300mm catch plate
- steady rest
- follow rest
- Morse taper reduction sleeve 5/3
- thread dial
- Morse taper dead centre 3
- cooling system
- lightning
- change gears set
- manual in English
- CE declaration of conformity

**Additional equipment:**

- taper rule
- digital readout
- rapid change tool holder



Removable bed bridge



Thread dial



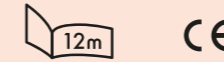
Steady rest

Technical data:	Unit	D330	D360
Max. turning diameter over bed	[mm]	330	360
Max. turning diameter over slide	[mm]	198	223
Max. turning diameter in gap bridge	[mm]	476	502
Centre height	[mm]	166	179
Distance between centres	[mm]	750/1000	750/1000
Bed width	[mm]	187	187
Bed height	[mm]	290	290
Motor power	[kW]	1,5	1,5
Voltage	[V]	220/380	220/380
Spindle bore	[mm]	38	38
Spindle head	[-]	D1-4	D1-4
Spindle speed range	[rpm]	70-2000	70-2000
Spindle taper	[-]	MT Nr.5	MT Nr.5
Cross slide travel	[mm]	160	160
Compound slide travel	[mm]	68	68
Feed screw diameter	[mm]	22	22
Feed shaft diameter	[mm]	19	19
Cutting tool (maks. przekrój)	[mm]	16 x 16	16 x 16
Inch thread	[-]	4-56 T.P.I.	4-56 T.P.I.
Metric thread	[mm]	0,4-7	0,4-7
Longitudinal feed rate	[mm]	0,052-1,392	0,052-1,392
Cross feed rate	[mm]	0,014-0,380	0,014-0,380
Tailstock spindle diameter	[mm]	32 Nr.3	32 Nr.3
Weight	[kg]	1000	750
Net weight	[kg]	460	495
Dimensions	[mm]	1680 x 760 x 780	1930 x 760 x 780

Lathe for small lot production, tool shops or maintenance departments. Iron-cast bed base provides increased rigidity and stability. Standard version of VD410x1000 lathe comes with an inverter, machining speed control and a digital readout (for 3 axes).

**Main features:**

- Iron-cast bed base - one element
- hardened bed slide ways
- hardened and tempered spindle head
- hardened change gears in spindle gearbox
- enables machining all kinds of threads
- feed change blocking: by screw or by shaft
- removable gap bridge



Removable bridge

Spindle brake

Bed base cast as a single element

Technical data	Unit	D410	VD410
Max. turning length	[mm]	410	410
Max. turning diameter over support	[mm]	255	255
Max. turning diameter in gap bridge	[mm]	580	580
Max. turning length	[mm]	1000	1000
Bed width	[mm]	250	250
Spindle nose	[mm]	D1-6	D1-6
Spindle bore	[mm]	52	52
Spindle taper	[-]	Morse 6	Morse 6
Spindle speed range	[rpm]	45-1800 (16 steps)	30-3000
Top slide travel	[mm]	102	102
Top slide travel [mm]	[mm]	102 102	
Cross travel	[mm]	210	210
Max. tool dimension	[mm]	20 x 20	20 x 20
Longitudinal feed range	[mm]	0,05-1,7	0,05-1,7
Longitudinal feed range	[mm]	0,025-0,85	0,025-0,85
Metric thread	[-]	0,2 - 14	0,2 - 14
Inch thread	[-]	2-72 T.P.I.	2-72 T.P.I.
Modular thread	[-]	0,3-3,5 M.P.	0,3-3,5 M.P.
D. P. thread	[-]	8-44 D.P.	8-44 D.P.
Tailstock quill diameter	[mm]	50	50
Tailstock quill feed	[mm]	120	120
Tailstock quill taper	[-]	No. 4 Morse	No. 4 Morse
Tailstock quill taper	[-]	No. 4 Morse	No. 4 Morse
Motor power	[kW]	2,8/3,3	2,8/3,3
Coolant circulating pump motor power	[kW]	0,1	0,1
Dimensions (L x W x H)	[mm]	1940 x 850 x 1320	1940 x 850 x 1320
Net weight	[kg]	1550	1550

**Standard equipment:**

- 3 jaw 200mm chuck
- 4 jaw 250mm chuck
- 350mm catch plate
- steady rest
- follow rest
- thread dial
- reducer sleeve MT 6/4
- dead centre MT 4
- taper rule
- cooling system
- lightning
- manual in English
- CE declaration of conformity

**Additional equipment:**

- rapid change tool holder
- digital readout for 2 axes
- catch plate

Lathe intended for small lot production, tool shops or maintenance departments.  
Iron-cast bed base provides increased rigidity and stability. Standard version of VD460x1000/1500 lathe comes with an inverter, machining speed control and a digital readout (for 3 axes).

### Main features:

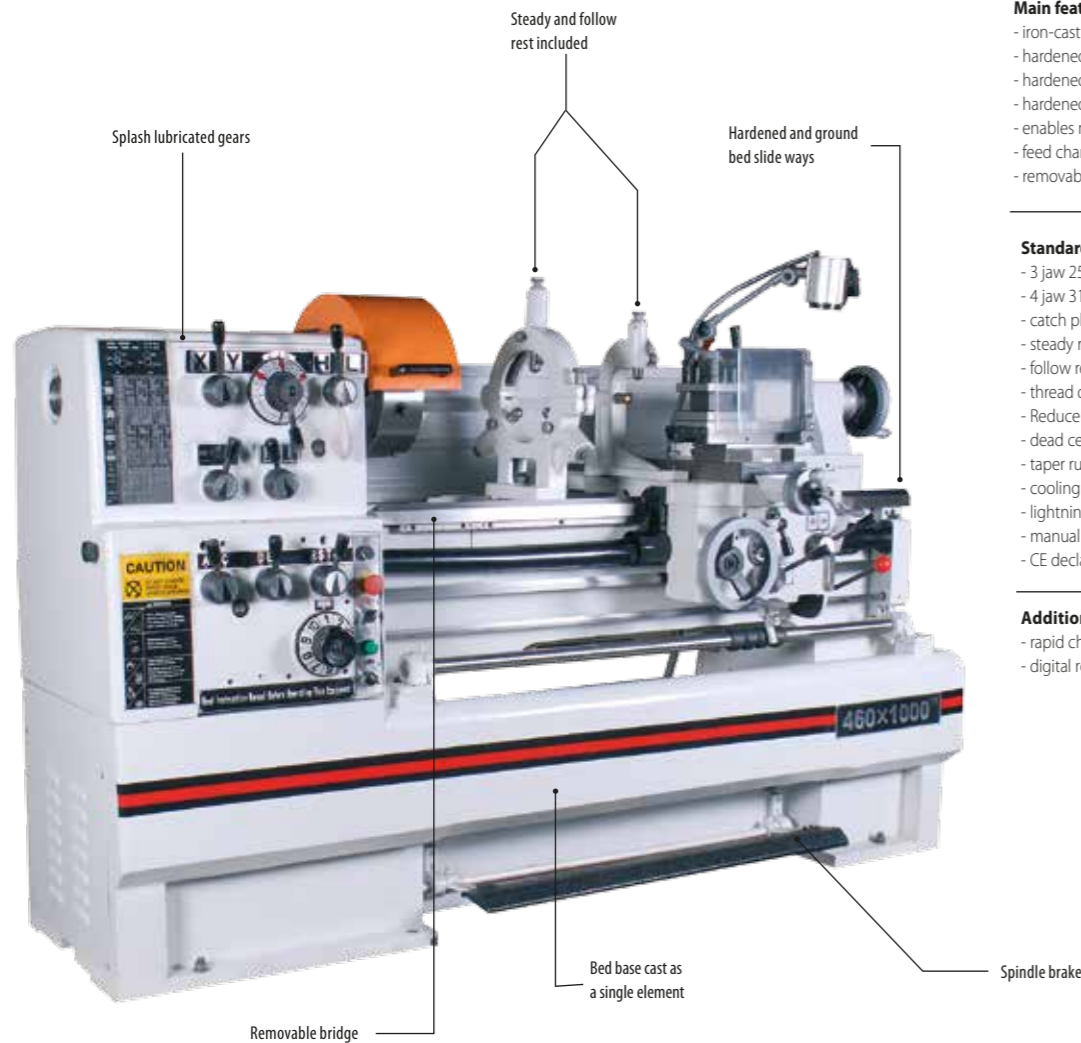
- iron-cast bed base - one element
- hardened bed slide ways
- hardened and tempered spindle head
- hardened change gears in spindle gearbox
- enables machining all kinds of threads
- feed change blocking: by screw or by shaft
- removable gap bridge

### Standard equipment:

- 3 jaw 250mm chuck
- 4 jaw 315mm chuck
- catch plate
- steady rest
- follow rest
- thread dial
- Reducer sleeve MT 6/4
- dead centre MT 4
- taper rule
- cooling system
- lightning
- manual in English
- CE declaration of conformity

### Additional equipment:

- rapid change tool holder
- digital readout



Technical data:	Unit	D460x1000	D460x1500	VD460x1000	VD460x1500
Max. turning diameter over bed	[mm]	460	460	460	460
Max. turning diameter over slide	[mm]	274	274	274	274
Max. turning diameter in gap bridge	[mm]	690	690	690	690
Turning length in bridge	[mm]	155	155	1000	1500
Max. turning length	[mm]	1000	1500	165	165
Bed width	[mm]	300	300	300	300
Spindle nose	[-]	D1-6	D1-6	D1-6	D1-6
Spindle bore	[-]	58	58	58	58
Spindle taper	[-]	No. 6 Morse	No. 6 Morse	No. 6 Morse	No. 6 Morse
Spindle speed range	[rpm]	25-2000 (12 rates)	25-2000 (12 rates)	1600 (direct)	1600 (direct)
Max. tool dimension	[mm]	25 x 25	25 x 25	285	285
Longitudinal feed range	[mm/rev]	0,031-1,7	0,031-1,7	25 x 25	25 x 25
Cross feed range	[mm/rev]	0,014-0,784	0,014-0,784	0,031-1,7	0,031-1,7
Metric thread	[mm]	0,1 - 14	0,1 - 14	0,014-0,785	0,014-0,785
Inch thread	[-]	2-112 T.P.I.	2-112 T.P.I.	0,1-14	0,1-14
Modular thread	[-]	0,1-7 M.P.	0,1-7 M.P.	2-112 T.P.I.	2-112 T.P.I.
D. P. thread	[-]	4-112 D.P.	4-112 D.P.	0,1-7 M.P.	0,1-7 M.P.
Tailstock quill diameter	[mm]	60	60	60	60
Tailstock quill feed	[mm]	120	120	120	120
Tailstock quill taper	[-]	No. 4 Morse	No. 4 Morse	No. 4 Morse	No. 4 Morse
Motor power	[kW]	4	4	5,5	5,5
Coolant circulating pump motor power	[kW]	0,1	0,1	0,1	0,1
Dimensions	[mm]	2170 x 1040 x 1370	2170 x 1040 x 1370	2370 x 1080 x 1370	2370 x 1080 x 1370
Net weight	[kg]	1720	2020	1910	2115

Lathe intended for small- and large-lot production and for tool shops. Iron-cast bed base provides increased rigidity. Higher parameters enables machining bigger details.

### Main features:

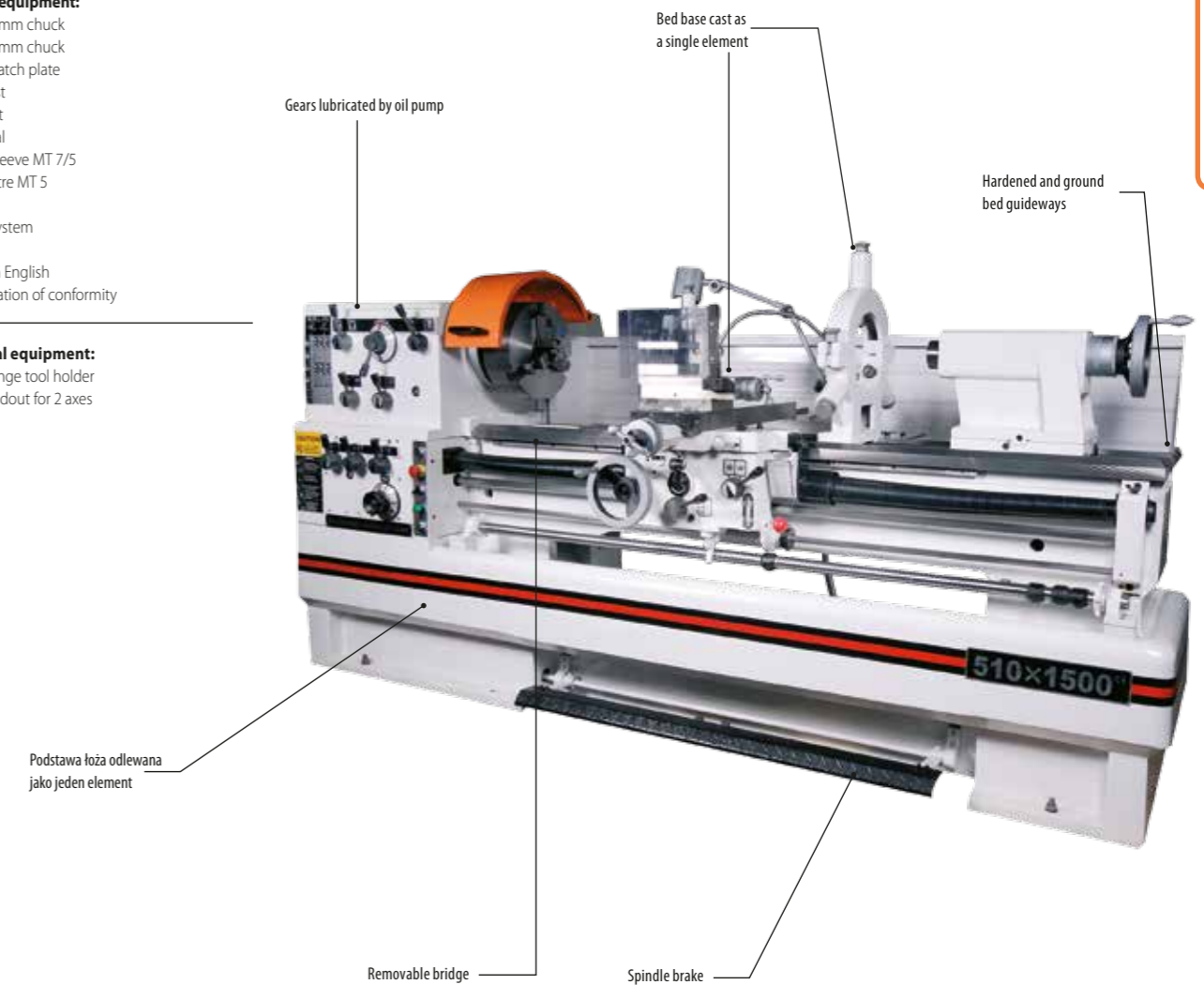
- iron-cast bed base - one element
- hardened bed slide ways
- hardened and tempered spindle head
- hardened change gears in spindle gearbox
- enables machining all kinds of threads
- feed change blocking: by screw or by shaft
- removable gap bridge

### Standard equipment:

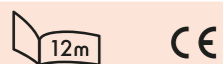
- 3 jaw 315mm chuck
- 4 jaw 400mm chuck
- 450mm catch plate
- steady rest
- follow rest
- thread dial
- reducer sleeve MT 7/5
- dead centre MT 5
- taper rule
- cooling system
- lightning
- manual in English
- CE declaration of conformity

### Additional equipment:

- rapid change tool holder
- digital readout for 2 axes



Technical data:	Unit	D510 x 1500	Technical data:	Unit	D510 x 1500
Max. turning diameter	[mm]	510	Cross travel range	[mm/rev]	0,02-0,573
Max. turning diameter over support	[mm]	300	Metric thread	[mm]	0,2 - 14
Max. turning diameter in gap bridge	[mm]	738	Inch thread	[-]	2-112 T.P.I.
Max. turning length	[mm]	1500	Modular thread	[-]	0,1-7 M.P.
Bed width	[mm]	350	D. P. thread	[-]	4-112 D.P.
Spindle nose	[mm]	D1-8	Tailstock quill diameter	[mm]	75
Spindle bore	[mm]	80	Tailstock quill feed	[mm]	180
Spindle taper	[mm]	No. 7 Morse	Tailstock quill taper	[-]	No. 5 Morse
Spindle speed range	[rpm]	25 - 1600 (12 steps)	Motor power	[kW]	7,5
Top slide travel	[rpm]	130	Coolant circulating pump motor power	[kW]	0,1
Cross travel	[mm]	326	Dimensions (L x W x H)	[mm]	2900 x 1120 x 1430
Max. tool dimension	[mm]	25 x 25	Net weight	[kg]	2335
Feed range	[rpm]	0,059-1,646			



Lathe intended for small- and large-lot production and for tool shops. Iron-cast bed base provides increased rigidity. Larger dimensions enable machining bigger details.

Lathe intended for small lot production, tool shops or maintenance departments. Iron-cast bed base provides increased rigidity. Larger dimensions enable machining bigger details.

**Main features:**

- iron-cast bed base - one element
- hardened bed slide ways
- hardened and tempered spindle head
- hardened change gears in spindle gearbox
- enables machining all kinds of threads
- feed change blocking: by screw or by shaft
- removable gap bridge

**Standard equipment:**

- 3 jaw 315mm chuck
- 4 jaw 400mm chuck
- catch plate
- steady rest
- follow rest
- thread dial
- reducer sleeve MT 6/4
- dead centre MT 4
- taper rule
- cooling system
- lightning
- skip feed
- manual in English
- CE declaration of conformity

**Additional equipment:**

- rapid change tool holder
- digital readout



**Main features:**

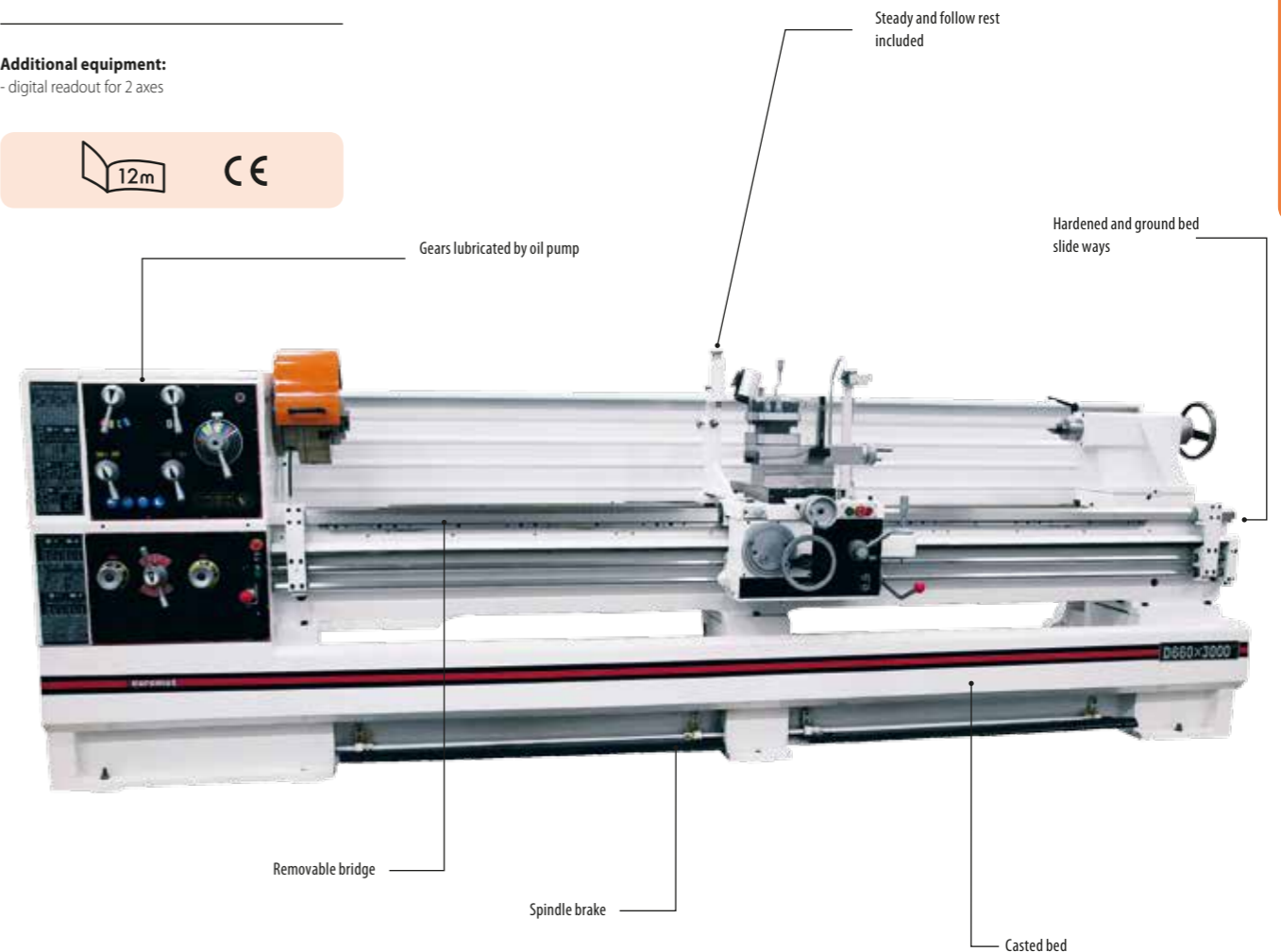
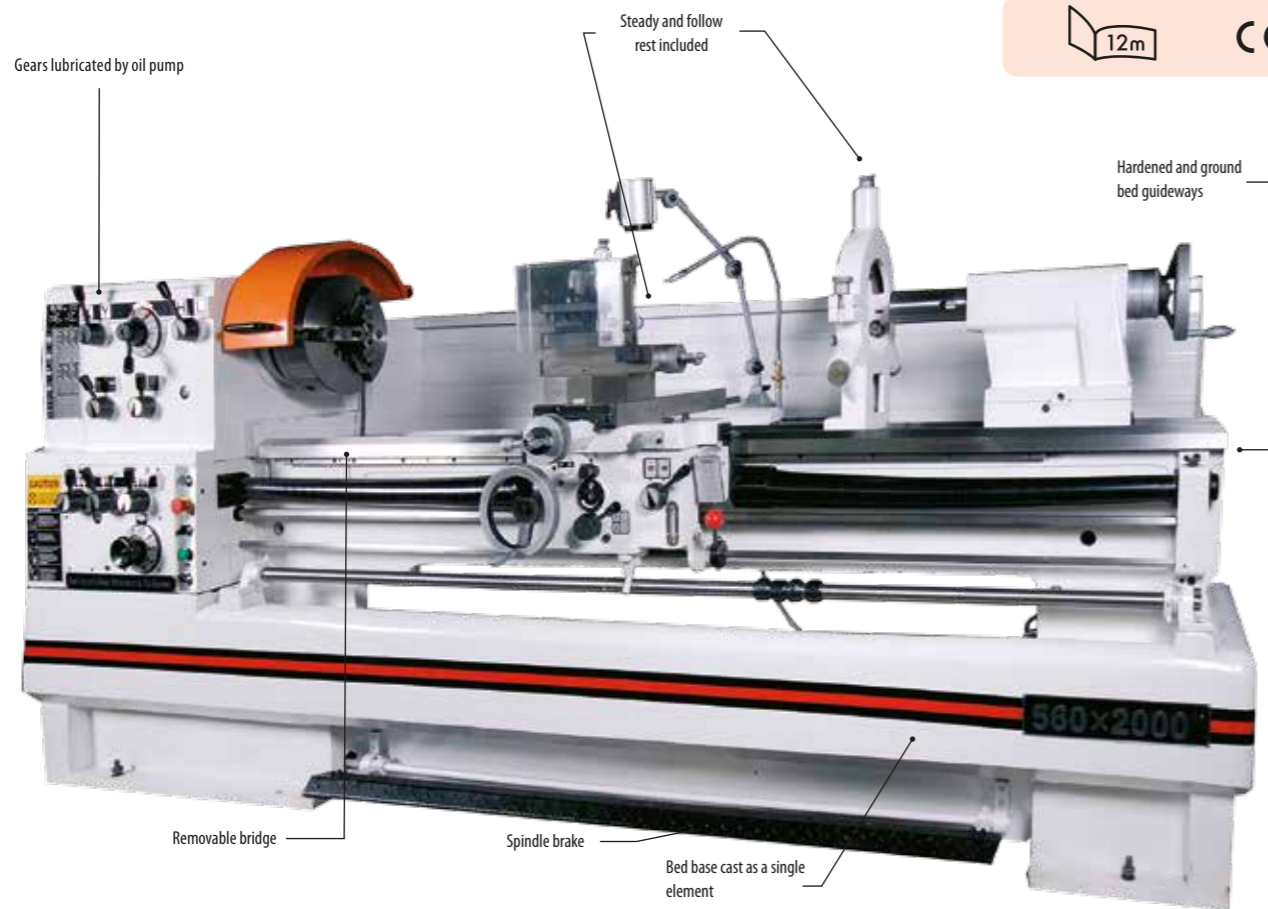
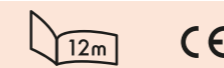
- iron-cast bed base - one element
- hardened bed slide ways
- hardened and tempered spindle head
- hardened change gears in spindle gearbox
- skip feed
- central lubrication system
- enables machining all kinds of threads
- feed change blocking: by screw or by shaft
- big spindle bore - 105 mm
- removable gap bridge

**Standard equipment:**

- 3 jaw 315 mm chuck
- 4 jaw 400 mm chuck
- catch plate
- steady rest
- follow rest
- thread dial
- reducer sleeve MT 7/5
- dead centre MT 5
- taper rule
- cooling system
- lightning
- skip feed
- manual in English
- CE declaration of conformity

**Additional equipment:**

- digital readout for 2 axes



Technical data:	Unit	D560x1500	D560x2000	D560x3000	Technical data:	Unit	D560x1500	D560x2000	D560x3000
Max. turning diameter	[mm]		560		Cross travel range	[mm/rev]		0,020-0,573	
Max. turning diameter over slide	[mm]		350		Metric thread	[mm]		0,2 - 14	
Max. turning diameter in gap bridge	[mm]		788		Inch thread	[-]		2-112 T.P.I.	
Turning length in bridge	[mm]		200		Modular thread	[-]		0,1-7 M.P.	
Max. turning length	[mm]	2000		3000	D. P. thread	[-]		4-112 D.P.	
Bed width	[mm]		350		Tailstock quill diameter	[mm]		75	
Spindle nose	[-]		D1-8		Tailstock quill feed	[mm]		180	
Spindle bore	[mm]		80		Tailstock quill taper	[-]		No. 5 Morse	
Spindle taper	[-]		No. 7 Morse		Motor power	[kW]		7,5	
Spindle speed range	[rpm]		25-1600 (12 steps)		Coolant circulating pump motor power	[kW]		0,1	
Max. tool dimension	[mm]		25 x 25		Dimensions (L x W x H)	[mm]	2840x1150x1460	3340x1150x1460	4340x1150x1460
Travel range	[rpm]		0,059-1,646		Net weight	[kg]	2370	2720	3430

Technical data:	Unit	D660x1500	D660x2000	D660x3000	Technical data:	Unit	D660x1500	D660x2000	D660x3000
Max. turning diameter over side	[mm]	660	660	660	Cross feed range	[mm/rev]	0,022-0,74	0,022-0,74	0,022-0,74
Max. turning diameter over slide	[mm]	440	440	440	Metric thread	[mm]	0,45 - 120	0,45 - 12	0,45 - 12
Max. turning diameter in gap bridge	[mm]	900	900	900	Inch thread	[-]	7/16-80 T.I.P.	7/16-80 T.I.P.	7/16-80 T.I.P.
Turning length in bridge	[mm]	250	250	250	Modular thread	[-]	0,25-60 M.P.	0,25-60 M.P.	0,25-60 M.P.
Max. turning length	[mm]	1500	2000	3000	D. P. thread	[-]	7/8-160 D.P.	7/8-160 D.P.	7/8-160 D.P.
Bed width	[mm]	400	400	400	Tailstock quill diameter	[mm]	90	90	90
Spindle nose	[-]	D1-8	D1-8	D1-8	Tailstock quill feed	[mm]	235	235	235
Spindle bore	[-]	105	105	105	Tailstock quill taper	[-]	MT5	MT5	MT5
Spindle taper	[-]	Ø 113mm (1:20) /MT5	Ø 113mm (1:20)	Ø 113mm (1:20)	Motor power	[kW]	7,5	7,5	7,5
Spindle speed range	[rpm]		26-1700 (16 steps)		Coolant circulating pump motor power	[kW]	0,09	0,09	0,09
Max. tool dimension	[mm]		32x32		Dimensions	[mm]	3200 x 1250 x 1840	3710 x 1230 x 1600	4710 x 1230 x 1600
Longitudinal travel range	[rpm]		0,044-1,48		Net weight	[kg]	2700	2900	3300

Universal CDS lathes are suitable for both small- and large- lot production. State-of-the-art construction makes the machines not only look good, but also provides extraordinary rigidity and functionality.



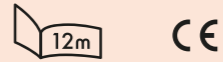
Tool post



Slide



3 jaw chuck



**Main features:**

- bed base: iron cast
- hardened bed slide ways
- hardened and tempered spindle head
- hardened change gears in spindle gearbox
- electromagnetic clutch
- except CDS 410X1000 (manual clutch)
- skip feed - except CDS 410X1000
- central lubrication system
- forced lubrication of the fixed headstock
- enables machining of all kinds of threads without replacing the changing gears in the swing-frame
- feed change blocking: by screw or by shaft
- removable gap bridge
- big spindle bore: - 105 mm- except CDS 410X1000
- comprehensible standard equipment

**Standard equipment:**

- 3-jaw chuck
- 3 jaw lathe chuck
- catch plate
- steady rest
- follow rest
- thread dial
- Reducer sleeve MT 7/5
- dead centre MT 5
- cooling system
- lightning
- manual in English
- CE declaration of conformity

**Additional equipment:**

- rapid change tool holder
- taper rule
- digital readout for 2 axes

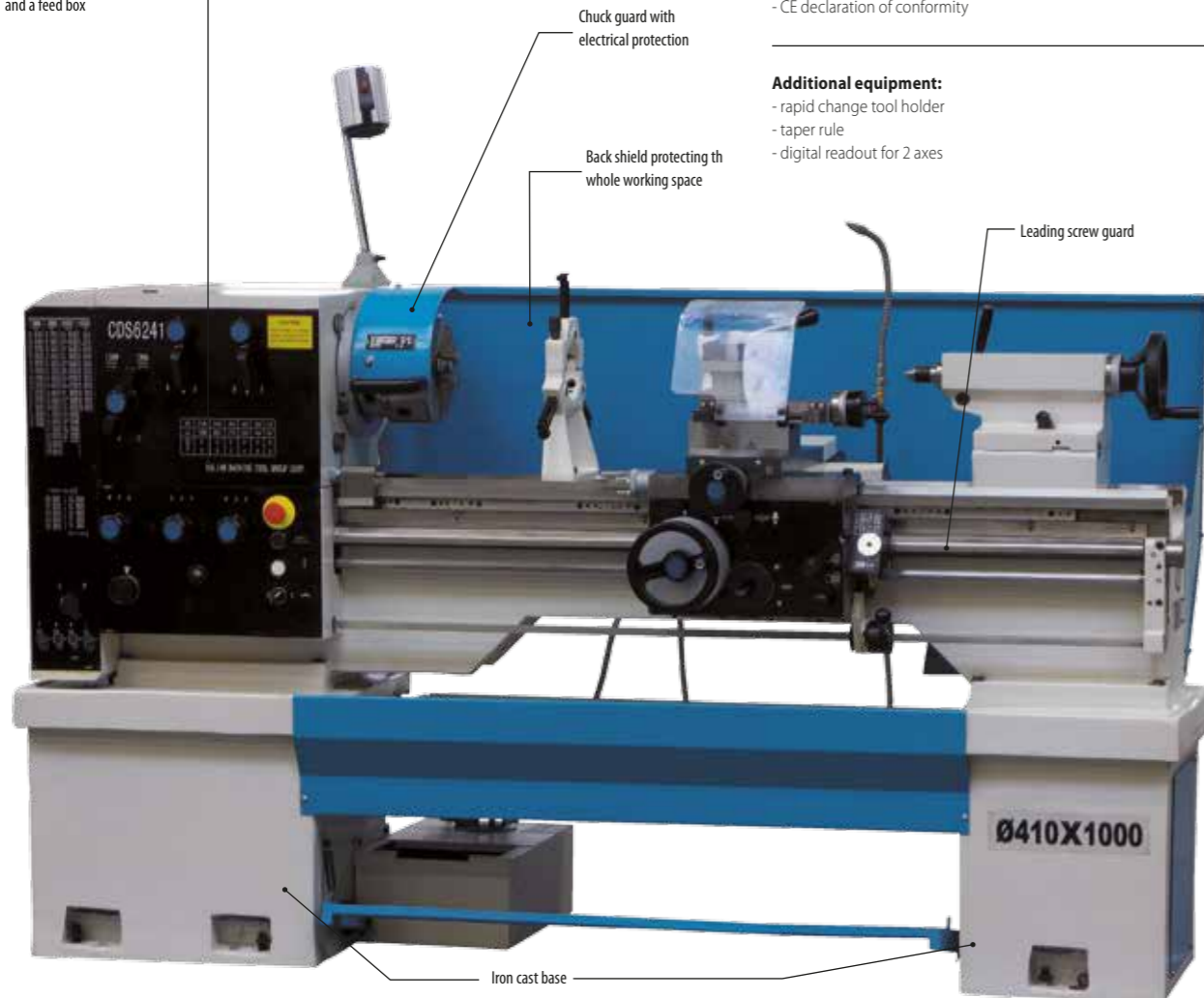
Thoughtfully placed control elements of a fixed headstock and a feed box

Chuck guard with electrical protection

Back shield protecting the whole working space

Leading screw guard

Iron cast base



	500x1000	560x1500	560x2000	560x3000	660x1500	660x2000
<b>Technical data:</b>						
Max. turning diameter over bed	410	500	500	560	660	660
Max. length of the processed element	1000	1500	2000	3000	1500	2000
Max. turning diameter over slide	270	290	290	350	440	440
Max. turning diameter in gap bridge	610	760	760	800	870	870
Distance between spindle centre and bed slide ways	205	250	250	280	325	325
Turning length in bridge	200	348	348	348	250	250
Cross travel	348	1380	1380	1380	1380	1380
Slide travel	280	394	394	394	394	394
Bed width	280	394	394	394	394	394
Slideways	[-]	V-type	V-type	V-type	V-type	V-type
Spindle bore	52	82	82	105	105	105
Spindle nose	C6/D6 A2-6	D8 (A2-8)	D8 (A2-8)	D8 (A2-8)	D8 (A2-8)	D8 (A2-8)
Spindle taper	MT6	MT6	MT6	MT6	MT6	MT6
Spindle speed steps	12	16	16	16	16	16
Spindle speed	59-2100	26-1700	26-1700	26-1700	26-1700	26-1700
Longitudinal feed	0.03-1	0.044-1.48	0.044-1.48	0.044-1.48	0.044-1.48	0.044-1.48
Cross feed	0.010-0.33	0.022-0.74	0.022-0.74	0.022-0.74	0.022-0.74	0.022-0.74
Metric thread	0.4-14 (40)	0.35-80	0.35-80	0.35-80	0.35-80	0.35-80
Inch thread	56-2 (52)	7/16-80 (47)	7/16-80 (47)	7/16-80 (47)	7/16-80 (47)	7/16-80 (47)
Modular thread	10.2-3.5 (46)	0.2-40 (45/66)	0.2-40 (45/66)	0.2-40 (45/66)	0.2-40 (45/66)	0.2-40 (45/66)
D. P. thread	11.2-6 (83)	7/8-160 (42)	7/8-160 (42)	7/8-160 (42)	7/8-160 (42)	7/8-160 (42)
Tool shank section	20x16	25x25	25x25	25x25	25x25	25x25
Distance between the spindle centre and the tool mounting surface	22	27	27	27	27	27
Max. upper saddle travel	115	170	170	170	170	170
Upper saddle tilt	±45	±45	±45	±45	±45	±45
Max. cross saddle travel	180	348	348	348	348	348
Cross travel leading screw pitch	2.5	5	5	5	5	5
Tailstock quill diameter	50	75	75	75	75	75
Tailstock quill feed	125	150	150	150	150	150
Tailstock quill taper	Morse 4	MT5	MT5	MT5	MT5	MT5
Tailstock quill travel	±15	±15	±15	±15	±15	±15
Main motor power	3.3/2.2	7.5	7.5	7.5	7.5	7.5
Skip feed motor power	-	250	250	250	250	250
Coolant circulating pump motor power	60	150	150	150	150	150
Coolant circulating pump flow	12	25	25	25	25	25
Feed screw diameter	28.5	40	40	40	40	40
Feed screw pitch	6	12	12	12	12	12
Dimensions LxWxH	2110x910x1150	2600x1186x1420	3100x1186x1420	3600x1186x1420	3100x1186x1550	3600x1186x1550
Net weight	1150	2150	2150	2310	2250	2340



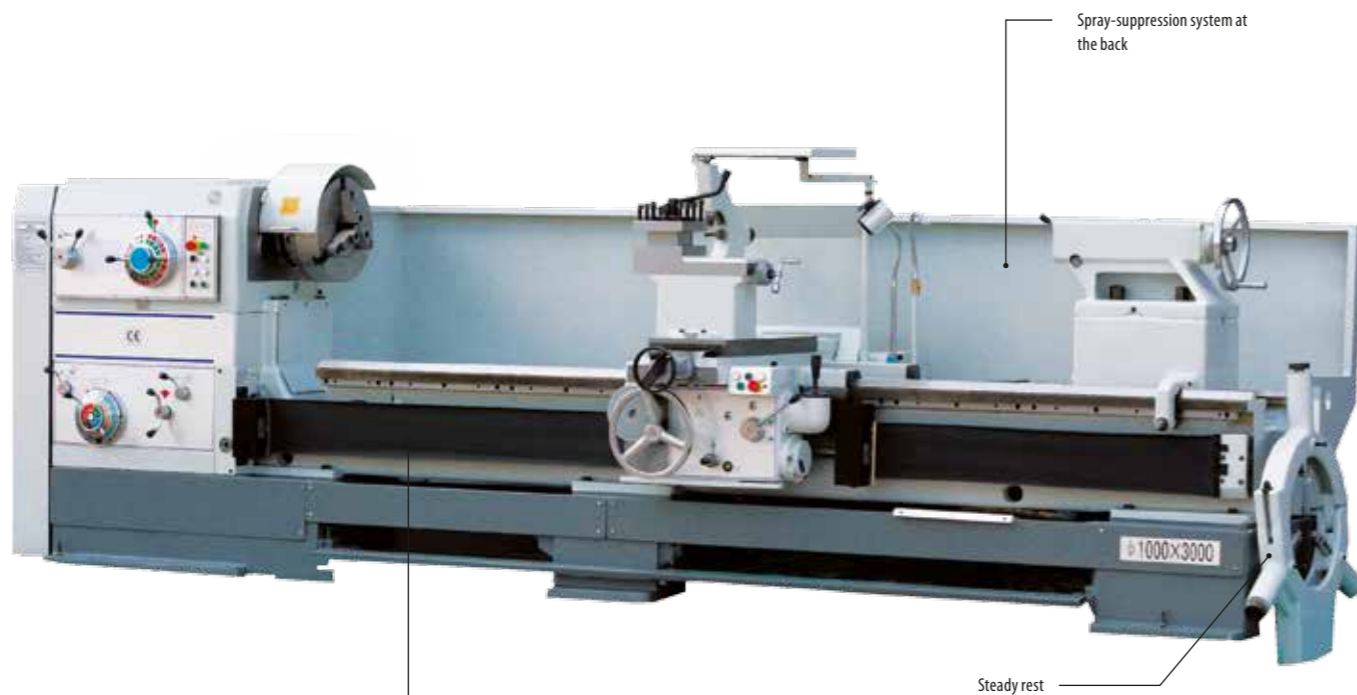
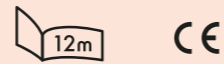
CW series heavy duty lathes with spindle bore up to 130 mm.  
They provide great power and rigidity which enables precise machining of big details.

**Standard equipment:**

- 3-jaw chuck (320 mm - CW6263E, 400 mm - CW6280E and CW62100E)
- 4-jaw chuck (500 mm - CW6263E, 400 mm - CW6280E and CW62100E)
- front disk (800 mm - CW6263E, 400 mm - CW6280E and CW62100E)
- steady rest - for machines of turning length over 3000mm (20-170 mm - CW6263E, 40-250 mm - CW6280E, 150-400 mm - CW62100E)
- follow rest - for machines of turning length over 3000mm (20-100 mm - CW6263E and CW6280E, 20-160mm - CW62100E)
- cooling system
- work lights
- dead centre
- x and z axes skip feed
- tool post
- manual in English
- CE declaration of conformity

**Additional equipment:**

- taper turning attachment
- big spindle bore: 130 mm
- big spindle motor: 15 kW
- digital readout for 2 axes



Technical data	Unit	CW6263E	CW6280E	CW62100E
Max. turning diameter	[mm]	630	800	1000
Max. turning diameter in gap bridge	[mm]	800	1000	1230
Bridge width	[mm]	320	320	320
Max. turning diameter over slide	[mm]	350	520	720
Max. turning length	[mm]	750, 1000, 1500, 2000, 3000, 4000, 5000, 6000		
Bed width	[mm]	550		
Spindle bore	[mm]	105 (opcja: 130)		
Spindle nose	[-]	D11		
Spindle speed steps	[-]	18		
Spindle speed range	[rpm]	7,5-1000		
Main motor power	[kW]	11 (option: 15)		
Skip feed motor power	[kW]	1,1		
Longitudinal feed rate	[rpm]	0,1-24,3		
Cross feed rate	[rpm]	0,05-12,15		
Skip feed	[mv/min]	3,8		
Inch thread	[TPI]	14-1 TPI		
Metric thread	[mm]	1-240		
Modular thread	[MP]	0,5-120		
Tailstock quill taper	[-]	MT6		
Tailstock quill feed	[mm]	240		
Weight/ dimensions	[-]	depends on the selected version and turning length		

Leading screw guard

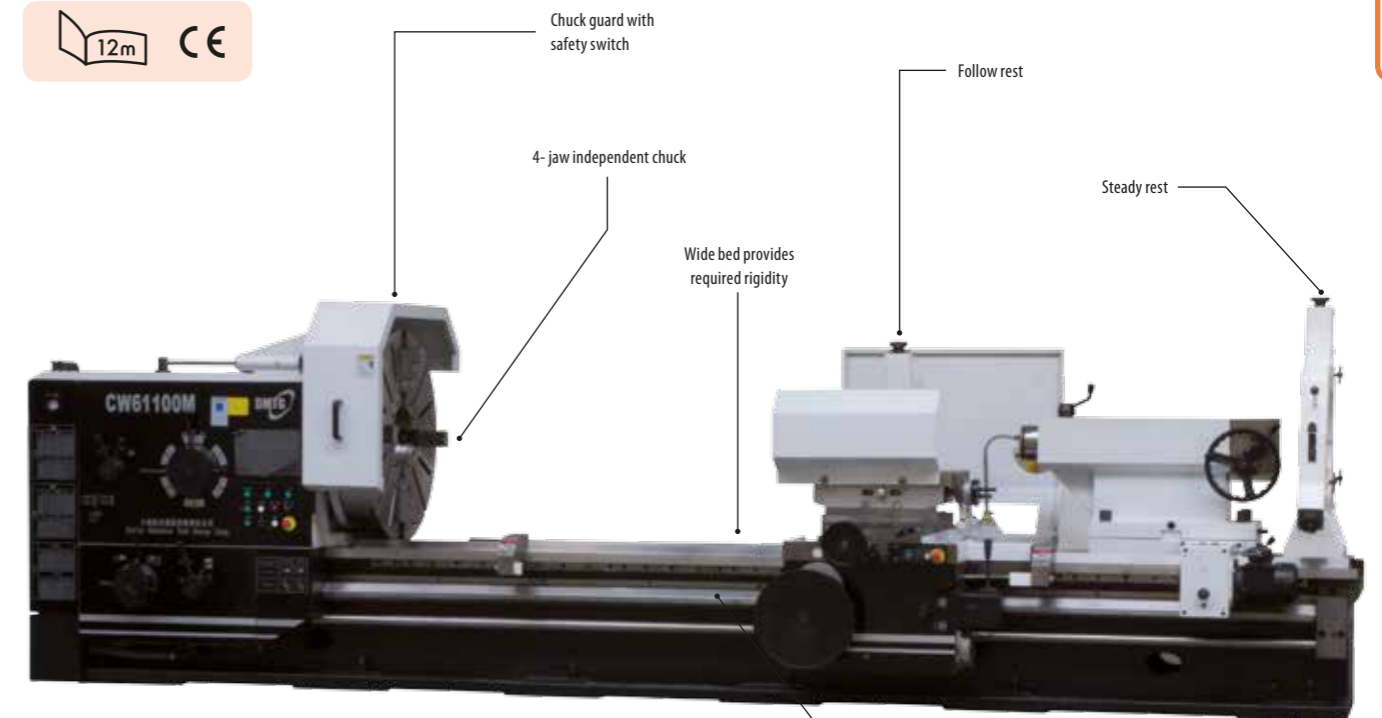
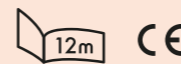
CW series heavy duty lathes with spindle bore up to 130 mm.  
They provide great power and rigidity which enables precise machining of big details.

**Standard equipment:**

- 4-jaw chuck
- steady rest 50-470mm
- cooling system
- work lights
- dead centre
- x and z axes skip feed
- tool post
- manual in English
- CE declaration of conformity
- follow rest

**Additional equipment:**

- steady rest 350-800mm



Technical data:	Unit	CW61100M	CW61125M	CW61140M	CW61160M
Max. turning diameter	[mm]	1000	1250	1400	1600
Max. turning diameter over slide	[mm]	630	800	880	1230
Max. turning length	[mm]	1500, 2000, 3000, 4000, 5000, 6000, 8000			
Bed width	[mm]	755			
Spindle bore	[mm]	130			
Spindle taper	[mm]	140/1:20			
Spindle nose	[-]	A-15			
Cross travel X	[mm]	580			
Upper slide travel	[mm]	300			
Tool shaft size	[mm]	45x45			
Spindle speed steps	[-]	21			
Spindle speed range	[rpm]	3,15-315			
Main motor power	[kW]	22			
Inch thread	[TPI]	28-1/4			
Metric thread	[mm]	1-120			
Modular thread	[MP]	0,5-60			
Tailstock quill diameter	[mm]	160			
Tailstock quill taper	[mm]	80/1:20			
Tailstock quill feed	[mm]	300			
Weight / dimensions	[-]	depends on the selected version and turning length			

Leading screw guard



# EUROMET CNC LV1600 VERTICAL LATHES

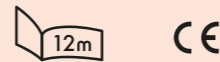
State-of-the-art, functional LV series single column vertical lathes with CNC control system. Vertical lathe with a CNC (Siemens 802D) system and an infinitely variable speed control enables highly efficient, precise machining of complex forms.

Thanks to the base made from inoculated cast iron the table is completely rigid, while the precisely machined slideways remain wear resistant. Moreover, all vertical lathes come with central lubrication system and telescopic shields, which make the maintenance easier and significantly prolong the lifecycle of the lathe's components.

Having such features, the LV series vertical lathe can be used in factories and production plants for small and large lot production.

### Standard equipment:

- 6-position automatic turret controlled from the desk by CNC
- workspace shield with semi-automatic doors complying with CE standards
- Siemens 802 D Control (optional: Fanuc, Haidenhain) with English (or Polish) markings
- chip conveyor
- tool chuck holders
- tool holders
- foundation bolts
- CE declaration of conformity
- manual in English



Technical data	Unit	LV1600
Max. turning diameter	[mm]	1600
Worktable diameter	[mm]	1400
Max. height of the processed element	[mm]	1250
Max. weight of the processed element	[kg]	5000
Worktable rotational speed	[rpm]	2 – 180
Worktable gears	[-]	2
Feed rate	[-]	infinitely variable
Feed rate	[mm/min]	0,1 – 1000
Max. vertical head turning force	[N]	25000
Max. rotary table torque	[Nm]	16000
Tool head travel: horizontal / vertical	[mm]	1050/850
Cross slide travel	[mm]	1000
Vertical head rapid feed	[mm/min]	3000
Cross slide lifting speed	[mm/min]	660
Tool size	[mm]	40x40
Main motor power	[kW]	45
Feed motor output torque	[Nm]	30
Net weight	[kg]	12700

# CKE 360, CKE 400, CKE 500 CNC LATHES

CNC lathes can be used to machine both surfaces and inner surfaces. They enable turning tapers, processing spherical surfaces (by circular interpolation) and cutting all kinds of threads (rolled screw threads, taper threads, leding threads).

The lathes utilize CNC system: FANUC or SINUMERIC. The lathe may be equipped with spindle drive which enables using:

- change gears of the final drive
- inverter - infinitely variable adjustment in all 3 ranges
- servo motor - infinitely variable adjustment in all ranges.

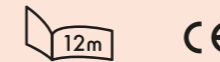
The machine might come with electrically operated 4-position cutter holder or 6-position head and manual/hydraulic chuck and tailstock. The central lubrication system guarantees proper performance of ball screws and long service life of bed slide ways. The lathe comes with a brake placed at the end of a motor shaft and sealed guards protecting operators from chips and cutting fluids.

### Standard equipment:

- 3 jaw chuck
- CNC system FANUC or SINUMERIC
- 4-position cutter holder
- 2 spindle and tailstock centres
- Reducer sleeve
- 6 anchor bolts
- 6 leveling wedges
- tool set
- manual in English
- CE declaration of conformity

### Additional equipment:

- 6-position head
- servomotor
- 4 jaw chuck
- hydraulic chuck
- hydraulic tailstock
- steady rest 30-300 mm
- follow rest
- live centre
- bar feeder
- internal cooling system



We also offer bigger lathes.

Technical data:	Unit	CKE 360	CKE 400	CKE 500
Max. turning diameter	[mm]	360	400	500
Max. turning diameter over saddle	[mm]	180	200	280
Turning length	[mm]	750/1000	750/1000	750/1000/1500/2000
Cross travel	[mm]	205	225	295
	[mm]	620/870	620/870	685/935/1435/1935
Rotational speed	[rpm]	32-2000	32-2000	45-2000
spindle speed	[rpm]	20-2500	20-3500	7-2200
servomotor	[rpm]	20-3500	20-3500	30-3000
Spindle end	[-]	A2-6/D6	A2-6/D6	D8
Spindle bore	[mm]	52	52	82
Cutter holder positions	[-]	4	4	4
Cutter size	[mm]	25x25	25x25	25x25
Tailstock quill feed	[mm]	130	130	150
Tailstock quill diameter	[mm]	63	63	75
Tailstock quill taper	[-]	MT4	MT4	MT5
Main motor:	[rpm]	- standard	6,5/8 kW, 1440/2800	
	[kW]	- with inverter	7,5 kW, 570-2940	
	[-]	- servomotor	on request	
Net weight	[kg]	1800/1950	1800/1950	2850/3100/2900/3000
External dimensions (DxSxW)	[mm]	2300 x 1480 x 1520	2300 x 1480 x 1520	2480 x 1475 x 1730



Fanuc Oi-TD control panel



3 jaw hydraulic chuck

**Pinnacle BX 5-axis machining centres with tilt head**

- BX300A, BX500A and BX700A versions come with a demountable turntable - after demounting a table the machine operates as a 4-axis machining centre
- BX500 and BX700 come with an integrated turntable with a main table - this unique design offers advantages of both standard 3-axis and 5-axis centres
- Turntable - accuracy of 0,001°, with hydraulic brake
- Main components made from Meehanite (FC-30) cast iron, hardened to over HB190 and tempered.
- precise P class linear sideways utilizes rolls instead of usual ball bearing, which increases their rigidity and breaking load.
- spindle oil cooling circuit prevents thermal expansion and ensures the environment is suitable for machining
- ball trough-screws with oil circuit maintaining temperature provides the best precision
- pneumatic counterweight for the spindle (pneumatic actuator) boost the performance and unloads the feed servo motor
- Optional HEIDENHAIN lineal encoder - double feedback loop - provides perfect traverse precision
- To be used by aircraft, space and medical industry for elements which require extremely precise machining.



Technical data:	BX300A	BX500A	BX500	BX700A	BX700
<b>WORKTABLE</b>					
Table surface (mm)	1300 x 610	1450 x 610	1450 x 610	1600 x 700	1600 x 700
Travel (X/Y/Z) (mm)	1140 x 610 x 810	1300 x 610 x 810	1300 x 610 x 610	1400 x 710 x 680	1400 x 710 x 680
T-slots (width x distance x mm)	18 x 125 x 5	18 x 125 x 5	18 x 125 x 5	18 x 125 x 5	18 x 125 x 5
Max. table load (kg)	600	600	600	800	1200
Distance between the spindle end and the table surface [mm] - head in vertical position	110-920	110-920	110-720	180-990	110-790
Distance between the spindle end and the table surface [mm] - head in horizontal position	355-1165	355-1165	215-965	420-1230	220-1030
<b>ELECTROSPINDLE</b>					
Spindle taper	BT40	BT40	BT40	BT40	BT40
Spindle speed range (rpm)	15000	15000	15000	15000	15000
Electrospindle power [continuous/30min kW]	15/18	15/18	15/18	15 /19.4	15 /19.4
Electrospindle head tilt (°)	+/- 120°	+/- 120°	+/- 120°	+/- 120°	+/- 120°
Head speed range [rpm]	25	25	25	16.6	16.6
<b>TURNTABLE</b>					
Type	Demountable	Demountable	Integrated with main table	Demountable	Integrated with main table
Turntable diameter (mm)	Ø320	Ø500	Ø500	Ø630	Ø630
Worktable aperture (mm)	Ø70	Ø60	Ø50	Ø75	Ø60
Turntable speed (rpm)	22.2	11.1	50	11.1	50
Max. turntable load (kg)	350	500	500	800	1000
<b>FEED</b>					
Skip feed [X/Y/Z m/min]	36/36/24	36/36/24	36/36/24	36/36/24	36/36/24
Working feed [X/Y/Z m/min]	10000	10000	10000	10000	10000
<b>TOOL STORAGE</b>					
Storage type	drum	drum	drum	drum	drum
Storage capacity (pieces)	24/32, 40	24/32, 40	24/32, 40	24/32, 40	24/32, 40
Max. tool diameter (mm)	Ø90/Ø75	Ø90/Ø75	Ø90/Ø75	Ø 90/Ø75	Ø 90/Ø75
Max. tool length and weight [mm, kg]	250 mm, 8	250 mm, 8	250 mm, 8	250 mm, 8	250 mm, 8
<b>OTHER INFORMATION</b>					
Electrical connection (KVA)	40	40	40	40	40
Coolant Tank capacity (l)	300	300	300	450	450
Weight (Kg)	6500	6800	7000	6500	6800
Dimensions [L x W x H mm]	3100 x 2230 x 3100	3100 x 2230 x 3100	3100 x 2230 x 3100	3890 x 3180 x 3200	3890 x 3180 x 3200

**Standard equipment:**

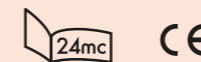
- Air blast through spindle
- Processed piece air blast
- Chip spraying system
- Chip conveyor
- Telescopic guards for X, Y, Z axis slideways
- Full protection of the workspace with door security lock
- Central lubrication system
- Work lights
- Signal mast
- Cooling system
- Blow and spray gun
- MPG handwheel
- Electrical cabinet cooling
- RS-232 port
- BT40 Electrospindle 15000 rpm
- 24-position drum tool storage
- Rigid threading
- Spindle and ball screws temperature maintenance system
- Rotary encoder in A, C axes
- Service tools set
- Manual in English
- CE declaration of conformity

**Additional equipment:**

- Storage for 24/30 tools
- Spindle - 12000, 15000 rpm
- 20 bar cooling through the spindle
- Heidenhain linear encoder
- Tool and detail measurement systems

**Control systems:**

- MITSUBISHI M720, M730
- HEIDENHAIN iTNC530, TNC620



Multifunctional 5-axis Pinnacle machining centres enable extremely precise, fast and versatile machining. Due to such features, they proved to be suitable for the demanding aircraft and automotive industries. Thanks to the wide variety of control systems and accessories, the machine may be configured as to fit individual needs.

**Features:**

- Main components made from Meehanite (FC-30) cast iron, hardened to over HB190 and tempered.
- Precise, wide linear slide ways utilize rolls instead of usual ball bearing, which increases their rigidity and breaking load.
- Pneumatic actuators installed in place of a counterweight enable continuous, fast Z axis feed resulting in precise machining.
- 40 mm ball screws in all 3 axes, C3 accuracy class Moreover, the ball screws in X and Y axes are internally cooled, which minimises their thermal expansion.
- Spindle with P4 class bearing enables comprehensive machining options and high speed. Spindle oil cooling circuit prevents thermal expansion and ensures the environment is suitable for machining.

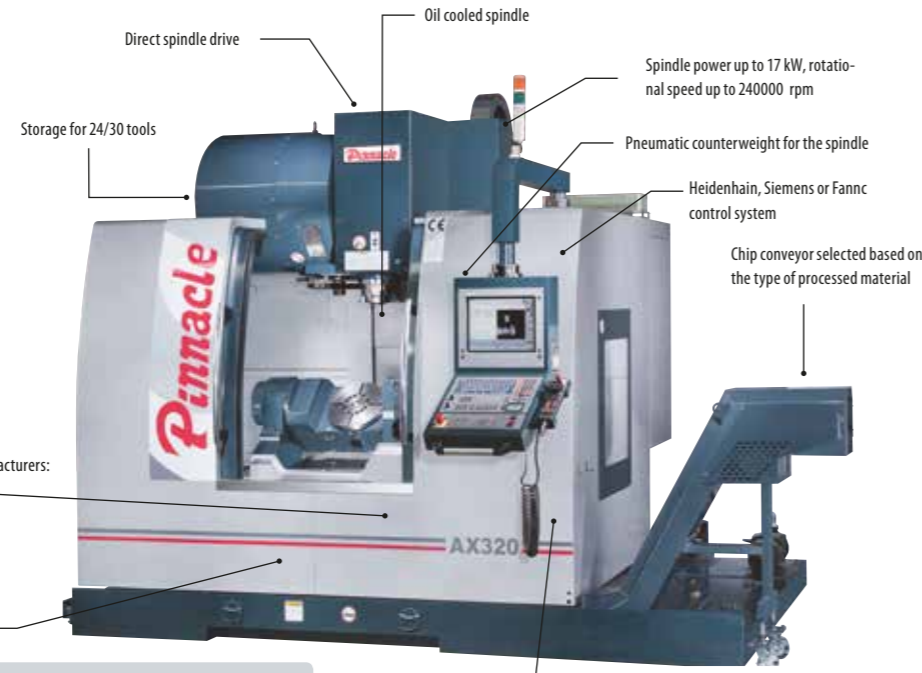
**Additional equipment:**

- tool chuck for 24/30 tools
- spindle - 12000, 15000 rpm
- 20 bar cooling through the spindle
- Heidenhain linear encoder
- Tool and detail measurement systems

**Control systems:**

- FANUC 0i-MD, 31i-MB
- SIEMENS 828D, 840D
- FAGOR 8055i Plus
- MITSUBISHI M70, M720, M730
- HEIDENHAIN iTNC530, TNC620

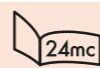
Components from leading brand manufacturers:  
HIWIN, SKF, ROYAL, SIEMENS



Technical data:	Unit	AX 450	AX 320
<b>WORKTABLE</b>			
Table surface (mm)	[mm]	Ø450	Ø320
Travel (X/Y/Z mm)	[mm]	760 x 610 x 560	660 x 610 x 610
T-slots (Width x pitch? mm xo?)	[mm]	14 x 45°	12 x 90°
Max. table load (kg) 0°/ 90°	[mm]	300/250	150/150
Max. processed detail dimension (mm)	[kg]	Ø450 x 300	Ø320x300
Worktable aperture	[mm]	Ø171	Ø50
Distance between the spindle end and the table surface	[mm]	50~565	50~605
Table tilt – A axis	[°]	220°(+/-110°)	150°(-120°/ +30°)
Rotation of the table – C axis	[°]	360°	360°
C axis rotation	[°]	360°	360°
<b>SPINDLE</b>			
Spindle taper		BT40	BT40
Spindle rotational speed direct drive	[rpm]	10000	10000
Spindle rotational speed - electrospindle	[rpm]	15000	15000
FANUC servomotor	[contin./30min kW]	9/12	9/12
<b>FEED</b>			
Skip feed	[X/Y/Z m/min]	30/30/24	30/30/24
Working feed	[X/Y/Z mm/min]	10000	10000
Working feed (A/C m/min)		5.5/11.5	5.5/11.5
<b>TOOL STORAGE</b>			
Type	[-]	drum/chain	
Storage capacity	[pieces]	24/32, 40	
Max. tool diameter	[mm]	Ø 90/Ø76	
Max. tool length and weight	[mm, kg]	300 mm, 8	
<b>OTHER INFORMATION</b>			
Electrical connection	[KVA]	40	
Coolant Tank capacity	[l]	300	
Weight	[kg]	7000	6500
Dimensions (L x W x H)	[mm]	3100 x 2230 x 2900	2200 x 3600 x 2900

**Standard equipment:**

- Air blast through spindle
- Processed piece blow through
- Chip spraying system
- Chip conveyor
- Telescopic guards for X, Y, Z axis slideways
- Full protection of the workspace with door security lock
- Central lubrication system
- Work lights
- Signal mast
- Cooling system
- Blow and spray gun
- MPG handwheel
- Electrical cabinet cooling
- RS-232 port
- BT40 spindle - 8000 rpm - driven by a cogbelt
- 24-position drum tool storage
- Rigid threading
- Spindle and ball screws temperature maintenance system
- Rotary encoder in A, C axes
- Service tools set
- Manual in English
- CE declaration of conformity



**Pinnacle LH vertical machining centres**

- Main components made from Meehanite (FC-30) cast iron, hardened to over HB190 and tempered. Precise P class linear slideways utilize rolls instead of usual ball bearing, which increases their rigidity and breaking load.
- Hydraulic actuator system of the spindle counterweight dampens vibrations and reduces vertical feed servomotor load Extremely strong column provides the best rigidity and precision.
- Spindle with precise P4 class bearings.
- Spindle enables various types of machining at high speed.
- Spindle oil cooling circuit prevents thermal expansion and ensures the environment is suitable for machining



Technical data	Unit	LH500A	LH500B
<b>WORKTABLE</b>			
Table surface	[mm]	500 x 500	550 x 500 x 2 detachable table
Travel	[mm]	650/560/560	650/560/560
Max. table load	[kg]	400	400
Max. processed detail size	[mm]	Ø630 x 610	Ø630 x 610
Min. distance between the spindle end and the axis	[mm]	100	100
Min. distance between the spindle centre	[mm]		
Table index	[°]	1°(0,001°)	0,001° (1°) swing
Pallet Change	[-]	-	-
<b>SPINDLE</b>			
Spindle taper		ISO40	ISO40
Distance between the spindle centre and the column	[mm]	600	600
Spindle rotational speed - cogbelt driven	[rpm]	60-8000 (10000)	60-8000 (10000)
Spindle rotational speed - gear driven	[rpm]	first gear: 40-2000,	top gear: 2001-8000
Spindle rotational speed - direct drive	[rpm]	12000	12000
Spindle rotational speed - electrospindle	[rpm]	15000	15000
FANUC servomotor	[contin./30min kW]	11/15 (a12/3000i)	11/15 (a12/3000i)
<b>FEED</b>			
Skip feed	[X/Y/Z m/min]	30/30/24	30/30/24
Working feed	[X/Y/Z mm/min]	10000	10000
<b>FEED SERVMOTOR</b>			
FANUC feed servomotor power	[kW]	β22/2000i (2,5) (optional a12/3000i (3,))	
<b>TOOL STORAGE</b>			
Type	[-]	chain	
Storage capacity	[st.]	40	
Max. tool diameter	[mm]	Ø76	
Max. tool length and weight	[mm, kg]	300, 8	
<b>OTHER INFORMATION</b>			
Electrical connection	[KVA]	40	
Coolant Tank capacity	[l]	200	
Weight	[kg]	6500	6700
Dimensions (L x W x H)	[mm]	3055 x 4560 x 2425	3055 x 5445 x 2425

**Automatic pallet changer system (LH500B)**

- Automatic worktable pallet change based on change system ensures smooth motion without jerks and rapid accelerations
- Pallet change time: 8 seconds
- big taper mount ensure that the table is properly mounted
- Max. pallet load capacity up to 400 kg

**Turntable (LH500A, LH500B)**

- The turn may be stopped by the hydraulic brake of table rotation - great rigidity ensures the best precision of machining

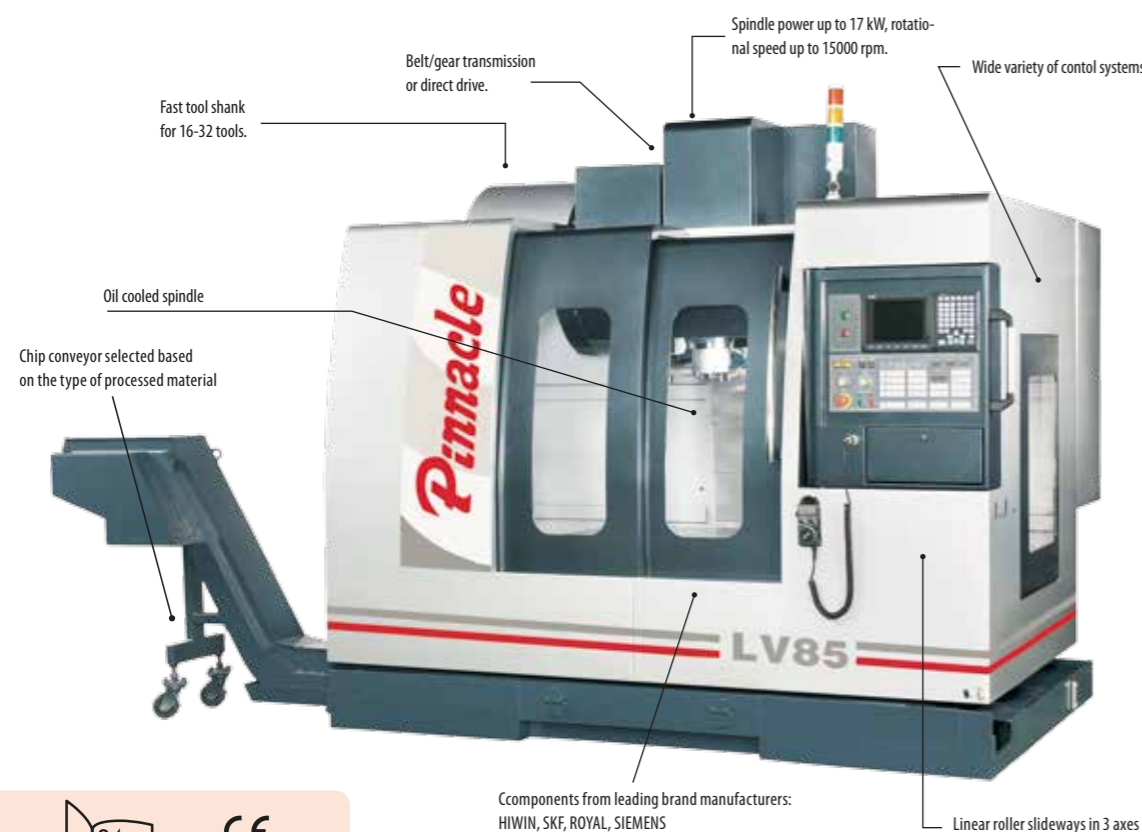


# SERIES VERTICAL 3-AXIS MACHINING CENTRES

PINNACLE LV85, LV105, LV116, LV126, LV117, LV137, LV147

Versatile 3-axis popular LV machining centre enables high-duty processing details of various shapes and levels of complexity.

Spindle (available versions: 8000, 10000, 12000 or 15000 rpm) enables precise machining of angled surfaces. Capacious tool shank enables wide variety of machining operations on one machine.



# SERIES VERTICAL 3-AXIS MACHINING CENTRES

PINNACLE LV85, LV105, LV116, LV126, LV117, LV137, LV147

## FEATURES:

Main components made from Meehanite (FC-30) cast iron, hardened to over HB190 and tempered. Precise, wide linear slideways utilizes rolls instead of usual ball bearing, which increases their rigidity and breaking load.

Pneumatic actuators installed in place of a counterweight enable continuous, fast Z axis feed which result in precise machining. Ball screws in all 3 axes, C3 accuracy class. Spindle with P4 class bearing enables comprehensive machining options and high speed. Spindle oil cooling circuit prevents thermal expansion and ensures the environment is suitable for machining.

## Control systems:

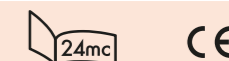
- FANUC 0i-MD/ 31i-MB
- SIEMENS 828D/ 840D
- FAGOR 8055i Plus
- MITSUBISHI M70/ M720/ M730
- HEIDENHAIN iTNC530/ TNC620

## Standard equipment:

- air blast through spindle
- processed piece blowthrough
- chips spraying
- telescopic slideways shields
- automatic lubrication system
- work lamp
- operation status light
- cooling system
- air gun and coolant
- MPG handwheel
- electrical cabinet cooling
- rigid tapping
- chip conveyor
- manual in English
- CE declaration of conformity

## Additional equipment:

- tool shaft types: rotary, drum, chain
- cooling through the spindle
- coolant tank with filter paper
- laser tool measuring system
- detail/tool probe
- turntable
- linear encoders



Technical data:	Unit	LV85	LV105	LV116	LV126
<b>WORKTABLE</b>					
Table surface	[mm]	1000 x 510	1200 x 510	1300 x 610	1400 x 610
Axis feed range	[X/Y/Z mm]	850/560/560	1020/560/560	1140/610/610	1270/610/610
Max. table load	[kg]	600	600	850	850
Distance between the spindle end and the table surface	[mm]	100-660	100-660	110-720	110-720
T-slots	[mm]	18x100x5	18x100x5	18x125x5	18x125x5
<b>SPINDLE</b>					
Spindle taper	[-]	ISO40	ISO40	ISO40/SO50	ISO40/SO50
Distance between the spindle centre and the column	[mm]	600	600	675	675
Spindle rotational speed - cog belt driven	[rpm]	60-8000 (10000)	60-8000 (10000)	60-8000 (10000)	60-8000 (10000)
Spindle rotational speed - gear driven	[rpm]		first gear: 40-2000, top gear: 2001-8000		
Spindle rotational speed - direct drive	[rpm]	12000	12000	12000	12000
FANUC servomotor	[contin./30min]	1/15 (β12/7000i)	1/15 (β12/7000i)	1/15 (β12/7000i)	1/15 (β12/7000i)
<b>FEED</b>					
Skip feed (X,Y,Z)	[m/min]	30/30/24	30/30/24	30/30/24	30/30/24
Working feed (X,Y,Z)	[m/min]	10000	10000	10000	10000
<b>FEED SERVO MOTOR</b>					
FANUC feed servomotor power	[kW]		β22/2000i (2.5) α12/3000i (3.0)		
<b>TOOL SHANK</b>					
Type:			ISO40 drum/chain		
Shank capacity:	[pieces]	20/24	20/24	16/20/24 (optional. 30)	16/20/24 (optional. 30)
Max. tool diameter	[mm]	Ø100/Ø90	Ø100/Ø90	Ø100/Ø90 (opcj. Ø77/ Ø115)	Ø100/Ø90 (opcj. Ø77/ Ø115)
Max. tool length	[mm]	250	250	250/300	250/300
Max. weight	[kg]	8	8	8/15	8/15
<b>OTHER INFORMATION</b>					
Electrical connection	[KVA]	20	20	20	20
Coolant Tank Capacity	[l]	200	200	300	300
Dimensions (LxWxH)	[mm]	2600 x 2230 x 2750	2820 x 2230 x 2750	3000 x 2200 x 2670	3500 x 2200 x 2670
Weight	[kg]	5500	5700	6500	6800

Technical data:	Unit	LV 117	LV 137	LV 147
<b>WORKTABLE</b>				
Table surface	[mm]	1300 x 700	1500 x 700	1600 x 700
X axis travel	[mm]	1140	1300	1400
Y axis travel	[mm]	710	710	710
Z axis travel	[mm]	610	610	610
Max. table load	[kg]	1000	1200	1500
T-slots	[mm]	18x125x5	18x125x5	18x125x5
<b>SPINDLE</b>				
Spindle taper	[-]	ISO40 (ISO50)	ISO40 (ISO50)	ISO40 (ISO50)
Spindle speed	[rpm]		40-8000 (12000, 15000)	
Spindle motor power (continuous/30min.)	[kW]	11/15	11/15	11/15
<b>FEED</b>				
Skip feed (X,Y,Z)	[m/min]	24/24/24	24/24/24	24/24/24
Cutting speed	[mm/min]	10000	10000	10000
Feed motor (X,Y,Z)	[kW]	β2.5 / α3.0	β2.5 / α3.0	β2.5 / α3.0
<b>TOOL SHAFT</b>				
Type:	[-]		drum/rotary/chain	
Number of tools	[-]	20/24 (24/32)	20/24 (24/32)	20/24 (24/32)
Max. tool diameter	[mm]	100/90 (115/127)	100/90 (115/127)	100/90 (115/127)
Max. tool length	[mm]	250 (300)	250 (300)	250 (300)
Max. weight	[kg]	8 (15)	8 (15)	8 (15)
<b>OTHER INFORMATION</b>				
Dimensions (LxWxH)	[mm]	3250 x 3080 x 3000	3490 x 3080 x 3000	3890 x 3080 x 3000
Weight	[kg]	9000	10000	11000



**Pinnacle DV series double column machining centres**

Main components made from Meehanite (FC-30) cast iron, hardened to over HB190 and tempered.  
 Precise P class linear sideways utilizes rolls instead of usual ball bearing, which increases their rigidity and breaking load.  
 Counter balance system with pneumatic actuator and pressure accumulator  
 The column cast as a single element is extremely strong and provides the highest rigidity and precision.  
 Spindle with precise P4 class bearings. Spindle enables various types of machining at high speed.  
 Spindle oil cooling circuit prevents thermal expansion and ensures the environment is suitable for machining.

**Control systems:**

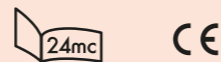
FANUC 0i-MD, 31i-MB  
 SIEMENS 828D, 840D  
 FAGOR 805Si Plus  
 MITSUBISHI M70, M720, M730  
 HEIDENHAIN iTNC530, TNC620

**Standard equipment:**

- Air blast through spindle
- Processed piece blowthrough
- Chip spraying system
- Chip conveyor
- Telescopic guards for all 3 axes
- Semi-full splash safety guard - open at the top
- Central lubrication system
- Work lights
- Signal mast
- Cooling system
- Blow and spray gun
- MPG handwheel
- Electrical cabinet cooling
- RS-232 port
- Gear driven BT50 spindle - 8000 rpm
- Pneumatic counterweight for the spindle
- 32-position chain tool shaft
- Rigid threading
- Spindle temperature maintenance
- Service tools set
- Manual in English and CE declaration of conformity

**Additional equipment:**

- Full workspace guard
- Chain tool shaft: 40, 60, 80, 120-positions
- BT40 Spindle - 10000, 12000 rpm
- Z axis travel extension – 1100mm
- Spindle servomotors 22, 26 kW
- Z axis travel on slideways, instead of linear ball circulation guides
- 20 bar cooling through the spindle
- Turntable - 4th axis
- Heidenhain linear encoder
- Angle head 90° 3500 rpm, indexed (every 5°)
- Automatic angle head (90°) with automatic head shaft



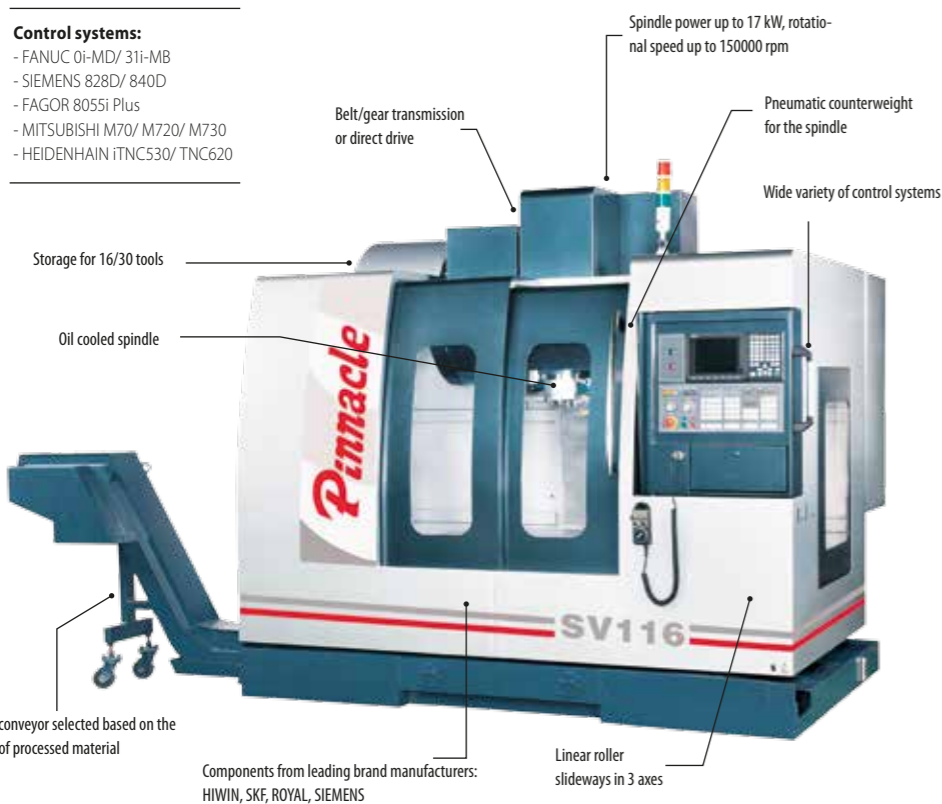
Technical data:	Jednostka	DV1417	DV1422	DV1432	DV1442	DV1717	DV1722
<b>WORKTABLE</b>							
Table surface	[mm]	1700 x 1200	2200 x 1200	3200 x 1200	4200 x 1200	1700 x 1500	2200 x 1500
Travel	[X/Y/Z mm]	1700/1400/900	2200/1400/900	3200/1400/900	4200/1400/900	1700/1700/900	2200/1700/900
Max. table load capacity (kg)		5000	5000	8000	8000	8000	8000
Distance between the spindle end and the table surface	[mm]	200-1100	200-1100	200-1100	200-1100	200-1100	200-1100
Distance between columns	[mm]	1400	1400	1400	1400	1700	1700
T-slots [width x distance x mm]	[mm]	22 x 150 x 7	22 x 150 x 7	22 x 150 x 7	22 x 150 x 7	22 x 150 x 9	22 x 150 x 9
<b>SPINDLE</b>							
Spindle taper	[-]	ISO50	ISO50	ISO50	ISO50	ISO50	ISO50
Distance between the spindle centre and the column	[mm]	404	404	404	404	404	404
Spindle speed range	[rpm]	8000	8000	8000	8000	8000	8000
FANUC servomotor	[continuous/30min kW]	15/18,5	15/18,5	15/18,5	15/18,5	15/18,5	15/18,5
<b>FEED</b>							
Skip feed	[X/Y/Z m/min]	20/20/20	16/20/20	16/20/20	12/20/20	20/16/20	16/16/20
Working feed	[X/Y/Z mm/min]	10000	10000	10000	10000	10000	10000
feed servomotor							
FANUC servomotor power	[kW]	α30/3000i (7.0)	α30/3000i (7.0)	α30/3000i (7.0)	α30/3000i (7.0)	α30/3000i (7.0)	α30/3000i (7.0)
<b>TOOL SHAFT</b>							
Type:				drum/chain			
Storage capacity	[pieces]	24/32	24/32	24/32	24/32	24/32	24/32
Max. tool diameter	[mm]	Ø115/Ø127	Ø115/Ø127	Ø115/Ø127	Ø115/Ø127	Ø115/Ø127	Ø115/Ø127
Max. tool length/weight	[mm, kg]	350, 20	350, 20	350, 20	350, 20	350, 20	350, 20
<b>OTHER INFORMATION</b>							
Electrical connection	[KVA]	50	50	50	50	50	50
Coolant Tank Capacity	[l]	900	900	900	900	900	900
Weight	[kg]	15500	16000	17000	18000	19500	21000
Dimensions (LxWxH)	[mm]	6000 x 4500 x 4500	6000 x 4500 x 4500	8000 x 4500 x 4500	10000 x 4500 x 4500	6000 x 4500 x 4500	6000 x 4500 x 4500

Technical data:	Unit	DV1732	DV1742	DV1922	DV1932	DV1942
<b>WORKTABLE</b>						
Table surface	[mm]	3200 x 1500	4200 x 1500	2200 x 1700	3200 x 1700	4200 x 1700
Travel	[X/Y/Z mm]	3200/1700/900	4200/1700/900	1700/1700/900	2200/1700/900	3200/1700/900
Max. table load capacity (kg)		10000	10000	8000	10000	12000
Distance between the spindle end and the table surface	[mm]	200-1100	200-1100	200-1100	200-1100	200-1100
Distance between columns	[mm]	1700	1700	1900	1900	1900
T-slots (W x Dist. x quantity)	[mm]	22 x 150 x 9	22 x 150 x 9	22 x 150 x 11	22 x 150 x 11	22 x 150 x 11
<b>SPINDLE</b>						
Spindle taper	[-]	ISO50	ISO50	ISO50	ISO50	ISO50
Distance between the spindle centre and the column	[mm]	404	404	404	404	404
Spindle speed range	[rpm]	8000	8000	8000	8000	8000
FANUC servomotor	[continuous/30min kW]	15/18,5	15/18,5	15/18,5	15/18,5	15/18,5
<b>FEED</b>						
Skip feed	[X/Y/Z m/min]	12/16/20	12/16/20	12/16/20	12/16/20	12/16/20
Working feed	[X/Y/Z mm/min]	10000	10000	10000	10000	10000
Feed servomotor						
FANUC servomotor power	[kW]	α30/3000i (7.0)	α30/3000i (7.0)	α30/3000i (7.0)	α30/3000i (7.0)	α30/3000i (7.0)
<b>TOOL SHAFT</b>						
Type:				drum/chain		
Storage capacity	[pieces]	24/32	24/32	24/32	24/32	24/32
Max. tool diameter	[mm]	Ø115/Ø127	Ø115/Ø127	Ø115/Ø127	Ø115/Ø127	Ø115/Ø127
Max. tool length/weight	[mm, kg]	350, 20	350, 20	350, 20	350, 20	350, 20
<b>OTHER INFORMATION</b>						
Electrical connection	[KVA]	50	50	50	50	50
Coolant Tank Capacity	[l]	900	900	900	900	900
Weight	[kg]	24000	24000	22000	23500	25000
Dimensions [L x W x H mm]	[mm]	8000 x 4500 x 4500	10000 x 4500 x 4500	6000 x 4500 x 4500	8000 x 4500 x 4500	10000 x 4500 x 4500

SV type centres are intended for heavy-duty machining. Construction of the slide ways enables carrying heavy loads while the counter weight solutions effectively dampens vibrations.

**Features:**

Strong, solid base guarantees suitable rigidity and stability. Main components made from Meehanite (FC-30) cast iron, hardened to over HB190 and tempered. Wide slide ways on three axes, hardened to HRC50 with over 2 mm depth. Low coefficient of friction, no stick-slip motion, durability and minimum wear are ensured by precisely finished slide ways surfaces covered with Turcite-B. The counter weight being mounted on the roller which dampens vibrations ensures precise machining. Ball screws in all 3 axes, C3 accuracy class. Spindle with P4 class bearing enables comprehensive machining options and high speed. Spindle oil cooling circuit prevents thermal expansion and ensures the environment is suitable for machining.

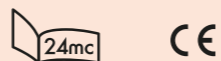


**Standard equipment:**

- air blast through spindle
- air blast through detail
- chips spraying
- full telescopic slide ways shields
- automatic lubrication system
- work lamp
- operation status light
- cooling system
- air gun and coolant
- MPG handwheel
- electrical cabinet cooling
- rigid tapping
- chip conveyor
- manual in English
- CE declaration of conformity

**Additional equipment:**

- tool shaft types: rotary, drum, chain
- cooling through the spindle
- coolant tank with filter paper
- detail probe
- laser tool measuring system
- detail/tool probe
- turntable
- linear encoders



Technical data:	Unit	SV85	SV105	SV116	SV126
<b>WORKTABLE</b>					
Table surface	[mm]	1000 x 510	1200 x 510	1300 x 610	1440 x 510
Feed	[X/Y/Z mm]	850/560/560	1020/560/560	1140/610/610	1300/610/610
Max. table load	[kg]	600	600	850	850
Distance between the spindle end and the table surface	[mm]	100-660	100-660	110-720	110-720
T-slots (W x Dist. x quantity)	[mm]	18 x 100 x 5	18 x 100 x 5	18 x 125 x 5	18 x 125 x 5
<b>SPINDLE</b>					
Spindle taper	[-]	ISO 40	ISO 40	ISO40/ISO50	ISO40/ISO50
Distance between the spindle centre and the column	[mm]	600	600	675	675
Spindle speed range	[rpm]		60-8000 [10000,12000]		
FANUC servomotor	[continuous/30min kW]		11/15 [β12/7000i]		
<b>FEED</b>					
Skip feed	[X/Y/Z m/min]	20/20/20	20/20/20	20/20/20	20/20/20
Working feed	[X/Y/Z mm/min]	10000	10000	10000	10000
<b>TOOL SHANK</b>					
Type:			ISO40/ISO50 rotary/chain		
Storage capacity	[pieces]	20/24	20/24	16/20/24 (optional 30)	16/20/24 (optional 30)
<b>OTHER INFORMATION</b>					
Weight	[kg]	5600	5800	6500	6800
Dimensions (L x W x H)	[mm]	2600 x 2230 x 2750	2820 x 2230 x 2750	3000 x 2200 x 2670	3500 x 2200 x 2670

Vertical QV series machining centres are suitable for heavy-duty machining of big elements. Wide slide ways ensure uniform load distribution, precision and enables machining pieces up to 3 tonnes.

**Features:**

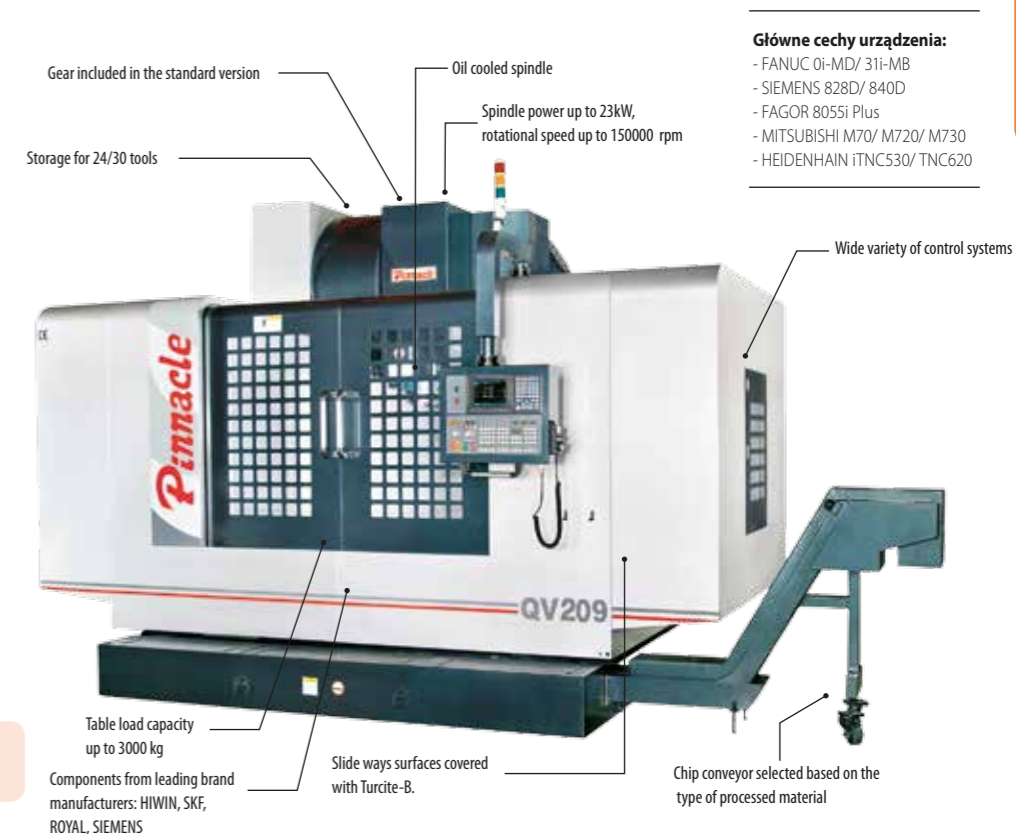
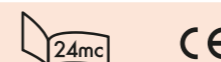
Strong, solid base guarantees suitable rigidity and stability. Main components made from Meehanite (FC-30) cast iron, hardened to over HB190 and tempered. Wide slide ways on three axes, hardened to HRC50 with over 2 mm depth. Low coefficient of friction, no stick-slip motion, durability and minimum wear are ensured by precisely finished slide ways surfaces covered with Turcite-B. The counter weight being mounted on the roller which dampens vibrations ensures precise machining. Ball screws in all 3 axes, C3 accuracy class. Spindle with P4 class bearing enables comprehensive machining options and high speed. Spindle oil cooling circuit prevents thermal expansion and ensures the environment is suitable for machining.

**Standard equipment:**

- air blast through spindle
- air blast through detail
- chips spraying
- full telescopic slide ways shields
- automatic lubrication system
- work lamp
- operation status light
- cooling system
- air gun and coolant
- MPG handwheel
- electrical cabinet cooling
- rigid tapping
- chip conveyor
- manual in English
- CE declaration of conformity

**Additional equipment:**

- tool shaft types: rotary, drum, chain
- cooling through the spindle
- coolant tank with filter paper
- detail probe
- laser tool measuring system
- detail/tool probe
- turntable
- linear encoders



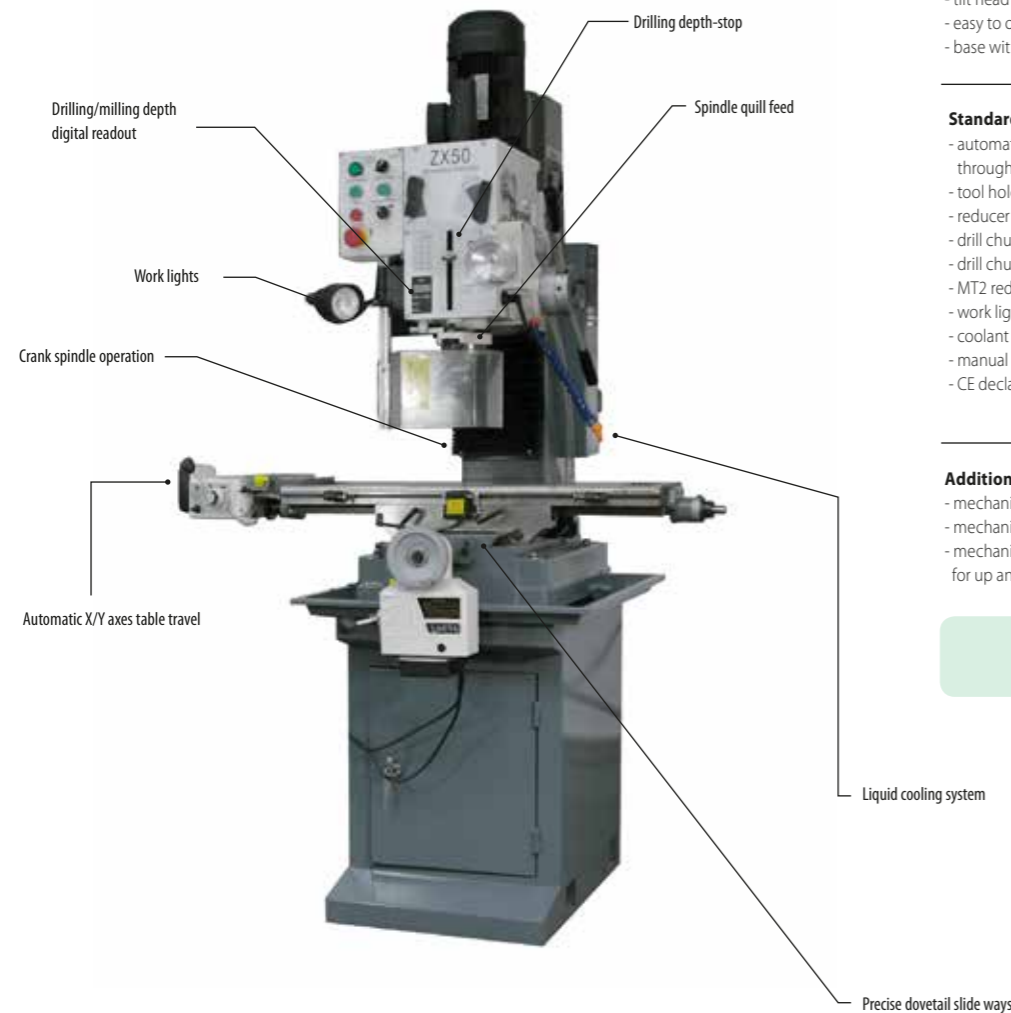
**Główne cechy urządzenia:**

- FANUC 0i-MD/ 3i-MB
- SIEMENS 828D/ 840D
- FAGOR 805Si Plus
- MITSUBISHI M70/ M720/ M730
- HEIDENHAIN iTNC530/ TNC620

Technical data:	Unit	QV117	QV137	QV147	QV159	QV179	QV209
<b>WORKTABLE</b>							
Table surface	[mm]	1300 x 700	1500 x 700	1600 x 700	1700 x 850	2000 x 850	2200 x 850
Travel	[X/Y/Z mm]	1140/710/610	1300/710/610	1440/710/610	1500/900/850	1500/900/850	1500/900/850
Max. table load capacity	[kg]	1000	1200	1500	2000	2500	3000
Distance between the spindle end and the table surface	[mm]	110-720	110-720	110-720	150-1000	150-1000	150-1000
T-slots	[width x distance x quantity mm]	18 x 125 x 5	18 x 125 x 5	18 x 125 x 5	18 x 150 x 5	18 x 150 x 5	18 x 150 x 5
<b>SPINDLE</b>							
Spindle taper	[-]	ISO40/ISO50	ISO40/ISO50	ISO40/ISO50	ISO40/ISO50	ISO40/ISO50	ISO40/ISO50
Distance between the spindle centre and the column	[mm]	760	760	760	950	950	950
Spindle speed range	[rpm]				60-8000 (10000,12000)		
FANUC servomotor	[continuous/30min kW]				11/15 (β12/7000i) or 15/18,5 (α15/10000i)		
<b>FEED</b>							
Skip feed	[X/Y/Z m/min]	20/20/16	20/20/16	20/20/16	16/16/12	16/16/12	16/16/12
Working feed	[X/Y/Z mm/min]	10000	10000	10000	8000	8000	8000
<b>TOOL SHANK</b>							
Type:					ISO40/ISO50 rotary/chain		
Storage capacity	[pieces]	20/24	20/24	20/24	16/20/32	16/20/32	16/20/32
<b>OTHER INFORMATION</b>							
Weight	[kg]	8500	9000	9500	6000	6500	6800
Dimensions (L x W x H)	[mm]	3250 x 3080 x 2950	3490 x 3080 x 2950	3890 x 3080 x 2950	3950 x 2900 x 3200	4450 x 2900 x 3200	4750 x 2900 x 2000

# EUROMET ZX50 MILLING DRILLING MACHINE

Machine suitable for use in machine shops or as a training machine in technical schools. Intended for piece and small-lot production. Simple, uncomplicated construction guarantees reliable operation.



### Main features:

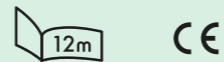
- precise design
- strong, solid construction
- automatic spindle travel
- tilt head (right, left)
- easy to operate
- base with a tool box

### Standard equipment:

- automatic spindle feed - spindle speed regulated through a clutch
- tool holders
- reducer sleeve
- drill chuck
- drill chuck mandrel
- MT2 reduction sleeve
- work lights
- coolant pump
- manual in English
- CE declaration of conformity

### Additional equipment:

- mechanical table feed(longitudinal)
- mechanical table feed (cross)
- mechanical spindle travel (electric actuator for up and down spindle feed)



Control panel



Infinitely variable table feed speed control - optional

Technical data:	Unit	ZX50
Drill diameter - steel	[mm]	32
Face mill diameter	[mm]	80
Shank cutter diameter	[mm]	32
Table dimension	[mm]	780 x 240
Table longitudinal travel	[mm]	565
Table cross travel	[mm]	190
Spindle taper	[-]	MT3
Spindle feed	[mm]	120
Spindle speed	[rpm]	75-1600
Spindle speed ranges	[-]	6
Max. distance between the spindle and the table	[mm]	450
Head tilt - left and right	[o]	90
Motor power	[kW]	1,1
Net weight	[kg]	320
Dimensions	[mm]	760 x 850 x 1150

# EUROMET FN32A, FN40A TOOL MILLING MACHINES

FN series toll milling machines are suitable for maintenance services and tool shops - in every environment where versatility and precision of machining of complex details is required. Wide selection of equipment enables many operations.

### Main features:

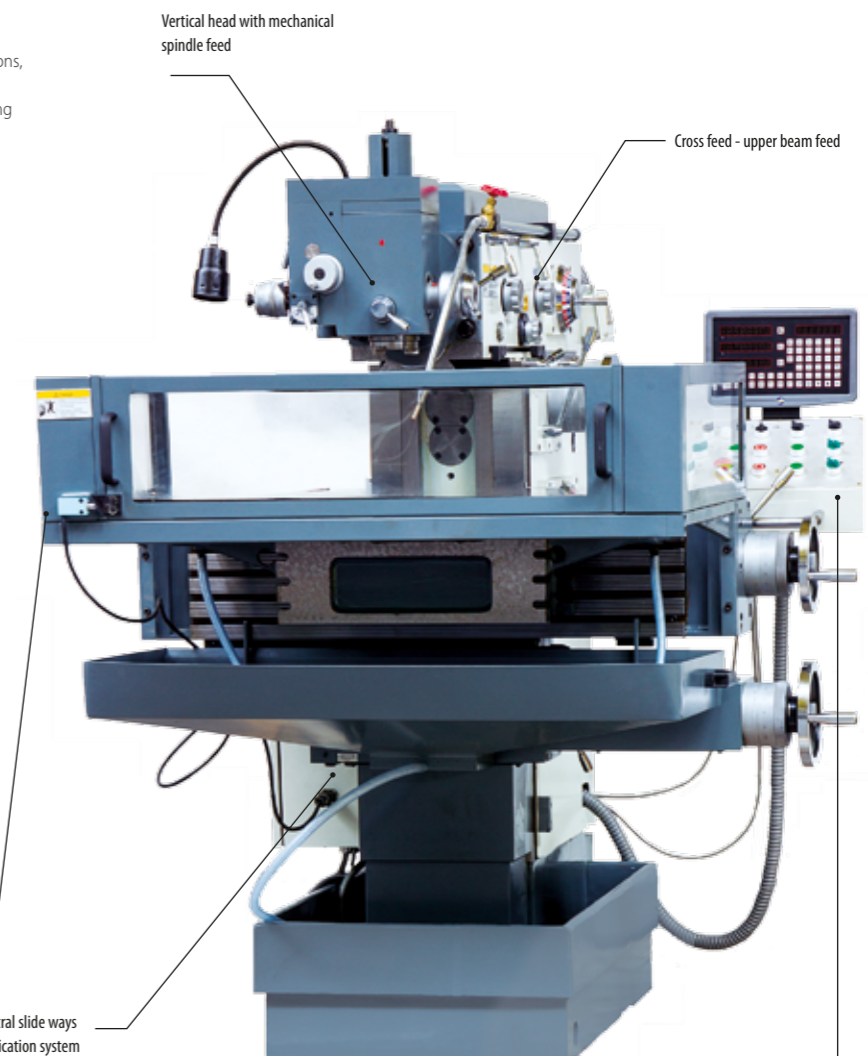
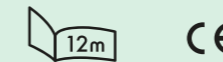
- construction based on the German MAHO milling machine
- wide selection of additional equipment enabling more operations, eg. chiselling, drilling, facing, tapping or gear cutting.
- suitable mainly for use in tool shops and in workshops producing precise and complicated products.
- can be used as a horizontal or vertical milling machine
- working skip feed on X, T, Z axes

### Standard equipment:

- universal table (horizontal) - rotational tilt table
- turntable
- vice
- index head
- slotting attachment
- vertical milling head
- manual in English
- CE declaration of conformity

### Additional equipment:

- digital readout



Technical data:	Unit	FN32A	FN40A
Universal table dimensions	[mm]	400 x 750	400 x 800
Working space - vertical table	[mm]	250 x 850	250 x 950
Longitudinal/cross/vertical travel	[mm]	400/300/400	500/350/400
Universal table tilt	[°]	± 360°	± 360°
Horizontal axis rotation	[°]	± 30°	± 30°
front and rear	[°]	± 30°	± 30°
tilt (left and right)	[mm]	60	60
Vertical head quill feed	[°]	± 90°	± 90°
head tilt (left, right)	[-]	ISO 40	ISO 40
Spindle taper	[mm]	1330	1330
Distance between the vertical head and the floor	[mm]	35	35
Min. distance between the table and the spindle	[-]	ISO 40	ISO 40
Vertical head spindle taper	[mm]	5	5
Min. distance between the table and the spindle	[rpm]	40-2000	40-2000
Horizontal and vertical spindle speed range (18 steps)	[obr/min]	10-500	10-500
Longitudinal/cross/vertical feed speed	[obr/min]	0,03-0,12	0,03-0,12
Quill feed speed (3 steps)	[kW]	3 / 1,5	3 / 1,5
Main motor power/feed motor power	[kg]	300	400
Max. table load capacity/tool load capacity	[mm]	1820 x 1640 x 1710	1820 x 1640 x 1710
Dimensions (L x W x H)	[kg]	2200	2300
Net weight			

Control panel on a movable extension arm

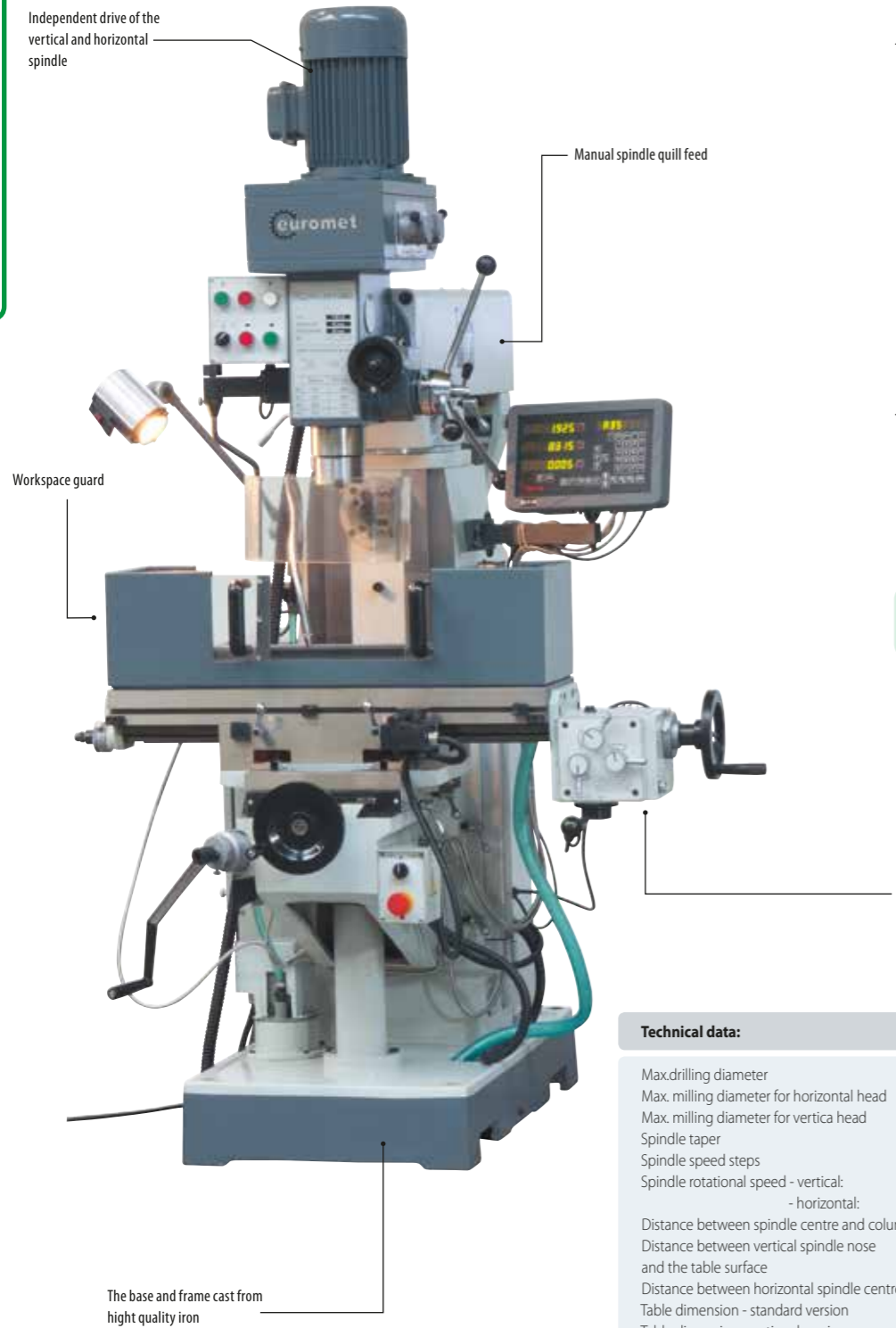


Slotting attachment

# EUROMET FW 10 DRILLING & MILLING MACHINE

Simple, uncomplicated construction guarantees reliable and long operation. The drilling & milling machine is suitable for machining small moderately complicated details. The machine comes with two spindles - a vertical and a horizontal spindle - driven by independent motors. A twist-beam enables the machine to be transformed from vertical to horizontal drilling & milling machine. The vertical spindle with quill feed can be tilted, which enables drilling and milling at an angle. The machine is suitable for small and medium repair and production shops. It is very often used as a training machine in school workshops.

EUROMET FW 10 DRILLING & MILLING MACHINE

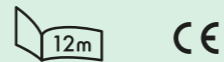


### Standard equipment:

- tool mandrel
- set of tool mounting sleeves for end mills + toll holder
- 16 mm drill chuck
- B18 chuck mandrel
- ISO 40/MT2 reduction sleeve
- work lights
- cooling system
- vertical milling head
- automatic longitudinal table feed
- digital readout
- manual in English
- CE declaration of conformity

### Additional equipment:

- machine vice
- turntable
- index head
- set of mounts for mounting the workpiece to the table



Technical data:	Unit	FW 10
Max.drilling diameter	[mm]	30
Max. milling diameter for horizontal head	[mm]	80
Max. milling diameter for vertical head	[mm]	25
Spindle taper	[-]	ISO 40
Spindle speed steps	[-]	8 (3-fazy)
Spindle rotational speed - vertical:	[rpm]	115-1750
- horizontal:	[rpm]	60-1350
Distance between spindle centre and column	[mm]	200-700
Distance between vertical spindle nose and the table surface	[mm]	100-480
Distance between horizontal spindle centre and the table	[mm]	60-400
Table dimension - standard version	[mm]	800 x 240
Table dimension - optional version	[mm]	1000 x 240
Spindle quill feed	[mm]	120
Table travel	[mm]	350x230 / 460x230
Main vertical motor	[kW]	0,85/1,5
- steps:	[kW]	1,5
Dimensions	[mm]	1280 x 1100 x 1920
Net weight	[kg]	970

The base and frame cast from high quality iron

# EUROMET FW 12 DRILLING & MILLING MACHINE

Small, easy to operate drilling-milling machine intended for use in production departments, repair shops and tool shops. The main advantages of the machine are the power feed in X and Y axes and the fact that the machine can also be utilised as a vertical or horizontal machine. Stable base from high quality cast iron.

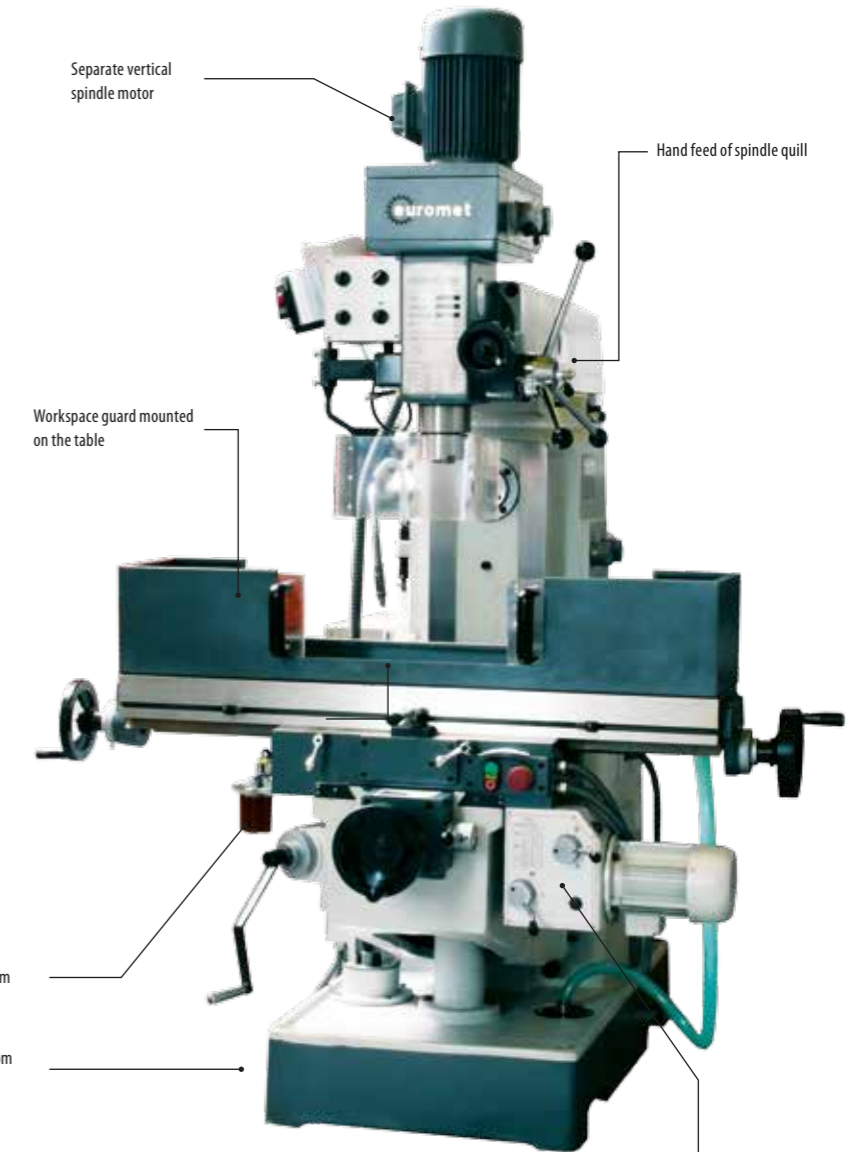
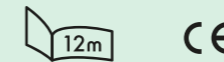
EUROMET FW 12 DRILLING & MILLING MACHINE

### Standard equipment:

- automatic table feed on X, Y axes
- vertical head
- 16mm drill chuck
- ISO40/B18 reducer sleeve for drill chuck
- ISO40/MT3 reducer sleeve
- ISO40/MT2 reducer sleeve
- chuck with 4 - 16 mm collets
- milling arbor 2 pieces
- cooling system
- lightning
- central lubrication system
- set of basic tools
- horizontal milling rest
- manual in English
- CE declaration of conformity

### Additional equipment:

- digital readout
- slotting head with separate motor
- index head
- turntable
- set of tools for mounting the workpiece on the table
- vice



Technical data:	Unit	FW 12
Max. drilling diameter	[mm]	50 cast iron/25 steel
Max. end milling diameter [mm]	[mm]	25
Spindle taper	[-]	ISO40
Vertical spindle rotational speed range	[rpm]	67-2010
Horizontal spindle rotational speed range	[rpm]	40 - 1300
Distance between vertical spindle and the column surface	[mm]	200-550
Distance between vertical spindle nose and the worktable	[mm]	70 - 370
Distance between vertical spindle centre and the worktable	[mm]	0-300
Table dimension - standard version	[mm]	1120 x 260
Table dimension - optional version	[mm]	1000 x 240
Quill feed	[mm]	120
Table longitudinal travel	[mm]	600
- cross travel	[mm]	300
- vertical	[mm]	300
vertical [mm] 300		
Main vertical motor	[kW]	0,85/1,5
- horizontal	[kW]	1,5
Dimensions	[mm]	1280 x 1100 x 1920
Net weight	[kg]	1400



Vertical spindle motor



Table feed control



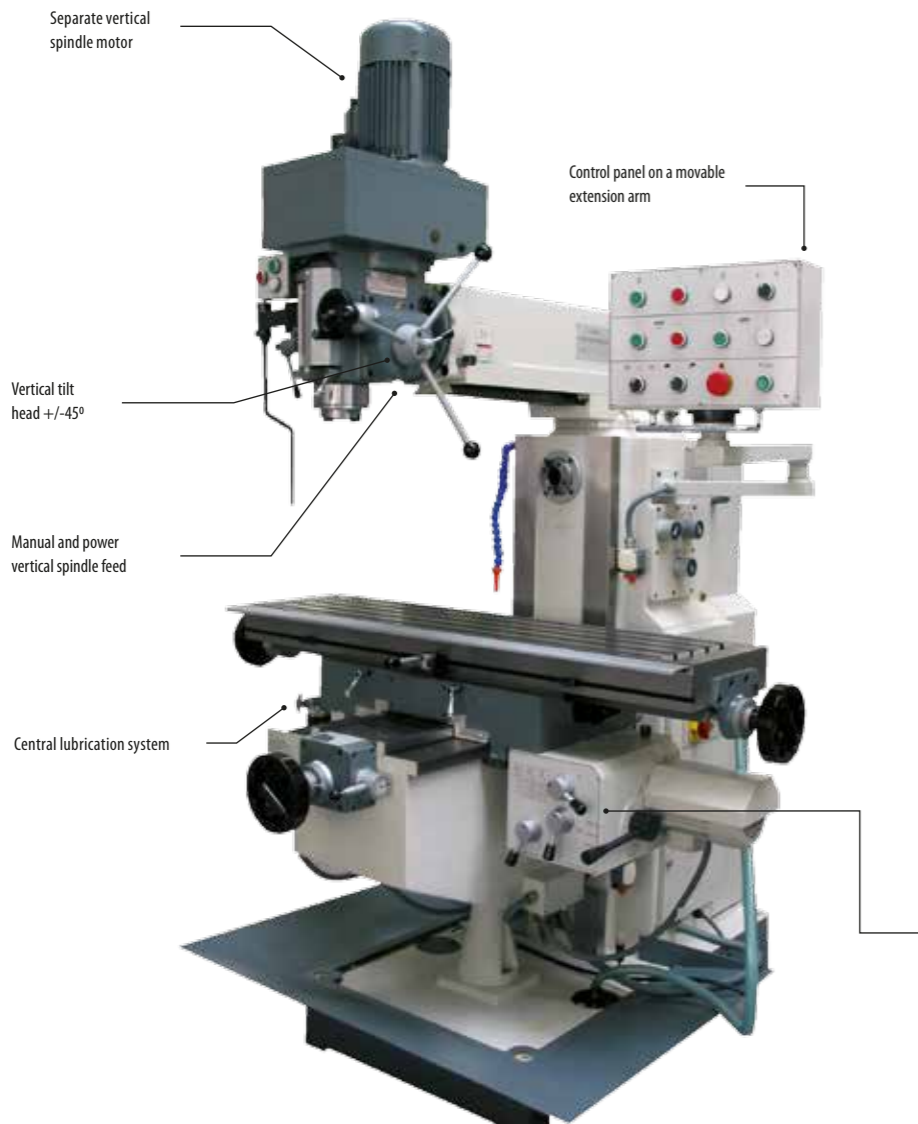


# EUROMET FW30 DRILLING & MILLING MACHINE

Medium-sized drilling-milling machine with horizontal spindle and vertical milling head. Vertical headstock may be turned together with the upper beam, the horizontal spindle can be supported by a beam (after the rest is installed).

Vertical headstock with a tilt function, automatic spindle feed.

Machine intended for use in production plants and tool shops. State-of-the-art, reliable design guarantees long operation.

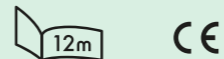


### Standard equipment:

- power table feed on X, Y axes
- vertical tilted head - angle up to +/- 45°
- spindle rest
- long and short milling arbor
- cooling system
- work lights
- Ø16 mm drill chuck
- ISO40/B18 reducer sleeve
- ISO40/MT4 reducer sleeve
- ISO40/MT3 reducer sleeve
- ISO40/MT2 reducer sleeve
- end mill holder set
- horizontal spindle
- vertical spindle power feed
- manual in English
- CE declaration of conformity

### Additional equipment:

- digital readout for 3 axes
- slotting head with separate motor
- index head
- turntable
- vice
- set of mounts for mounting the workpiece to the table



Technical data:	Unit	FW 30
Max. drilling diameter (manual feed)	[mm]	50
Max. drilling diameter (power feed)	[mm]	14 (żeliwo) / 12 (stal)
Max. milling diameter	[mm]	25
Spindle taper	[-]	7:24 ISO 40
Distance between vertical spindle and column	[mm]	780
Distance between vertical spindle and table	[mm]	180 – 580
Distance between horizontal spindle and table	[mm]	70 – 470
Spindle feed	[mm]	120
Horizontal spindle rotational speed range	[rpm]	90-2000
vertical spindle	[rpm]	38-1310
Spindle speed steps horizontal spindle	[-]	12
vertical spindle	[-]	8
Table dimension	[mm]	1325 x 320
Table feed	[mm]	800 x 300 x 400
Spindle power feed	[mm/turn]	0.08, 0.15, 0.25
T-slots	[mm]	5 x 14 x 63
Width, distance between t-slots	[mm]	14,63
Vertical/horizontal spindle main motor power	[kW]	2,2 kW/2,2 kW
Dimensions (L x W x H)	[mm]	1720 x 1720 x 2330
Net weight	[kg]	1800



Vertical spindle feed and rotation change



Automatic vertical spindle feed-stop change

The base and frame cast from high quality iron

Working and skip table feed on X, Y axes

# EUROMET FW40 DRILLING & MILLING MACHINE

The state-of-the-art machine combines functions of an universal milling machine and a drilling machine. Due to separate vertical and horizontal spindle drives, the time required for changing the machine from a vertical milling machine into a horizontal miller is much shorter.

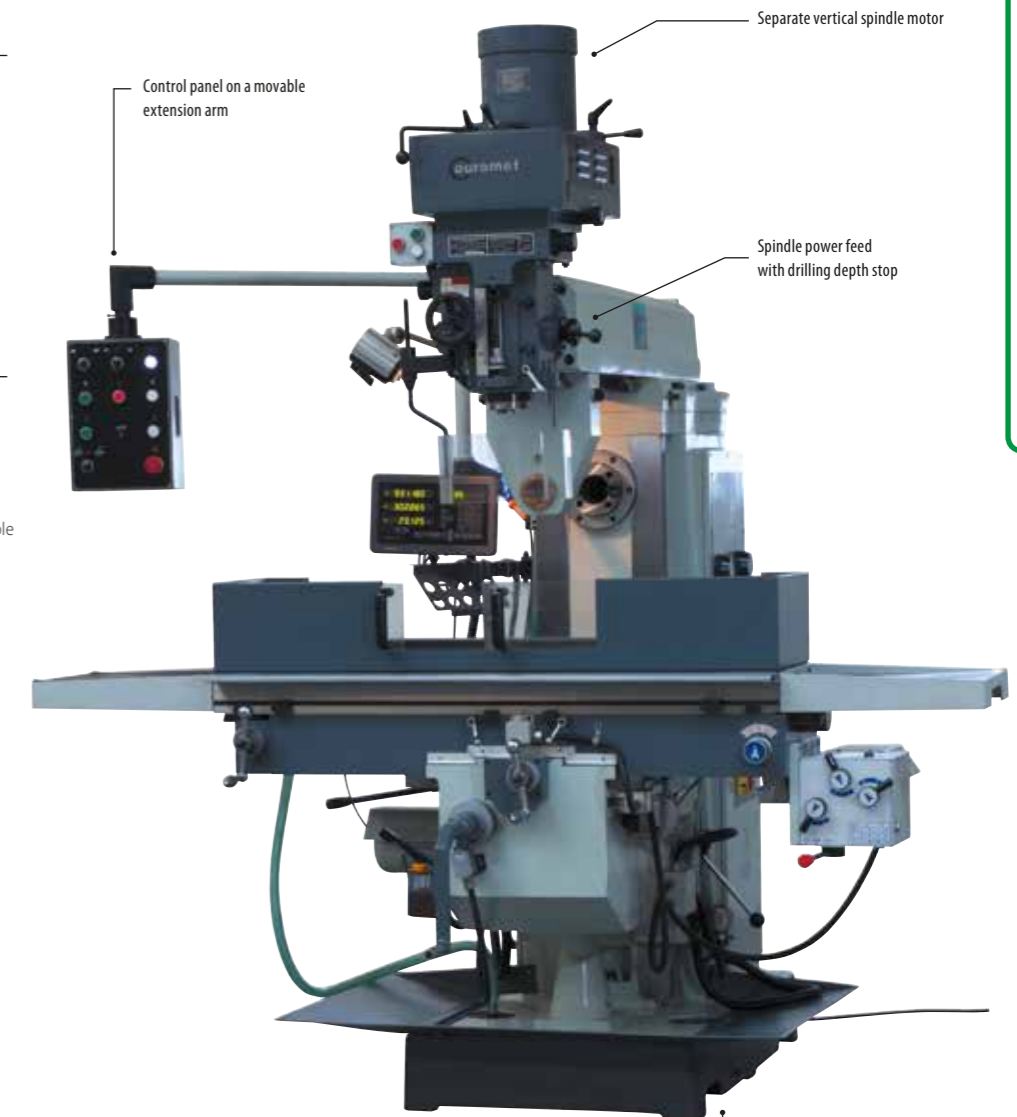
The machine can be additionally equipped with a slotting attachment with a separate drive, which makes the machine even more universal and versatile.

### Standard equipment:

- automatic feed on 3 axes
- Ø16 mm drill chuck
- ISO50/MT2, ISO50/MT3 reducer sleeves
- set of collets for end mills
- drift key
- set of tools
- digital readouts for 3 axes
- worktable guard
- manual in English
- CE declaration of conformity

### Additional equipment:

- machine vice
- index head
- turntable
- slotting attachment with separate motor
- set of tools for mounting the workpiece on the table



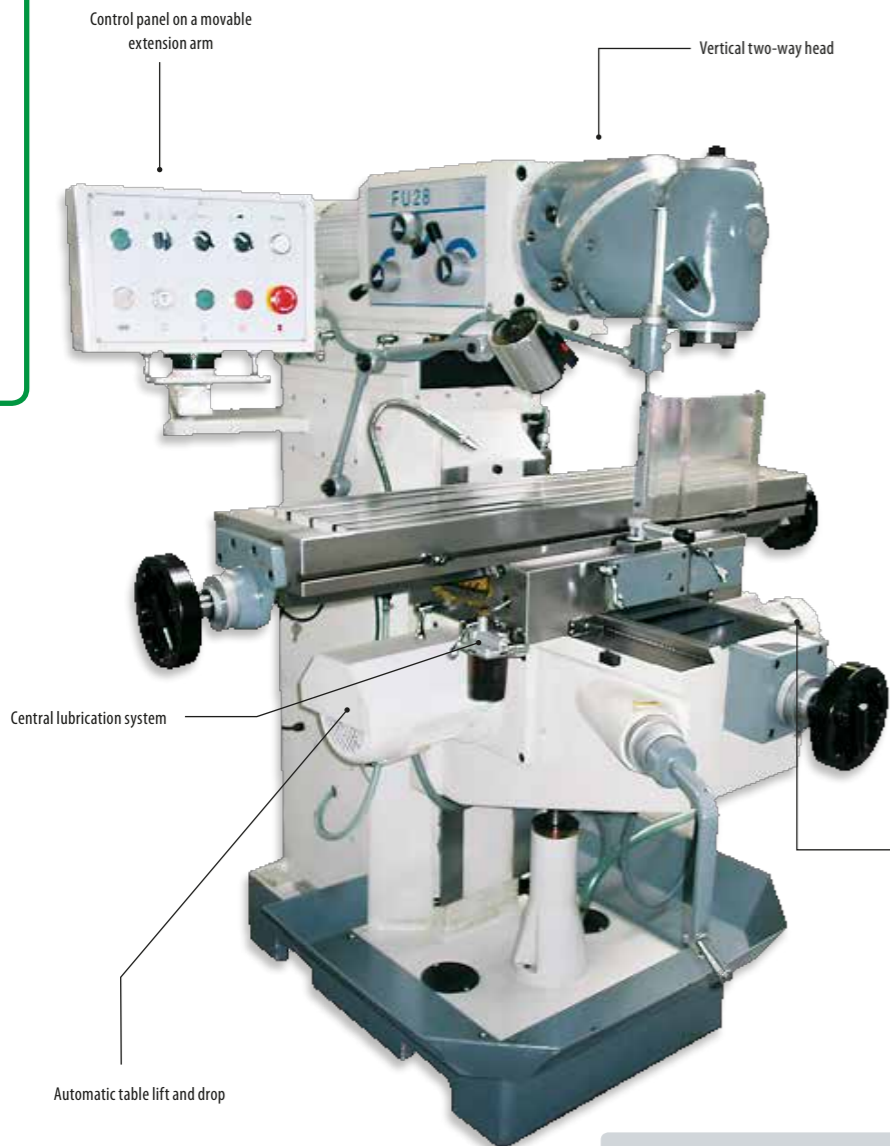
Technical data:	Unit	FW 40
Table size (LxW)	[mm]	1320x360
T-slots no./pitch/size	[mm]	3/18/80
Table feed	[mm]	1000 x 300 x 400
Spindle taper	[-]	ISO 40 / ISO 50
Spindle speed range	[rpm]	70-3600 (10 steps) vertical spindle
	[rpm]	58-1800 (12 steps) horizontal spindle
Max.drilling diameter (power feed)	[mm]	14-cast iron / 10-steel
Max.milling diameter (end mill)	[mm]	Ø 25
Max.threading diameter	[mm]	M16
Spindle quill feed	[mm]	127
Max. head tilt	[°]	± 45
Distance between vertical spindle centre and the column surface	[mm]	150-550
Distance between vertical spindle nose and the table surface	[mm]	200-650
Distance between horizontal spindle centre and the table	[mm]	0-450
Longitudinal feed rate	[mm/min]	15-370
Cross feed rate	[mm/min]	22-255
Spindle motor power	[kW]	3,7
Dimensions	[mm]	2070 x 2020 x 2336
Net weight	[kg]	2500

The base and frame cast from high quality iron



# EUROMET FU28 UNIVERSAL MILLING MACHINE

FU28 milling machine with simple, ergonomic and precise construction. The machines are easy to operate and provide a wide range of machining operations. Fast and easy retool from vertical to horizontal (and vice versa) mode, power feed on X, Y axes and skip feed on X, Y, Z axes. The machine is equipped with a two-way tilt head.

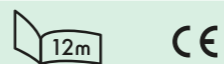


### Standard equipment:

- automatic feed X, Y - mechanical table lift
- vertical and horizontal milling head
- spindle rest
- spindle
- ISO40/Ø32 reducer sleeve for end mills
- end mill holder set
- anchor bolts set
- manual in English
- CE declaration of conformity

### Additional equipment:

- digital readouts for 3 axes
- index head
- turntable
- vice
- set of tools for mounting the workpiece on the table



Technical data:	Unit	FU28
Max. horizontal milling diameter	[mm]	125
Max. vertical milling diameter (end mill)	[mm]	25
Spindle taper	[-]	ISO 40
Speed steps	[-]	11
Spindle speed range	[rpm]	40 - 1600
Distance between spindle and column	[mm]	0 - 44
Distance between spindle and table	[mm]	120 - 460
Vertical head tilt	[°]	360°
Table workspace	[mm]	1120 x 260
Hand feed range (longitudinal, cross)	[mm]	800, 260
Power feed range (longitudinal, cross)	[mm]	600, 260
Automatic table feed	[mm/min]	24 - 402 T-slots:
No., breadth, pitch	[mm]	5, 14, 50
Spindle motor power	[kW]	2,2
Feed motor power	[kW]	0,37
Table lift motor power	[kW]	0,75
Dimensions (L x W x H)	[mm]	1655 x 1500 x 1700
Net weight	[kg]	1700



Two-way tilt head



Horizontal spindle system

# EUROMET FU31 UNIVERSAL MILLING MACHINE

Middle-sized universal milling machine intended for use in repair shops and tool shops.

### Features:

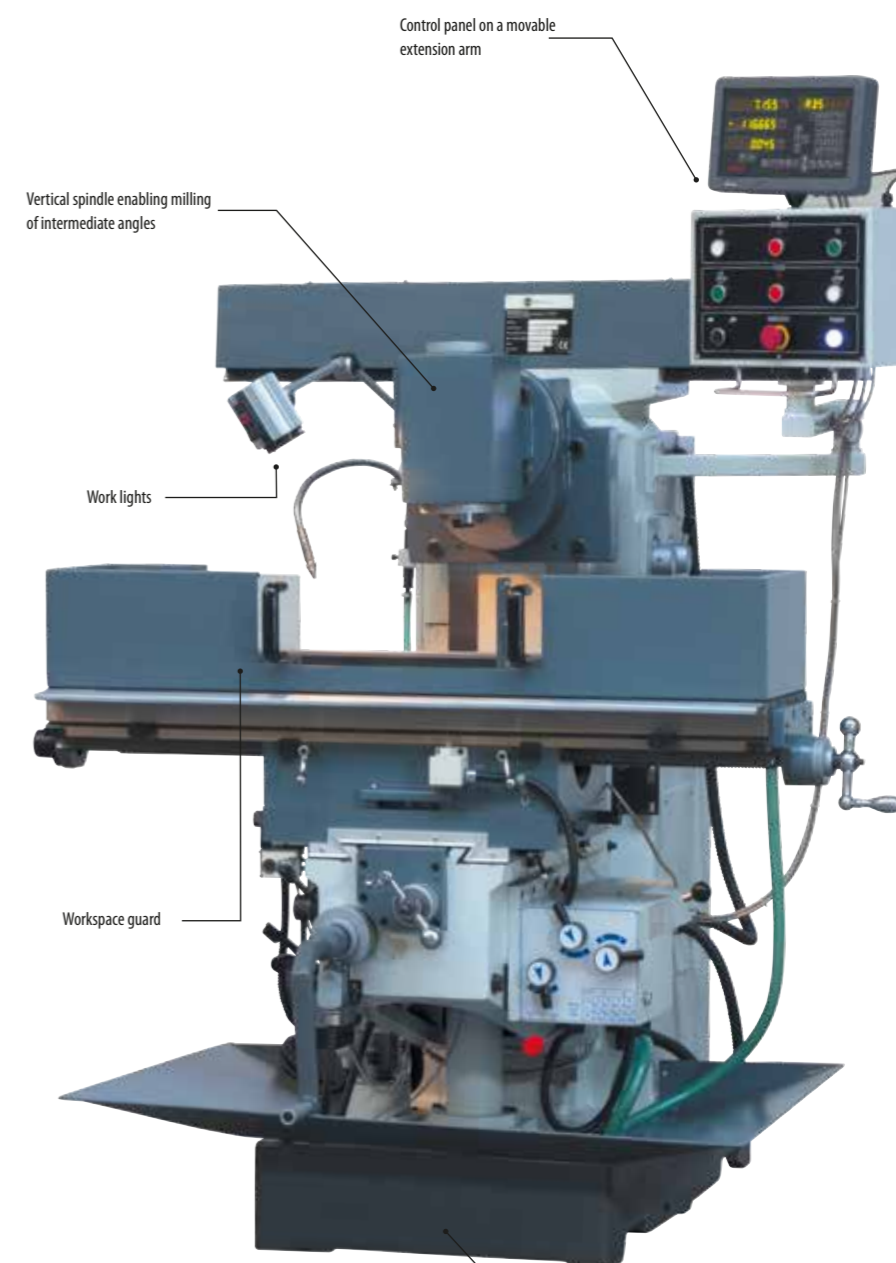
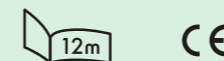
- precise dovetail guide ways
- automatic feed on X, Y, Z axes
- can be used as a horizontal or vertical milling machine - requires installing the head
- upper beam mounted to the base on a rotator, which enables slotting attachment to be mounted permanently
- wide variety of standard equipment, e.g. digital readout
- operator-friendly

### Standard equipment:

- automatic feed on 3 axes
- turntable
- mill arbors Ø27, Ø32
- ISO40 reducer sleeve
- vertical milling head
- digital readout for 3 axes
- worktable guard
- cooling system
- work lights
- CE declaration of conformity
- manual in English

### Additional equipment:

- index head
- turntable
- machine vice
- set of tools for mounting the workpiece on the table
- slotting head with separate motor

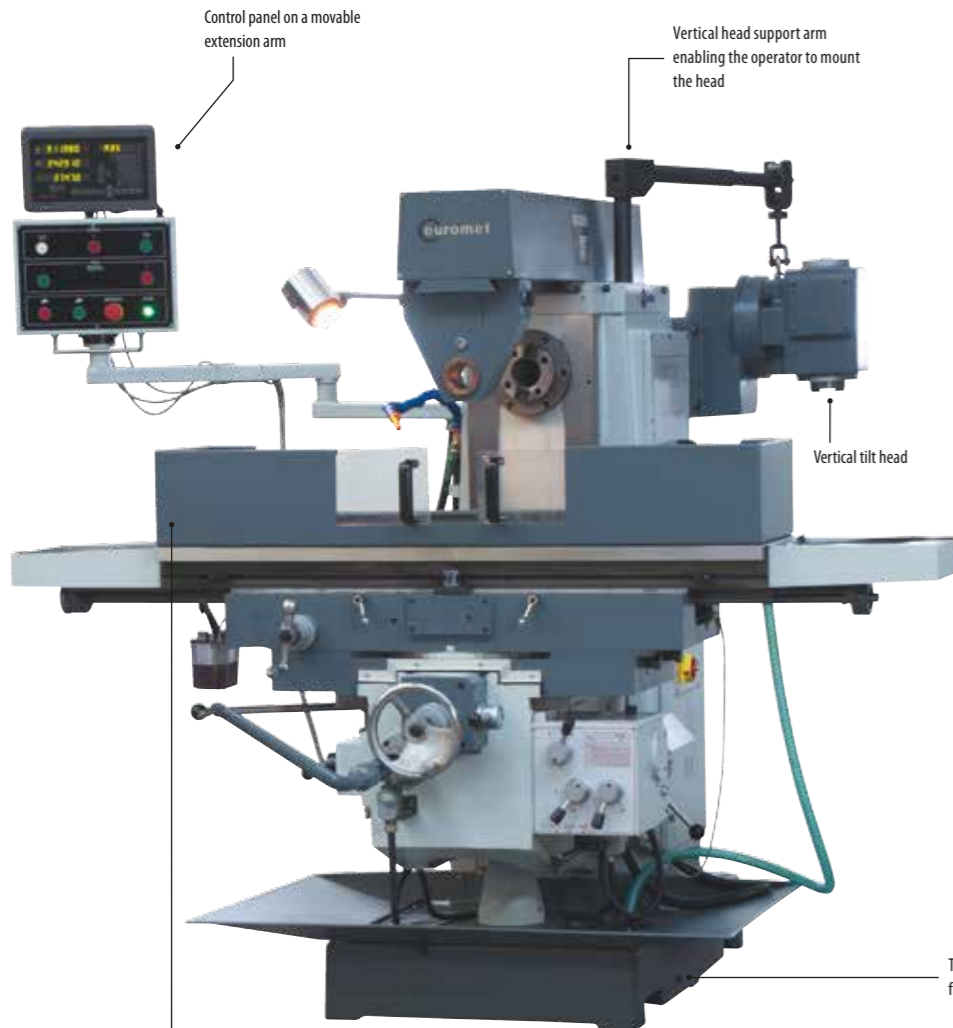


Technical data:	Unit	FU31
Table dimension (LxW)	[mm]	1270 x 320
Worktable rotation angle	[°]	±45
T-slots (No., width, pitch)	[mm]	3-14-70
Worktable max. load capacity	[kg]	200
Longitudinal/cross/vertical feed	[mm]	750/270/400
Spindle speed	[rpm]	60-1350 (12 stopni)
Working feed, longitudinal/cross/vertical	[mm/min]	20-800/20-800/10-400
Spindle taper	[-]	ISO 40, 7:2
Longitudinal and cross feed speed	[mm/min]	30-720
Vertical feed rate	[mm/min]	15-360
Skip feed, longitudinal/cross/vertical	[mm/min]	1000/1000/500
Spindle speed	[rpm]	60-1350 (12 predkosci)
Beam travel	[mm]	500
Table feed motor power	[kW]	1,1
Main motor power	[kW]	2,2
Dimensions	[mm]	1665 x 1480 x 2000
Weight	[kg]	1800

The base and frame cast from high quality iron

# EUROMET FU32A/3 UNIVERSAL MILLING MACHINE

FU32A/3 is the most popular universal milling machine with a simple design, rigid construction and reliable sub-assemblies, which provide wide range of machining options. The equipment of the milling machine includes, e.g. a vertical tilt head, digital readouts, central lubrication system, worktable guard and power feed on X, Y, Z axes.

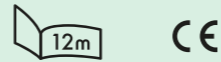


### Standard equipment:

- vertical head
- turntable
- digital readouts for 3 axes
- power feed for 3 axes
- cooling system
- work lights
- spindle rest
- long and short milling arbor
- end mill holder set
- ISO/Morse reduction sleeve
- manual in English
- CE declaration of conformity

### Additional equipment:

- slotting head with separate motor
- index head
- turntable
- machine vice
- set of tools for mounting the workpiece on the table



Workspace guard



Vertical head

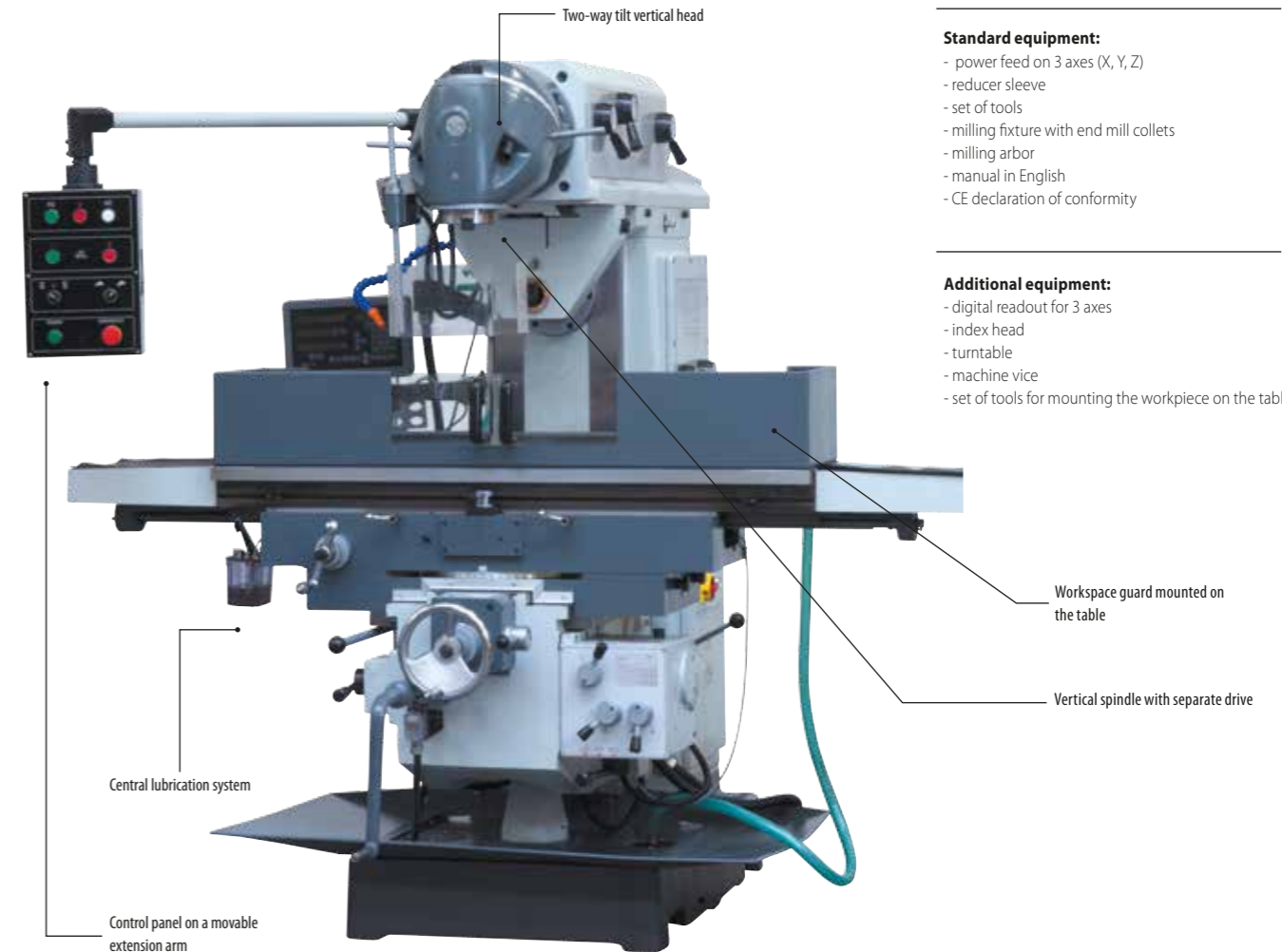


Slotting attachment

Technical data:	Unit	FU32A/3
Spindle taper	[°]	ISO 50
Distance between spindle centre and the table	[mm]	0-400
Distance between spindle centre and beam guide	[mm]	175
Spindle rotational speed range	[rpm]	58-1800
Table dimension	[mm]	1320 x 360
Table rotation angle	[°]	± 45
Longitudinal/cross/vertical feed	[mm]	1000/300/400
Table power feed:	[mm]	950/300/400
longitudinal/cross/vertical		
Longitudinal feed rate	[mm/min]	20 - 360
Cross feed rate	[mm/min]	20 - 360
Vertical feed rate	[mm/min]	10 - 180
Skip feed	[mm/min]	1200
T-slots: No./breadth/pitch	[mm]	5/14/63
Beam travel	[mm]	500
Main motor power	[kW]	4
Table feed motor power	[kW]	0,55
Coolant circulating pump motor power	[W]	90
Coolant circulating pump flow	[l/min]	25
Dimensions (L x W x H)	[mm]	2070 x 1900 x 1850
Net weight	[kg]	2100

# EUROMET FU36, FU38 UNIVERSAL MILLING MACHINES

High quality milling machine with iron cast base, rigid construction, state-of-the-art sub-assemblies and technology. The machine is equipped with a worktable, a separate vertical/horizontal spindle drive, a two-way rotary milling cutter, worktable stops for all surfaces and an user-friendly, thoughtfully placed control. Power and skip table feed on X, Y, Z axes



### Standard equipment:

- power feed on 3 axes (X, Y, Z)
- reducer sleeve
- set of tools
- milling fixture with end mill collets
- milling arbor
- manual in English
- CE declaration of conformity

### Additional equipment:

- digital readout for 3 axes
- index head
- turntable
- machine vice
- set of tools for mounting the workpiece on the table

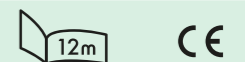
Technical data:	Unit	FU36	FU38
Spindle nose	[°]	ISO50 horizontal ISO50 vertical	ISO50 horizontal ISO50 vertical
Distance between spindle and table	[mm]	0-400	30-510
Spindle rotational speed	[rpm]	58-1800 vertical 60-1750 horizontal	12 steps 60-1800 vertical 12 steps 60-1300 horizontal
Distance between spindle and table	[mm]	0-400	
Table dimensions	[mm]	1320x360	1500x360
Max. table turn	[°]	+/- 35	+/- 35
X/Y/Z table feed	[mm]	1000x300x400	900x390x500
X/Y/Z work feed	[mm]		860x350x450
Longitudinal feed range - X	[mm/min]	22-420	8 steps 30-600
Cross feed range - Y	[mm/min]	22-393	8 steps 22-410
Vertical feed range - Z	[mm/min]	10-168	8 steps 15-220
Longitudinal skip feed X	[mm/min]	1290	1800
Cross skip feed - Y	[mm/min]	1205	1200
Vertical skip feed	[mm/min]	513	600
Feed motor power	[kW]	1.1	1.1
Max. table load	[kg]	500	500
T-slots: No./broad x pitch	[no./mm]	3/4x95	3/18x70
Vertical guides	[°]	rectangular	rectangular
Cross guides	[°]	rectangular	rectangular
Longitudinal guides	[°]	dovetail	dovetail
Spindle drive motor power	[kW]	4 vertical / 4 horizontal	4 vertical / 4 horizontal
Coolant circulating pump motor power	[W]	90	90
Net/gross weight	[kg]	2480	2600



Vertical milling cutter



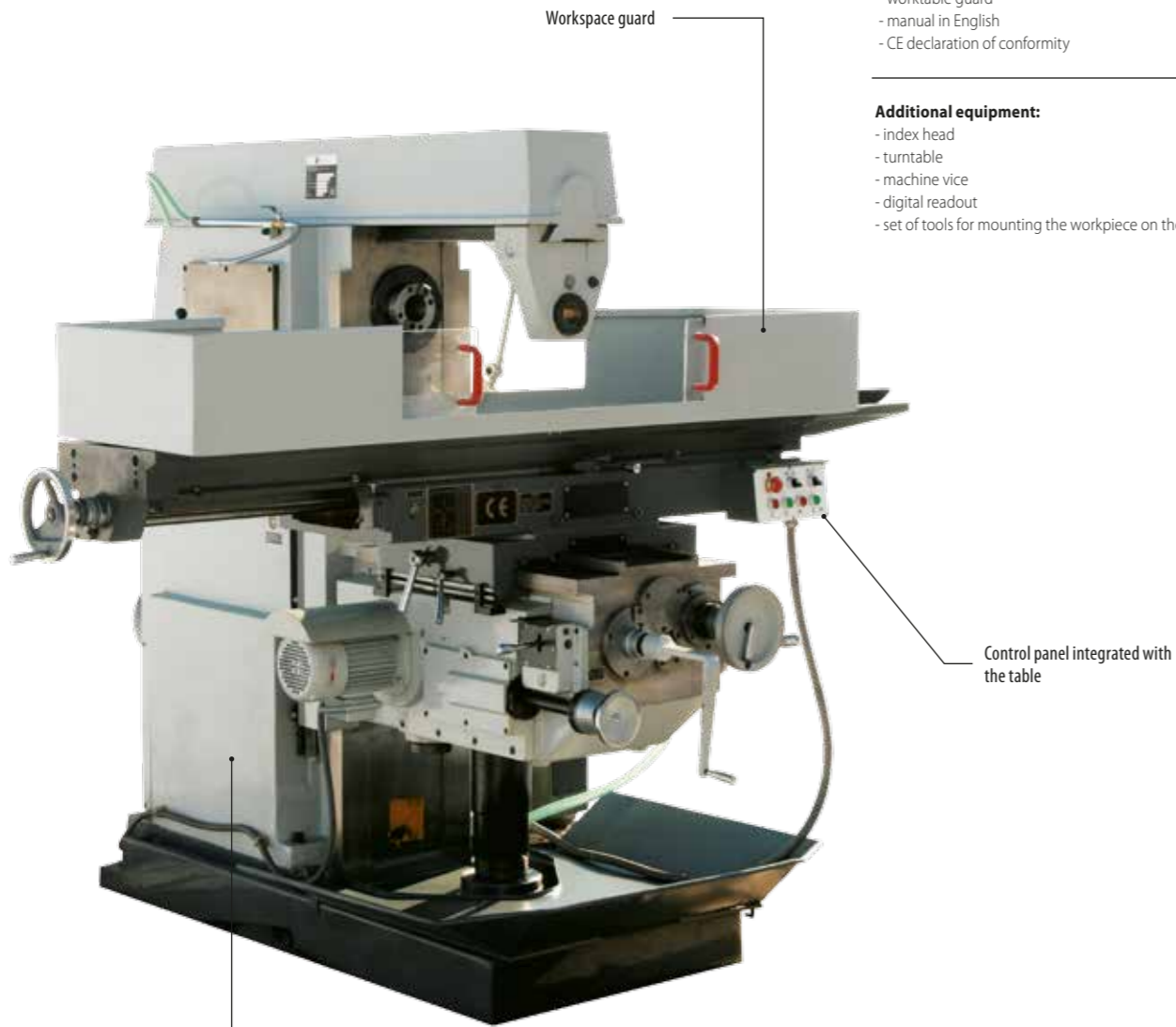
Horizontal spindle



FUA40 is a lathe with a rigid construction, intended for heavy-duty machining. It can be used as a vertical or horizontal milling machine for machining heavy workpieces. The machine comes with a turntable and power feed on X, Y, Z axes.

- Standard equipment:**
- vertical milling head
  - horizontal milling rest
  - worktable guard
  - manual in English
  - CE declaration of conformity

- Additional equipment:**
- index head
  - turntable
  - machine vice
  - digital readout
  - set of tools for mounting the workpiece on the table



Workspace guard

Control panel integrated with the table

Strong base enabling heavy machining

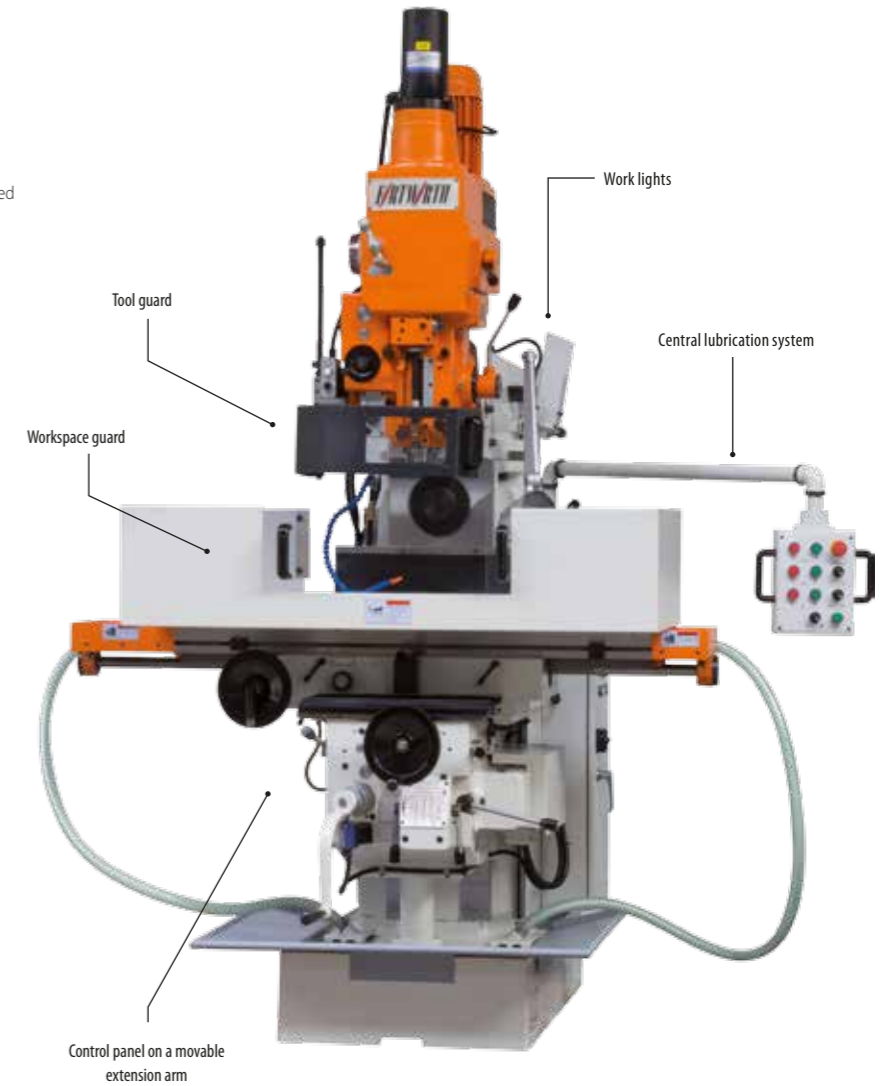
Technical data:		Unit	FUA 40
Table dimension		[mm]	400 x 1800
T-slots	No	[-]	3
	Breadth	[mm]	18
	Pitch	[mm]	80
Longitudinal/cross/vertical table feed	[mm]	1000/400/480	
Spindle taper		[-]	ISO50
Spindle rotation speed:	range	[rpm]	30-1525
	steps	[-]	18
Min. distance between the spindle nose and the table surface		[mm]	30
Table feed: longitudinal/cross/vertical steps		[mm/min]	22-1028/22-1028/9-427
Table skip feed:		[-]	12
longitudinal/cross/vertical		[mm/min]	2350/2350/915
Spindle motor power		[kW]	7,5
Feed motor power		[kW]	1,5
Table rotation angle		[°]	±45
Net weight		[kg]	4300
Dimensions		[mm]	2360 x 2515 x 2067

High quality universal milling machine which can be used as a vertical and horizontal lathe. Separate vertical/horizontal spindle drive. In CS-G 450A series machine vertical spindle rotational speed is regulated by mechanical transmissions, in CS-G 450A - by a variable-speed transmission unit and in CS-G 450C - by an inverter.

- Features**
- Power and skip feed on three axes
  - Automatic central lubrication system
  - Worktable backlash compensation system
  - Threading controlled by using a joystick
  - Vertical head with infinitely variable adjustment of rotational speed of a spindle in B and C models (depends on the chosen model)
  - Efficient and failure-free power transmission system
  - Rectangular guides provide high rigidity and precise positioning
  - Precise rolling bearings
  - Spindle quill feed (drilling)

- Standard equipment:**
- workspace guard
  - work lights
  - rest
  - milling arbor with end mill collets
  - central cooling system
  - automatic lubrication system
  - set of tools for operation and maintenance
  - foundation bolts
  - manual in English
  - CE declaration of conformity

- Additional equipment:**
- index head
  - turntable
  - optoelectronic readout on axes with a straight edge
  - machine vice



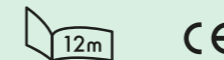
Tool guard

Workspace guard

Work lights

Central lubrication system

Control panel on a movable extension arm

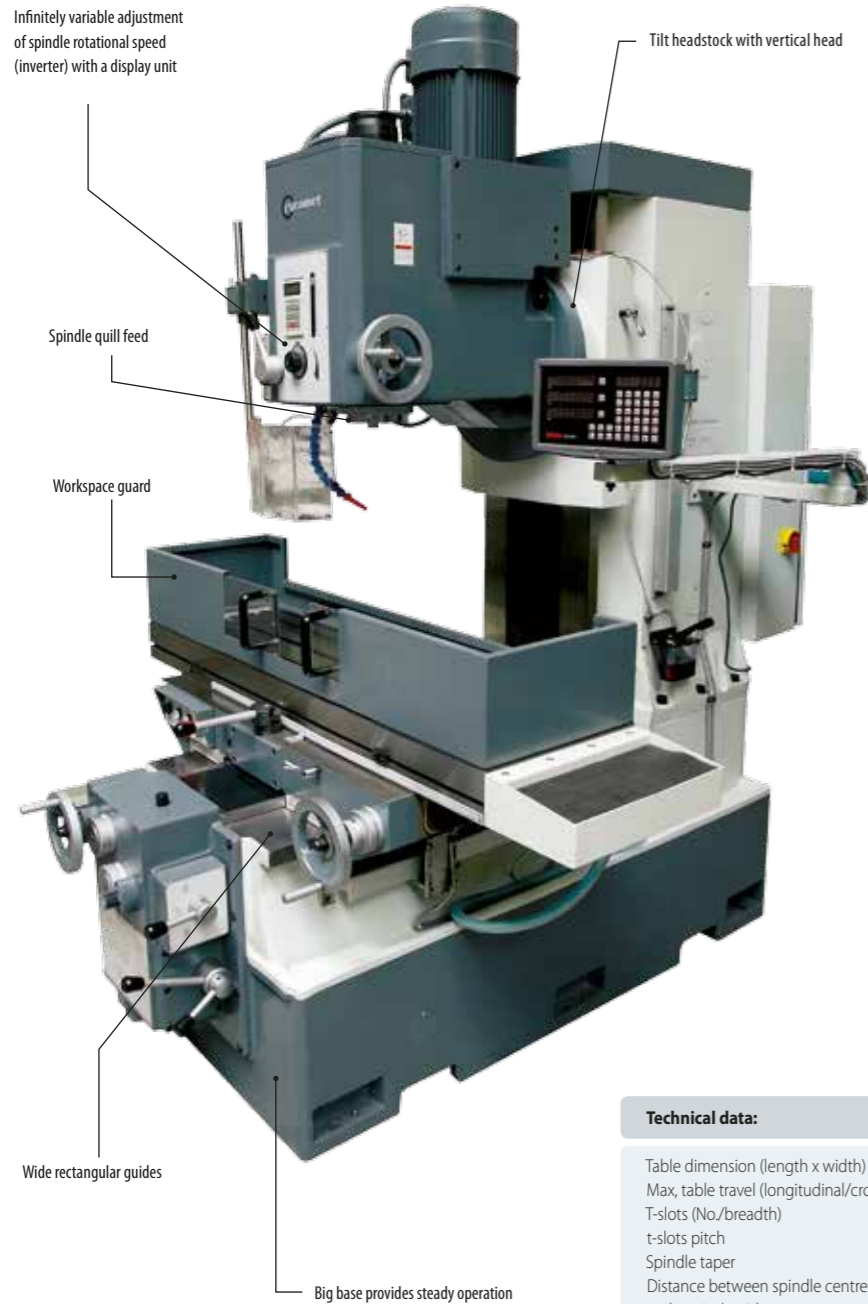


Technical data:	Unit	CS-G450 A/B	CS-G450 C
Table surface LxW	[mm]	1300 (1500) x 300	1300 (1500) x 300
Longitudinal/cross/vertical feed	[mm]	950 (1050) x 320 x 470	950 (1050) x 320 x 470
T-slots (size x No. x pitch)	[mm]	16 x 3 x 70	16 x 3 x 70
Longitudinal/cross feed	[mm/min]	11 - 517	11 - 517
Vertical feed	[mm/min]	6 - 263	6 - 263
Skip longitudinal/cross feed	[mm/min]	2500	2500
Vertical skip feed	[mm/min]	1250	1250
Vertical spindle nose	[-]	ISO R297 Nr 40	ISO R297 Nr 40
Vertical spindle speed range	[rpm]	100 - 3000	40-4000
Distance between spindle nose and the table	[mm]	130 - 600	130 - 600
Distance between spindle centre and the column	[mm]	100 - 610	100 - 610
Quill feed	[mm/rev]	0,048; 0,096; 0,192	0,048; 0,096; 0,192
Tailstock quill feed	[mm]	130	130
Head angle of rotation - left/right	[°]	45°	45°
Beam cross travel	[mm]	510	510
Beam angle of rotation	[°]	360°	360°
Horizontal spindle nose	[-]	ISO R297 Nr 40	ISO R297 Nr 40
Horizontal spindle speed range	(12 steps) [rpm]	36 - 1415	36 - 1415
Distance between spindle centre and the table	[mm]	22 - 492	22 - 492
Vertical spindle motor	[kW]	AC 3.7	AC 3.7
Horizontal spindle motor	[kW]	AC 3.7	AC 3.7
Table feed motor and skip feed motor	[kW]	AC 2.2	AC 2.2
Coolant pump motor	[kW]	AC 0.1	AC 0.1
Height	[mm]	2550	2550
Floor space	[mm]	670 x 1200	670 x 1200
Net weight	[kg]	2650	2650



# EUROMET FP 40 VERTICAL MILLING MACHINE

FP40 vertical milling machine comes with table feed on X and Y axes and headstock feed on the column guide ways. The worktable remains at the same height at all times. The machine is suitable for machining tools, devices, engine parts etc. The main features of FP40 milling machine: rigid, precise construction ensuring high accuracy.



### Main features:

Machine equipped with infinitely variable adjustment of spindle rotational speed, power feed on X, Y axes and spindle quill feed. Wide rectangular guides provide high rigidity and precise positioning

### Standard equipment:

- Infinitely variable adjustment of spindle speed (inverter)
- automatic feed on 3 axes (X, Y, Z)
- ISO 50/Morse 4 reduction sleeve
- Morse taper reduction sleeve 4/3
- Morse taper reduction sleeve 4/2
- ISO 50/MT 40 reduction sleeve
- end mill collets set ISO 50
- foundation bolts
- manual in English
- CE declaration of conformity

### Additional equipment:

- programmable spindle
- index head
- turntable
- set of tools for mounting the workpiece on the table
- digital readouts for 3 axes

Technical data:	Unit	FP 40
Table dimension (length x width)	[mm]	1400 x 400
Max. table travel (longitudinal/cross)	[mm]	800/400
T-slots (No./breadth)	[mm]	3/18
t-slots pitch	[mm]	100
Spindle taper	[-]	ISO50
Distance between spindle centre and vertical guides	[mm]	maks. 650/ min. 150
Distance between spindle centre and vertical guides	[mm]	520
Spindle speed	[rpm]	18-1800
Headstock rotation angle	[°]	±30
Vertical headstock max feed speed	[m/min]	1,67
Quill feed	[mm]	105
Power feed speed range	[mm/min]	18-627 (9 steps)
Main motor power	[kW]	7,5
Power feed motor power	[W]	750
Coolant motor power	[W]	40
Dimensions (LxWxH)	[mm]	2290 x 1770 x 2120
Net weight	[kg]	3660

# EUROMET FP50 VERTICAL MILLING MACHINE

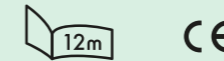
Vertical milling machine equipped with a sliding headstock and spindle quill feed. The machine is intended for milling, drilling, facing, boring and threading in production plants or tool workshops. Suitable for heavy-duty machining. State-of-the-art reliable construction with wide table and headstock rectangular guides provide high rigidity and precision.

### Standard equipment:

- automatic feed on X, Y axes
- automatic spindle travel
- headstock electronic positioning
- swivel vertical head 45°
- work lights
- cooling system
- 16mm drill chuck
- ISO40/B18 reducer sleeve
- ISO40/O32 reducer sleeve
- ISO40/MT4/MT3/MT2 reducer sleeve
- end mill collets set
- set of tools
- manual in English
- CE declaration of conformity

### Additional equipment:

- digital readouts for 3 axes
- index head
- turntable
- machine vice



Technical data:	Unit	FP50
Max. drilling diameter (manual feed)	[mm]	50
Max. milling diameter	[mm]	32
Spindle taper	[-]	7:24 ISO 40
Distance between spindle and column	[mm]	400
Distance between spindle and table	[mm]	80 - 580
Spindle feed	[mm]	180
Spindle rotational speed range	[rpm]	94 - 2256
Spindle power feed	[mm/turn]	0,1, 0,15, 0,3
Steps	[-]	16
Table workspace	[mm]	1220 x 360
Longitudinal/cross table feed	[mm]	600, 360
Automatic table feed	[mm]	24 - 720
T-slots	[-]	3
Width, distance between t-slots	[mm]	14,95
Spindle motor power	[kW]	1,5/2,4
Feed motor power	[kW]	0,37
Coolant pump	[kW]	0,04
Dimensions (DxSxW)	[mm]	1710 x 1720 x 2330
Net weight	[kg]	1800



Spindle feed and drive control



Spindle quill feed indicator

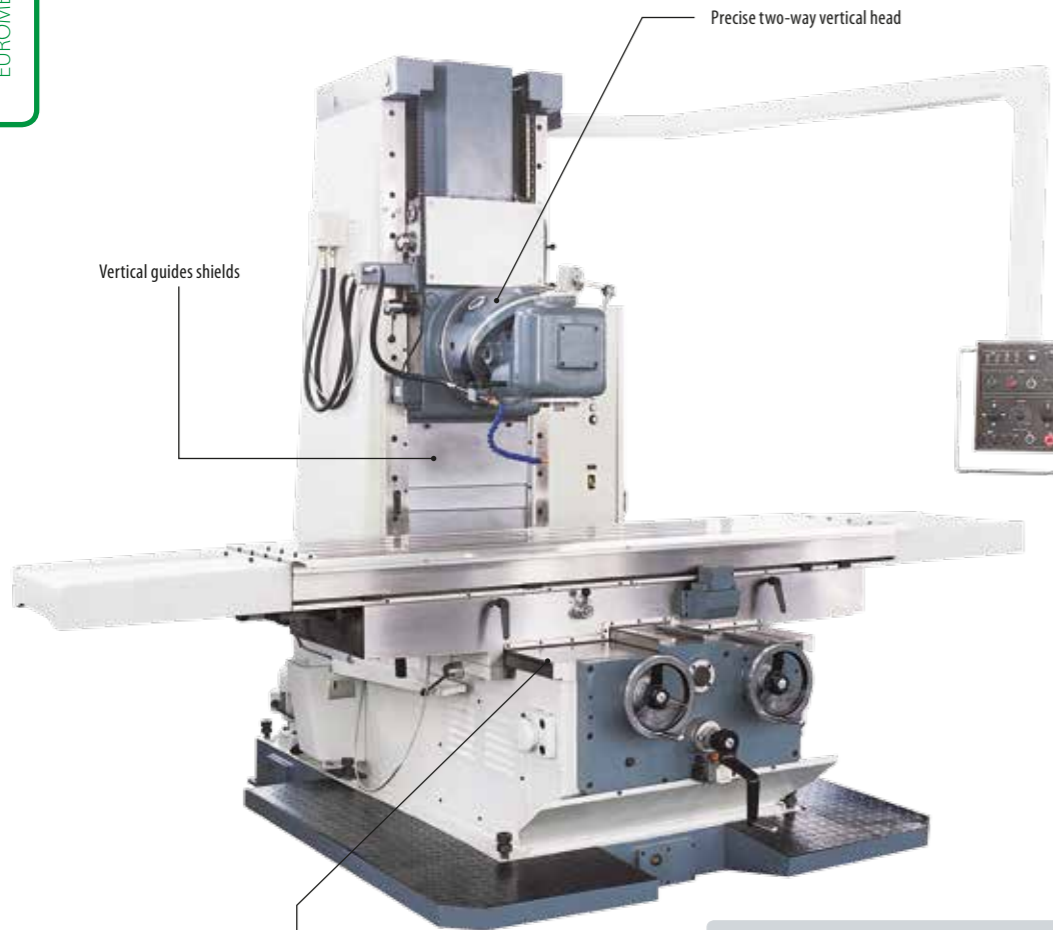


# EUROMET FP215 VERTICAL MILLING MACHINE

Strong and solid vertical milling machine with a big worktable on wide rectangular guides operating on X and Y axes, equipped with a two-way electrically-driven vertical head moving on vertical guides (Z axis). The machine is intended for heavy-duty machining. The main features of this milling machine are its rigid and strong construction, the fact that the workpiece always remains at the same height, a big worktable space, can be utilised as a vertical or horizontal milling machine, long vertical feed of the head. The machine may be equipped with digital readouts (optional)

### Standard equipment:

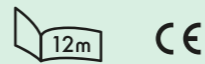
- horizontal milling arbor
- ISO 50 chuck with end mill collets
- cooling system
- work lights
- horizontal spindle rest
- reducer sleeve
- set of tools
- manual in English
- CE declaration of conformity



Vertical guides shields

Precise two-way vertical head

Control panel on a movable extension arm



Technical data:	Unit	FP 215
Table workspace (L x W)	[mm]	2100 x 500
T-slots (breadth x No.)	[mm x piece]	20 x 4
Table longitudinal travel	[mm]	1500
- cross travel	[mm]	670
Feed - automatic	[mm/min]	20-1800
cross and longitudinal - infinitely variable adjustment		
Skip longitudinal/cross feed	[mm/min]	3500
Vertical spindle travel	[mm]	700
Vertical power feed	[mm/min]	10-900
-- infinitely variable adjustment		
Vertical skip feed	[mm/min]	1750
Distance between spindle centre and vertical guides	[mm]	610
Spindle speeds	[-]	12 steps
- range	[rpm]	40-1600
Spindle taper	[-]	7:24 ISO50
Spindle motor	[kW]	7.5
Feed motor	[kW]	2
Coolant circulating pump motor	[W]	550
Coolant circulating pump motor	[W]	120
Floor space	[mm]	4925 x 2380
Net weight	[kg]	7300

### Additional equipment:

- digital readout for 3 axes
- index head
- turntable
- machine vice
- set of tools for mounting the workpiece on the table

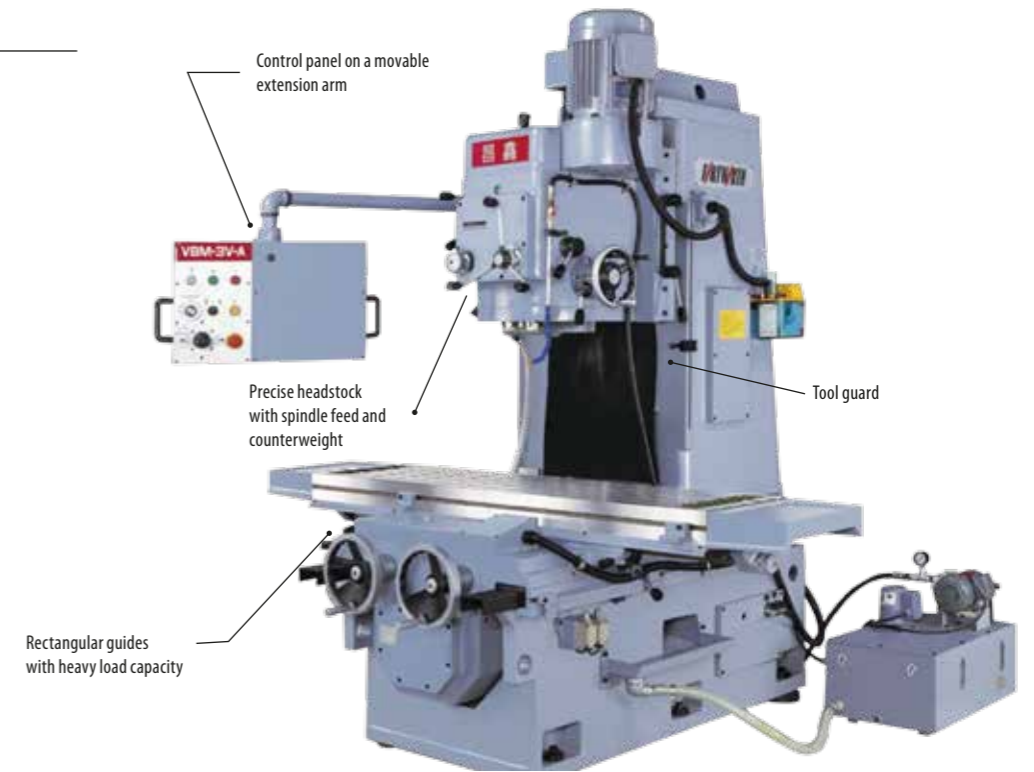
Precise, strong rectangular guides

# FORTWORTH CS-VBM 3V-A, 4V VERTICAL MILLING MACHINES

The machines manufactured by a renowned Taiwanese company come with a rigged cast base, scraped guides and precise parts and sub-assemblies, which provide proper rigidity. Machines intended mainly for heavy duty machining for which a big workspace and long feed are required. They are equipped with spindle quill feed, automatic a central lubrication system, work lights, guideways shields and thoughtfully placed control elements.

### Standard equipment:

- automatic feed on 3 axes
- automatic central lubrication system
- cooling system
- work lights
- set of tools
- anchor bolts and levelling wedges
- manual in English
- CE declaration of conformity



Control panel on a movable extension arm

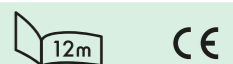
Precise headstock with spindle feed and counterweight

Rectangular guides with heavy load capacity

Tool guard

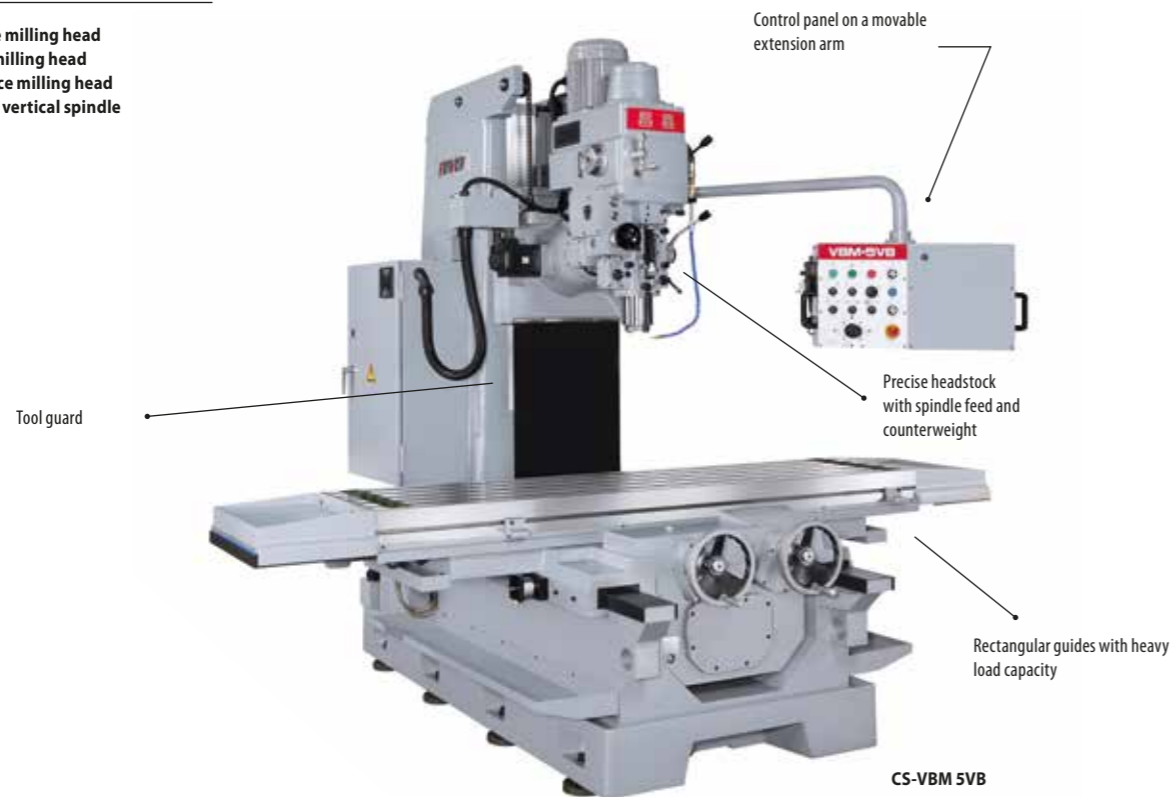
CS-VBM 5VL

Technical data: Unit	CS-VBM 3V-A	CS-VBM 4V	CS-VBM 5VL	CS-VBM 5VB	CS-VBM 5VHL	CS-VBM 8VL	CS-VBM 8VHL	
Worktable longitudinal feed	[mm]	1000	1200	1500	1500	1500	2000	2000
Worktable cross feed	[mm]	380	450	600	600	600	800	800
Vertical spindle travel	[mm]	500	550	700	700	700	700	700
Horizontal headstock feed	[mm]	-	-	-	-	650	-	650
Distance between spindle nose and table surface	[mm]	100-600	100-650	100-800	100-800	100-800	70-770	70-770
Distance between spindle centre and column	[mm]	380	450	550	700	700	700	700
Distance between vertical and horizontal spindle centre	[mm]	-	-	-	-	550	-	610
Table surface	[mm]	1700 x 380	1900 x 450	2200 x 500	2200 x 500	2200 x 500	2700 x 750	2700 x 750
T-slots	[mm]	18 x 5 x 70	18 x 5 x 80	18x5 x 90	18x5 x 90	18x5 x 90	18 x 5 x 150	18 x 5 x 150
Distance between the worktable and floor	[mm]	800	850	870	870	870	900	900
Spindle nose	[-]	ISO R297 nr.50	ISO R297 nr.50	ISO R297 nr.50	ISO R297 nr.50	ISO R297 nr.50	ISO R297 nr.50	ISO R297 nr.50
Vertical spindle rotational speed range	[rpm]	37-1250	37-1250	37-1250	100-3000	37-1250	37-1250	37-1250
Horizontal spindle rotational speed range	[rpm]	-	-	-	-	35-1200	-	35-1200
Vertical spindle rotational speed steps	[-]	12	12	12	inf. var. adj.	12	inf. var. adj.	inf. var. adj.
Horizontal spindle rotational speed steps	[-]	-	-	-	-	12	-	12
Ver. spindle feed (S°)	[rpm]	-	0.05-0, 0.075-0, 1-0,15-0.2	-	0.048-0, 0.075-0.096, 15-0,192	0.05-0, 0.075-0,1,15-0,2	-	-
Ver. spindle feed Z	[mm]	-	-	-	3-300	-	3-300	3-300
Skip feed (long. and cross)	[mm/min]	2800	2880	3300	3300	3300	3100	3100
Skip feed (vertical)	[mm/min]	-	-	-	-	-	-	3800
Spindle feed	[mm]	-	-	-	130	-	-	-
Working feed (long. and cross)	[mm/min]	28-1000	28-875	28-1000	28-1000	28-1000	28-1000	28-1000
Feed steps	[-]	inf. var. adj.	12	inf. var. adj.	inf. var. adj.	inf. var. adj.	inf. var. adj.	inf. var. adj.
Vertical spindle motor	[kW]	5,5	7,5	11	3,7	11	11	11
Horizontal spindle motor	[kW]	-	-	-	-	5,5	-	5,5
Feed drive motor	[kW]	1,3 servo	1,5	1,5	3,5 (X,Y) servo 0,85 (Z) servo	3,5 (X,Y) servo 0,85 (Z) servo	3,5 (X,Y) servo 1,3 (Z) servo	3,5 (X,Y) servo 0,85 (Z) servo
Lubricating oil pump motor	[W]	3,5	3,5	3,5	3,5	3,5	3,5	3,5
Coolant pump motor	[W]	0,1	0,15	0,15	0,15	0,15	0,15	0,15
Height	[mm]	2410	2600	2870	2726	2870	2923	3198
Width	[mm]	3200	3800	4440	4440	4440	5694	5694
Length	[mm]	1960	2210	2500	2500	2500	3075	3075
Net weight	[kg]	4000	5200	7000	6600	8700	11800	13000

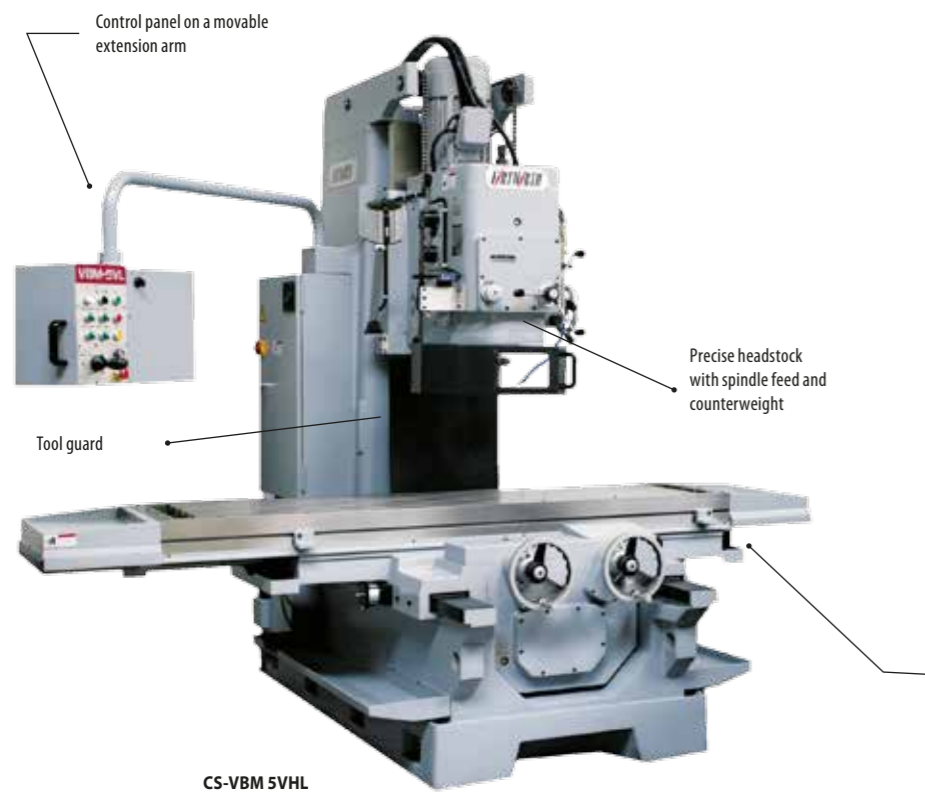


The machines manufactured by a renowned Taiwanese company come with a rigged cast base, scraped guides and precise parts and sub-assemblies, which provide proper rigidity. Machines intended mainly for heavy duty machining for which big workspace and long feed are required. They are equipped with spindle quill feed, automatic central lubrication system, work lights, guide ways shields and thoughtfully placed control elements.

- VL - fixed vertical face milling head
- VB - tilt vertical face milling head
- VHL - fixed vertical face milling head
- + additional separate vertical spindle

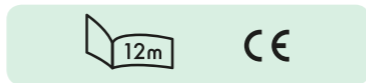


CS-VBM 5VB



CS-VBM 5VHL

- Additional equipment:**
- infinitely variable adjustment of spindle rotational speed
  - digital readouts for 3 axes
  - automatic tool clamping
  - leading screws
  - pneumatic spindle clamp
  - index head
  - turntable
  - machine vice
  - set of mounts for mounting the workpiece to the table



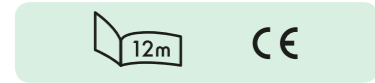
CNC milling machine is intended for small-lot production in small plants and repair shops. Rigid and strong base provides vibration reduction and high dimension and form accuracy of work pieces. The machine with a simple construction is easy to operate.



- Main features:**
- Rigid and strong construction
  - Precise guides on all three axes
  - Precise spindle
  - Multifunctional popular CNC Fanuc system

- Standard equipment:**
- partial workspace shields
  - Fanuc Oi-mateMD control system
  - air blast through spindle
  - oil separator
  - Automatic lubrication system
  - Electrical cabinet cooling
  - warning lights
  - RS-232 interface
  - cooling system
  - rigid tapping
  - foundation bolts
  - manual in English
  - CE declaration of conformity

- Additional equipment:**
- full workspace guard
  - Siemens 802C, Fanuc Oi-MD control systems
  - spindle rotational speed 10,000 [rpm]
  - work piece probe
  - tool probe
  - turntable (4th axis)



Technical data:	Unit	FA40X	FA30X
X axis travel	[mm]	600	450
Y axis travel	[mm]	420	350
Z axis travel	[mm]	520	380
Distance between spindle nose and the table surface	[mm]	150-670	140-520
Distance between spindle centre and column guide ways	[mm]	511	430
Worktable dimension	[mm]	800x420	700 x 320
T-slots size x (No., breadth, pitch)	[mm]	3 x 18 x 125	3 x 14 x 110
Max. table load	[kg]	300	150
Spindle nose	[-]	ISO40 (7:24)	
Spindle rotational speed	[rpm]	60-8000	
Guide ways	[-]	linear	
Spindle motor power	[kW]	7.5/11	5.5/7.5
CNC system	[-]	FANUC Oi-mateMD	
Compressed air nominal pressure	[MPa]	0.6	
Weight	[kg]	4000	2000
Dimensions (L x W x H)	[mm]	2310 x 2040 x 2337	2500 x 2000 x 2200

# EUROMET FA35 CNC MILLING MACHINE

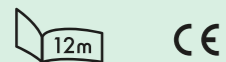
FA35CNC milling machines provide high rigidity and precision. They are intended for machining flat surfaces, holes and grooves. CNC system makes the machine suitable for lot and mass production and machining complex pieces. Simple, reliable construction, renowned SINUMERIC or FANUC control system, high-power spindle, guides shields and central lubrication system, integrated workspace lights, fast pneumatic tool fixing system are only few amongst many advantages of FA35CNC milling machine. Due to their small size and low power demand the FA35 CNC milling machines are suitable for small workshops as being an economical, fast machine intended for small pieces machining. Simple, proved construction guarantees long, failure-free operation. Reliable CNC system, operator-friendly interface and intuitive operation make the machine perfect for beginners. Advanced controller and constant data transmission through RS 232 port enable machining complex pieces. High spindle rotational speed and good dynamics facilitate machining small details. The standard version of the machine comes with high-quality stepper motor, servomotors can be chosen as an additional piece of equipment.

### Standard equipment:

- cooling system
- work lights
- central lubrication system
- workspace guard
- guide ways shields
- MAS403-BT40 tool holder with a set of clamps
- SINUMERIC 802S, 802C or Fanuc 0i-mateMD CNC system
- manual in English
- CE declaration of conformity

### Additional equipment:

- Hiwin linear guide ways on X and Y axes (skip feed 24m/min.)
- rotary disc tool magazine 10/15 pieces
- spindle rotational speed 8,000/10,000 rpm
- spindle power 7.5/11kW
- full workspace guard
- turntable (4th axis)



Technical data:	Unit	FA35CNC
Worktable dimension	[mm]	920 x 280
Max. table load	[kg]	250
T-slots (no. x breadth x pitch)	[mm]	3 x 14 x 85
X/Y/Z axes travel	[mm]	450/300/400
Distance between spindle centre and the table	[mm]	110-510
Spindle taper	[°]	ISO40
Spindle rotational speed range	[rpm]	6000
Work feed	[mm/min]	1-5000
Skip feed	[m/min]	10
Main motor power	[kW]	5,5/7
Spindle torque	[Nm]	35
Positioning accuracy	[mm]	±0,010
Repositioning accuracy	[mm]	±0,004
Power	[kVA]	11
Dimensions	[mm]	1920 x 1690 x 2100
Weight	[kg]	1900



Siemens 802S, 828D or Fanuc 0iMateMD CNC systems

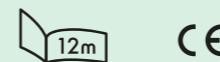


Pneumatic tool assembly

# GEAR HOBBING MACHINES EUROMET

FOZ 500, FOZ 800, FOZ 200 CNC, FOZ 500 CNC, FOZ 800 CNC

Gear hobbing machines equipped with a central lubrication system and a cooling system. For the safety reasons the machine comes with workspace and movable elements guards. The machine is intended for batch production, small-lot production and piece production of gears, worm wheels, spline shafts and other forms placed on external cylindrical surfaces. FOZ machines thanks to their cavity column and bed walls are rigid with small heat distortions, which provide efficient and precise machining. Due to the fact that operation and control of the machines is easy, one operator can operate several machines at the same time. Clockwise or anticlockwise axis travel for wheel machining.



Technical data:	Unit	FOZ-500	FOZ 800
Max. workpiece diameter	[mm]	500	800
Max. module	[mm]	8	10
Max. machining width	[mm]	250	320
Min. No. of teeth		5	8
Max. spiral casing angle	[°]	+/- 45	+/- 45
Max. rest vertical feed	[mm]	300	350
Distance between spindle centre and table surface	[mm]	235-535	235-585
Distance between spindle centre and table centre	[mm]	30-330	50-550
Distance between rest centre and table surface	[mm]	400-630	400-630
Worktable diameter	[mm]	510	650
Table hole	[mm]	80	80
Spindle taper		Morse No 5	Morse No 5
Max. tool dimensions diameter x length	[mm]	160x160	180x180
Tool arbor diameter	[mm]	22/27/32	27/32/40
Spindle rotational speed	[rpm]	40-250	4-200
Axis feed range	[mm/rot]	0,4-4	0,4-4
Total power*	[kW]	6,55	8,65
Main motor power*	[kW]	4	5,5
PLC OMRON OMRON		OMRON	OMRON
Dimensions (WxLxH)	[mm]	2,4x1, 3x1,8	2,8x1, 8x1,9
Net weight	[kg]	4500/5000	6000/7000

\* the machine with increased capacity has correspondingly higher motor power and total power

### Standard equipment: FOZ 500, FOZ 800

- Tool mandrels
- Change gears
- Safety guards
- PLC controller
- Hydraulic system and lubrication system
- Tools for machine installation

### Additional equipment FOZ-200E:

- machine marked with B - semi-automatic
- machine marked with X - large-lot production machine with increased capacity

Technical data:	Unit	FOZ 200 CNC	FOZ 500 CNC	FOZ 800 CNC
Max. workpiece diameter	[mm]	200	500	800
Max. module	[mm]	5	8	10
Max. spiral casing angle	[°]	+/- 45	+/- 45	+/- 45
Table speed	[rpm]	20 (40)	7,8 (15,6)	5,2 (10,4)
Spindle speed range (inf. var. reg.)	[rpm]	80-400	40-250	40-200
Z axis skip speed	[mm/min]	900	900	900
X axis skip speed	[mm/min]	900	5900	5000
Y axis skip speed	[mm/min]	900	50-550	
Distance between spindle centre and table centre	[mm]	30-175	30-330	50-550
Distance between spindle centre and table surface	[mm]	260-490	235-535	235-585
Distance between rest centre and table surface	[mm]	350-600	336-566	336-566
Max. tool dimensions diameter x length	[mm]	140 x 180	160 x 160	160 x 160/180 x 180
Main motor power*	[kW]	7,5	4	5,5
Total power* [kW]	[kW]	14,8	10,1/11,1	11,6/12,6
Dimensions (WxLxH)	[mm]	2,4x2, 2x1,8	2,6x1, 5x1,8	3x2, 2x
Net/gross weight	[kg]	5800/6400	5000/6000	6500/7500

\* Other versions, e.g. with increased module available on request

### Standard equipment:

- FOZ 200 CNC, FOZ 500 CNC, FOZ 800 CNC
- Mitsubishi CNC system
- CNC system on X + Z or X + Y + Z axes
- Tool mandrels
- Change gears
- Safety guards
- PLC controller
- Hydraulic system and lubrication system
- Automatic chip conveyor
- Control cabinet air conditioning
- Tools for machine installation

### Optional:

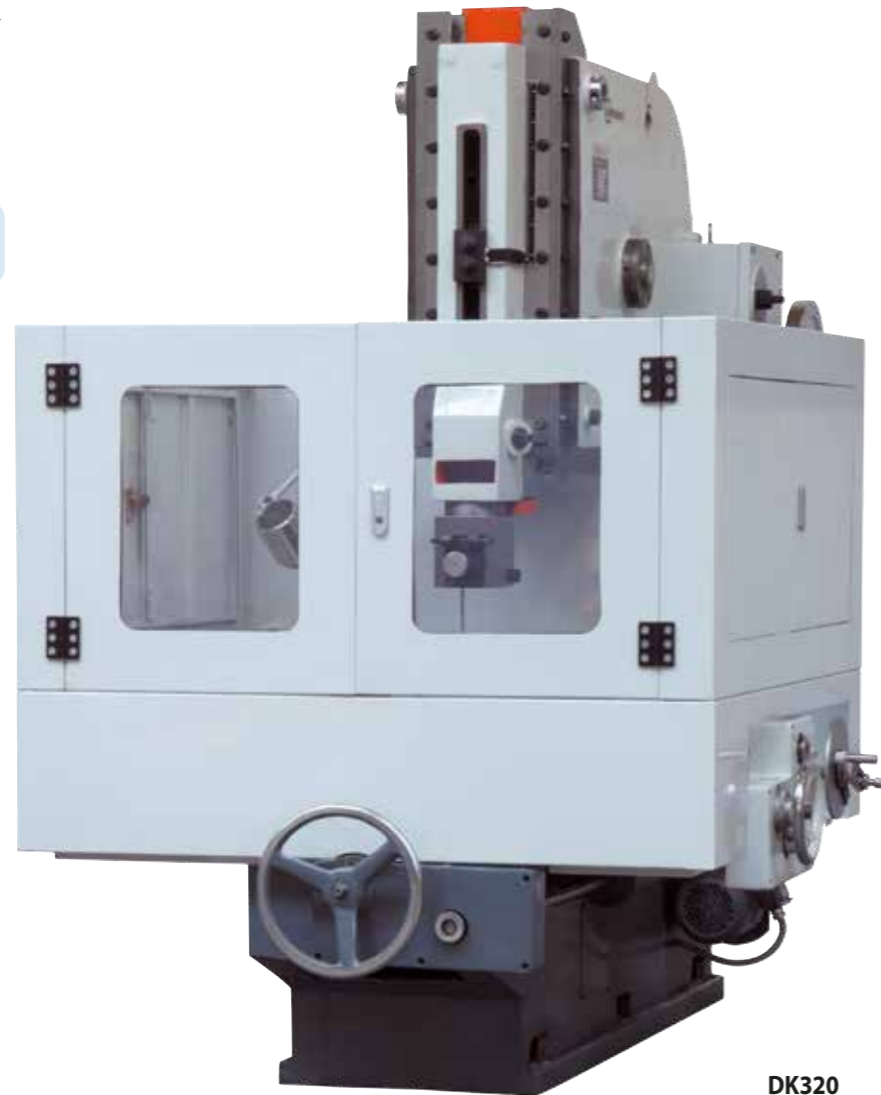
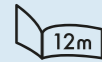
- hydraulic automatic clamp
- oil cooler
- Siemens, Fanuc control



The machines are intended for machining and forming various surfaces, especially for making spline ways. The machines are widely used for piece and small-lot production. The slotting machine can be started and stopped by using the multi-plate clutch. Vertical and horizontal feed drives, and table turn drive are equipped with safety devices. The machine comes with skip feed on all axes.

**Standard equipment:**

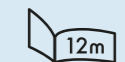
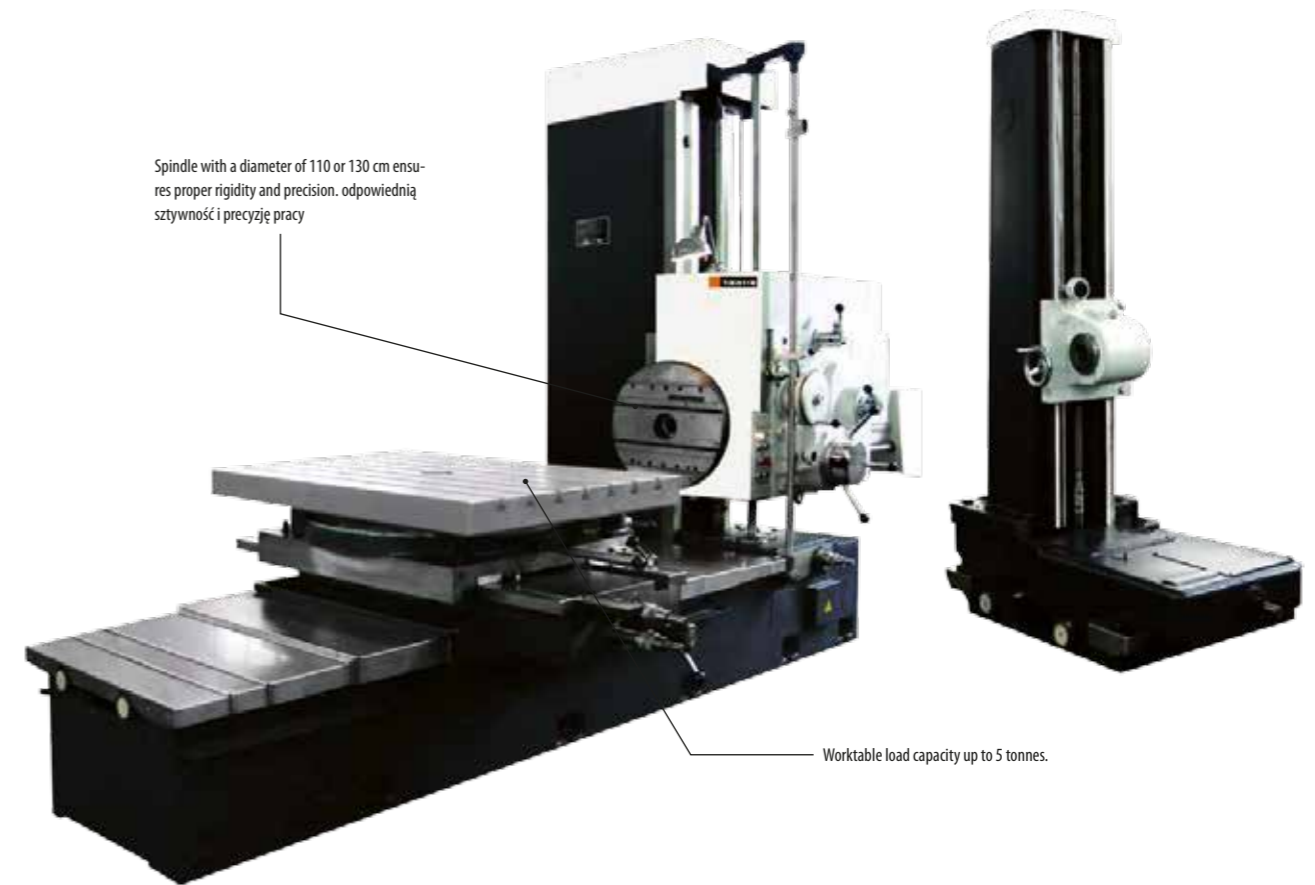
- tool set
- workspace guard
- work lights
- manual in English
- CE declaration of conformity



**DK320**

Technical data:	Unit	DK200E	DK320E	DK400E	DK500E	DK630E
Drive:			power drive		hydraulic drive	
Max. slotting length	[mm]	200	320	400	500	630
Slide block tilt	[o]	0-8	0-8	0-8	0-10	0-10
Worktable diameter	[mm]	460	630	730	900	1000
Vertical slide block adjustment	[mm]	200	315	315	430	550
Distance between tool post and the column	[mm]	480	600	600	1032	1189
Distance between table surface and slotter guide ways end	[mm]	320	455	615	740	880
Max. worktable longitudinal feed	[mm]	420	560	560	1000	1000
Max. worktable cross feed	[mm]	420	535	535	660	660
Max. worktable angle of rotation	[o]	360	360	360	360	360
Longitudinal and cross feed range	[mm]	0,054-1,24	0,054-1,24	0,054-1,24	0-3	0-3
Feed rate per revolution	[o]	0,035-0,80	0,035-0,80	0,035-0,80	50-1 15'	50-1 15'
Max. slotting force	[kN]	5	8	8	19,6	19,6
Max. worktable load	[kg]	400	500	500	2000	2000
T-slot width in the worktable centre	[mm]	18	18	18	22	22
Main motor power	[kW]	3	3	3	11	11
Main motor rotational speed	[rpm]	1420	960	960	960	960
Skip feed motor power	[kW]	0,75	0,75	0,75	1,5	1,5
Skip feed motor rotational speed	[rpm]	1390	1390	1390	940	940
Net weight	[kg]	2200	2500	2900	11000	12000

The machines designed for boring and machining flat surfaces. These boring machines are intended for piece and lot production. The machines are equipped with tool post of facing head which enables machining bigger apertures and surfaces. The machines enable drilling, boring, reaming, milling and threading (threading attachment available at request)



Technical data:	Unit	WFA 110	WFA 110/2	WFA 110/3	WFA 110/4	WFA 130	WFA 130/2	WFA 130/3	WFA 130/4
Spindle diameter	[mm]	110	110	110	110	130	130	130	130
Table surface	[mm]	1320 x 1010	1320x1010	1100 x 1010	1320 x 1010	1320 x 1010	1320 x 1010	1100 x 1010	1320 x 1010
Max. table load capacity	[kg]	5000	5000	5000	5000	5000	5000	5000	5000
Distance between spindle centre and table surface	[mm]	5-905	5-905	5-905	5-905	5-905	5-905	5-905	5-905
Longitudinal and cross table feed	[mm]	1100 x 850	1100 x 1200	1100 x 1200	1100 x 1800	1100 x 850	1100 x 1200	1100 x 12000	1100 x 1800
Vertical headstock feed	[mm]	900	900	900	1200	900	900	900	1200
Spindle quill feed	[mm]	550	550	550	550	550	550	550	550
Max.boring diameter	[mm]	240	240	240	240	240	240	240	240
Max.drilling diameter	[mm]	50	50	50	50	50	50	50	50
Spindle taper	[-]	Morse No.6	Morse No.6	Morse No.6	Morse No.6	Morse No.8	Morse No.8	Morse No.8	Morse No.8
Tool post of facing head radial feed	[mm]	160	160	160	160	160	160	160	160
Max. axial force on spindle	[N]	13000	13000	13000	13000	13000	13000	13000	13000
Spindle rotational speed steps	[-]	18	18	18	18	18	18	18	18
Facing head rotational speed steps	[-]	16	16	16	16	16	16	16	16
Spindle speed range	[rpm]	12-950	12-950	12-950	12-950	12-950	12-950	12-950	12-950
Zakres prędkości tarczy wytaczarskiej	[rpm]	4-160	4-160	4-160	4-160	4-160	4-160	4-160	4-160
Main motor power	[kW]	6,5/8	6,5/8	6,5/8	6,5/8	9/11	9/11	9/11	9/11
Dimensions (L x W x H)	[mm]	4970 x 2100 x3010	4970 x 2330 x3010	4970 x 2100 x3010	4970 x 2717 x3120	4970 x 2100 x3010	4970 x 2330 x3010	4970 x 2330 x3010	4970 x 2717 x3120
Weight	[kg]	10700	12500	10700	14500	10700	12500	10700	14500

# HB-110-20T, HB-800A CNC BORING MACHINES

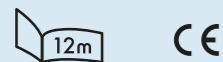
The best-quality Taiwanese machines combine high rigidity, precision and affordable price. CNC boring machines are popular machines for piece and lot production.

### Standard equipment:

- oil cooled spindle
- automatic central lubrication system
- programmable cooling system
- programmable air blast
- electrical cabinet air conditioning
- screw chip conveyor
- M30 auto-off
- MPG handwheel
- signalling lamp
- RS-232 port
- tool box
- anchor bolts and pads
- measuring ruler (HB-110x20T)
- manual in English
- CE declaration of conformity

### Additional equipment:

- workspace guards
- cooling through the spindle
- spindle sleeve support
- external chip conveyor



Technical data:	Unit	HB-110-20T	HB-800A
Worktable dimension	[mm]	1200 x 1500	800 x 800
T-slots	[mm]	22H	82H7
Worktable load capacity	[kg]	5000	3000
B axis skip feed	[rpm]	2	-
X axis travel	[mm]	2000 or 3000 (optional)	2000
Y axis travel	[mm]	1500	1200
Z axis travel	[mm]	1400	1200
Distance between spindle nose and the worktable surface	[mm]	0-1500	0-1200
Spindle nose	-	BT50	BT50
Spindle diameter	[mm]	110	-
Spindle rotational speed	[rpm]	5-625 (low gear) 626-2500 (high gear)	30-3000
Skip feed	[m/min]	for X,Y,Z,W axes: 10/10/10/6	for Z,Y,Z axes: 15/12/15
Work feed	[mm/min]	for X,Y,Z,W axes: 1-6000	for Z,Y,Z axes: 1-6000
Magazine capacity	[szt.]	60	60
Max. tool length	[mm]	400	400
Max. tool weight	[kg]	25	25
Max. tool diameter	[mm]	ø125/ø250	ø125/ø250
Tool change time	[s]	13	13
Spindle motor power	[kW]	22/26	15/18,5
X/Y/Z/B axes servomotor power	[kW]	6/6/6/7/7	7/7/7/4
Central lubrication pump power	[W]	150	25
Hydraulic pump power	[kW]	3,7	2,2
Spindle coolant pump power	[kW]	0,4	0,2
Coolant circulating pump motor power	[kW]	1,32	1
Oil tank capacity	[l]	250	400
Dimensions	[mm]	4570 x 5380 x 3720	4900 x 5100 x 3250
Weight	[kg]	23 000	18 000
Control	[-]	Fanuc Oi-MD	Fanuc Oi-MD

# EUROMET WS16 DRILLING MACHINE

The main feature of WS16 drilling machines is its simple and reliable construction, and the small amount of components decreases the possibility of failure. Due to the fact that the machine is almost maintenance-free, it is a good choice as a generally accessible machine supporting the production. The universal drilling machine is intended for production plants or workshops. The driller is easy to operate.

### Enables the following works:

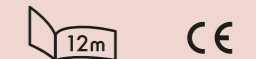
- drilling
- boring
- spotting
- rough boring

### Main features:

- simple design
- strong construction

### Standard equipment:

- 16 mm drill chuck
- manual in English
- CE declaration of conformity



Technical data:	Unit	WS16
Max. drill diameter - steel	[mm]	16
Column diameter	[mm]	85
Spindle quill feed	[mm]	125
Max. distance between spindle and column	[mm]	240
Max. distance between spindle and worktable	[mm]	367
Max. distance between spindle and base	[mm]	630
Spindle taper	[MT]	No.2
Speed steps	[-]	5
Spindle rotational speed	[rpm]	365-3150
Table dimension	[mm]	280 x 300
Base dimension	[mm]	315 x 335
Motor power	[kW]	0.75
Dimensions (L x W x H)	[mm]	900 x 560 x 1080
Net weight	[kg]	145



## EUROMET WS25 BENCH DRILLING MACHINE

The universal drilling machine is intended for production plants or workshops. The driller is easy to operate. The main feature of WS25 bench drilling machine is reliable, rigid construction enabling high quality machining. The drilling machine is equipped with a gearbox enabling changing spindle rotational speed, which significantly improves comfort of work. Almost maintenance-free rotational speed transmission (solid oil lubrication) which enables fast and convenient speed regulation. Drilling depth stop enables repetitive hole machining in small-lot production.

### Enables the following works:

- drilling
- boring
- spotting
- rough boeing
- threading

### Main features:

- lightning
- speed changed by gear wheels
- many spindle rotational speeds
- headstock adjustable on the pillar
- mechanical drilling depth-stop
- base with T-slots
- solid oil lubrication

### Standard equipment:

- work lights
- spindle guard
- threading
- drilling depth-stop
- base with T-slots
- manual in English
- CE declaration of conformity

### Standard equipment:

- base - cupboard
- cross table
- turntable
- machine vice



Technical data:	Unit	WS25
Max. drill diameter - steel	[mm]	25
Max.threading diameter	[mm]	M18
Spindle quill feed	[mm]	110
Max. distance between spindle and column	[mm]	240
Max. distance between spindle and base	[mm]	650
Spindle taper (Morse)	[MT]	No. 3
Speed steps	[-]	6
Spindle speed	[rpm]	125-2825
Table dimension	[mm]	335 x 340
Motor power	[kW]	0.75
Dimensions (L x W x H)	[mm]	700 x 460 x 1425
Weight	[kg]	270

## EUROMET W25 PILAR DRILLING MACHINE

The universal pillar drilling machine is intended for production plants or workshops. The driller is easy to operate.

### MAIN FEATURES OF W25 DRILLING MACHINE

The main feature of W25 is strong, reliable construction, and safe, ergonomic and efficient operation. The drilling machine is equipped with infinitely variable adjustment of spindle rotation through the belt transmission: 80 – 870 rpm and 160-1,600 rpm The rotational speed is displayed on the digital readout. Feed range is displayed on the readout, which makes controlling of drilling depth easier. Manual worktable travel, depending on the workpiece size. The machines provide failure-free operation for a long time.

### Enables the following works:

- drilling
- boring
- spotting
- rough boring

### Main features:

- infinitely variable adjustment of speed
- digital readout of spindle speed
- table and base with T-slots

### Standard equipment:

- infinitely variable adjustment of speed
- digital readout of drilling speed
- threading
- table and base with T-slots
- manual in English
- CE declaration of conformity

### Additional equipment:

- cross table
- machine vice 125 mm



Technical data:	Unit	W25
Max. drilling diameter - steel	[mm]	25
Max.threading diameter	[mm]	M12
Spindle quill feed	[mm]	110
Max. distance between spindle and column	[mm]	230
Max. distance between spindle and table	[mm]	690
Max. distance between spindle and base	[mm]	1180
Max. vertical table feed	[mm]	555
Spindle taper	[MT]	No. 3
Spindle rotation	[-]	infinitely variable adjustment
Spindle speed range	[rpm]	80-1600
Table dimension	[mm]	400 x 320
Table workspace dimension	[mm]	340 x 320
Motor power	[kW]	0.7/1.3
Column diameter	[mm]	Ø100
Dimensions (L x W x H)	[mm]	820 x 530 x 1715
Net weight	[kg]	245

# EUROMET W30/W30E PILLAR DRILLING MACHINES

The universal pillar drilling machine is intended for production plants or workshops. The driller is easy to operate. Intended for drilling, boring, spotting, rough boring and threading. The machine enables precise drilling at an angle and machining of big work pieces made from different materials. Strong, tough spindle also enables milling. Spindle rotational speed regulated through change gears, 12 steps. Table support lift/drop, rotation around the column ( $\pm 180^\circ$ ). Worktable 360° rotation on the vertical axis and  $\pm 45^\circ$  tilt - parallel to the support. Such function make the machine even more functional while it remains easy to operate.

# EUROMET W30 ECONOMIC PILLAR DRILLING MACHINE

Table support lift/drop, rotation around the column ( $\pm 180^\circ$ ). Worktable 360° rotation on the vertical axis and  $\pm 45^\circ$  tilt - parallel to the support. Such functions make the machine even more functional while it remains easy to operate. The pillar drilling machine is intended for production plants or workshops. The driller is easy to operate. Intended for drilling, boring, spotting, rough boring and threading. The machine enables precise drilling at an angle and machining of big work pieces made from different materials. Strong, tough spindle also enables milling.

EUROMET W30/W30E PILLAR DRILLING MACHINES

EUROMET W30 ECONOMIC PILLAR DRILLING MACHINE

### Standard equipment:

- tilt table  $\pm 45^\circ$
- manual table lift/drop
- electromagnetic clutch
- coolant pump
- work lights
- speed changed by change gears, 12 steps
- workspace guard
- automatic spindle travel
- forced oil circulation lubrication
- digital readout of spindle speed
- threading
- 16mm drill chuck
- base with T-slots
- manual in English

12m

CE

Electric two-speed motor (W30) or motor with infinitely variable rotational speed adjustment powered by an inverter (W30E)

Digital readout of spindle rotational speed

Integrated cooling system and chuck guard

Tilt table  $\pm 45^\circ$ , rotation around the column

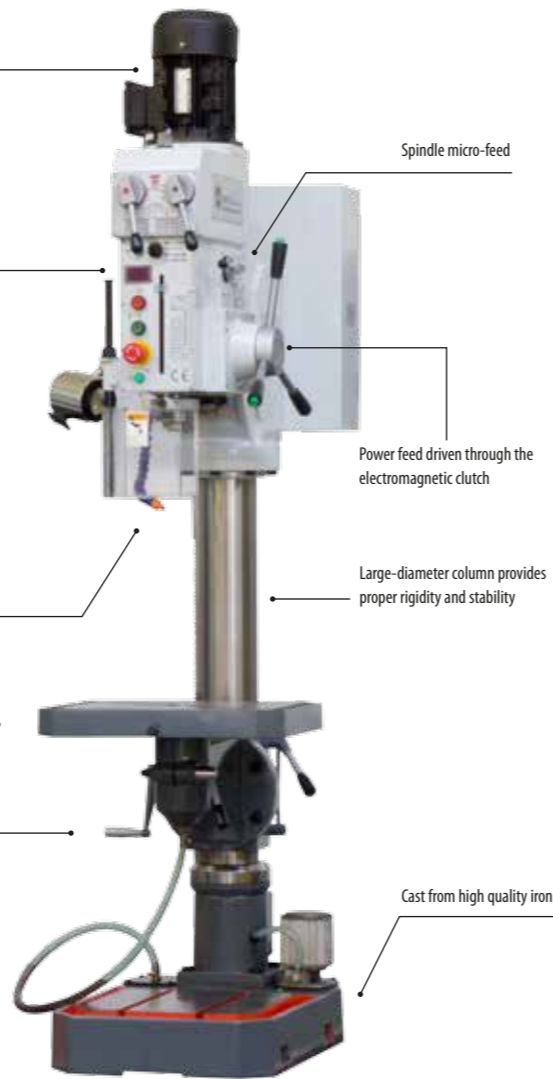
Manual table lift

Spindle micro-feed

Power feed driven through the electromagnetic clutch

Large-diameter column provides proper rigidity and stability

Cast from high quality iron



W30

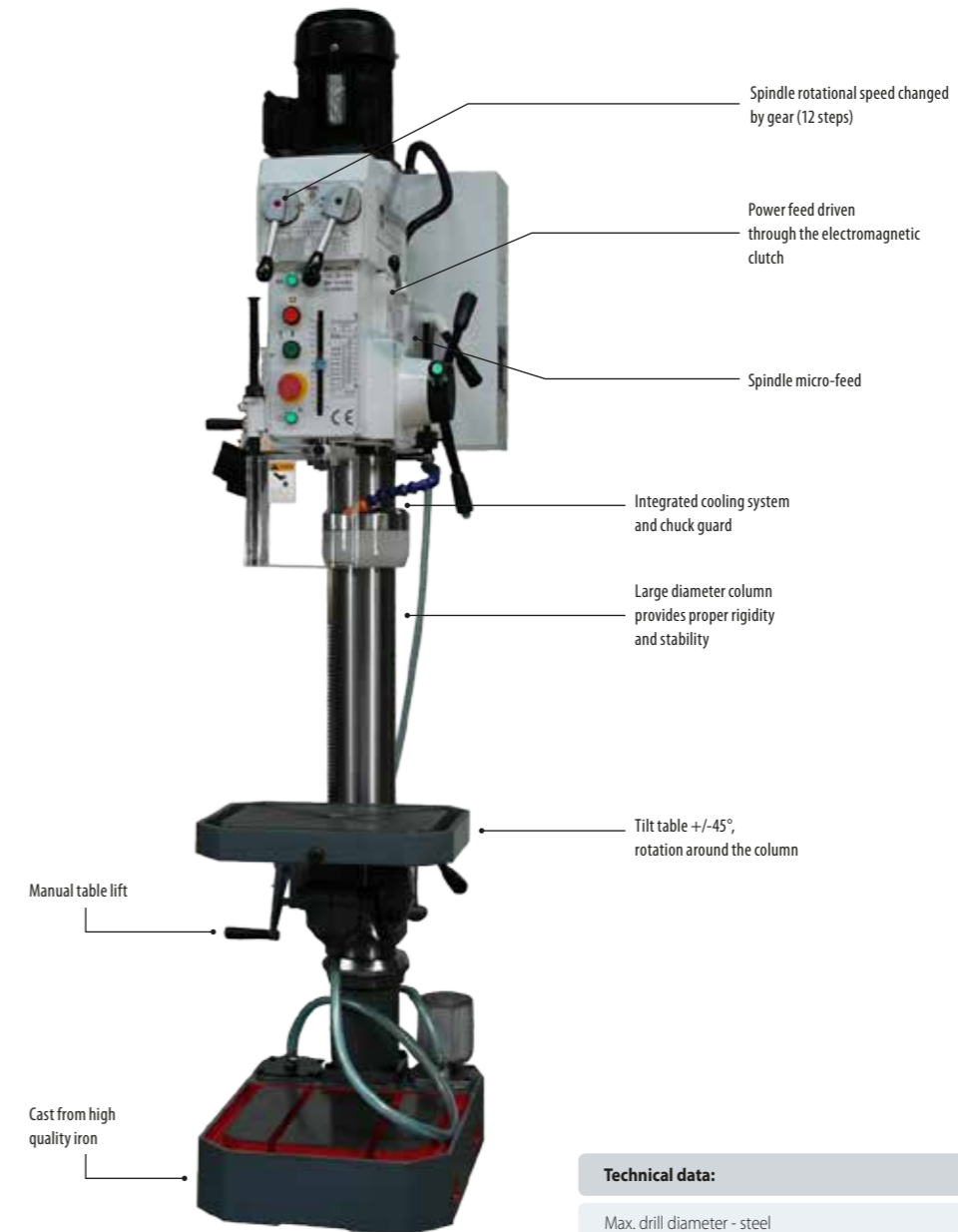


Tilt table



Digital readout of spindle rotational speed (type E)

Technical data:	Unit	W30	W30E
Max. drilling diameter	[mm]	30	
Threading	[-]	M20	
Distance between spindle centre and column	[mm]	320	
Max. distance between spindle nose and worktable	[mm]	625	
Max. distance between spindle nose and base	[mm]	1180	
Max. spindle pitch	[mm]	155	
Max. worktable feed	[mm]	550	
Worktable tilt	[°]	$\pm 45^\circ$	
Spindle taper (Morse)	[-]	No. 3	
Spindle speed steps	[-]	12	stepless
Spindle speed range	[rpm]	125-3030	
Spindle feed	[-]	3	
Spindle feed pitch	[rpm]	0,1; 0,2; 0,3	
Column diameter	[mm]	120	
Table dimension	[mm]	500x420	
Base workspace size	[mm]	370x360	
Base and table T-slots	[mm]	2-T14	
Motor power	[kW]	1,1/2	1,2
Cooling system electric pump	[kW]	0,18 kW	0,085 kW
Flow	[l/min]	20 l/min	1 l/min
Dimensions (LxWxH)	[mm]	750 x 495 x 2080	
Weight	[kg]	545 kg	430 kg



W30 ECONOMIC



Tilt table



Digital readout of spindle rotational speed (type E)

Spindle rotational speed changed by gear (12 steps)

Power feed driven through the electromagnetic clutch

Spindle micro-feed

Integrated cooling system and chuck guard

Large diameter column provides proper rigidity and stability

Tilt table  $\pm 45^\circ$ , rotation around the column

Manual table lift

Cast from high quality iron

### Standard equipment:

- tilt turntable  $\pm 45^\circ$ , with T-slots, height adjustment
- coolant pump - cooling system
- work lights
- self-centring drill chuck
- power feed with infinitely variable adjustment of drilling depth
- electromagnetic clutch
- speed changed by change gears, 12 steps
- base with T-slots
- "STOP" emergency switch
- motor overload protection
- manual in English
- CE declaration of conformity

12m

CE

Technical data:	Unit	W30 ECONOMIC
Max. drill diameter - steel	[mm]	30
Spindle quill feed	[mm]	135
Max. threading diameter	[-]	M18
Distance between spindle nose and column	[mm]	260
Distance between spindle nose and table	[mm]	685
Max. distance between spindle and base	[mm]	1165
Column diameter	[mm]	110
Max. vertical table feed	[mm]	500
Worktable tilt	[°]	$\pm 45^\circ$
Spindle taper	[-]	MT 3
Spindle speed steps	[-]	12 steps
Spindle speed range	[rpm]	125-3030
Spindle feed	[-]	3
Spindle power feed	[mm/turn]	0,1; 0,2; 0,3
Motor power	[kW]	0,85/1,1
Table dimension	[mm]	420 x 350
Dimensions (LxWxH)	[mm]	750 x 495 x 2080
Weight	[kg]	320

# EUROMET W35, W35E PILLAR DRILLING MACHINES

# EUROMET W35 ECONOMIC PILLAR DRILLING MACHINE

The pillar drilling machine is intended for production plants or workshops. The driller is easy to operate. Intended for drilling, boring, spotting, rough boring and threading. The machine enables precise drilling at an angle and machining of big work pieces made from different materials. Strong, tough spindle also enables milling. Table support lift/drop, rotation around the column ( $\pm 180^\circ$ ). Worktable  $360^\circ$  rotation on the vertical axis and  $\pm 45^\circ$  tilt - parallel to the support. Such features make the machine even more functional while it remains easy to operate.

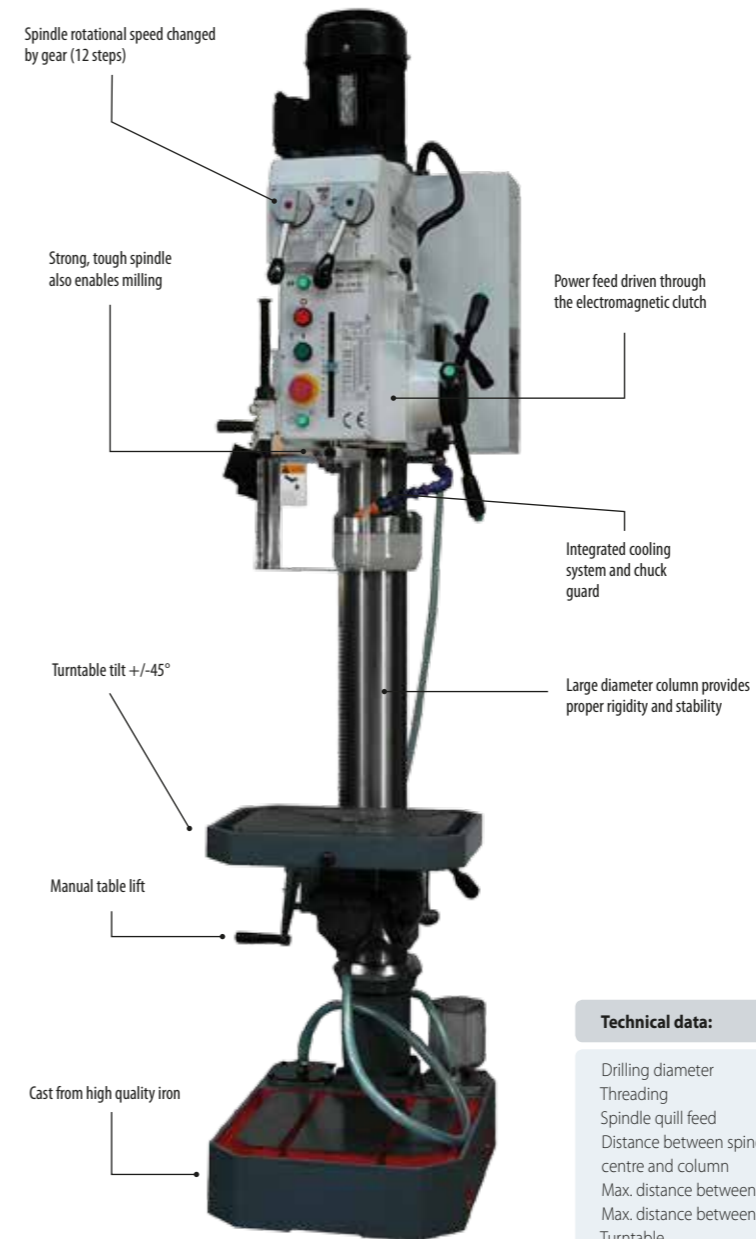
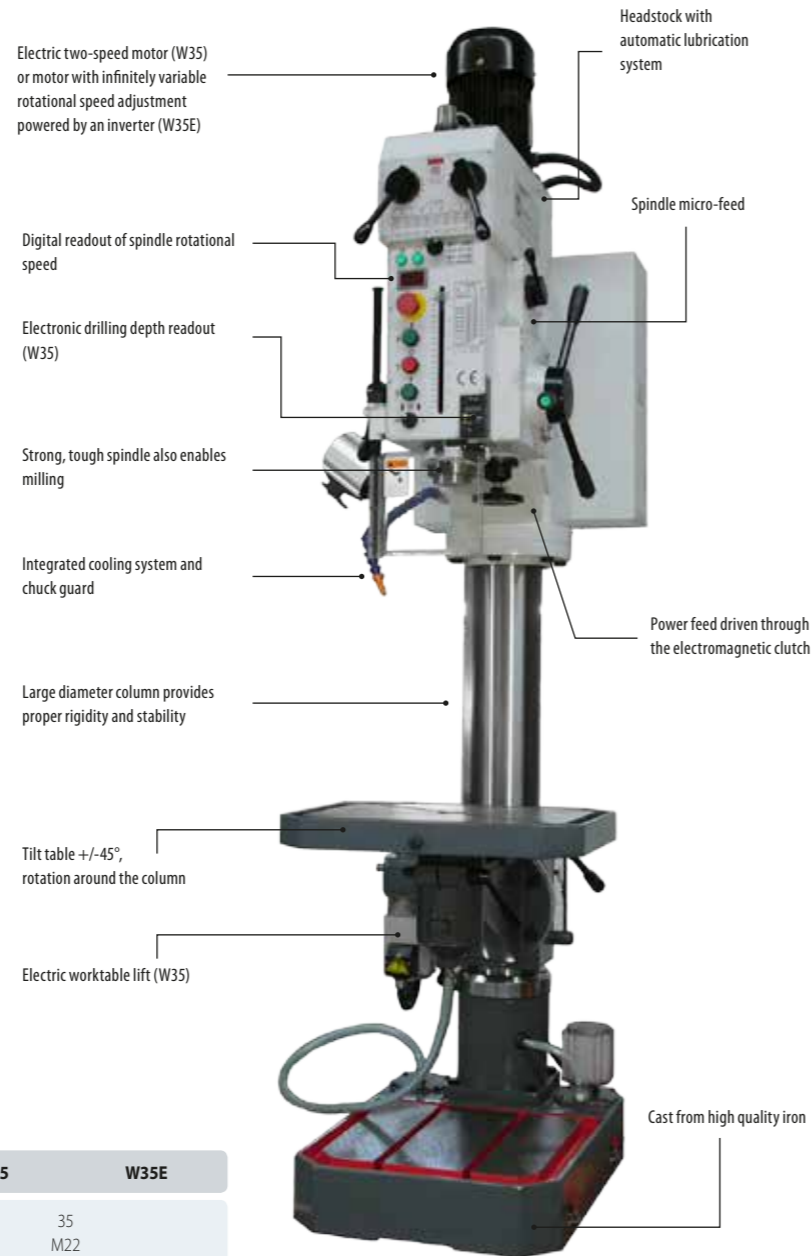
The pillar drilling machine is intended for production plants or workshops. The driller is easy to operate. Intended for drilling, boring, spotting, rough boring and threading. The machine enables precise drilling at an angle and machining of big work pieces made from different materials. Strong, tough spindle also enables milling. Table support lift/drop, rotation around the column ( $\pm 180^\circ$ ). Worktable  $360^\circ$  rotation on the vertical axis and  $\pm 45^\circ$  tilt - parallel to the support. Such features make the machine even more functional while it remains easy to operate.

EUROMET W35, W35E PILLAR DRILLING MACHINES

EUROMET W35 ECONOMIC PILLAR DRILLING MACHINE

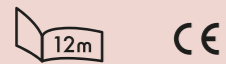
### Standard equipment:

- tilt table  $\pm 45^\circ$
- coolant pump
- automatic central lubrication system
- speed changed by change gears, 12 steps
- lightning
- power feed
- digital readout of spindle speed
- digital readout of drilling depth
- electric table lift/drop
- electromagnetic clutch
- threading
- drill chuck
- base with T-slots
- manual in English
- CE declaration of conformity



### Standard equipment:

- tilt table  $\pm 45^\circ$
- manual table lift/drop
- coolant pump
- automatic central lubrication system
- spindle rotational speed changed by change gears, 12 steps
- lightning
- power feed
- threading
- drill chuck
- base with T-slots
- manual in English
- CE declaration of conformity



Technical data:	Unit	W35	W35E
Drilling diameter	[mm]	35	
Threading	[-]	M22	
Spindle quill feed	[mm]	190	165
Distance between spindle centre and column	[mm]	330	
Max. distance between spindle and table	[mm]	610	590
Max. distance between spindle and base	[mm]	1195	
Turntable	[°]	$\pm 45$	
Spindle taper (Morse)	[-]	No. 4	
Speed steps	[-]	12	stepless
Spindle speed	[rpm]	75 - 2020	75 - 3250
Feed steps	[-]	3	3
Drill feed	[mm/rev]	0,12; 0,24; 0,4	0,1; 0,2; 0,3
Table dimensions	[mm]	540 x 440	500 x 420
T-slots dimensions table/base	[-]	2-14	2-16
Base dimensions	[mm]	490 x 715	640 x 450
Motor power	[kW]		1,5
Column diameter	[mm]	140	120
Dimensions (L x W x H)	[mm]	885 x 640 x 2275	885 x 640 x 2275
Weight	[kg]	565	550



Tilt table



Digital readout of spindle rotational speed (type E)

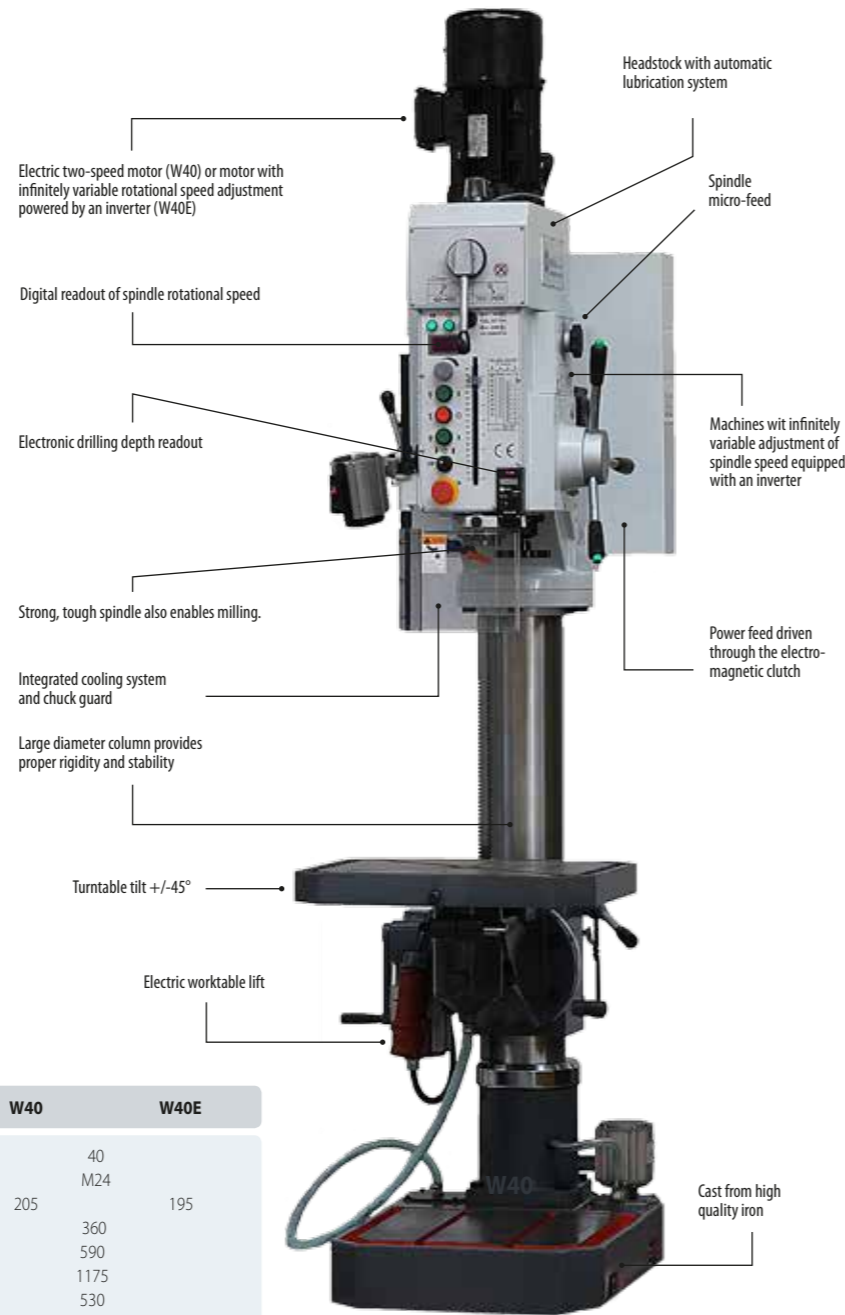
Technical data:	Unit	W35 Economic
Drilling diameter	[mm]	35
Threading	[-]	M22
Spindle quill feed	[mm]	155
Distance between spindle centre and column	[mm]	330
Max. distance between spindle and table	[mm]	610
Max. distance between spindle and base	[mm]	1195
Turntable	[°]	$\pm 45$
Spindle taper (Morse)	[-]	No. 4
Speed steps	[-]	12
Spindle speed	[rpm]	125-3030
Feed steps	[-]	3
Drill feed speed	[mm/turn]	0,1; 0,2; 0,3
Table dimension	[mm]	540 x 440
T-slots dimensions table/base	[-]	2-14
Base dimension	[mm]	415 x 400
Motor power	[kW]	1/1,2
Column diameter	[mm]	140
Dimensions (L x W x H)	[mm]	885 x 640 x 2275
Weight (net/gross)	[kg]	670/730

# EUROMET W40, W40E PILLAR DRILLING MACHINE

The pillar drilling machine is intended for production plants or workshops. The driller is easy to operate. Intended for drilling, boring, spotting, rough boring and threading. The machine enables precise drilling at an angle and machining of big work pieces made from different materials. Strong, tough spindle also enables milling. Table support lift/drop, rotation around the column ( $\pm 180^\circ$ ). Worktable  $360^\circ$  rotation on the vertical axis and  $\pm 45^\circ$  tilt - parallel to the support. Such features make the machine even more functional while it remains easy to operate.

EUROMET W40, W40E PILLAR DRILLING MACHINE

- Main features:**
- strong construction
  - electric table lift/drop
  - spindle power feed
  - threading
  - electromagnetic clutch
  - spindle rotational speed changed by an inverter
  - external halogen lighting
  - coolant pump
  - automatic central lubrication system
  - digital readout of spindle rotational speed
  - digital readout of drilling depth
  - base with T-slots

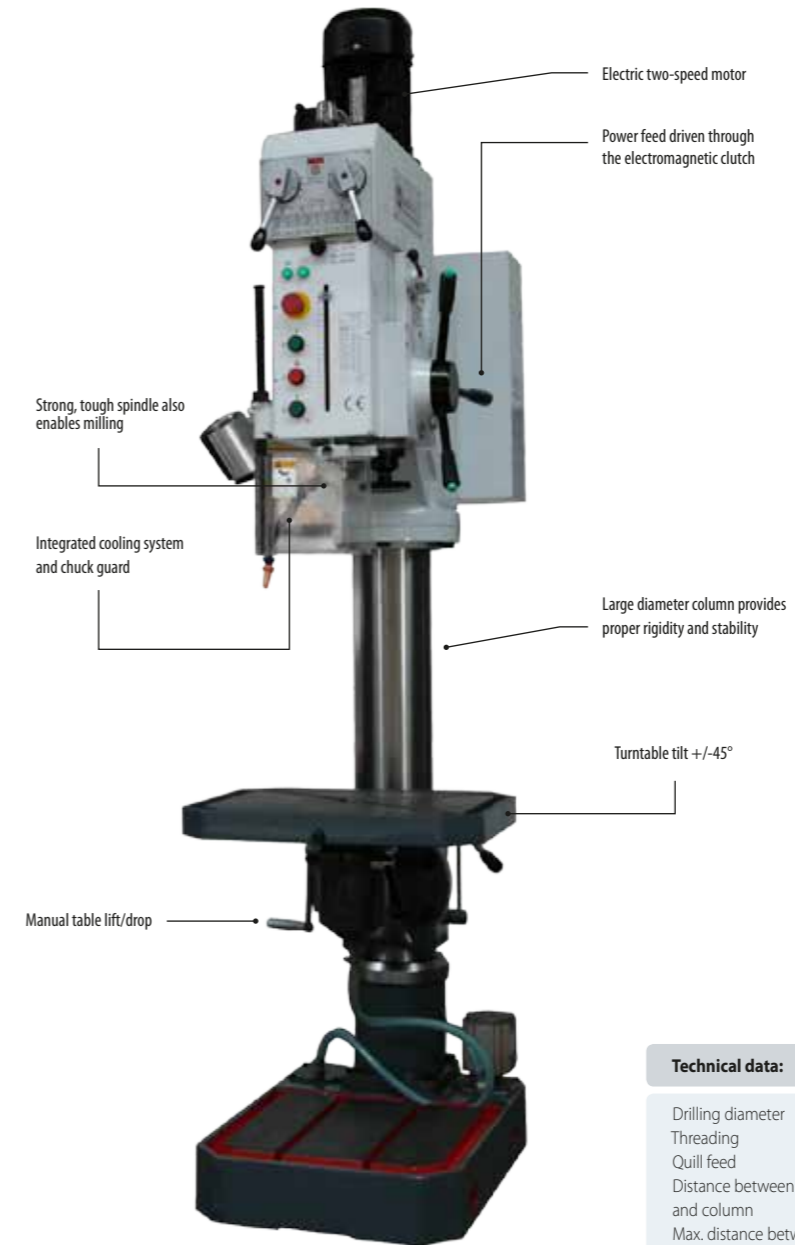


# EUROMET W40 ECONOMIC PILLAR DRILLING MACHINE

The pillar drilling machine is intended for production plants or workshops. The driller is easy to operate. Intended for drilling, boring, spotting, rough boring and threading. The machine enables precise drilling at an angle and machining of big work pieces made from different materials. Strong, tough spindle also enables milling. Table support lift/drop, rotation around the column ( $\pm 180^\circ$ ). Worktable  $360^\circ$  rotation on the vertical axis and  $\pm 45^\circ$  tilt - parallel to the support. Such features make the machine even more functional while it remains easy to operate.

EUROMET W40 ECONOMIC PILLAR DRILLING MACHINE

- Main features:**
- strong construction
  - spindle power feed
  - threading
  - electromagnetic clutch
  - spindle rotational speed changed by gear, 12 speeds
  - external halogen lighting
  - coolant pump
  - automatic central lubrication system
  - base with T-slots



W40E ECONOMIC

Technical data:	Unit	W40 Economic
Drilling diameter	[mm]	40
Threading	[-]	M24
Quill feed	[mm]	195
Distance between spindle centre and column	[mm]	360
Max. distance between spindle and table	[mm]	590
Max. distance between spindle and base	[mm]	1175
Table travel	[mm]	530
Turntable	[°]	$\pm 45$
Spindle taper (Morse)	[-]	No. 4
Speed steps	[-]	12
Spindle speed range	[rpm]	75-2020
Feed steps	[-]	4
Drill feed speed	[mm/turn]	0,1; 0,2; 0,3; 0,4
Table dimension	[mm]	540 x 44
Base workspace dimension	[mm]	445 x 435
Base dimensions	[mm]	720 x 500
Motor power	[kW]	1,5
Coolant pump power	[W]	85
Column diameter	[mm]	140
Dimensions (L x W x H)	[mm]	940 x 680 x 2405
Power supply	[V]	3 x 400
Weight (net/gross)	[kg]	565



Tilt table



Digital readout of spindle rotational speed (type E)



Technical data:	Unit	W40	W40E
Drilling diameter	[mm]	40	
Threading	[-]		M24
Quill feed	[mm]	205	195
Distance between spindle centre and column	[mm]	360	
Max. distance between spindle and table	[mm]	590	
Max. distance between spindle and base	[mm]	1175	
Table travel	[mm]	530	
Turntable	[°]	$\pm 45$	
Spindle taper (Morse)	[-]		No. 4
Speed steps	[-]	12	stepless
Spindle speed range	[rpm]	52-1400	60-2600
Feed steps	[-]	4	
Drill feed speed	[mm/turn]	0,1; 0,2; 0,3; 0,4	
Table dimensions	[mm]	580 x 460	540 x 440
Base workspace dimension	[mm]	445 x 435	
Base dimensions	[mm]	795 x 525	725 x 485
Motor power	[kW]	2,2	2
Coolant pump power	[W]	85	
Column diameter	[mm]	160	140
Dimensions (L x W x H)	[mm]	940 x 680 x 2405	
Power supply	[V]	3 x 400	
Weight	[kg]	620	580



# EUROMET W50, W50E PILLAR DRILLING MACHINE

The pillar drilling machine is intended for production plants or workshops. The driller is easy to operate. Intended for drilling, boring, spotting, rough boring and threading. The machine enables precise drilling at an angle and machining of big work pieces made from different materials. Strong, tough spindle also enables milling.

Table support lift/drop, rotation around the column ( $\pm 180^\circ$ ). Worktable  $360^\circ$  rotation on the vertical axis and  $\pm 45^\circ$  tilt - parallel to the support. Such features make the machine even more functional while it remains easy to operate.

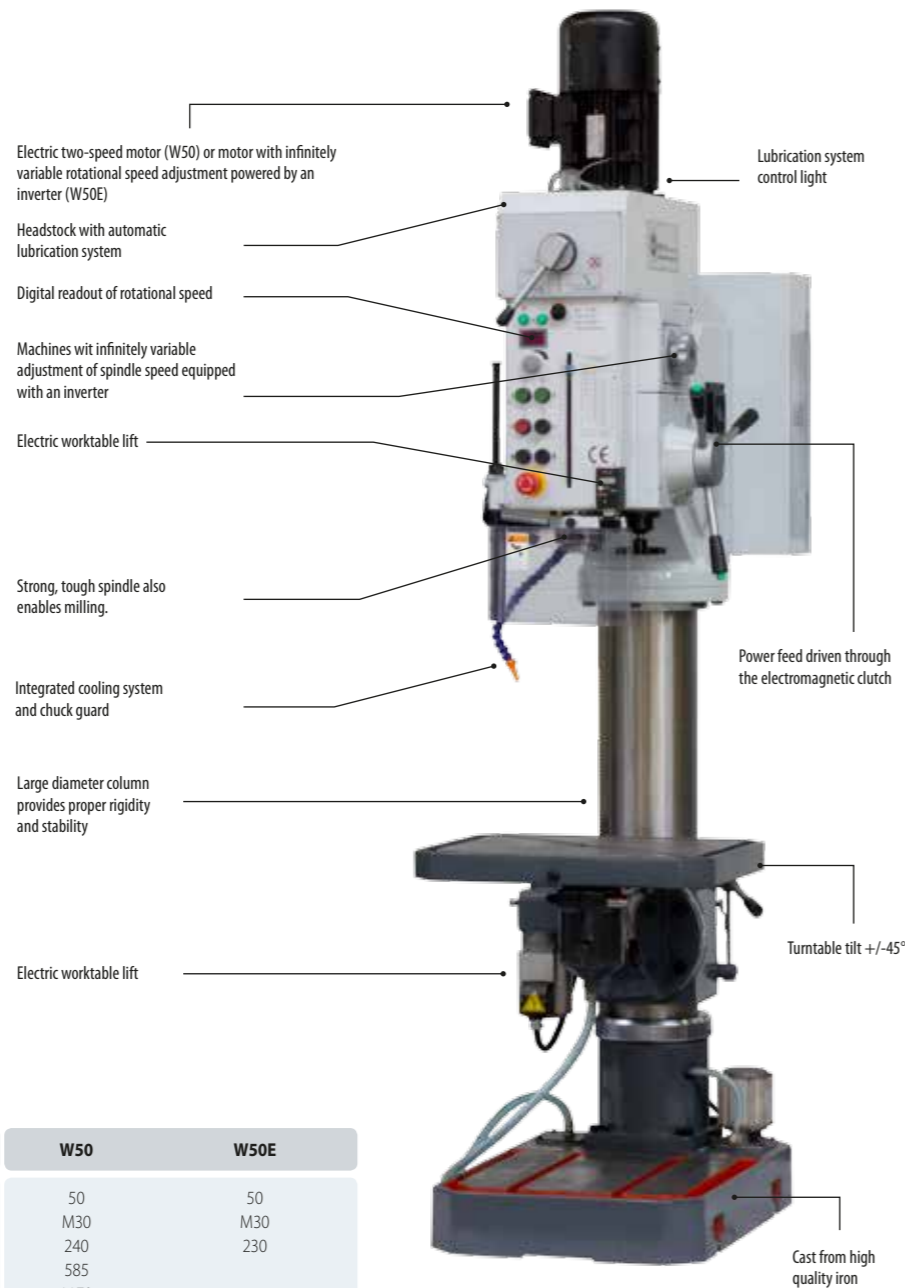
# EUROMET W50 ECONOMIC DRILLING MACHINES

Drilling machines intended for use in production plants and workshops. The machines are easy to operate. Enable drilling, boring, spotting, rough boring and threading. The machine enables precise drilling at angle and machining of big work pieces made from different materials. Strong, firm spindle enables milling operations. Table support lift/drop, rotation around the column ( $\pm 180^\circ$ ). Worktable  $360^\circ$  rotation on the vertical axis and  $\pm 45^\circ$  tilt - parallel to the support. Such features make the machine even more functional while it remains easy to operate.

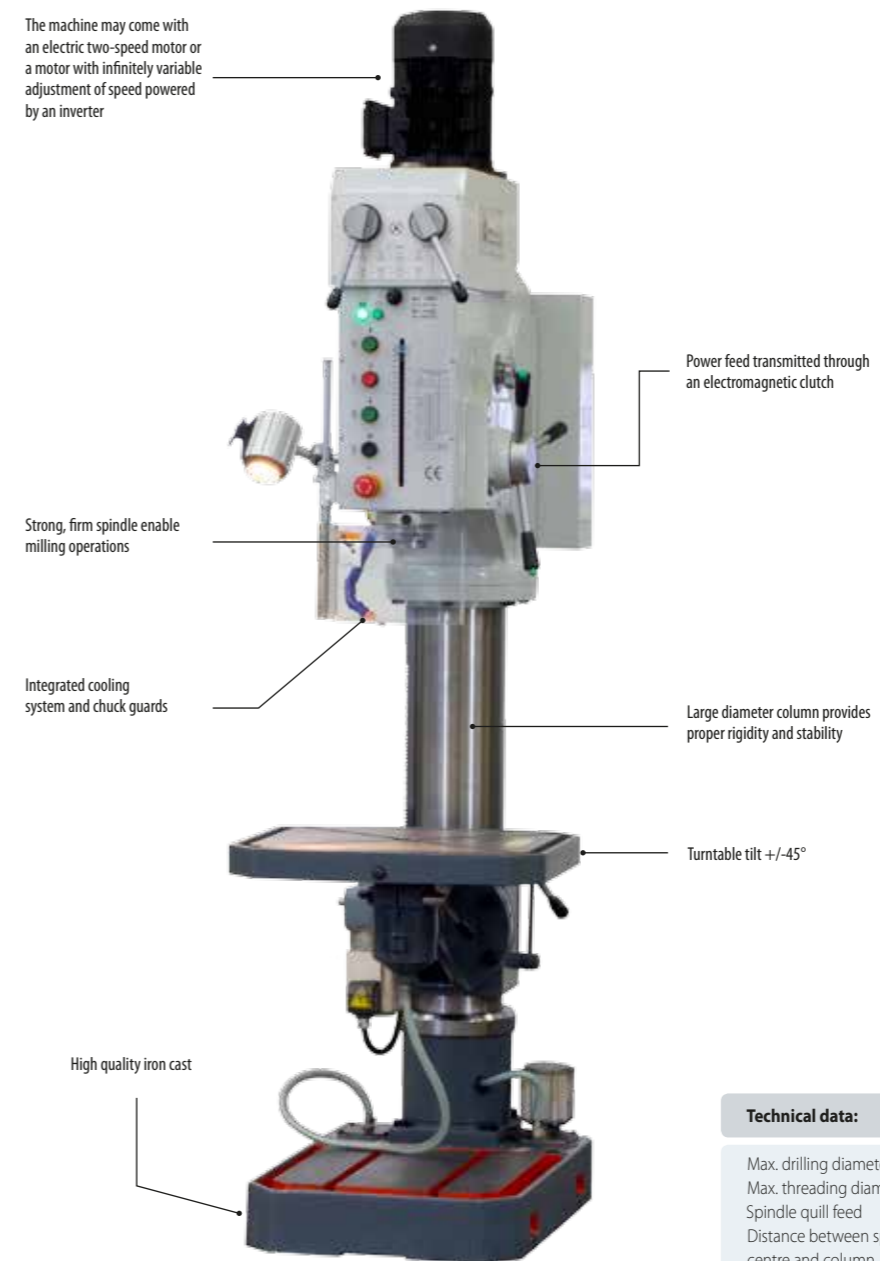
EUROMET W50, W50E PILLAR DRILLING MACHINE

EUROMET W50 ECONOMIC DRILLING MACHINES

- Main features:**
- strong construction
  - electric table lift/drop
  - spindle power feed
  - threading in standard version
  - electromechanical clutch
  - spindle rotational speed changed by an inverter, inf. var. adj.
  - external halogen lighting
  - coolant pump
  - automatic central lubrication system
  - digital readout of spindle rotational speed
  - digital readout of drilling depth
  - base with T-slots
  - drill chuck
  - manual in English
  - CE declaration of conformity
  - tilt table  $\pm 45^\circ$



The machine may come with an electric two-speed motor or a motor with infinitely variable adjustment of speed powered by an inverter



- Main features:**
- strong construction
  - spindle power feed
  - threading (in standard version)
  - electromagnetic clutch
  - speed changed by a transmission
  - external halogen lighting
  - coolant pump
  - automatic central lubrication system
  - table tilt  $\pm 45^\circ$
  - electric table lift/drop
  - drill chuck
  - base with T-slots
  - manual in English
  - CE declaration of conformity



Technical data:	Unit	W50	W50E
Drilling diameter	[mm]	50	50
Threading	[-]	M30	M30
Spindle quill feed	[mm]	240	230
Max. distance between spindle and table	[mm]	585	
Max. distance between spindle and base	[mm]	1170	
Distance between spindle centre and column	[mm]	370	
Column diameter	[mm]	180	180
Turntable	[°]	$\pm 45$	$\pm 45$
Spindle taper (Morse)	[-]	No. 4	No. 4
Speed steps	[-]	12	stepless
Spindle speed	[rpm]	52 - 1400	50-2200
Feed steps	[-]	4	4
Drill feed	[mm]	0,8; 0,16; 0,27; 0,35	0,08; 0,12; 0,17; 0,24; 0,35; 0,5
Table dimensions	[mm]	585 x 465	585 x 465
Base dimensions	[mm]	445 x 435	790 x 520
Motor power	[kW]	3	3
Column diameter	[mm]	180	180
Dimensions (L x W x H)	[mm]	950 x 680 x 2405	950 x 680 x 2405
Weight	[kg]	670	650



Technical data:	Unit	W50 Economic
Max. drilling diameter - steel	[mm]	50
Max. threading diameter	[-]	M30
Spindle quill feed	[mm]	240
Distance between spindle centre and column	[mm]	370
Max. distance between spindle and table	[mm]	585
Max. distance between spindle and table	[mm]	1170
Turntable	[°]	$\pm 45$
Spindle taper (Morse)	[-]	No. 4
Spindle speed steps	[-]	12
Spindle speed	[rpm]	48-2050
Feed steps	[-]	3
Driller feed range	[mm/rot]	0.12/0.23/0.40
Table size	[mm]	600x500
Table workspace	[mm]	445x435
Motor power	[kW]	3
Dimensions (L x W x H)	[mm]	1010x600x2350
Net weight	[kg]	670

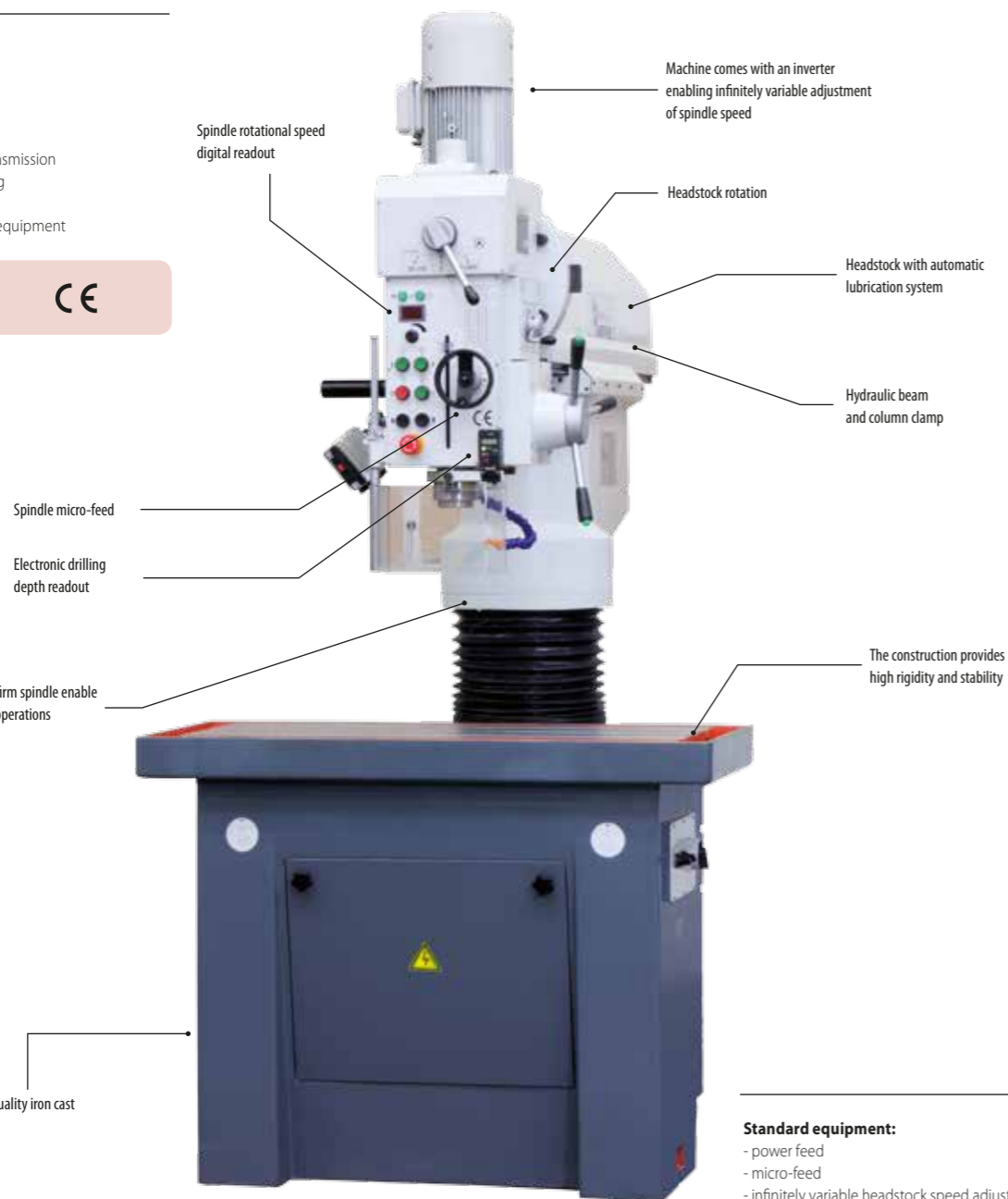


# EUROMET WP40 RADIAL DRILLING MACHINE

Drilling machines intended for all production plants. Suitable for continuous running. The machine enables milling and comes with hydraulic spindle and column stop.

### Main features:

- strong construction
- spindle power feed
- electromagnetic clutch
- digital readouts
- speed changed by a transmission
- external halogen lighting
- coolant pump
- wide range of standard equipment



### Standard equipment:

- power feed
- micro-feed
- infinitely variable headstock speed adjustment (inverter)
- spindle rotational speed digital readout
- drilling depth digital readout
- coolant pump
- lightning
- base with T-slots
- Ø13 drill chuck
- table tilt
- box table
- MT4/B16 reduction sleeve
- MT4/MT3 reduction sleeve
- MT4/MT2 reduction sleeve
- MT301 reduction sleeve
- set of end mills collets
- set of plain milling cutter collets
- manual in English
- CE declaration of conformity

### Additional equipment:

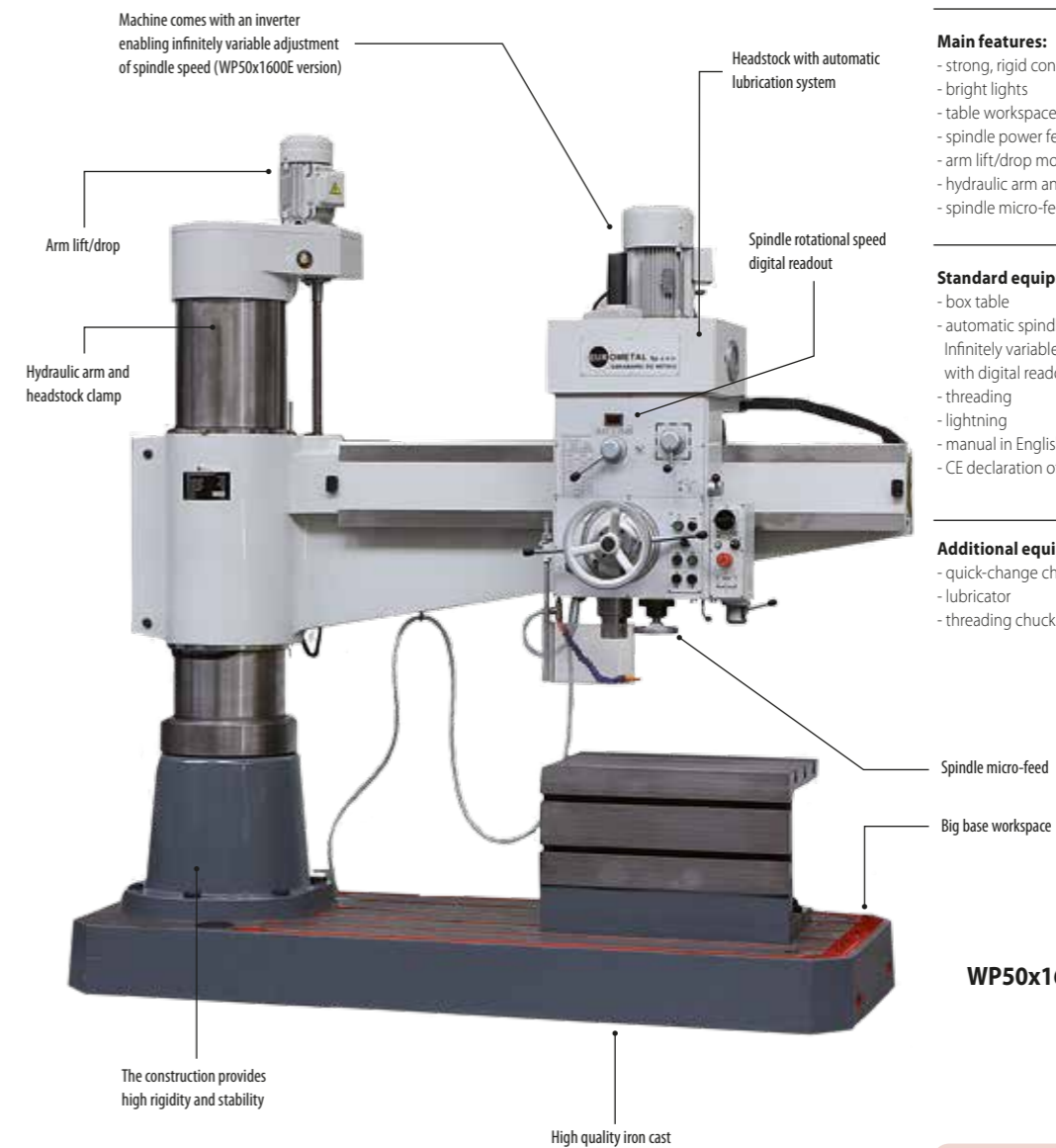
- cross table
- turntable
- vice and set of collets

Technical data:	Unit	WP40
Drilling diameter	[mm]	40
Threading	[mm]	M90
Max. milling diameter	[mm]	80
Spindle quill feed	[mm]	200
Distance between column centre and table	[mm]	760
Headstock vertical travel	[mm]	400
Headstock vertical travel [mm] 400		
Max. beam travel	[mm]	590
Max. headstock tilt	[°]	90°
Spindle taper	[MT]	No. 4
Spindle speed steps	[-]	12
Spindle rotational speed	[rpm]	50-2000
Feed steps	[-]	6
Feed range	[mm/rot]	0,08/0,05
Column diameter	[mm]	220
Table dimension	[mm]	1200 x 505
T-slots size - table/base	[mm]	3x18 2-14/2-16
Base size	[mm]	460 x 450
Dimensions (L x W x H)	[kW]	2,2
Wymiary (DxSxW)	[mm]	1720 x 1200 x 2250
Net weight	[kg]	3000

# RADIAL DRILLING MACHINES

EUROMET WP 40x800, WP 50x1600, WP 60x1600E, WP 63x2000, WP 80x2000, WP 80x2500, WP 100x2500

Radial drilling machines intended for factories, workshops and production lines in big production plants. Enable drilling, reaming, spotting, rough reaming, threading and boring (optional). The machine may be equipped with additional accessories which enable a wide range of different operations.



### Main features:

- strong, rigid construction
- bright lights
- table workspace
- spindle power feed
- arm lift/drop motor
- hydraulic arm and headstock clamp
- spindle micro-feed

### Standard equipment:

- box table
- automatic spindle travel
- infinitely variable headstock rotational speed adjustment with digital readout (WP50/1600E version)
- threading
- lightning
- manual in English
- CE declaration of conformity

### Additional equipment:

- quick-change chuck
- lubricator
- threading chuck



Technical data:	Unit	WP 40x800	WP 50x1600	WP 60x1600E	WP 63x2000	WP 80x2000	WP 80x2500	WP 100x2500
Max. drilling diameter	[mm]	40	50	60	63	80	80	100
Distance between spindle centre and column	[mm]	320-820	350-1600	350-1600	550-2050	450-2050	500-2500	560-2560
Headstock horizontal travel	[mm]	500	1250	1250	1600	1600	2000	2000
Column diameter	[mm]	200	350	350	450	500	550	600
Distance between spindle nose and base workspace	[mm]	320-900	315-1250	315-1250	400-1600	348-1548	550-2000	700-2500
Arm vertical feed	[mm]	740	600	600	800	800	1000	1300
Arm angle of rotation	[°]	+/- 360°	+/- 360°	+/- 360°	+/- 180°	+/- 180°	+/- 180°	+/- 360°
Spindle taper	[-]	MT4	MT5	MT5	MT5	MT6	MT6	MT6
Rotational speed	[rpm]	75-1220	25-2000	38-2000	20-1600	16-1250	16-1250	8-1000
Spindle rotational speed steps	[-]	6	16	stepless	16	16	16	22
Spindle feed range	[mm/rot]	0.10 - 0.25	0,04-3,2	0,04-3,2	0.4 - 3.2	0.4 - 3.2	0.4 - 3.2	0.06 - 3.2
Spindle feed steps	[-]	3	16	16	16	16	16	16
Spindle quill feed	[mm]	240	315	315	400	400	450	500
Main motor power	[kW]	1.5	4	4	5.5	7.5	7.5	15
Gross weight	[kg]	1200	3500	3500	8000	7000	15000	19000
Base size (LxWxH)	[mm]	1370x700x160	2400x1000x200	2400x1000x200	2900x1250x250	2900x1250x250	3530x1400x300	3280x1630x330
Driller size (LxWxH)	[mm]	1407x720x1885	2490x1035x2835	2490x1035x2835	3110x1250x3150	3110x1250x3437	3730x1400x3790	3890x1630x4180





# EUROMET WK40, WK50 COLUMN DRILLING MACHINES

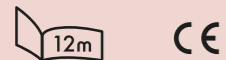
Universal machines intended for machining pieces of different sizes, made from various materials. WK40 and WK50 series column drilling machines are extremely rigid, which provides drilling precision. The machines are intended for use in metalworking shops, repair shops, on production lines etc. They enable drilling, spot facing, reaming, spotting, threading and milling.

### Standard equipment:

- keyless drill chuck
- lightning
- power feed
- drill chuck adapter
- collet adapter
- collet round key
- inverter enabling infinitely variable spindle rotational speed adjustment
- manual in English
- CE declaration of conformity

### Additional equipment:

- milling collets
- collet chuck
- collet
- cross table



Machine comes with an inverter enabling infinitely variable adjustment of spindle speed

Headstock with automatic lubrication system

Spindle rotational speed digital readout

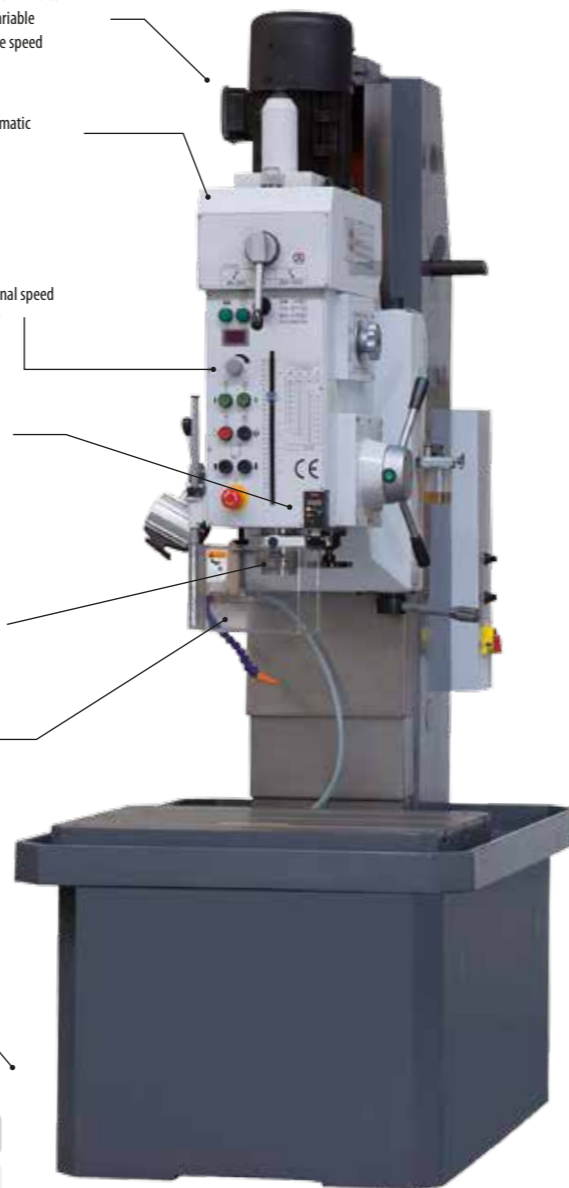
Electronic drilling depth readout

Strong spindle enabling milling

Integrated cooling system and chuck guards

The construction provides high rigidity and stability

High quality iron cast



WK40



Spindle rotational speed digital readout

Technical data:	Unit	WK 40	WK 50
Max. drilling diameter	[mm]	40	50
Max. threading diameter	[mm]	M28	M35
Max. milling diameter	[mm]	80	80
Distance between spindle centre and column surface	[mm]	400	450
Max. distance between spindle nose and table surface	[mm]	880	1050
Max. spindle pitch	[mm]	200	280
Max. headstock vertical pitch	[mm]	650	750
Spindle taper	[MT]	MT 4	MT 4
Spindle rotational speed steps	[-]	inf. var. adj	inf. var. adj
Spindle speed range	[rpm]	50~2200	40~1600
Spindle power feed steps	[-]	6	6
Spindle power feed range	[mm/rot]	0.08-0.5	0.08-0.5
Worktable size (L x W)	[mm]	700x500	800x600
Worktable T-slots - No. and breadth	[mm]	3-18	3-18
Main motor power	[kW]	2.2	3.7
Vertical headstock feed motor power and rotational speed	[kW/rpm]	1.1 / 960	1.1 / 960
Coolant circulating pump motor power	[kW]	0.25	0.25
Dimensions (L x W x H)	[mm]	1310x820x2200	1490x950x2370
Net weight	[kg]	1100	1350

# EUROMET WK63, WK80 COLUMN DRILLING MACHINES

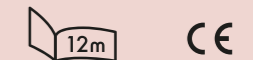
Universal machines intended for machining pieces of different sizes made from various materials. Drilling machines are extremely precise, efficient, fault-free and easy to operate. The construction provides high rigidity and stability. The machines intended for small workshops, although machines' semiautomatic cycle makes them suitable for bigger production plants. Enable drilling, spot facing, reaming, spotting, threading and milling.

### Main features:

- strong, rigid construction
- strong spindle enabling milling
- drilling depth regulation
- headstock feed motor
- integrated cooling system
- workspace guard
- big table workspace

### Standard equipment:

- 4 reducer sleeves
- tool drift key
- foundation bolts
- lightning
- power feed
- manual in English
- CE declaration of conformity



Drilling depth regulation

Strong spindle enabling milling

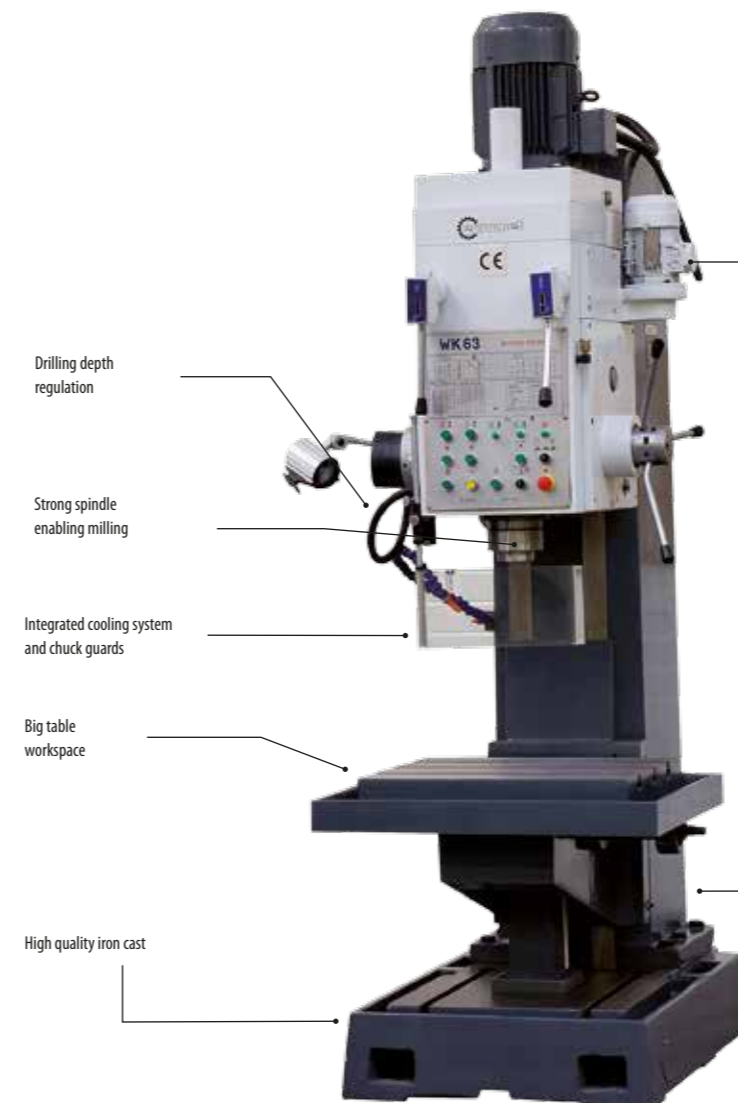
Integrated cooling system and chuck guards

Big table workspace

High quality iron cast

Headstock feed motor

The construction provides high rigidity and stability



### Technical data:

Technical data:	Unit	WK 63	WK 80
Max. drilling diameter	[mm]	63	80
Max. torque	[Nm]		800
Main spindle taper	[MT]		MT 5
Spindle quill feed	[mm]		250
Headstock travel	[mm]		260
Distance between spindle centre and column surface	[mm]		375
Spindle rotational speed	[rpm]	40, 55, 82, 105, 150, 210, 280, 400, 570	
Feed rate	[mm/rev]	0.1; 0.2; 0.27; 0.4; 0.55; 0.78	
Worktable size	[mm]	550x650	
Max. distance between spindle and worktable surface	[mm]	860	810
Worktable travel	[mm]		300
Base workspace size	[mm]	600x580	
Skip feed motor power	[kW]		0.55
Main motor power	[kW]		5.5
Size	[mm]	1260x1020x2820	
Net weight	[kg]		2500



Control panel

# EUROMET SN-50 TOOL GRINDER

SN-50 series tool grinder is intended for grinding high-speed steel, hardened steel or other materials used in tool production. It is suitable for grinding cylindrical surfaces and any other cutting tools surfaces. The machines equipped with additional attachments enable grinding gears, form cutters, turning tools, keyhole bits, cylindrical bits, drills, screwtaps and other surfaces. The base cast from high quality iron. It guarantees the highest rigidity. The wheelhead is adjustable in 3 axes.

### Wide selection of optional attachments:

- 50D - the attachment enables grinding cutting surfaces of slab mills, shank cutters, end mills, drills, screwtaps etc. Drilling diameter:  $\varnothing$  6 -  $\varnothing$  25mm
- 50E - the attachment enables grinding cylindrical cutting surfaces of mills and drills  $\varnothing$  6 -  $\varnothing$  25 mm.
- 50K - the attachment enables grinding butting faces of drills, step drills, counterbores etc. Grinding diameter:  $\varnothing$  1,5 -  $\varnothing$  32 mm (straight or taper chuck). Double cams enable grinding of various drill types.
- 50F - attachment for grinding turning tools of conventional lathes and CNC machines.
- 50H - attachment for grinding face mills, reamers, hobs.
- 50B - attachment for grinding drills, multiland drills, counterbores, round bars, end mills side work surfaces, screwtaps etc. up to  $\varnothing$  2 -  $\varnothing$  60mm

### Standard equipment:

- CE declaration of conformity
- manual in English

### Additional equipment:

- attachment 50D
- attachment 50E
- attachment 50K
- attachment 50F
- attachment 50H
- attachment 50B
- cooling system

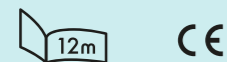


Two-way tilt head

Table on ball guide ways enabling smooth feed.

Cooling system (optional)

Convenient cabinet for additional tools



Technical data:	Unit	SN-50
Worktable longitudinal travel	[mm]	230
Worktable cross travel	[mm]	180
Spindle vertical travel	[mm]	120
Head angle of rotation	[°]	360
Headstock angle of rotation	[°]	360
Worktable size	[mm]	620x190
Grinding wheels	[ $\varnothing$ ]	80 x 25 x 31.75 lub 125 x 50 x 31.75
Spindle rotational speed	[rpm]	3600
Motor power	[kW]	0,55
Net weight	[kg]	260



entrée 50K



entrée 50D



entrée 50E



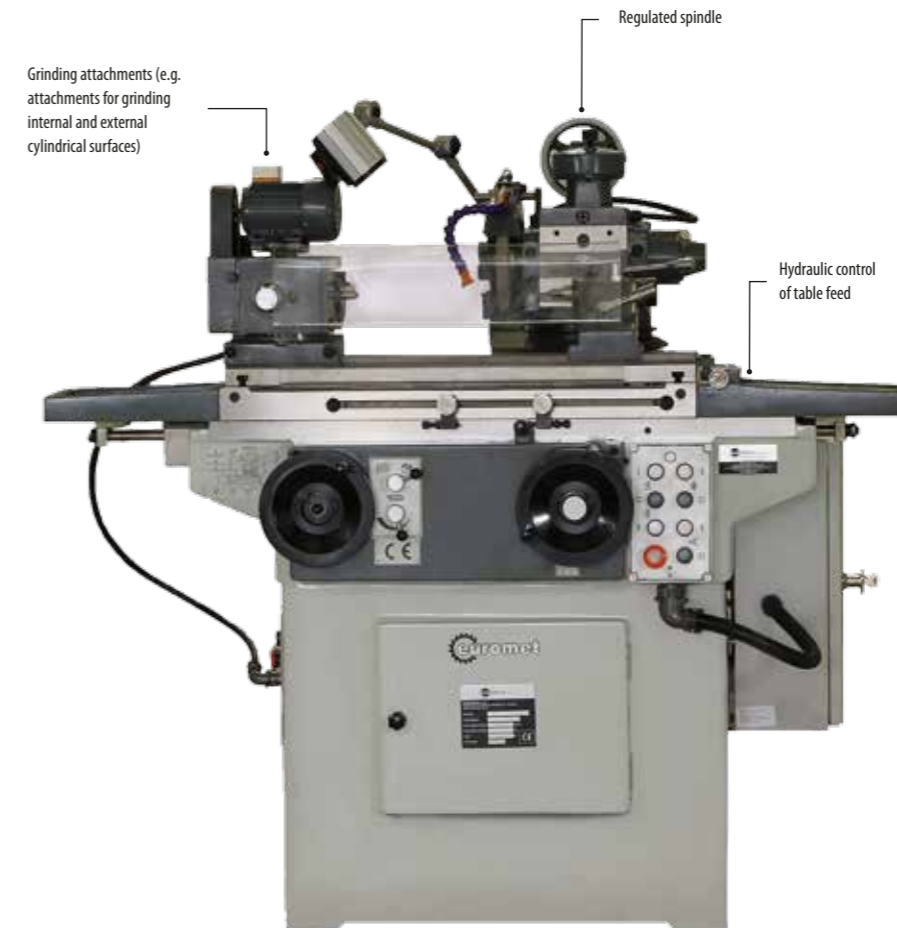
entrée 50F



entrée 50H

# EUROMET SN-200 MULTIFUNCTION GRINDER

The multifunction grinder is a type of an universal machine. It has the qualities of a cylindrical, flat-surface or tool grinder. It is intended for a wide range of grinding works and tool sharpening.



Grinding attachments (e.g. attachments for grinding internal and external cylindrical surfaces)

Regulated spindle

Hydraulic control of table feed

### Available attachments:

- external grinding attachment
- internal grinding attachment
- attachment for grinding mills
- attachment for grinding metal-slitting saws
- attachment for grinding reamers
- attachment for grinding surfaces

### Standard equipment:

- cooling system
- 6 grinding wheels
- internal grinding head
- external grinding spindle
- 3 jaw chuck
- centre
- rest
- tailstock (left)
- dressing cutter (without a diamond)
- 3 gear pullers
- 2 V-belts
- grinding wheel static balancer
- 3 grinding flanges
- 2 bush centralizers
- 2 grinder shields
- manual in English
- CE declaration of conformity

### Additional equipment:

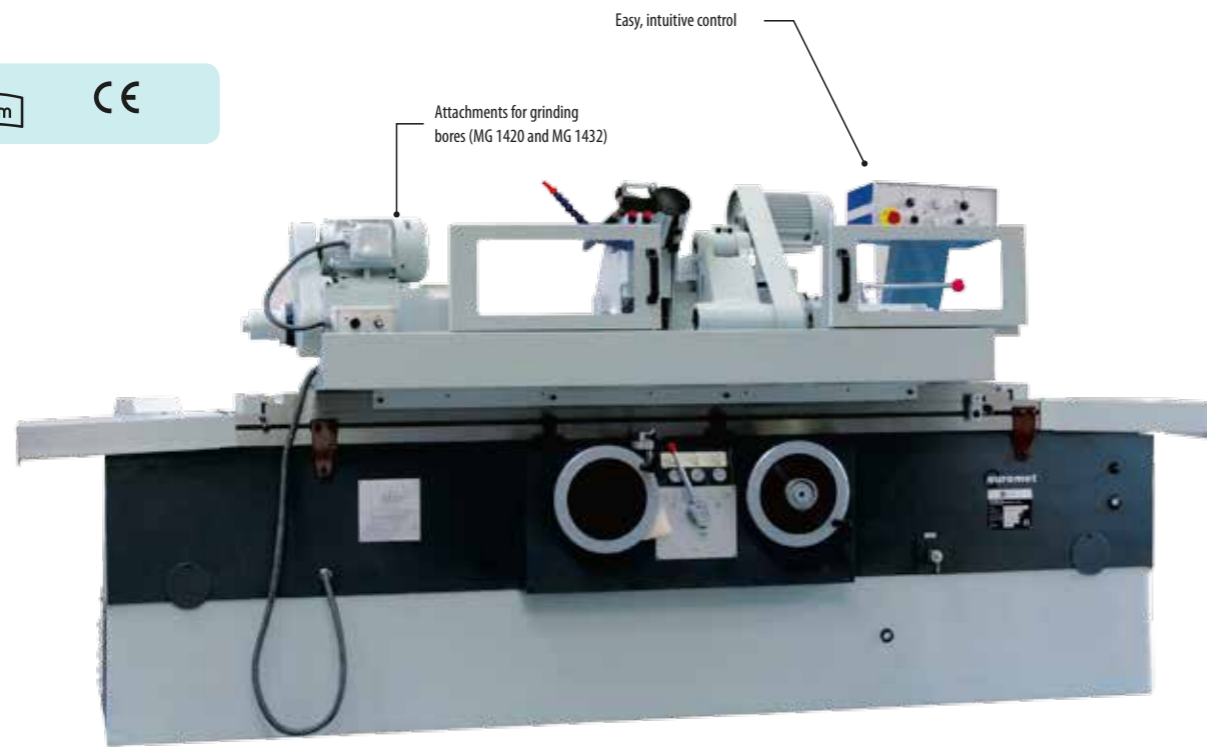
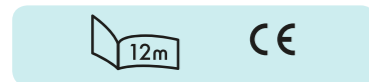
- dust extractor
- fixed worktable
- tool for grinding taper reamers
- universal dressing cutter



Technical data:	Unit	SN-200	Technical data:	Unit	SN-200
Max. diameter of the workpiece	[mm]	200	Grinding wheel dimensions	[mm]	$\varnothing$ 200 x 20 x $\varnothing$ 75
Max. grinding length	[mm]	500	Max. worktable travel	[mm]	480
External grinding diameter range	[mm]	5 - 50	Cross feed (hydraulic)	[m/min]	0,1-6
Internal grinding diameter range	[mm]	10 - 50	Cross feed (servomotor)	[m/min]	$\leq$ 7
Max. external grinding length	[mm]	400	Worktable travel per one wheel rev.	[mm]	17
Max. internal grinding length	[mm]	75	Worktable travel per one knob rev.	[mm]	126
Max. ground surface size	[mm]	100 x 50	Max. upper table angle of rotation	[°]	+45°, -30°
Max. weight of the workpiece	[kg]	10	Tailstock taper	[MT]	MT 2
Workpiece centre height	[mm]	100	Tailstock quill feed	[mm]	14
Centre distance between workpiece and tailstock	[mm]	430	Hydraulic system working pressure	[MPa]	0,8 - 1,2
Centre distance between left and right tailstock	[mm]	500	Secondary pressure	[MPa]	0,5 - 0,6
Spindle taper	[MT]	MT 2	Lubrication system pressure	[MPa]	0,08 - 0,15
Spindle rotational speed	[rpm]	110, 200, 300	Coolant circulating pump capacity	[l/min]	22
Workpiece head angle of rotation	[°]	+/- 90°	Grinder head motor power	[kW]	1,1
Spindle vertical travel	[mm]	200	Workpiece head motor power	[kW]	0,18
Spindle cross travel	[mm]	200	Hydraulic pump motor power	[kW]	0,75
Vertical travel per one wheel rev.	[mm]	1	Coolant circulating pump motor power	[kW]	0,125
Vertical travel per one nonius scale	[mm]	0,01	Chip separator motor power	[kW]	0,75
Cross travel per one wheel rev.	[mm]	0,25	Total power	[kW]	2,525
Cross travel per one nonius scale	[mm]	0,005 / 0,02	Dimensions	[mm]	1520 x 1131 x 1173
Grinder head angle of rotation	[°]	+/- 90°	Net weight	[kg]	1350
Grinding wheel rotational speed	[rpm]	2950			

Smooth operation and low noise level due to hydraulic system with screw pumps.  
Wheelhead spindle provides precise rotational movement and high rigidity.  
The guides covered with plastic which ensure low feed rates and high resistance to vibrations while the friction factor remains low.  
The machine has been carefully designed and manufactured, has a compact and attractive design. Placement of control elements ensures comfortable and safe operation.  
All grinding operations and operational sequences are controlled by the PLC controller.

MG1420 and MG1432 models come with attachments for grinding bores.  
MG1320 and MG1332 models enable cylindrical grinding only.  
We only offer the machines which provide increased precision.



Technical data:	Unit	MG 1320	MG 1330	MG 1420	MG 1432
Max. grinding length	[mm]	500 750 1000	500 750 1000	500 750 1000	500 750 1000
Centres height	[mm]	125	180	125	180
Max. workpiece length	[mm]	520 765 1080	520 765 1080	520 765 1080	520 765 1080
Max. external workpiece diameter	[mm]	200	320	200	320
External grinding range	[mm]	Ø5~ Ø200	Ø5~ Ø320	Ø5~ Ø200	Ø5~ Ø320
Internal grinding range	[mm]	-	-	Ø13~ Ø80	Ø16~ Ø125
Max. workpiece weight	[kg]	50	50	50	50
Grinding wheel size (ext. diameter x width x bore)	[mm]	400 x (32~50) x 203			
Max. grinding wheel linear velocity	[m/s]	35			
Table angle of rotation (clockwise)	[°]	9° 8' 3"			
Table angle of rotation (anticlockwise)	[°]	9° 8' 7"			
Head angle of rotation	[°]	±12°			
Spindle taper - head	[-]	MT 4			
Spindle taper - tailstock	[-]	MT 3			
Total power	[kW]	4.8			
Net weight	[kg]	2100/2500/3000			

#### Standard equipment:

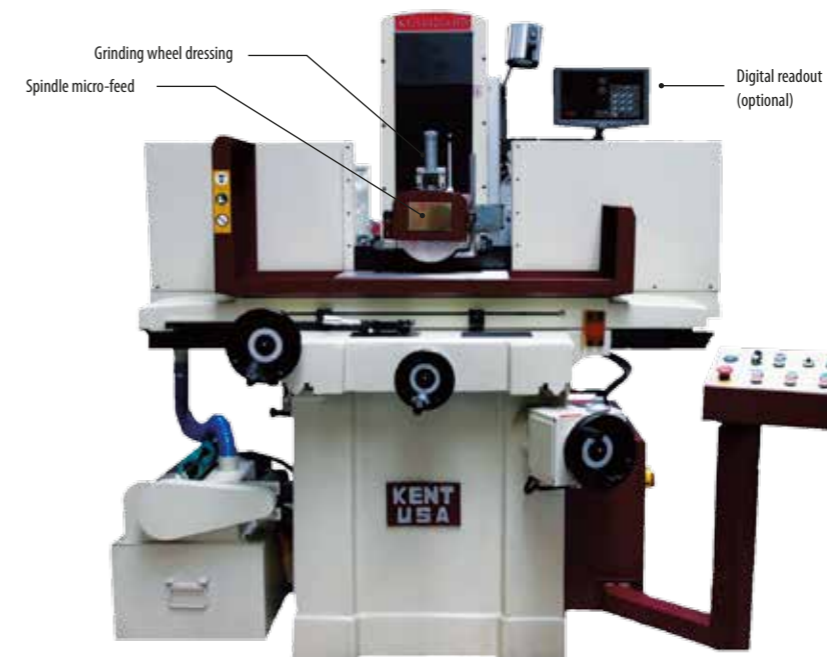
- coolant tank
- dressing cutters
- grinding wheel
- balancing arbors
- 4 centres
- buffer
- tools for grinding wheel disassembly
- tools for grinding wheel balancing
- internal grinding head
- 3 jaw chuck
- internal grinding nozzle
- manual in English
- CE declaration of conformity

#### Additional equipment:

- open rest
- closed rest
- 4 jaw chuck
- grinding wheel flange
- diamond dressing cutter

KGS surface grinding machines are manufactured by the renowned KENT company. The grinders are intended for use in all production plants and for continuous running. State-of-the-art strong design. The main bases cast from high quality iron. It makes the construction heavy and rigid and provides resistance to vibrations. The grinding machines come with a wide range of standard equipment. Hydraulic control of table longitudinal feed, infinitely variable speed adjustment.

AHD series grinders provide increased precision - accuracy of ± 2 microns.  
SD1/SD2 series grinders come with PLC controller and a servomotor (SD1) which controls headstock vertical feed or optionally with a cross feed servomotor (SD2). Power vertical feed (0.001-0.1mm) enables coarse grinding, finishing grinding and sparking out in one working cycle. Power cross feed (0.001-0.1mm) enables precise grinding of workpiece's vertical edges, grooves and keys.

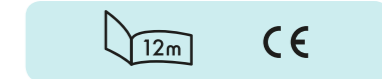


#### Standard equipment:

- grinding wheel
- back shield
- magnetic table
- power feed on 2 axes
- micro-feed
- grinding wheel static balancer
- manual in English
- CE declaration of conformity

#### Additional equipment:

- tool for parallel dressing of grinding wheels
- tool for dressing of grinding wheels at an angle
- Basic magnetic separator
- magnetic separator with a coolant pump and a paper filter
- digital readout for 2 axes



Technical data:	Unit	KGS 818AHD	KGS 1020AHD	KGS1024 AHD
Table size	[mm]	200 x 460	255 x 510	255 x 610
Longitudinal feed	[mm]	510	575	675
Cross travel	[mm]	250	280	280
Distance between table surface and spindle centre	[mm]	530	535	675
Max. table load	[kg]	150	300	300
Max. table load [kg] 150 300 300				
Table mount T-slot	[mm]	1 x 14	3 x 14	1 x 14
Table speed	[rpm]	0 - 25	5 - 25	5 - 25
Cross feed (1 vernier scale interval)	[mm]	0,02	0,02	0,02
Cross feed (1 rev.)	[mm]	5	5	5
Cross power feed	[mm/min]	0,5 - 12	0,5 - 12	0,5 - 12
Cross skip feed (servomotor)	[mm/min]	780	790	790
Grinding wheel size	[mm]	200 x 25 x 32	200 x 25 x 32	200 x 25 x 32
Spindle speed range	[obr/min]	2850	2850	2850
Manual spindle travel (1 rev.)	[mm]	2	2	2
Manual spindle travel (1 vernier scale interval)	[mm]	0,001	0,01	0,002
Vertical power feed	[mm]	0,002 - 0,2	0,002 - 0,2	0,002-0,2
Main motor power	[kW]	1,5	2,2	2,2
Vertical feed motor power	[W]	-	-	-
Hydraulic pump motor power	[kW]	1,5	1,5	1,5
Dust collection motor power	[W]	550	550	550
Coolant circulating pump motor power	[W]	90	90	90
Cross feed motor power	[W]	60	60	60
Floor space	[mm]	2500 x 1900	1900 x 2300	1900 x 2300
Weight	[kg]	1320	1680	1730



Micro-feed



Grinding wheel

KGS surface grinding machines are manufactured by the renowned KENT company. The grinders are intended for use in all production plants and for continuous running. State-of-the-art and strong design. The main bases cast from high quality iron. It makes the construction heavy and rigid and provides resistance to vibrations. The grinding machines come with a wide range of standard equipment. Hydraulic control of table longitudinal feed, infinitely variable speed adjustment.

AHD series grinders provide increased precision - accuracy of  $\pm 2$  microns.

SD1/SD2 series grinders come with PLC controller and a servomotor (SD1) which controls headstock vertical feed or optionally with a cross feed servomotor (SD2). Power vertical feed (0.001-0.1mm) enables coarse grinding, finishing grinding and sparking out in one working cycle. Power cross feed (0.001-0.1mm) enables precise grinding of workpiece's vertical edges, grooves and keys.

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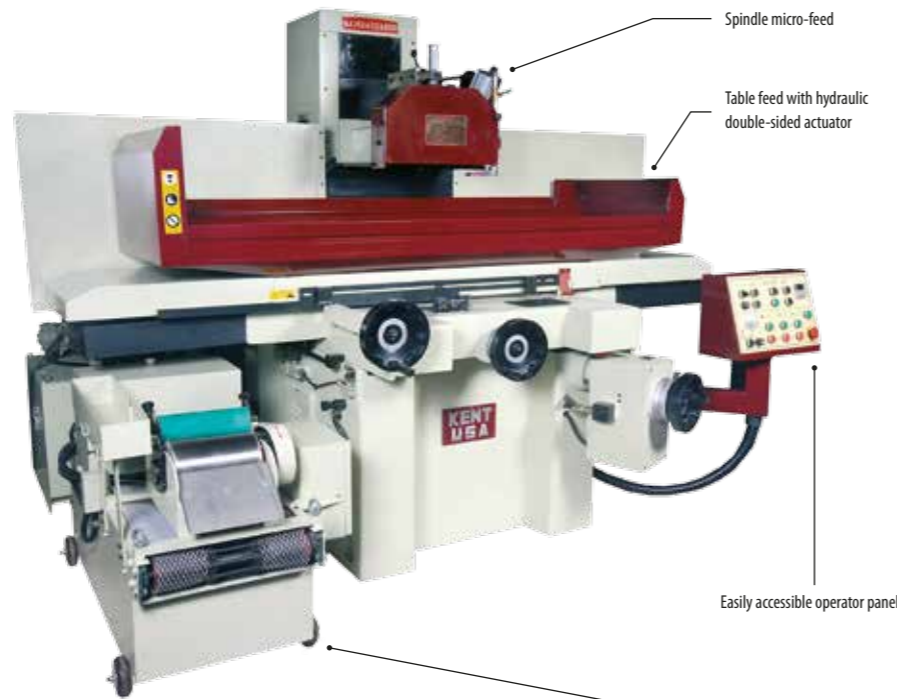
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**Standard equipment:**

- grinding wheel
- back shield
- electromagnetic table
- power feed on 2 axes
- micro-feed
- grinding wheel static balancer
- manual in English
- CE declaration of conformity

**Additional equipment:**

- table support after power outage
- UPS
- tool for parallel dressing of grinding wheels
- tool for dressing of grinding wheels at an angle
- Basic magnetic separator
- magnetic separator with a coolant pump and filter paper
- digital readout for 2 axes

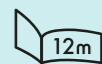


**Standard equipment:**

- grinding wheel
- back shield
- electromagnetic table
- power feed on 2 axes
- micro-feed
- grinding wheel static balancer
- manual in English
- CE declaration of conformity

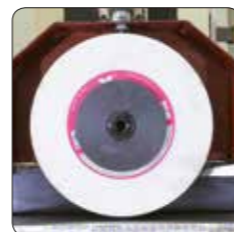
**Additional equipment:**

- table support after power outage - UPS
- tool for parallel dressing of grinding wheels
- tool for dressing of grinding wheels at an angle
- Basic magnetic separator
- magnetic separator with a coolant pump and a paper filter
- digital readout for 2 axes



Technical data:	Unit	KGS 1224AHD	KGS 1632 AHD	KGS 1640AHD
Table size	[mm]	300 x 600	400 x 800	400 x 1000
Longitudinal feed rate	[mm]	660	920	1120
Cross travel	[mm]	370	450	450
Distance between table surface and spindle centre	[mm]	540	600	600 mm
Max. table load	[kg]	420	700	700
Table mount T-slot	[mm]	1 x 14	3 x 14	3 x 14
Table speed	[m/min]	5 - 25	5 - 25	5 - 25
Cross feed (1 vernier scale interval)	[mm]	0,02	0,02	0,02
Cross feed (1 rev.)	[mm]	5	5	5
Cross power feed	[mm/min]	0,5 - 12	0,5 - 12	0,5 - 12
Cross skip feed (servomotor)	[mm/min]	790	790	790
Grinding wheel size	[mm]	355 x 40 x 127	355 x 40 x 127	355 x 40 x 127
Spindle speed range	[rpm]	1450	1450	1450
Manual spindle feed (1 rev.)	[mm]	0,5	0,5	0,5
Manual spindle feed (1 vernier scale interval)	[mm]	0,001	0,001	0,001
Vertical power feed	[mm]	0,005 - 0,025	0,005 - 0,025	0,005 - 0,025
Main motor power	[kW]	4	5,5	5,5
Vertical feed motor power	[W]	90	90	90
Hydraulic pump motor power	[kW]	2,2	2,2	2,2
Dust collection motor power	[W]	550	550	550
Coolant circulating pump motor power	[W]	90	90	90
Cross feed motor power	[W]	90	90	90
Floor space	[mm]	2600 x 2500	3600 x 2600	3600 x 2600
Weight	[kg]	1910	2850	2950

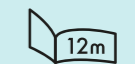
Magnetic separator or magnetic separator with a paper filter



Grinding wheel



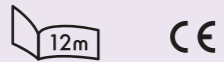
Control panel



Technical data:	Unit	KGS 510	KGS 515	KGS 615	KGS 620
Table surface	[mm]	500 x 1000	500 x 1500	600 x 1500	600 x 2000
Longitudinal feed rate	[mm]	1140	1600	1600	2230
Cross travel	[mm]	540	570	660	660
Distance between table surface and spindle centre	[mm]	590	590	600	600
Max. table load	[kg]	700	700	800	1500
Table mount T-slot	[mm]	3 x 16	3 x 16	3 x 16	3 x 16
Table speed	[m/min]	5 - 25	5 - 25	5 - 25	7 - 25
Cross feed (1 vernier scale interval)	[mm]	0,02	0,02	0,02	0,02
Cross feed (1 rev.)	[mm]	5	5	5	5
Cross power feed	[mm/min]	0,5 - 12	0,5 - 12	0,5 - 12	0,5 - 12
Cross skip feed rate	[mm/min]	1250	1250	1250	1250
Grinding wheel size	[mm]	355 x 40 x 127	355 x 50 x 127	355 x 50 x 127	355 x 50 x 127
Spindle speed range	[rpm]	1450	1450	1450	1450
Manual spindle feed	[mm]	0,5	0,5	0,5	0,5
Manual spindle feed (1 vernier scale interval)	[mm]	0,002	0,002	0,002	0,002
Vertical power feed	[mm]	0,005 - 0,04	0,005 - 0,04	0,005 - 0,04	0,005 - 0,04
Main motor power	[kW]	5,5	5,5	7,5	7,5
Vertical feed motor power	[W]	370	70	370	370
Hydraulic pump motor power	[kW]	2,2	2,2	5,5	5,5
Dust collection motor power	[W]	550	550	550	550
Coolant circulating pump motor power	[W]	90	90	90	90
Cross feed motor power	[W]	370	370	370	370
Floor surface	[mm]	4445 x 2200	5810 x 2445	5810 x 2445	6200 x 2700
Net weight	[kg]	5000	6000	6250	8500

# EUROMET 3WBH-S 3-ROLL PLATE BENDING MACHINES

The machine is intended for moderately intensive machining. Max. thickness of the workpiece - up to 10 mm. The machines are suitable for machining aluminium, ventilating ducts, tanks and shields.



### Standard equipment:

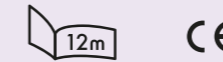
- 2 rolls driven by chains and worm gear
- strong rolls complying with SAE1050
- hardened rolls
- frame made from welded plates
- mobile control panel
- taper coil attachment
- pre-bending
- main motor with a brake
- central lubrication system
- digital readout
- upper roll hydraulic release system
- the machine complies with EU regulations, CE declaration of conformity
- manual in English



Technical data:	Rolls length	Pre-bending x1,5/x5	Plate thickness x1,5/x5	Upper and lower roll diameter	Crush roll diameter	Min. coiling diameter	Motor power	Coiling speed	Length	Width	Height	Weight
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kW]	[m/min]	[mm]	[mm]	[mm]	[kg]
10x80	1050	1,5/2	2/2,5	80	80	120-400	1,1+0,75	5	2600	850	960	900
12x80	1270	1/1,5	1,5/2	80	80	120-400	1,1+0,75	5	2870	850	960	920
12x100	1270	1,5/2	2/3	100	90	150-450	1,1+0,75	6,5	2870	850	960	1020
12x130	1270	3/4	4/5	130	130	195-650	1,5+0,75	5	2870	850	1110	1450
12x150	1270	4/5	5/7	150	130	225-750	2,2+1,1	6	2870	850	1110	1485
12x180	1270	5,5/7,5	7,5/10	180	150	270-900	3,0+1,1	5	2870	980	1290	1860
12x200	1270	8/10	10/12	200	180	300-1000	4,0+1,5	6	2870	980	1290	2060
15x80	1550	0,5/1	1/1,5	80	80	120-400	1,1+0,75	5	3100	850	960	1000
15x100	1550	1/1,5	1,5/2	100	90	150-450	1,1+0,75	6,5	3100	850	960	1100
15x130	1550	2,5/3,5	3,5/4,5	130	130	195-650	1,5+0,75	5	3100	850	1110	1525
15x150	1550	3,5/4,5	4,5/6,5	150	130	225-750	2,2+1,1	6	3100	850	1110	1585
15x180	1550	5/7	7/9	180	150	270-900	3,0+1,1	5	3100	980	1290	2000
15x200	1550	7/9	9/11	200	180	300-1000	4,0+1,5	6	3100	980	1290	2230
15x220	1550	8/10	10/12	220	180	330-1100	5,5+1,5	5	3100	1065	1370	3250
15x250	1550	10/12	12/15	250	200	375-1250	5,5+1,5	5	3100	1065	1370	3650
20x130	2050	2/3	3/4	130	130	195-650	1,5+0,75	5	3600	850	1110	1700
20x150	2050	3/4	4/6	150	130	225-750	2,2+1,1	6	3600	850	1110	1800
20x180	2050	4/6	6/8	180	150	270-900	3,0+1,1	5	3600	980	1290	2300
20x200	2050	6/8	8/10	200	180	300-1000	4,0+1,5	6	3600	980	1290	2600
20x220	2050	7/9	9/11	220	180	330-1100	5,5+1,5	5	3600	1065	1370	3700
20x250	2050	8/10	10/12	250	200	375-1250	5,5+1,5	5	3600	1065	1370	4200
25x150	2550	2/3	3/4	150	130	225-750	2,2+1,1	6	4100	850	1110	2015
25x180	2550	3/4	4/6	180	150	270-900	3,0+1,1	5	4100	980	1290	2600
25x200	2550	4/6	6/8	200	180	300-1000	4,0+1,5	6	4100	980	1290	2970
25x220	2550	5/7	7/9	220	180	330-1000	5,5+1,5	5	4100	1065	1370	4150
25x250	2550	6/8	8/10	250	200	375-1250	5,5+1,5	5	4100	1065	1370	4750
31x180	3050	2/3	3/4	180	150	270-900	3,0+1,1	5	4650	980	1290	2900
31x200	3050	3/4	4/6	200	180	300-1000	4,0+1,5	6	4650	980	1290	3340
31x220	3050	4/6	6/8	220	180	330-1100	5,5+1,5	5	4650	1065	1370	4600
31x250	3050	5/7	7/9	250	200	375-1250	5,5+1,5	5	4650	1065	1370	5300

# EUROMET EUROMET 4WBH-M 4-ROLL PLATE BENDING MACHINES

WBH series 4-rolls plate bending machine is intended for coiling medium thick steel and stainless sheets. The machines enable full coiling and making arches. The machine also enables coiling tapers. Hydraulic drives and feed makes the operation easy and operator-friendly.

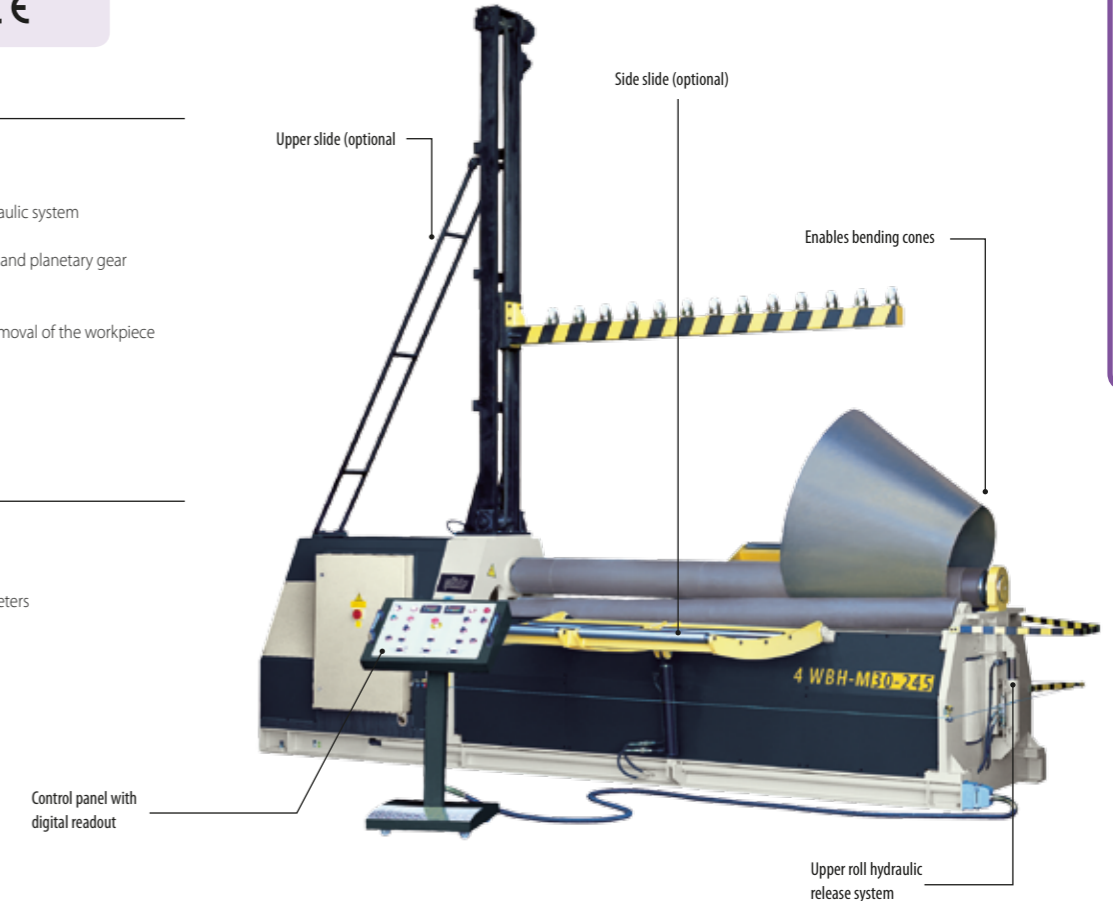


### Standard equipment:

- induction hardened rolls
- bottom and side rolls driven by hydraulic system
- overload protection
- upper roll driven by hydraulic motor and planetary gear
- mobile control panel
- digital readout
- hydraulic drop-end enabling easy removal of the workpiece
- central lubrication system
- taper coil attachment
- two working speeds
- manual in English
- CE declaration of conformity

### Additional equipment:

- NC or CNC system
- central rest enables boring big diameters
- hydraulic side slides
- polished rolls for special operations
- infinitely variable coiling adjustment



Technical data	Working length	No pre-bending		Pre-bending		Centre roll diameter	Side roll diameter	Motor power	Rolling speed	Dimensions	Weight
/4 WBH-M		min. coiling diameter 5x upper roll diameter	min. coiling diameter 5x upper roll diameter	min. coiling diameter 5x upper roll diameter	min. coiling diameter 1,5x upper roll diameter						
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kW]	[m/min]	[mm]	[mm]
10-150	1050	8	6	6	4	150	130	4	1,5-6	3100 x 860 x 1150	1850
10-170	1050	9	7	7	5	170/160	150	4	1,5-6	3100 x 860 x 1150	2100
15-150	1550	6	4	4	3	150	130	4	1,5-6	3600 x 860 x 1150	2250
15-170	1550	8	6	6	4	170/160	150	4	1,5-6	3600 x 860 x 1150	2500
20-150	2050	4	3	3	2	150	130	4	1,5-6	4100 x 860 x 1150	2650
20-170	2050	6	4	4	3	170/160	150	4	1,5-6	4100 x 860 x 1150	2900
20-190	2050	8	6	6	4	190	150	5,5	1,5-6	4100 x 1030 x 1300	3500
20-220	2050	10	8	8	6	220	160	5,5	1,5-6	3750 x 1180 x 1300	4000
20-245	2050	13	10	10	8	245	180	7,5	1,5-6	4000 x 1550 x 1500	5100
20-260	2050	16	13	13	10	260	200	7,5	1,5-6	400 x 1590 x 1600	5970
10-150	1050	8	6	6	4	150	130	4	1,5-6	3100 x 860 x 1150	1850
10-170	1050	9	7	7	5	170/160	150	4	1,5-6	3100 x 860 x 1150	2100
15-150	1550	6	4	4	3	150	130	4	1,5-6	3600 x 860 x 1150	2250
15-170	1550	8	6	6	4	170/160	150	4	1,5-6	3600 x 860 x 1150	2500
20-150	2050	4	3	3	2	150	130	4	1,5-6	4100 x 860 x 1150	2650
20-170	2050	6	4	4	3	170/160	150	4	1,5-6	4100 x 860 x 1150	2900
20-190	2050	8	6	6	4	190	150	5,5	1,5-6	4100 x 1030 x 1300	3500
20-220	2050	10	8	8	6	220	160	5,5	1,5-6	3750 x 1180 x 1300	4000
20-245	2050	13	10	10	8	245	180	7,5	1,5-6	4000 x 1550 x 1500	5100
20-260	2050	16	13	13	10	260	200	7,5	1,5-6	400 x 1590 x 1600	5970



# EUROMET ZRN 1020/2.5, ZRN 1072/2 MANUAL BENDING MACHINE

Manual plate bending machine with welded design is intended for small workshops and roofing works. Sturdy and strong design.

Welded design provides fault-proof, simple and safe operation.  
The machine may be equipped with retracting springs (optional).  
The bending machine comes with a footswitch.

**Standard equipment:**

- manual in English
- upper and bottom blade



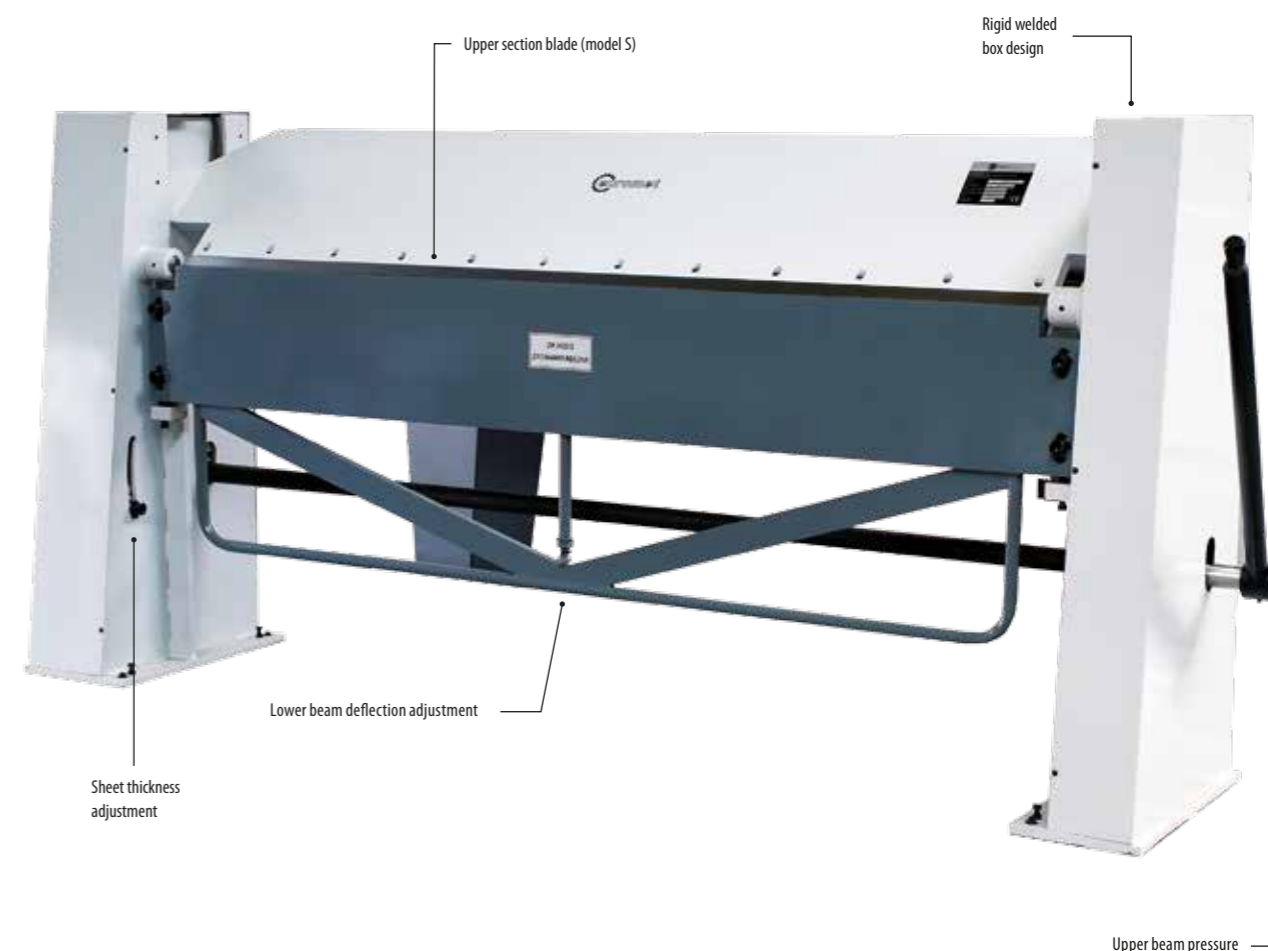
Technical data:	Unit	ZRN 1020/2.5	ZRN 1072/2
Max. working length	[mm]	1020	1270
Max. metal thickness	[mm]	2.5	2.0
Max. bore	[mm]	46	46
Bending angle	[°]	0-135	0-135
Dimensions	[mm]	1460 x 620 x 1270	1700 x 710 x 1270
Net weight	[kg]	285	320

# EUROMET ZR 2020/2S, ZR 2020/2 MANUAL BENDING MACHINE

The machines are intended for sheet metal works. The machine's construction is rigid and strong and all versions come with counterweight which facilitate the bending process. Adjusted gap depending on the sheet thickness.

**Standard equipment:**

- manual in English
- upper blade (section blade in S model) and bottom blade



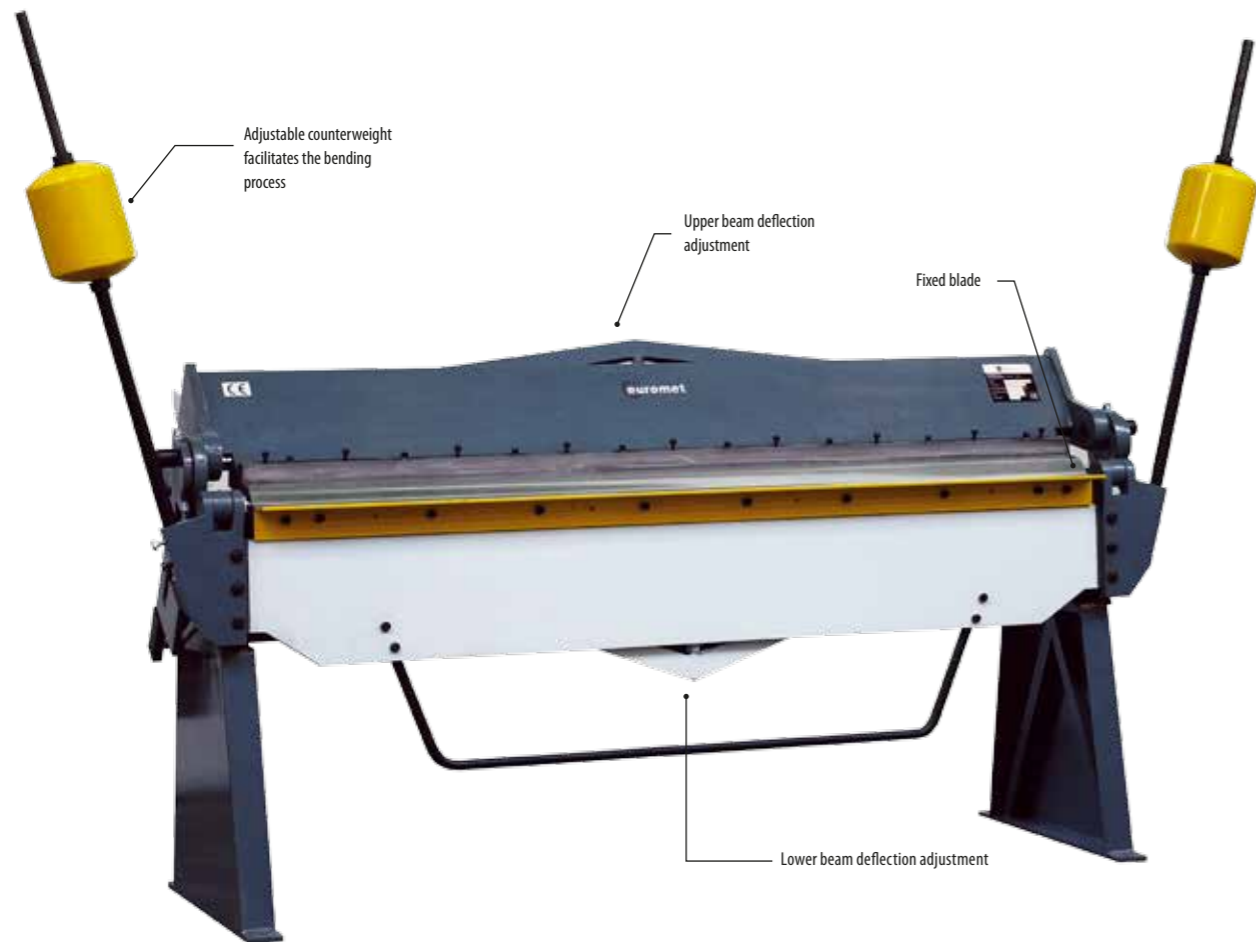
Technical data:	Unit	ZR 2020/2 S	ZR 2020/2
Length	[mm]	2020	2020
Thickness	[mm]	2	2
Angle	[°]	0-135	0-135
Dimensions	[mm]	2800 x 710 x 1500	3080 x 800 x 1500
Net weight	[kg]	1020	1020



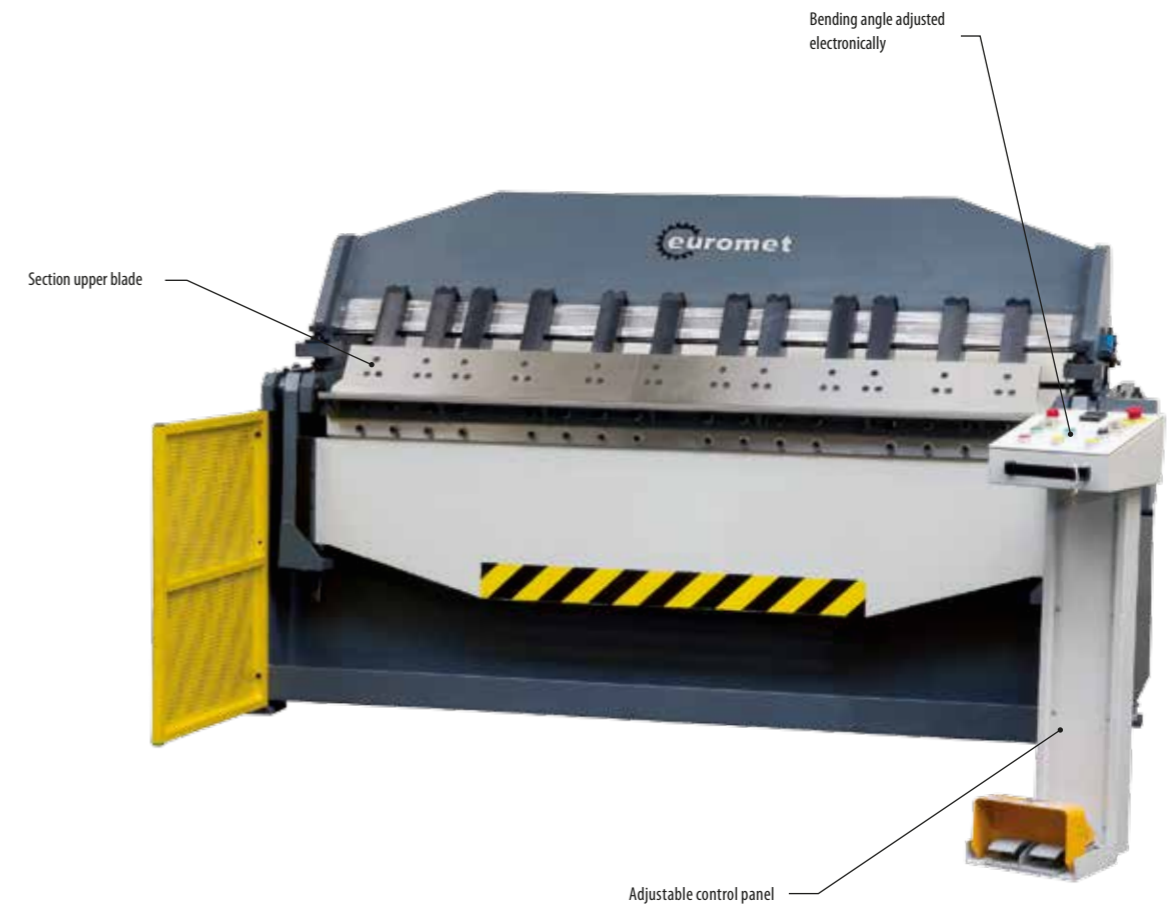
Bending angle adjustment

ZR series bending machines enable standard bending operations. Low upper beam makes the machine suitable for bending ducts and sections. Adjustable counterweight facilitates the bending process. The bending machine is also equipped with adjustable stop enabling machining series of identical details.

**Standard equipment:**  
- upper and bottom blade  
- manual in English

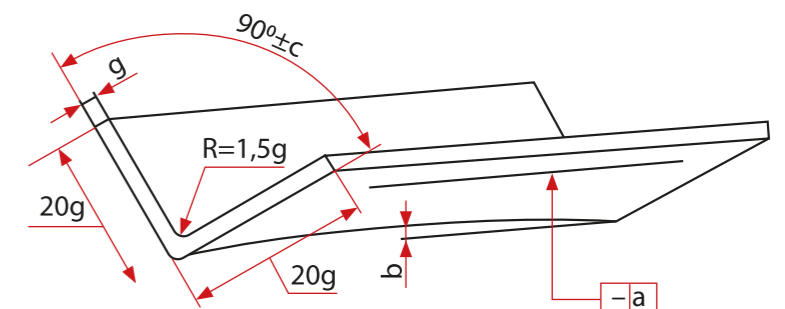


The machines are intended for manufacturing sheet-metal sections. Additional tools enable producing boxes, bending sheet edges etc. The machine comes with a hydraulic unit which ensures precision and reliable operation. The machines are suitable for all users.



**Standard equipment:**  
- manual back stop  
- bending angle adjusted electronically  
- upper section blade  
- adjustable control panel  
- manual in English  
- CE declaration of conformity

**Additional equipment:**  
- section and special bars  
- CE declaration of conformity



Because of varying properties of materials and their response to bending, especially for long, narrow and thin materials, we recommend considering press brakes with deflection compensation which provides higher quality of bending.

**Bending accuracy:**  
Material:  $R_m \leq 400\text{MPa}$ , ( $R_p \leq 250\text{MPa}$ )  
Bending angle:  $\alpha=90^\circ$   
Bended section:  $L(20g \times 20g) \times g \times s$  (bending length) mm

**Measurement deviations:**  
 $a = 1,0\text{mm}$   
 $b = 1,5\text{mm/m}$   
 $c = 1,5^\circ$

Technical data:	Unit	ZR 2040/2.0	ZR 2040/2.5	ZR 2540/2.0	ZR 2540/2.5
Max. sheet length	[mm]	2040	2040	2540	2540
Max. sheet thickness	[mm]	2.0	2.0	2.5	2.5
Bending angle	[°]	0-135°	0-135°	0-135°	0-135°
Dimensions	[mm]	2500 x 770 x 1100	2500 x 7700 x 1100	3000 x 770 x 1100	3000 x 770 x 1100
Net weight	[kg]	820	1010	950	1160

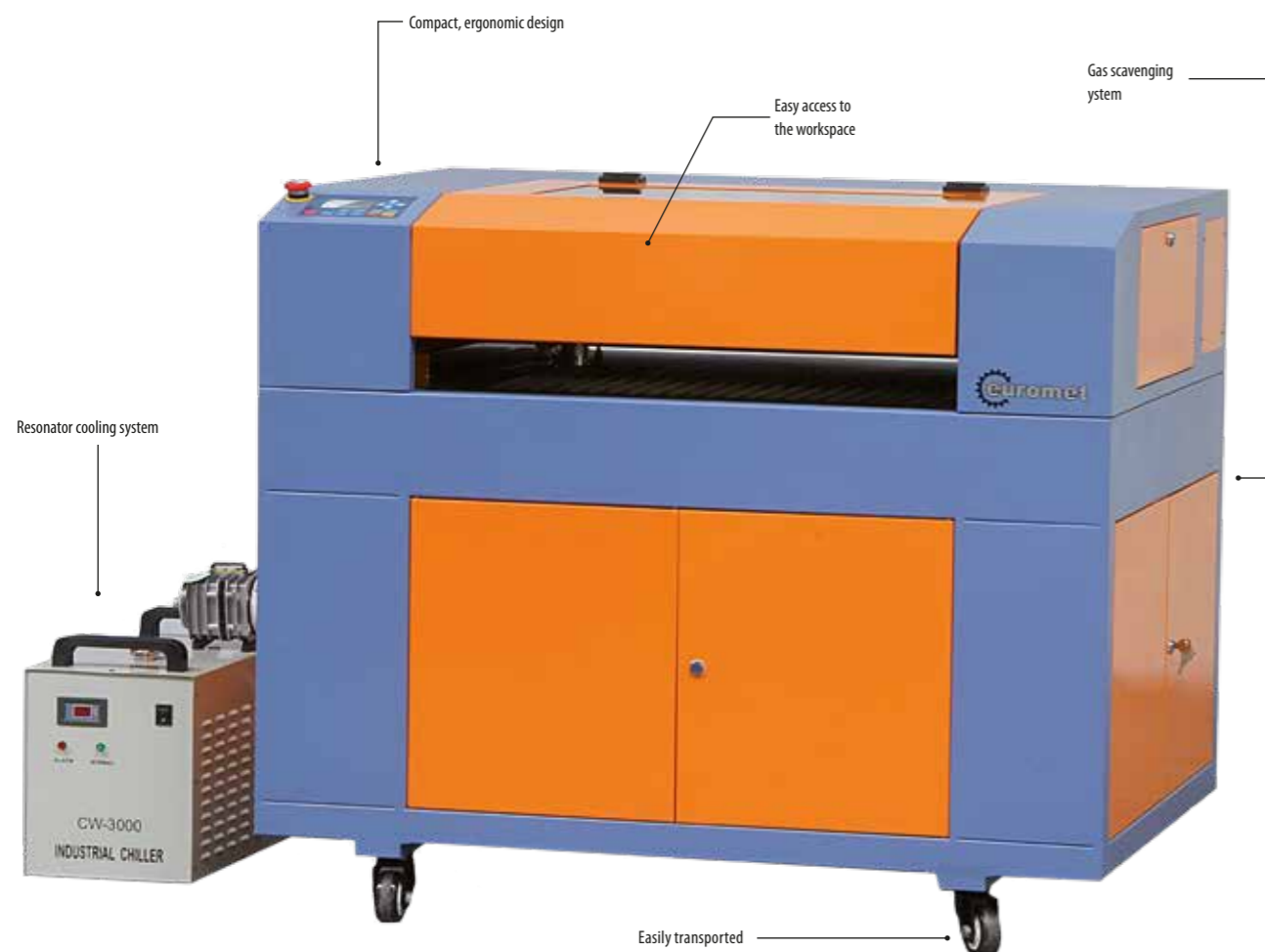
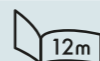
Technical data:	Unit	ZH 4x2500	ZH 5x2000	ZH 4x3050
Bend length	[mm]	2500	2000	3050
Steel	[mm]	0,5 - 4	0,5 - 5	0,5 - 4
Stainless steel	[mm]	0,5 - 2	0,5 - 2,5	0,5 - 2
Bending angle	[°]	120	120	120
Upper beam (lift) range	[mm]	140	140	140
Motor power	[kW]	5,5	5,5	5,5
Dimensions	[mm]	3200 x 800 x 1500	2600 x 800 x 1500	3750 x 1000 x 1500

## EUROMET F7, F9, F12, F18, F25 LASER ENGRAVING MACHINE

The machine intended for materials such as: plastics (ABS, PVC, acrylic), glass, wood, and other non-metallic materials. Such machines are suitable mostly for advertising companies, R&D departments, manufacturers of packaging, punching dies and service companies. The machine supports all the most popular formats like: DXF, BMP, PLT.

### Standard equipment:

- stepper motors
- belt transmission
- water cooling
- fumes extractor
- manual in English
- CE declaration of conformity



Technical data:	Unit	F7	F9	F12	F18	F25
Workspace	[mm]	700	900	1200	1800 mm	1300 mm
	[mm]	500 mm	600 mm	900 mm	1200 mm	2500 mm
Laser power	[W]	40	60	80	80	100
Horn type	[-]			10.6nm, CO <sub>2</sub> , water cooling		
Construction	[-]			honeycomb/cutting		
Drive x, y	[-]			stepper motors in X/Y axes		
Dimensions	[mm/DPI]			resolution 0.025/1200		
Working speed	[mm/s]			0-1200		
Supported formats:	[-]			BMP, JPEG, GIF, TIFF, PCX, PLT, AI, TGA, DFX etc.		
Laser control	[-]			1-100% handling and adjustment		
Equipment	[-]			Fumes extractor		
Working conditions	[V/Hz]			AC220V/50Hz, 5%-95% without water vapour		
Net weight	[kg]	115	168	200	400	800

## EUROMET S9 ENGRAVING MACHINE

The machine intended for materials like: plastics (ABS, PVC, acrylic), glass, marble, wood, aluminium and copper. Such machines are suitable mostly for advertising companies, R&D departments, manufacturers of packaging, punching dies and service companies. The machine supports all the most popular formats like: Type3, Artcam, Mastercam, UG, wentai, DXF etc.

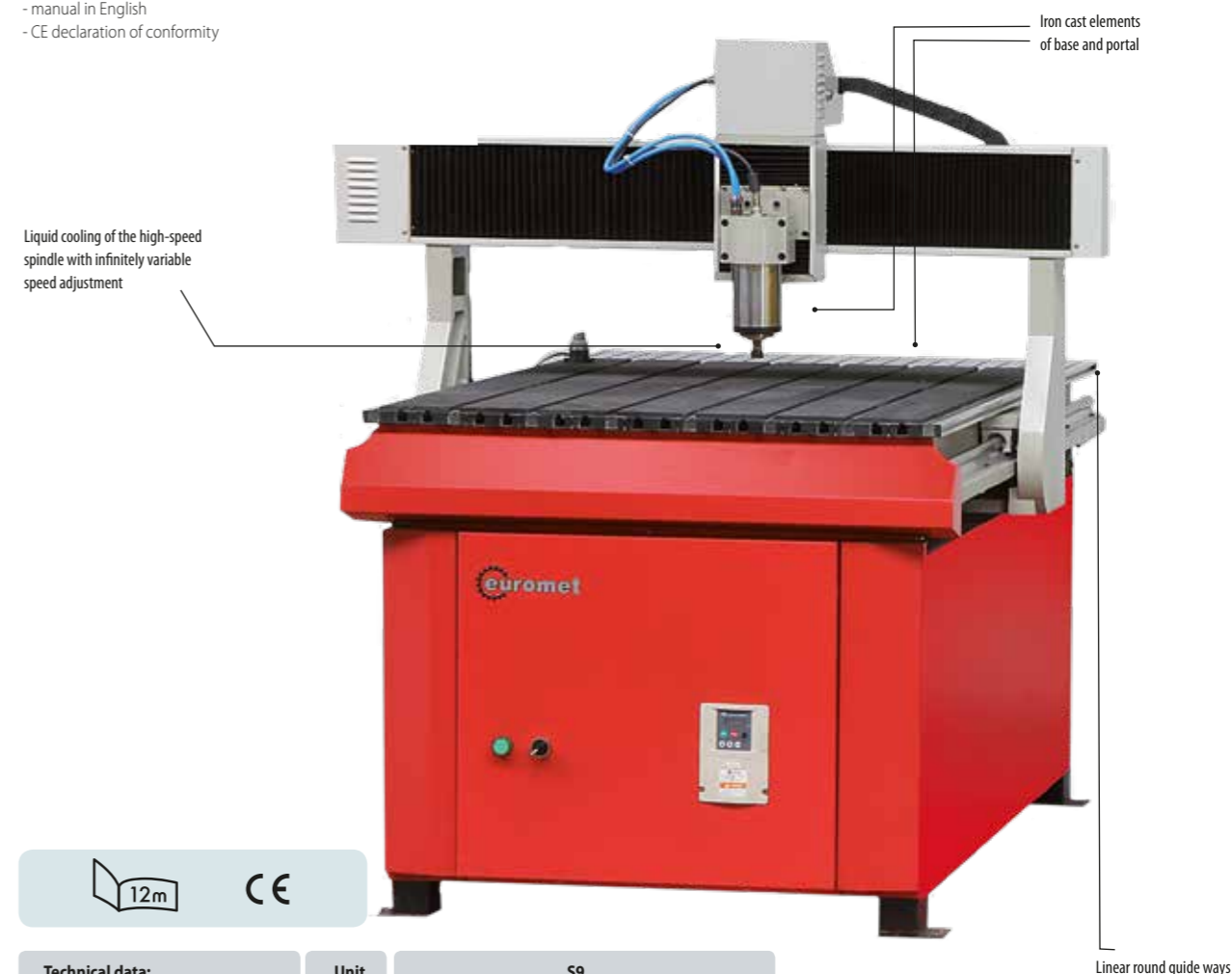
Axes driven by stepping motors which ensure precision, efficiency and low noise level.

X, Y, Z axes ball screws provide accurate positioning. Water cooled spindle. The machine is compatible with the popular software like: Type3, Artcam, Mastercam, UG, wentai, etc.

### Standard equipment:

- ball screws on all axes
- stepper motors
- water cooling of the spindle
- table with T-slots
- Ncstudio control system
- manual in English
- CE declaration of conformity

Liquid cooling of the high-speed spindle with infinitely variable speed adjustment



Technical data:	Unit	S9
Working area (x, y, z)	[mm]	800 x 900 x 80
Worktable	[mm]	820x1200
Frame	[-]	steel welded plates
Spindle power	[W]	800 with an inverter (liquid cooling system)
Transmission	[x,y,z]	Ball screws
Axes motor	[-]	stepper motor
Power supply	[Hz]	AC230V±10%/50Hz
Spindle rotational speed	[rpm]	24000
X,Y,Z axes re-positioning accuracy	[mm]	0.01
Working speed	[m/min]	6
Control unit	[-]	ncstudio na Win98/Win2000/XP
Compatible software	[-]	Type3, Artcam, Mastercam, UG, wentai, etc.
Interface	[-]	Karta PCI
Control type	[-]	3D format (G code, nc, plt, hppl, dxf)
Weight	[kg]	300
Box dimensions	[mm]	1400 x 1500 x 1400
Working conditions	[°C, %]	Temperature: 0-40°, Humidity: 10-70

### Additional equipment:

- vacuum table
- servomotor driven axes
- tool probe
- dust extractor



# EUROMET GDP 30, GDP 50 SECTION BENDIG MACHINE

GDP30 and GDP50 enable bending and grinding of pipes and sections of big radii and are suitable for all kinds of workshops. In GDP30 the upper beam is positioned manually, while GDP50 is equipped with hydraulic positioning



- Standard equipment:**
- 2 driven rollers
  - hardened rollers
  - vertical and horizontal working position
  - standard set of rollers
  - manual in English
  - CE declaration of conformity

- Additional equipment:**
- supplementary set of rollers
  - additional soft material rollers
  - rod bending tool

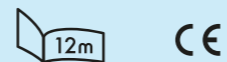


Technical data:	Unit	GDP 30
Shaft diameter	[mm]	ø 30
Lower rollers diameter	[mm]	ø 118
Upper roller diameter	[mm]	ø 148
Working speed	[m/min]	3-6
Motor power	[kW]	0,7
Size LxWxH	[mm]	650x500x1400
Weight	[kg]	215



- Standard equipment:**
- 3 driven rollers
  - hardened rollers
  - upper roll hydraulic feed
  - vertical and horizontal working position
  - standard rollers
  - manual in English
  - CE declaration of conformity

- Additional equipment:**
- additional rollers
  - additional soft material rollers
  - side rollers
  - NC system



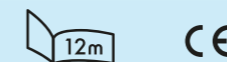
Technical data:	Unit	GDP 50
Shaft diameter	[mm]	ø 50
Lower rollers diameter	[mm]	ø162
Upper roller diameter	[mm]	ø152
Working speed	[m/min]	4,5
Upper roller pressure	[T]	8
Motor power	[kW]	0,75
Size LxWxH	[mm]	810x950x1500
Weight	[kg]	500

# EUROMET GDP 80, GDP 100 SECTION BENDIG MACHINE

Bending machines with three driven rollers, hydraulic lower rollers clamp and digital readouts.

- Standard equipment:**
- 3 driven rollers
  - hardened rollers
  - lower rolls hydraulic feed
  - vertical and horizontal working position
  - standard rollers
  - side rollers
  - digital position readout
  - manual in English
  - CE declaration of conformity

- Additional equipment:**
- additional set of rollers
  - soft material rollers

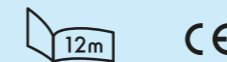


Technical data:	Unit	GDP 80
Upper roller shaft diameter	[mm]	ø 80
Lower rollers shaft diameter	[mm]	ø 70
Lower rollers diameter	[mm]	ø 245
Upper roller diameter	[mm]	ø 245
Working speed	[m/min]	6
Motor power	[kW]	4
Size LxWxH	[mm]	1450x1000x1400
Weight	[kg]	1700



- Standard equipment:**
- 3 driven rollers
  - hardened rollers
  - lower rolls hydraulic feed
  - vertical and horizontal working position
  - standard rollers
  - side rollers
  - digital position readout
  - manual in English
  - CE declaration of conformity

- Additional equipment:**
- additional set of rollers
  - soft material rollers
  - hydraulic side rollers



Technical data:	Unit	GDP 100
Shaft diameter	[mm]	ø 100
Lower rollers diameter	[mm]	ø 315
Upper roller diameter	[mm]	ø 315
Working speed	[m/min]	7
Motor power	[kW]	7,5
Size LxWxH	[mm]	2000x1450x1700
Weight	[kg]	3650



UNIBEND series pipe bending machines are suitable for piece and small-lot production in automotive or furniture industry, for architectural purposes or for making gardening tools. Main bending die is driven by reduction gear and electric motor. The machine works in two modes: manual and semi-automatic. Simple and strong construction enables long, fault-free work and ensures easy operation. In UNI-40 and UNI-70 bending machines a bended section is clamped to the bending die by die clamped by screw. 70 Auto series machines are additionally equipped with 2.2 kW, 1,400 rpm hydraulic pump. The workpiece is clamped to the bending die by a hydraulic actuator. It is also equipped with a screw for distance adjustment.



UNI-40



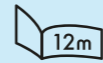
UNI-70



UNI-70AUTO

#### Standard equipment:

- 40 and 40 Auto series machines come with bending dies with a diameter of: 16, 20, 25, 32, 40 mm
- 70 and 70 Auto series machines come with bending dies with a diameter of: 40, 50, 70 mm
- manual in English
- CE declaration of conformity



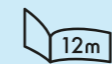
HUTH HB10 is a tough and dependable machine. Simple construction ensures easy operation and maintenance. For a low price you get a machine with a full set of tools enabling bending pipes of diameter up to 76 mm. Heading function of the machine makes it suitable for e.g. piece production of exhaust systems.

#### Main features: HUTH HB10

- Bending depth adjusted manually
- Power - 25 tonnes - enables bending pipes up to 76mm in diameter.
- Tool tray
- Bending die retainer
- Heavy-duty expander
- Rigid and strong I-beam construction
- safety guards package
- power supply: 230 V, 50 Hz, 20 A
- Weight: around 658 kg
- Dimensions (L x W x H): 1,524 x 660 x 1,016 cm
- Clamp: 25 tons
- Motor power: 3.7 kW

#### Standard tool set:

- Bending die for pipes of diameter: 76,2/63,5/57,15/50,8 mm on radius 127mm
- Bending die for pipes of diameter: 57,15/50,8 mm on radius 101.6mm
- Bending die for pipes of diameter: 44,45/38.1 mm on radius 76.2mm
- Long buffing pipe die: 76.2/63.5/57.15/50.8/44.45/38.1 mm - 2 pieces
- Long buffing pipe die: 63.5/57.15/50.8/44.45/38.1 mm
- Sleeve 63.5/57.15/50.8/44.45/38.1 mm
- Domer die 44,45 - 63,5/66,67mm - 69,85 mm
- Female ball die 44,45 - 50,8/66,67mm - 63,5 mm
- Male ball die 44,45 mm: swelling 50,8 mm
- Male ball die 50,8 mm: swelling 57,15 mm
- Male ball die 57,15mm: swelling 63,5 mm
- Male ball die 63,5 mm: swelling 69,85 mm
- Heading die 38,1/44,45 mm
- 2 mandrel ends
- Reduction 34,9 - 44,45/44,45 - 53,9/53,9 - 63,5/63,5 - 76,2 mm
- Die spring
- O-rings set
- Die holder
- Die holder bolt
- 30 die holder bolts
- 2 long buffing die distances
- 1 short buffing die distance
- Tools set



Technical data:	Unit	UNI-40	UNI-70	UNI-40AUTO	UNI-70AUTO
Max. bended pipe diameter	[mm]	ø 40	ø 70	ø 40	ø 70
Max. size of square profile	[mm]	40 x 40 x 1	50 x 50 x 1	40 x 40 x 1	50 x 50 x 1
Max. bending angle	[°]	180	180	180	180
Bending die rotational speed during bending	[rpm]	1,2	1,2	1,2	1,2
Bending die return rotational speed	[rpm]	2,4	2,4	2,4	2,4
Main motor power	[kW]	3	5	2,2	5,5
External dimensions	[mm]	720 x 450 x 800	1300 x 700 x 900	950 x 760 x 1000	1300 x 700 x 900
Weight	[kg]	245	680	350	860

Bended pipe diameter	Min. wall thickness	Max. wall thickness	Square section size	Min. wall thickness	Max. wall thickness
≤ 25,4 mm	0,91 mm	pełny przekrój	19,05 mm i 25,4 mm	1,24 mm	3,04 mm
28,6 mm - 38,1 mm	1,24 mm	pełny przekrój	31,75 mm	2,11 mm	4,76 mm
41,3 mm - 44,5 mm	1,65 mm	pełny przekrój	38,1 mm	3,04 mm	6,35 mm
47,6 mm - 50,8 mm	1,65 mm	pełny przekrój	50,8 mm	1,65 mm	-
50,9 mm - 63,5 mm	1,88 mm	2,28 mm	57,15 mm	1,88 mm	-
69,85 mm - 76,2 mm	1,88 mm	1,88 mm	63,8 mm	1,88 mm	-

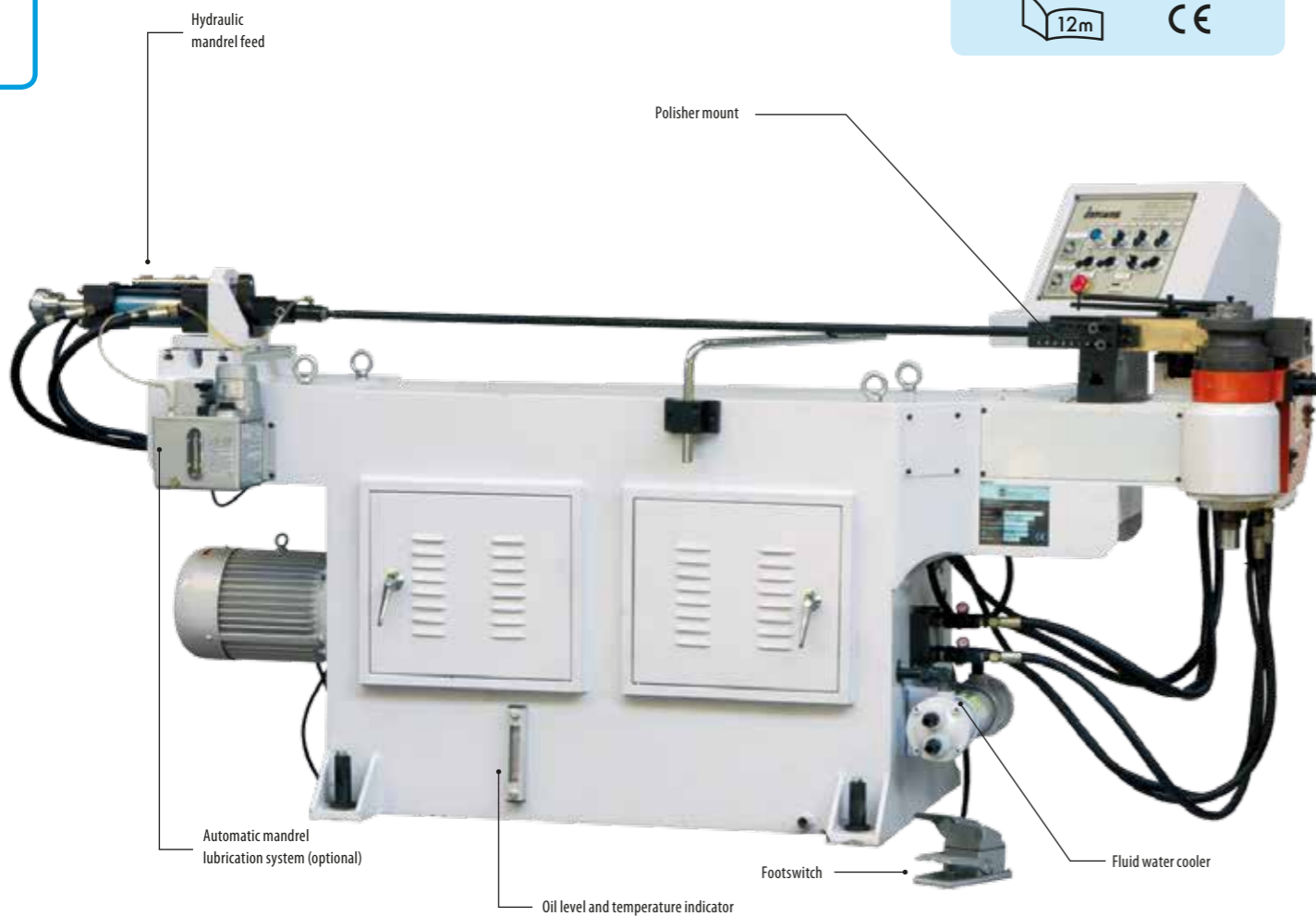
Innovas machines are economical, easy to operate and reliable benders with mandrel, conventional control, which may be upgraded to NC system. They are suitable for piece and small lot production of simple pieces. Standard manual control enables setting two repetitive bending sequences for one piece. Strong and efficient hydraulic drive. Makes operator's work as easy as possible. Hydraulic fluid water cooler enables continuous work even in poor conditions (high temperature).

**Standard equipment:**

- conventional control
- hydraulic fluid water cooler
- mandrel guidance
- polisher mount
- CE declaration of conformity
- manual in English

**Additional equipment:**

- booster servomotor for better bending
- mandrel automatic lubrication system
- mandrel retract system
- 4 stops for bending length adjustment
- NC system enabling saving up to 560 programmes (each program allows for up to 9 bending operations)
- machine may be extended
- increased bending angle
- bending tools available on special request



Technical data:	Unit	SC-25	SC-39	SC-52	SC-63	SC-76	SC-90	SC-110	SC-125
Steel pipe size (CLR 1.5D)	[mm]	ø25.4x2t	ø38.1x2t	ø58.8x2t	ø63.5x2.5t	ø76.2x2.5t	ø90x3.0t	ø110x3.5t	ø125x4t
Stainless steel pipe size (CLR 1.5D)	[mm]	ø25.4x0.8t	ø31.75x1.5t	ø44.44x1.8t	ø50.8x2.0t	ø63.5x2.0t	ø76.2x2.5t	ø108x3.5t	ø125x3.5t
Max. mandrel length	[mm]	1450	1650	2210	2600	2700	2800	3800	4100
Max. bend radius	[mm]	100	180	250	250	300	350	400	520
Bending angle	[°]	190	190	190	190	190	190	190	190
No. of pipe bends (for NC)	[-]	9	9	9	9	9	9	9	9
Max. No. of programmes (for NC)	[-]	560	560	560	560	560	560	560	560
Motor power	[kW]	4	4	5.5	5.5	7.5	11	15	22
Max. system pressure	[MPa]	12	12	14	14	14	16	18	18
Oil tank capacity	[l]	100	150	180	200	250	300	400	500
Dimensions (LxWxH)	[mm]	2200x900x1200	2550x800x1220	3200x900x1300	3700x900x1300	3500x1200x1200	4700x1250x1300	5400x1800x1400	5900x1900x1470

SOCO SB series bending machines are equipped with NC system and a touch screen. It enables easy, intuitive operation and precise bending. Semi-automatic bending machines are suitable for small and medium businesses.

**Main features:**

- NC system with touch screen
- Up to 9 bending angles may be programmed
- Simple operator's interface and data transmission
- Up to 500 programmes
- Precise bending +/- 0,15°
- Self-diagnosis, error messages on-screen display
- The machines suitable for bending steel, stainless steel, aluminium, copper 4 or 8 length stops (optional)

**Standard equipment:**

- NC system with touch screen
- hydraulic servomotor for better bending
- mandrel automatic lubrication system
- mandrel retract system
- manual in English
- CE declaration of conformity

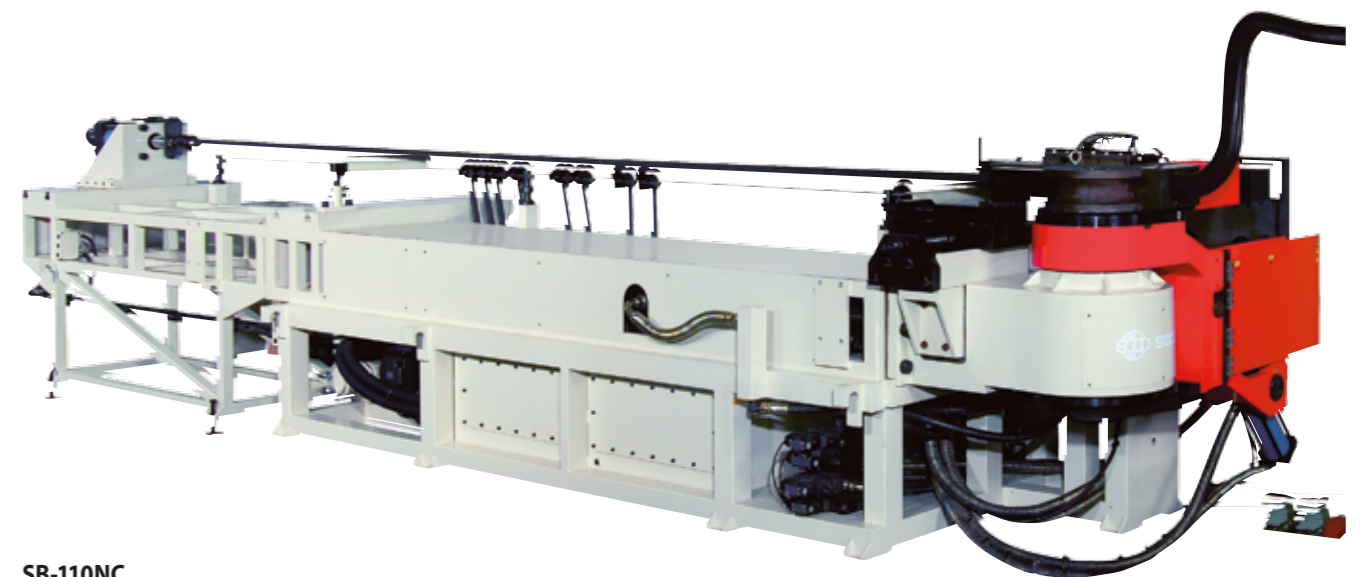
**Additional equipment:**

- mechanical length stops
- additional servomotor for bending die
- arms supporting the bending arm
- additional tools for bending pipes and sections



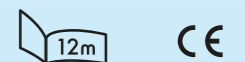
**SB-80NC**

Bending machine with NC and touch screen. Max. pipe diameter [mm] Ø 88.9mm



**SB-110NC**

Bending machine with NC and touch screen. Max. pipe diameter [mm] Ø 114.3 mm  
Longer bed (optional)



Technical data:	Unit	SB-38NC	SB-50NC	SB-63NC	SB-80NC	SB-110NC	SB-130NC
Max. bended pipe diameter (steel)	[mm]	Ø 38.1 x 2.0t	Ø 50.8 x 3.0t	Ø 63.5 x 2.5t	Ø 88.9 x 2.3t	Ø 110 x 2.8t	Ø 127 x 4.0t
Max. bended pipe diameter (stainless steel)	[mm]	Ø 38.1 x 1.4t	Ø 50.8 x 2.0t	Ø 63.5 x 1.6t	Ø 76.2 x 2.2t	Ø 101.6 x 4t	Ø 120 x 3.0t
Max. section size	[mm]	38 x 25 x 2.0t	40 x 20 x 2.3t	60 x 30 x 3.2t	75 x 45 x 3.2t	76.2 x 76.2 x 2.2t	101.6 x 101.6 x 3t
Max. pipe+mandrel length*	[mm]	2180	2600	2850	2850	3600	5200
Max. bend radius *	[°]	200	250	250	250	400	500
Max. bend angle	[°]	185	185	185	185	190	190
Bends per pipe	[-]	9	9	9	9	9	9
Gross weight	[kg]	900	1400	1650	3150	7200	10000
Dimensions	[mm]	2500x730x1020	3800x850x1030	3800x850x1030	3760x1960x1230	6400x1350x1500	7000x2150x1560

SOCO AUTO series bending machines are equipped with PLC system and a touch screen. Simple and intuitive operation, precise bending. SOCO AUTO series bending machines are the only economical machines equipped with simple, intuitive CNC system. 3 driven axes, 2 are driven by servo motor, ensure automatic operation and machining on many complex details. Those are the cheapest CNC machines.

**Standard equipment:**

- standard set of tools for mandrel mounting
- hydraulic mandrel retraction system
- mandrel automatic lubrication system
- hydraulic supporting mandrel system
- PLC system with touch screen
- SOCO software
- control panel
- manual in English
- CE declaration of conformity



**Main features:**

- PLC system with touch screen
- YBC and XYZ data input
- Conversion of data from XYZ to YBC
- 8 simultaneous axes movements sequences
- Up to 88 configurations may be programmed
- Up to 15 bending may be programmed in one program
- One bending level
- Y, B axes (feed, turn) driven by servo motors, speed of each may be programmed, hydraulic drive of C axis
- Die clamp: supporting/grip/polishing
- Two feed modes: positive and feed
- Central lubrication system of moving sub-assemblies and mandrel automatic lubrication system
- Control panel on adjustable arm

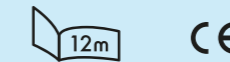
SOCO 2B series bending machines are equipped with CNC system and servomotor drives for 2 axes. Simple and intuitive operation, precise bending.

**Main features:**

- CNC system with touch screen
- YBC and XYZ data input
- Conversion of data from XYZ to YBC
- Feed and turn driven by servo motors, which ensure reliability, precision and efficiency
- Electric system with a cooling system
- Mandrel automatic lubrication system which prolongs its life and improves bending precision
- Automatic material elasticity compensation
- Polishing die rest
- Mandrel retraction system
- Control panel on adjustable arm
- Colour 3d screen
- Motor helps in the process of bending

**Standard equipment:**

- mandrel retraction system
- mandrel automatic lubrication system
- central lubrication system
- bending die support system
- adjustable control panel
- manual in English



SB90 Auto



Technical data:	Unit	SB-39Auto	SB-63Auto	SB-90Auto
Max. bended pipe diameter (steel)	[mm]	Ø38.1 x 2.0t	Ø63.5 x 2.5t	Ø88.9 x 2.3t
Max. bended pipe diameter (stainless steel)	[mm]	Ø38.1 x 1.4t	Ø63.5 x 1.6t	Ø88.9 x 1.5t
Max. feed	[mm]	1800	2030	2350
Mandrel length	[mm]	2650	3200	3800
Max. bend angle	[°]		190	
Bends per pipe	[-]		15	
Bending speed	[°/s]	70	45	35
Pipe rotation speed	[°/s]		120	
Feed speed	[mm/s]	700	700	600
Bending accuracy	[°]		+/- 0.2	
Turn accuracy	[°]		+/- 0.15	
Feed accuracy	[°]		+/- 0.25	
Main motor power	[KM]	5	10	15
Weight	[kg]	1800	2500	4500
Dimensions	[mm]	3500 x 1160 x 1120	370 x 1240 x 1170	5100 x 1700 x 1200

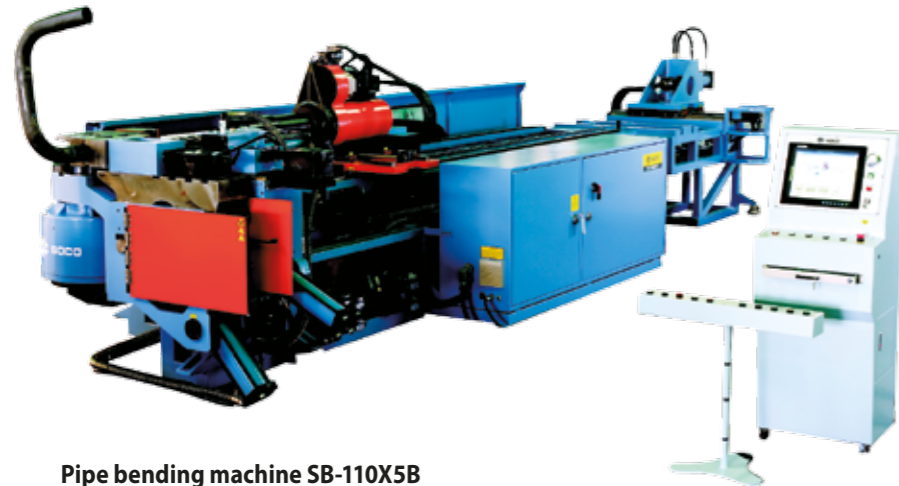
SB-90x2B-1S



Technical data:	Unit	SB-76x2B-1S (2S)	SB-90x2B-1S	SB-110x2B-1S	SB-127x2B-1S
Max. diameter bended pipe diameter (steel)	[mm]	Ø 76,2 x 2,5t x 1,5D	Ø 88,9 x 2,1t x 1,5D	Ø 110 x 2,8t x 1,5D	Ø 127 x 4,5t
Max. bended pipe diameter (stainless steel)	[mm]	Ø 63,5 x 4,2t x 1,5D	Ø 76,2 x 3,5t x 1,5D	Ø 100 x 4t x 1,5D	Ø 127 x 3t
Max. pipe+mandrel length*	[mm]	4100	4100	5000	5500
Max. feed	[mm]	2850	2850	3500	4000
Max. bend radius	[mm]	250	250	300	350
Max. bending die radius difference	[mm]	80	-	-	-
Max. bending angle	[°]	190	190	190	190
Bending speed	[°/s]	30	25	32	18
Adjusting movements speed	[°/s]	160	160	150	120
Feed speed	[mm/s]	800	800	600	7000
Bending accuracy	[°]	+/- 0,15°	+/- 0,15°	+/- 0,15°	+/- 0,1°
Adjusting accuracy	[°]	+/- 0,1°	+/- 0,1°	+/- 0,1°	+/- 0,1°
Feed accuracy	[mm]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1°
Adjusting servo motor power	[W]	3500	3500	3500	3500
Feed servo motor power	[W]	3500	3500	3500	3500
Hydraulic pump motor power	[KM]	30	30	40	50
Weight	[kg]	7250	7300	8000	9800
Dimensions	[mm]	4950 x 1850 x 1550	4950 x 1850 x 1550	7300 x 1800 x 1400	7500 x 2400 x 2100

## HYDRAULIC PIPE BENDING MACHINES

SOCO 5B series bending machines are equipped with CNC system and servomotor drives for 5 axes. Simple and intuitive operation, precise bending. Benders suitable for automotive or shipyard industry.



Pipe bending machine SB-110X5B

### Main features:

- CNC system with touch screen
- 5 separately programmed axes (feed - Y, rotation - B, bending - C, horizontal movement - X1 and X2, pressure die assist - V1)
- 2 mandrel retraction speeds
- Individually controllable pressure die assists for each bending stack YBC and XYZ data input
- Conversion of data from XYZ to YBC
- Feed and turn driven by servo motors, which ensure reliability, precision and efficiency
- Electric system with a cooling system
- Mandrel automatic lubrication system which prolongs its life and improves bending precision
- Automatic material elasticity compensation
- Polishing die rest
- Mandrel retraction system
- Control panel on adjustable arm
- Servo motors helping in the process of bending

### Standard equipment:

- mandrel retraction system
- mandrel automatic lubrication system
- central lubrication system
- bending die support system
- adjustable control panel
- manual in English



SB-127x5B-1S

Technical data:	Unit	SB-76x5B-1S (2S)	SB-90x5B-1S (2S)	SB-110x5B-1S (2S)	SB-127x5B-1S (2S)	SB-168x5B-1S (2S)
Max. diameter bended pipe diameter (steel)	[mm]	Ø 76,2 x 2,5t x 1,5D	Ø 88,9 x 2,1t x 1,5D	Ø 110 x 1,7t x 1,5D	Ø 127 x 4,5t x 1,5D	Ø 168 x 6,8t x 1,5D
Max. diameter bended pipe diameter (stainless steel)	[mm]	Ø 76,2 x 2,0t x 1,5D	Ø 88,9 x 1,5t x 1,5D	Ø 110 x 1,7t x 1,5D	Ø 127 x 3,0t x 1,5D	Ø 168 x 4,3t x 1,5D
Distance between radii	[mm]	80	80	100	150	160
Mandrel length	[mm]	4130	4130	5000	5500	7000
Max. bend radius	[mm]	250	250	300	350	600
Max. bending angle	[°]	190	190	190	190	190
Bending speed	[°/s]	150	85	85	30	10
Bending accuracy	[°]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Adjusting accuracy	[°]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Feed accuracy	[mm]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Weight	[kg]	6600/7100	7500/8000	9600/10200	10500/11500	17000
Dimensions	[mm]	5500 x 2100 x 1720	5500 x 2100 x 1720	7300 x 1800 x 1400	7500 x 2215 x 1900	9500 x 2880 x 2600

## SOCO 5B HYDRAULIC PIPE BENDING MACHINES

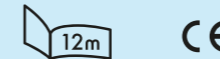
5B series bending machines with 5 axes controlled by CNC system and one or two die levels. In machine with 2 die levels the die is exchanged by lifting pipe carriage, mandrel fastening and the pipe.

### Main features of the control system:

- Software compatible with Windows
- Mitsubishi servomotors driving pipe feed and rotation
- Programmes may be saved on the hard disk on FDD
- Up to 30,000 file configurations may be programmed (up to 110 bends per pipe)
- 3d visualisation of the bended pipe
- Conversion of data from XYZ to YBC and YBC to XYZ
- The workpiece may be rotated on the screen freely
- Monthly production may be saved

### Optional software:

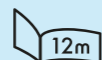
- AutoCAD access
- Connection with measuring system enabling displaying current parameters



SOCO A series bending machines are equipped with CNC system and servomotor drives for 3-4 axes, with one or two die levels. Bending head DGT drive utilizes gear and servo motor drive and provides increased efficiency and stability. Simple and intuitive operation, precise bending.

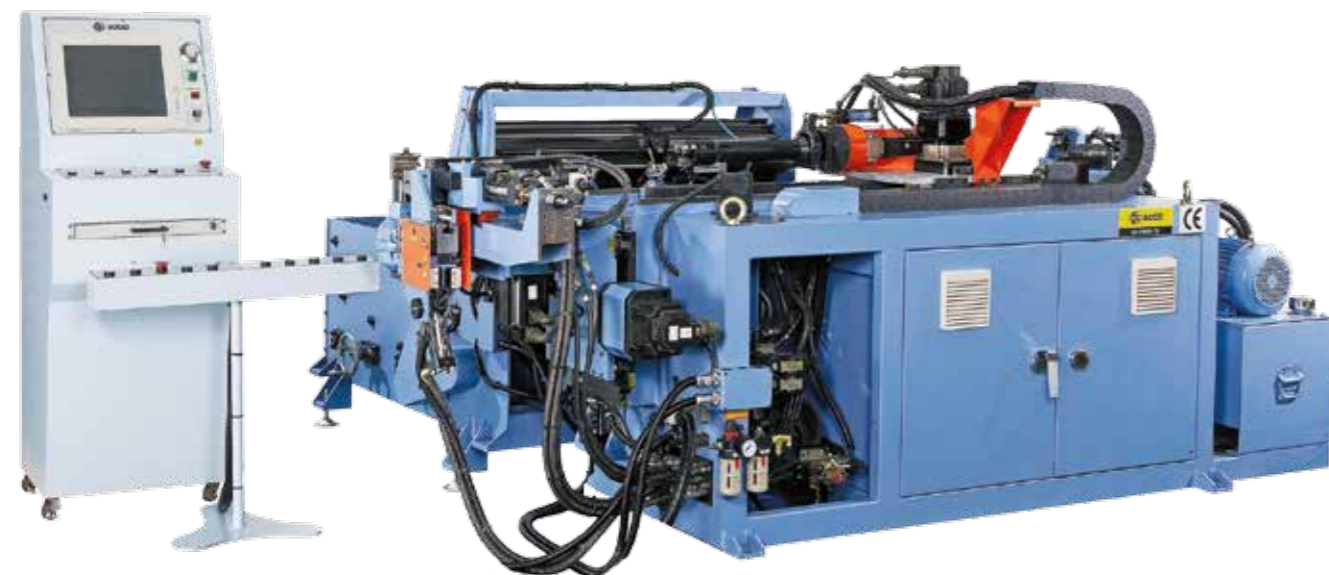
#### Standard equipment:

- mandrel retraction system
- mandrel automatic lubrication system
- central lubrication system
- bending die support system
- adjustable control panel
- manual in English



#### Main features:

- Unique head construction - DGT system
- CNC system with touch screen
- Pipe carriage feed driven by toothed bar and servomotor
- 2 mandrel retraction speeds
- Guide ways central lubrication system
- 2 mandrel retraction speeds
- YBC and XYZ data input
- Conversion of data from XYZ to YBC
- Electric system with a cooling system
- Mandrel automatic lubrication system which prolongs its life and improves bending precision
- Polishing die rest with lubrication system
- Control panel on adjustable arm
- Servo motors helping in the process of bending



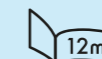
SOCO V series hydraulic bending machines are equipped with CNC system and servomotor drives for 4 axes, with up to 3 die levels. Bending head DGT drive utilizes gear and servo motor drive and provides increased efficiency and stability. The machines enable bending of radii of 1D (depending on the material elongation factor) and bending big diameters on the rollers.

#### Main features:

- Unique head construction - DGT system
- CNC system with touch screen
- Pipe carriage feed driven by toothed bar and servomotor
- Many dies and rollers may be installed - for big radii 1D bending with programmable power of boardin device
- Programmable bend length for big radii
- Compensation of material elasticity for banding on rollers
- Compensation of die bending
- YBC and XYZ data input
- Conversion of data from XYZ to YBC
- Electric system with a cooling system
- Mandrel automatic lubrication system which prolongs its life and improves bending precision
- Polishing die rest with lubrication system
- Control panel on adjustable arm
- Programmers facilitating the bending operation

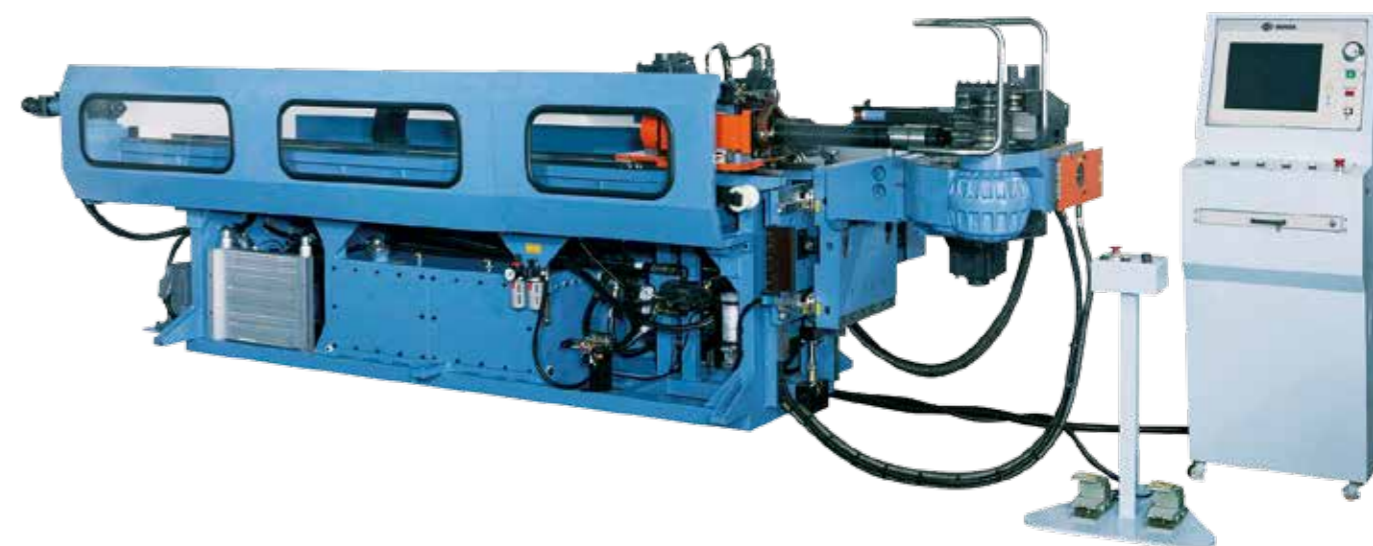
#### Standard equipment:

- mandrel retraction system
- mandrel automatic lubrication system
- central lubrication system
- bending die support system
- adjustable control panel
- manual in English



#### SB-39X4A-3SV

Bended pipe diameter up to Ø38.1 mm, die bending and bending on rollers, 4 adjustable axes and 3 die levels.



Technical data:	Unit	SB-10x3A-1S (2S)	SB-19x3A-2S	SB-30x4A-2S	SB-39x4A-1S (2S)	SB-51x4A-1S (2S)	SB-63x4A-2S	SB-80x4A-2S	SB-90x4A-2S
Max. bended pipe diameter (steel)	[mm]	Ø 10 x 1,2t x 1,5D	Ø 19,5 x 1t x 1,5D	Ø 30 x 1,5t x 1,5D	Ø 38,1 x 3,17t x 1,5D	Ø 50,8 x 2,8t x 1,5D	Ø 63,5 x 2,5t x 1,5D	Ø 76,2 x 2t x 1,5D	Ø 88,9 x 2,2t x 1,5D
Max. bended pipe diameter (stainless steel)	[mm]	Ø 16 x 0,9 t x 1,5D	Ø 16 x 1t x 1,5D	Ø 25,4 x 1,2t x 1,2D	Ø 38,1 x 2,2t x 1,5D	Ø 50,8 x 2t x 1,5D	Ø 63,5 x 2t x 1,5D	Ø 76,2 x 1,5t x 1,5D	Ø 88,9 x 1,5t x 1,5D
Max. pipe+mandrel length	[mm]	1650	2300	2670	3000/3850	3600/3700	3700	4600	4600
Max. bending die radius	[°]	60	80	120	1800	250	250	250	250
Max. die radius difference	[mm]	25	30	38	50	75	75	80	80
Bending accuracy	[°]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Turn accuracy	[°]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Feed accuracy	[mm]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Weight	[kg]	1000/1100	1400	1700	2850	3500/4000	5000	9500	10500
Dimensions	[mm]	2200 x 900 x 1150	3100 x 950 x 1200	3380 x 950 x 1200	4430 x 1580 x 1270	4900 x 1300 x 1400	4960 x 1400 x 1400	5820 x 1910 x 1850	7000x2300 x 1700

Technical data:	Jednostka	SB-20x4A-3SV	SB-30x4A-3SV	SB-39x4A-3SV	SB-51x4A-3SV	SB-63x4A-3SV	SB-80x4A-3SV	SB-90x4A-3SV
Max. bended pipe diameter (steel)	[mm]	Ø 20 x 1,2t x 1,5D	Ø 30 x 1,5t x 1,5D	Ø 38,1 x 3,2t x 1,5D	Ø 50,8 x 2,8t x 1,5D	Ø 63,5 x 2,5t x 1,5D	Ø 76,2 x 2,0t x 1,5D	Ø 90 x 2t x 1,5D
Max. bended pipe diameter (stainless steel)	[mm]	Ø 16 x 1,2t x 1,5D	Ø 25,4 x 1,2t x 1,5D	Ø 38,1 x 2,2t x 1,5D	Ø 50,8 x 1,9t x 1,5D	Ø 63,5 x 2t x 1,5D	Ø 76,2 x 1,5t x 1,5D	Ø 90 x 1,5t x 1,5D
Max. pipe + mandrel length	[mm]	2070	2670	3850	3700	3700	4600	4600
Max. die bend radius	[mm]	80	120	180	250	250	250	250
Max. bending angle	[°]	190	190	190	190	190	190	190
Die cutting radius - pipe	[mm]	1,5D-4D	1,5D-4D	1,5D-5D	1,5D-5D	1,5D-5D	1,5D-3,3D	1,5D-3,3D
Die cutting radius - section	[mm]	2,5D-4D	2,5D-4D	2D-5D	2D-5D	2D-5D	2,5D-3,3D	2,5D-3,3D
Bend radius (on rollers) - pipe	[mm]	6D-∞	6D-∞	6D-∞	6D-∞	6D-∞	8D-∞	8D-∞
Bend radius (on rollers) - section	[mm]	8D-∞	8D-∞	8D-∞	7D-∞	8D-∞	120D-∞	120D-∞
1D bending	[°]	YES	YES	YES	YES	YES	YES	YES
Bending accuracy	[°]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Rotation accuracy	[°]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Feed accuracy	[mm]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Weight	[kg]	1500	1800	3500	4500	5500	9500	10500
Dimensions	[mm]	2780 x 950 x 1120	3380 x 900 x 1200	4800 x 1340 x 1280	5000 x 1400 x 1500	5000 x 1400 x 1500	7000 x 1650 x 2000	7000 x 2100 x 1700

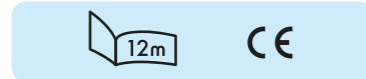
# ELECTRIC CNC PIPE BENDERS SOCO

CNC SB-39x6A-MR (MRV), SB-63x5A-MR (MRV),  
SB-80x7A-MR (MRV), SB-90x7A-MR (MRV)

SOCO MRV series hydraulic bending machines are equipped with CNC system and servomotor drives for 6 axes, with up to 6 die levels. Intended for bending with both small and big bend radius. Enable 1D bending and no-clamp bending. DGT bending head unique drive system with gear and servomotor provides increased efficiency and stability.

### Standard equipment:

- mandrel retraction system
- mandrel automatic lubrication system
- central lubrication system
- bending die support system
- adjustable control panel
- manual in English



### Main features:

- Unique head construction - DGT system
- 6 controlled axes (Feed - Y, rotation - B, vertical head travel - X, bending - C, clamping die support - V1, vertical head feed - V2)
- All 6 axes may be operated simultaneously
- Up to 6 die levels which enables bending extremely complex pieces on one fix
- CNC system with touch screen
- Pipe carriage feed driven by toothed bar and servomotor
- Many dies and rollers may be installed - for big radii
- 1D bending with programmable power of boarding device
- Programmable bend length for big radii
- Compensation of material elasticity for banding on rollers
- Compensation of die bending
- YBC and XYZ data input
- Conversion of data from XYZ to YBC
- Electric system with a cooling system
- Mandrel automatic lubrication system which prolongs its life and improves bending precision
- Polishing die rest with lubrication system
- Control panel on adjustable arm

## SB-38X6A-MRV



Technical data:	Unit	SB-39x6A-MR (MRV)	SB-63x5A-MR (MRV)	SB-80x7A-MR (MRV)	SB-90x7A-MR (MRV)
Max. bended pipe diameter (steel)	[mm]	Ø 38,1 x 3,17t x 1,5D	Ø 63,5 x 2,5t x 1,5D	Ø 76,2 x 2,0t x 1,5D	Ø 88,9 x 2,2t x 1,5D
Max. bended pipe diameter (stainless steel)	[mm]	Ø 38,1 x 2,2t x 1,5D	Ø 63,5 x 2t x 1,5D	Ø 76,2 x 1,2t x 1,5D	Ø 88,9 x 1,5t x 1,5D
Max. bended section size (steel)	[mm]	31,75 x 31,75 x 3,1t x 2D	31,75 x 31,75 x 3,1t x 2D	76,2 x 76,2 x 2t x 2,5D	-
Die bend radius - pipe	[-]	1,5D - 5D	1,5D - 5D	1,5D - 3,3D	1,5D - 5D
Die bend radius - section	[-]	2D - 5D	2D - 5D	2,5D - 3,3D	2D - 5D
Bend radius (on rollers) - pipe	[-]	6D - ∞ (MRV)	6D - ∞ (MRV)	8D - ∞ (MRV)	8D - ∞ (MRV)
Bend radius (on rollers) - section	[-]	7D - ∞ (MRV)	8D - ∞ (MRV)	12D - ∞ (MRV)	12D - ∞
1D bending	[-]	No (MR)/YES (MRV)	No (MR)/YES (MRV)	No (MR)/YES (MRV)	No (MR)/YES (MRV)
Distance between radii	[mm]	80	80	75	80
Pipe + mandrel length	[mm]	3850	3700	4600	4600
Max. die bend radius	[mm]	180	250	250	250
Max. die radius difference	[mm]	30	30	30	30
Bending accuracy	[°]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Rotation accuracy	[°]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Feed accuracy	[mm]	+/- 0,1	+/- 0,1	+/- 0,1	+/- 0,1
Weight	[kg]	3800	3820	9200	10100
Dimensions	[mm]	4700 x 1350 x 1220	5100 x 1600 x 1500	7700 x 2000 x 2100	7000 x 2100 x 1700

# EUROMET KM-PB42 PIPE BENDING MACHINE

Universal pipe bending machine with mandrel. The machine comes with a guide way with carriage and rotating head. The machine is operated through a touch screen and PLC controller. The machine comes in two versions: with electric or hydraulic drive of bending head.

### Features:

- touch screen and PLC controller operated
- work mode: manual, semi-automatic, automatic
- control system in English
- up to 9 bending angles may be saved for one programme
- error messages display
- processed pieces counter
- hydraulic or electric bending head drive
- hydraulic tool clamp (electrically driven machine - manual clamp)
- version with hydraulic drive comes with pressure control valve
- machine comes with rotating head on carriage travelling on guide ways
- 4 length stops and 4 rotation stops
- operation with or without mandrel
- movable carriage with manual pipe fastening (3-jaw chuck)
- carriage cross feed depending on bending radius
- hydraulic mandrel feed (electrically driven machine)
- manual

### Additional equipment:

- mandrel extension
- head with pipe quill clamp
- more stops on the length and rotation of the pipe may be installed
- digital readouts on pipe feed and rotation



Technical data:	Unit	KM-PB42
Max. pipe diameter	[mm]	42x3.0
Max. bend radius	[mm]	260
Max. steel pipe diameter (bending with mandrel)	[mm]	30
Max. wall radius	[mm]	2.0
Bend radius	[mm]	60
Max. bend angle	[°]	0-190
Mandrel length	[mm]	3000
Bending speed	[°/sec]	≥6°
Bending accuracy	[°]	+/-0.15
Hydraulic motor	[kw]	3
Weight	[kg]	780



Control panel



Carriage with rotating head

# WATER CUTTING MACHINES

PRIMUS 322, PRIMUS 324,  
PRIMUS 326, PRIMUS 184

INTERMAC PRIMUS series are universal water cutting machines enabling cutting all materials up to 250 mm thick. Operator-friendly interface and reliability makes the PRIMUS water cutting machines ones of the most universal machines of their kind. High-pressure water (over 400Mpa, 60.000psi) flows directly to the shaped opening, which provides continuous 810 m/s waterjet (3 times the speed of sound).

**UNIVERSALITY - WIDE RANGE OF MATERIALS:** cutting by a waterjet enables cutting all materials and shapes up to 250 mm thick.

**EFFICIENCY - CUTTING QUALITY:** the cutting surface without any burres or burns. The cutting quality may be adjusted depending on available costs and time.

**INNOVATION - NO HEAT EFFECT ZONE:** the water cutting technology is a "cold" machining system, no heat effect on the material.

**IMPROVEMENT - ENVIRONMENT FRIENDLY TECHNOLOGY:** the system does not produce any dust and gases.

**SAVINGS - SAVE TIME AND MONEY:** reduction of waste, great speed/cost ratio, no change tools is required for machining different materials and shapes, cutting speed adjustment, suitable for small-lot, lot and mass production, short fixing time.

**5-axes head reduces cone-like waterjet characteristic for water cutting technology. JPC system automatically selects (depending on the material, thickness etc.) angle of inclination of the cutting head, which reduces cone-like waterjet. DPC system, depending on the material, thickness and cutting speed selects the most suitable inclination angle of the cutting head as to make the entry point and output point as close as possible. It reduces marks appearing during the cutting process, and cutting time.**

**CAD/CAM software compatible with a PC with Windows operating system enables modification of parameters during the cutting process, automatic cost calculation and nesting.**

WATER CUTTING MACHINES INTERMAC  
PRIMUS 322, PRIMUS 324, PRIMUS 326, PRIMUS 184

### Standard equipment:

- 3 axes head
- BHDT pump
- automatic abrasive dosing system
- laser cutting point indicator
- anti-collision system
- control panel
- remote control
- automatic lubrication system
- automatic water level control
- sheet washing system
- CAD/CAM software with nesting function
- Internet service
- manual in English
- CE declaration of conformity

### Additional equipment:

- side rollers facilitating metal sheet loading
- automatic abrasive removal system
- 5 axes head
- additional 3 or 5 axes head on the same or separate portal



12m CE

Technical data:	Unit	PRIMUS 322	PRIMUS 324	PRIMUS 326	PRIMUS 184
Workspace	[mm]	3210 x 2000	3210 x 4000	3210 x 6000	1860 x 4000
Max. sheet size	[mm]	3300 x 2250	3300 x 4300	3300 x 6300	2010 x 4200
Z axis pitch	[mm]	250 (5-axes head - 200mm)			
X/Y axis travel	[m/min]	45	45	45	38
Table load capacity	[kg/m <sup>2</sup> ]	1000	1000	1000	1000
A axis	[°]	+/- 60	+/- 60	+/- 60	+/- 60
C axis		Unlimited (optional)			
Pump power	[kW]	22 - 75	22 - 75	22 - 75	22 - 75
Working pressure	[MPa]	420	420	420	420
Flow	[l/min]	2 - 7,8	2 - 7,8	2 - 7,8	2 - 7,9

LP 3015, LP 4020, LP 6020, LF 3015  
LF 4020, LF 6020, LE 1530, BL 1530

# LASER CUTTING MACHINES

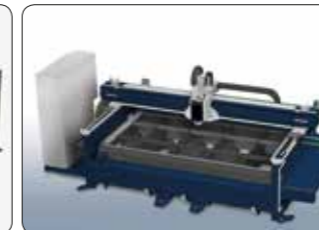
Welded construction from plates and sections with gantry supported and driven on both housings provide maximal rigidity and feed precision. High speed and acceleration ensure fast cutting. Depending on the machine version - servo motor or linear motor driven. Best quality components: PRC (USA) or Rofin Sinar (Germany) laser resonators and Siemens Sinumerik 840D control systems.

### Features:

- high quality cutting of different materials and thickness
- universal machine: no additional tools are needed for programming the cutting operation
- high cutting speed provides max. productivity
- ADIRA, CID, CUT software provide wide variety of programming options, while setup time remains as short as possible



Automatic sheet loading and unloading system

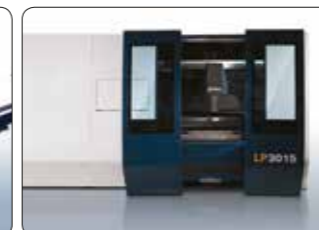


LE and BL series main construction

12m CE



Table may be elongated



Easy access to the cutting head



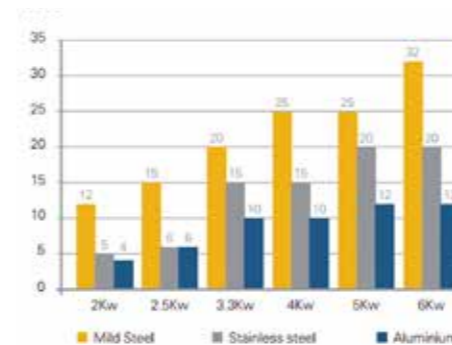
LE and BL series - 200 mm Z axis



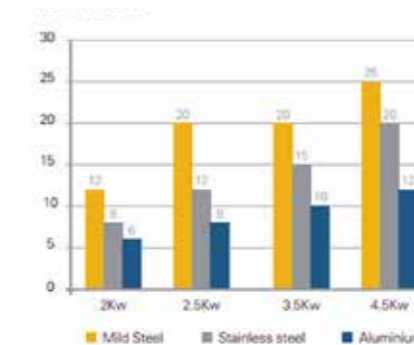
PRECITEC cutting head

### Resonators:

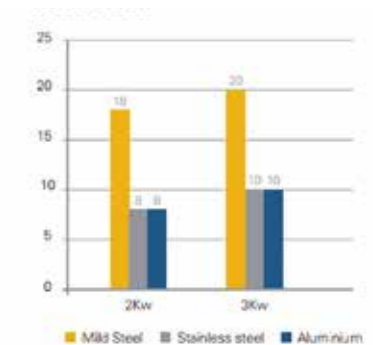
#### Rezonator CO2 typu FAF



#### Rezonator CO2 typu SLAB



#### Rezonator CO2 typu FIBER



Technical data:	Unit	LP 3015	LP 4020	LP 6020	LF 3015	LF 4020	LF 6020	LE 1530	BL 1530
Workspace	[m]	3 x 1,5	4 x 2	6 x 2	3 x 1,5	4 x 2	6 x 2	1,5 x 3	1,5 x 3
Power	[kW]	2,5 ~ 4,5	2,5 ~ 4,5	2,5 ~ 4,5	2,5 ~ 4,5	2,5 ~ 4,5	2,5 ~ 4,5	2,5~6	1~3
Speed	[m/min]	210/280	210/280	210/280	210/280	210/280	210/280	110	110
Acceleration	[G]	1,4/2,8	1,4/2,8	1,4/2,8	1,4/2,8	1,4/2,8	1,4/2,8	1	1
Accuracy	[mm]	+/-0,025	+/-0,025	+/-0,025	+/-0,025	+/-0,025	+/-0,025	+/-0,05	+/-0,05
Repeatability	[mm]	+/-0,02	+/-0,02	+/-0,02	+/-0,02	+/-0,02	+/-0,02	+/-0,03	+/-0,03

LASER CUTTING MACHINES LP 3015, LP 4020,  
LP 6020, LF 3015





LASER CUTTING MACHINES ADIRA LF 4020, LF 6020, LE 1530, BL 1530



SERIA LE

**LE SERIES**

*LE series - resonator CO2*  
LE series offers the best quality-price ratio. Gantry and head feed driven by servo motors on pinion-racks. Long Z axis enable cutting 3D pieces. Max. speed - 110 m/min and gantry acceleration up to 1G provide efficient and fast cutting of various materials. The machine comes with CO2 laser, either with FAF (Fast Axial Flow) resonator of 2.5-6 kW or SLAB which provides the best efficiency at the lowest operating costs.



SERIA BL

**BL SERIES**

*BL series - Fiber laser*  
Blue Laser provides best efficiency and energy savings. BL series laser cutting machines with the state-of-the-art Fiber laser of 1-3 kW power enable cutting materials which used to be quite problematic in the past: copper, aluminium, steel with galvanic layers etc. The construction identical to LE series guarantees the lowest price.

**LP SERIES**

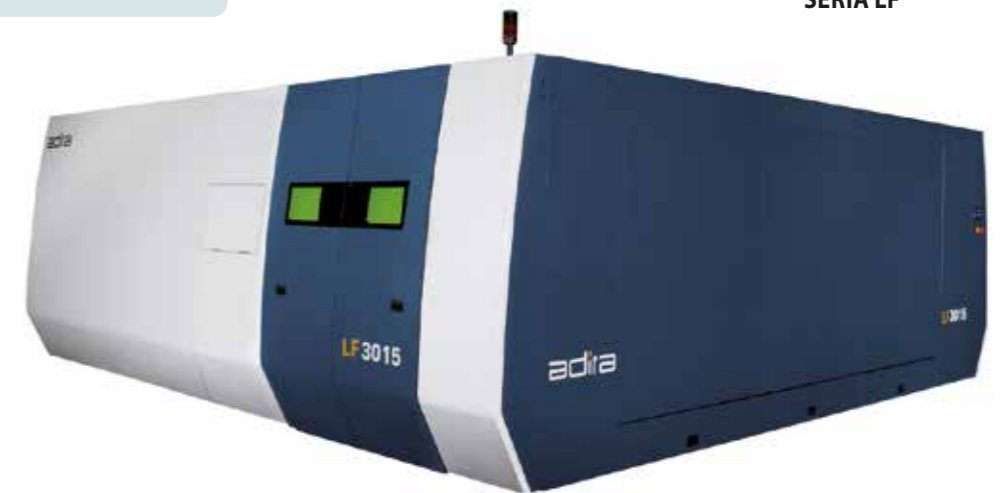
*LP series - resonator CO2*  
Best quality, highest precision and wide variety of cutting operations. SLAB CO2 laser enable cutting steel of thickness up to 25 mm (4.5 kW CO2) and reducing operating costs. The machines are intended for lot- and big-lot production, the gantry driven by induction motor, which provides feed speed up to 280m/min and acceleration up to 2.8 G. When used with optional automatic loading and unloading system, the machine becomes a complete efficient cutting system for repeatable pieces production.



SERIA LP

**LF SERIES**

*LF series - Fiber laser*  
LF series machines provide the best efficiency, intended for heavy-duty cutting of large batches of details from various materials. The best choice for continuous production of elements from 4-5 mm metal sheets. Low operating costs in comparison with CO2 lasers enable generating substantial savings. Available workspaces: 1.5x3m 4x2m and 6x2m.

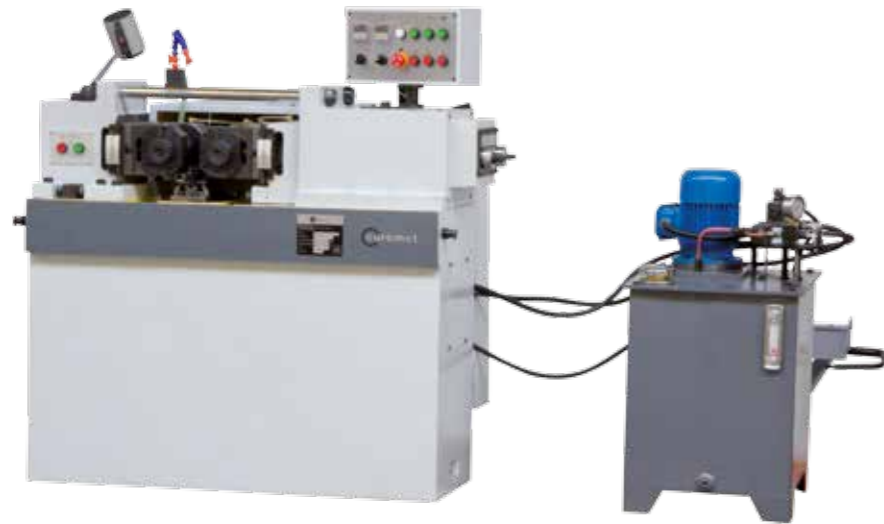


SERIA LF

LASER CUTTING MACHINES ADIRA LF 4020, LF 6020, LE 1530, BL 1530

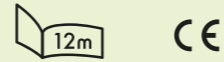
# THREAD ROLLING MACHINES EUROMET TRM

The thread rolling machines are efficient machines intended for chipless machining. The two thread rolling wheels are synchronised and rotate in the same direction burnishing threads or splines on cylindrical or tapered surfaces. In TRM-S machines the third rolling wheel makes radial movement which finishes the rolling process. The machine with features such as precision, efficiency, material saving and easy operation, enable making various kinds of threads, leading screws etc. quickly and efficiently. Thread rolling machines are used in many industry branches, such as: automotive, mining and petro-chemistry industries. Rolling of threads or splines is much more effective and faster than cutting. Two-roller machines are intended for making threads in solid materials, while three-roller machines - for making threads on pipes. TRM28-6,3A and TRM28-12,5 are blind machines enabling making threads only on cylindrical surfaces. The remaining are the throughfeed machines, additionally equipped with tilt rollers which enable making threads with taper tools.



**Standard equipment:**  
- manual in English  
- CE declaration of conformity

**Optional equipment:**  
- rollers



Technical data:	Unit	TRM28-6.3A	TRM28-12.5	TRM28-12.5B
Max. rolling force	[kN]	63	125	125
Max. radial feed	[mm]	40	60	60
axial feed	[mm]	-	-	40
thread pitch radial feed	[mm]	2.5	5	5
max. axial feed	[mm]	-	-	3
Max. external diameter	[mm]	150	170	170
Max. die width	[mm]	80	150	120
Max. bore diameter	[mm]	45	54	54
Parameters Distance between axes	[mm]	110-200	130-230	120-230
spindles rotational speed	[rpm]	25,40,63,100	16,25,40,63	20,31,51,80
angle of inclination	[°]	-	-	±8
Parameters feed range (inf. var. adj.)	[mm/s]	maks. 5	maks. 5	maks. 5
rolling feed/pitch	[mm]	5/8	maks. 20	maks. 15
Rolling time	[s]	0-60	0-60	1-60
Total power	[kW]	3.9	5.2	5.2
Dimensions (LxWxH)	[mm]	1470x1416x1570	1620x1260x1510	1760x1620x1760
Weight	[kg]	1500	2000	2400

Technical data:	Unit	TRM28-16	TRM28-20A	TRM28-25
Max. rolling force	[kN]	160	200	250
Max. radial feed	[mm]	80	80	80
diameter axial feed	[mm]	50	60	60
thread pitch radial feed	[mm]	6	8	10
max. axial feed	[mm]	4	5	6
Max. external diameter	[mm]	210	230	230
Max. die width	[mm]	140	160	160
Max. bore diameter	[mm]	54	75	75
Parameters Distance between axes	[mm]	130-260	150-280	165-280
spindles rotational speed	[rpm]	20,32,50,80	16,23,32,45,63,92	16,23,32,45,63,92
bending angle	[°]	±8	±10	±10
Parameters feed range (inf. var. adj.)	[mm/s]	maks. 5	maks. 5	maks. 5
rolling feed/pitch	[mm]	maks. 20	maks. 20	maks. 15
Rolling time	[s]	0-60	0-60	0-60
Total power	[kW]	7.1	9.1	13.3
Dimensions (LxWxH)	[mm]	1900x1800x1850	2120x2000x1765	2120x2000x1765
Weight	[kg]	3000	4000	4500

# EUROMET TRM THREAD ROLLING MACHINES



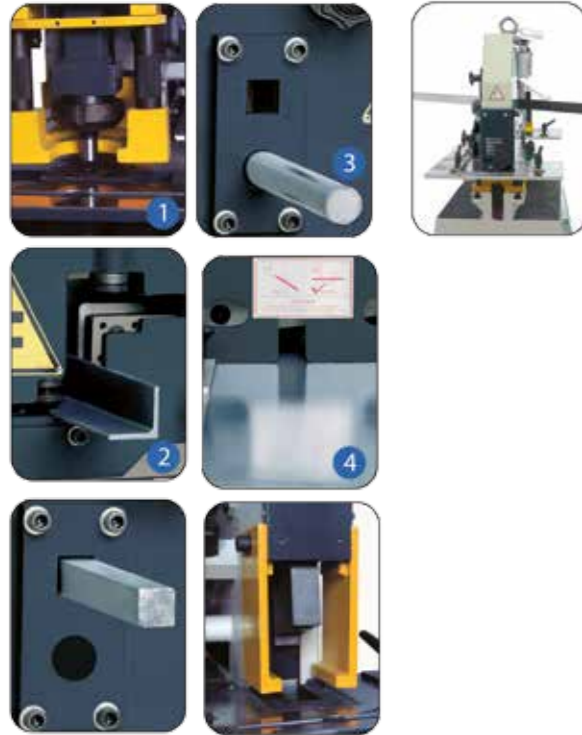
Technical data:	Unit	TRM28-31.5	TRM28-40
Max. rolling force	[kN]	315	400
Max. radial feed	[mm]	100	110
diameter axial feed	[mm]	60	60
thread pitch radial feed	[mm]	12	12
max. axial feed	[mm]	8	8
Max. external diameter	[mm]	250	250
Max. die width	[mm]	160	160
Max. bore diameter	[mm]	75 (85)	85
Parameters Distance between axes	[mm]	165-340	170-340
spindles rotational speed	[rpm]	16,23,32,45,63,92	16,23,32,45,63,92
bending angle	[°]	±10	±8
Parameters feed range (inf. var. adj.)	[mm/s]	maks. 5	maks. 5
rolling feed/pitch	[mm]	maks. 20	maks. 30
Rolling time	[s]	0-60	1-60
Total power	[kW]	18.1	22.6
Dimensions (L x W x H)	[mm]	2245 x 2200 x 1900	2350 x 2300 x 2000
Weight	[kg]	5000	7000

Technical data:	Unit	TRM28-155	TRM28-205
Max. rolling force	[kN]	150	200
Max. radial feed	[mm]	20-80	30-110
diameter axial feed	[mm]	25-60	35-80
thread pitch radial feed	[mm]	6	8
max. axial feed	[mm]	4	6
Max. external diameter	[mm]	120-190	160-230
Max. die width	[mm]	100	100
Max. bore diameter	[mm]	54	75
Parameters Distance between axes	[mm]	80-130	92.5-192.5
spindles rotational speed	[rpm]	20,32,50,80	16,20,25,32,40,50
bending angle	[°]	±18	±10
Parameters feed range (inf. var. adj.)	[mm/s]	maks. 5	maks. 5
rolling feed/pitch	[mm]	maks. 15	maks. 20
Rolling time	[s]	0-60	0-60
Total power	[kW]	10.6	10.6
Dimensions (L x W x H)	[mm]	1620 x 1530 x 1860	1930x1600 x 2080
Weight	[kg]	2500	3400

Technical data:	Unit	TRM28-20J	TRM28-25J	TRM28-25J
Max. rolling force	[kN]	200	250	315
Max. radial feed	[mm]	60	80	100
Max. drilling diameter	[mm]	60	60	80
max. module	[mm]	1	1.25	1.5
Die diameter	[mm]	190-230	190-230	210-250
Max. die width	[mm]	160	160	160
Parameters Distance between spindle axes	[mm]	150-280	165-280	165-340
Spindle diameter	[mm]	75	75	75 (85)
rotational speed	[rpm]		16,23,32,45,63,92	
bending angle	[°]	±10	±10	±10
Parameters feed range (inf. var. adj.)	[mm/s]	1-5	1-5	1-5
rolling feed/pitch	[mm]	maks. 20	maks. 20	maks. 20
Rolling time	[s]	0-60	0-60	0-60
Total power	[kW]	9.1	13.3	18.1
Dimensions (LxWxH)	[mm]	1810 x 1700 x 1380	1810 x 1700 x 1380	1956 x 1854 x 1460
Weight	[kg]	4000	4500	5000



Universal shears are used in almost all industries. They are intended for cutting, pressing, round, square bars and section punching.



IW 40-45-60 functions  
(no punching on IW40)



IW 55-65-85-115-175 functions



IW40-45-60 additional equipment  
(no punching on IW40)



IW 55-65-85-115-175 additional equipment



**Standard equipment:**

- punch and die ø22mm (from IW 40 to IW 85)
- punch and die ø22mm (from IW 115 to IW 175)
- punch chuck
- flat bars blade
- bars blade
- angle bars blade
- punching blade (except IW 40)
- work lights (except IW 40, IW 45, IW 60)
- electric cutting length stop (except IW 40, IW 45, IW 60)
- central lubrication system
- wrench set
- manual in English
- CE declaration of conformity

**Workstations:**

1. STRIKING - the machine enables striking various openings. The machine may be equipped with any shape of tools on customer's request.
2. BAR SHEARING - the standard version of the machine enables shearing round and square bars. On customer's request the machine can be equipped with shears enabling shearing U, I, T and other sections.
3. ANGLE SECTION SHEARING - the machine enables shearing angle sections at 90° or 45° angle.
4. FLAT BAR SHEARING - depending on the model, the machine enables shearing flat bars of width from 300 to 600 mm.
5. PUNCHING (except IW 40) - the machine enables shearing metal plate edges.



Technical data:	Unit	IW40	IW45	IW55	IW60	IW65	IW85	IW115	IW175
<b>Striking</b>									
Diameter x max. thickness	[mm]	Ø20 x 15	Ø22 x 15	Ø20 x 20	Ø28 x 15	Ø26 x 20	Ø33 x 20	Ø34 x 26	Ø40 x 32
Diam. x thck.	[mm]	Ø30 x 10	Ø38 x 8	Ø40 x 10	Ø38 x 11	Ø57 x 10	Ø57 x 12	Ø55 x 16	Ø57 x 22
Max. diameter x thickness	[mm]	Ø35 x 8	Ø100 x 3	Ø110 x 3	Ø110 x 3	Ø110 x 3	Ø110 x 4	Ø110 x 5	Ø125 x 5
Pitch	[mm]	50	50	60	55	55	80	80	80
Pitch No. (20mm)	[-]	20	20	25	25	25	25	25	22
Relief	[mm]	175	175	255	220	305	355	355	625
Work height	[mm]	970	935	1030	955	1030	1080	1110	1130
<b>Bar shearing</b>									
Round/square	[mm]	Ø30 / 25	Ø30 / 25	Ø40 / 40	Ø40 / 35	Ø45 / 45	Ø50 / 50	Ø55 / 50	Ø65 / 55
<b>Angle bar shearing</b>									
Shearing at 90° angle	[mm]	80 x 8	100 x 10	120 x 12	120 x 12	120 x 12	150 x 15	150 x 16	200 x 20
Shearing at 45° angle	[mm]	50 x 6	70 x 6	70 x 10	80 x 8	70 x 10	80 x 8	80 x 10	80 x 10
Work height	[mm]	1110	1140	1130	1155	1140	1200	1215	1130
<b>Flat bar shearing</b>									
Flat bar	[mm]	200 x 13	200 x 15	200 x 20	200 x 20	300 x 20	380 x 20	380 x 25	380 x 30
Flat bar	[mm]	300 x 6	300 x 12	300 x 15	300 x 15	375 x 15	480 x 15	600 x 15	600 x 20
Blades length	[mm]	356	316	317	380	380	482	610	610
Angle bar punching	[mm]	80 x 10	80 x 10	80 x 15	80 x 10	100 x 15	120 x 15	120 x 15	120 x 15
Work height	[mm]	980	935	900	955	900	940	935	810
<b>Punching</b>									
Thickness	[mm]	no	8	10	10	10	13	13	16
Width	[mm]	no	35	45	42	45	52	60	60
Depth	[mm]	no	75	90	100	90	100	100	100
Work height	[mm]	no	935	900	955	900	940	935	910
<b>Special tools</b>									
U-I sections shearing	[mm]	76 x 38	80 x 45	120 x 58	80 x 45	120 x 58	160 x 74	200 x 90	300 x 125
T section shearing	[mm]	38 x 6	40 x 5	80 x 9	80 x 9	90 x 11	100 x 11	120 x 13	150 x 15
V punching	[mm]	-	100 x 8	100 x 10	100 x 10	100 x 10	100 x 13	100 x 13	100 x 16
Bar bending	[mm]	-	100 x 12	250 x 12	100 x 12	250 x 15	250 x 20	250 x 22	250 x 25
- Flat bar	[mm]	-	-	500 x 8	-	500 x 3	500 x 3	700 x 3	700 x 4
Striking relief	[mm]	-	85	125	110	125	125	125	125
on punching die max. size	[mm]	-	18x x 12	38 x 18	20 x 12	38 x 18	38 x 10	38x12	38 x 13
Motor power	[kW]	3	4	5,5	4	5,5	7,5	11	11
Weight	[kg]	580	1180	1520	1440	1600	2315	2920	6000
Dimensions (LxWxH)	[m]	1,1x0,8x1,5	2,143x0,95x1,68	1,5x0,95x1,88	1,52x0,95x1,78	1,7x0,95x1,88	1,92x0,95x2,04	2,04x0,95x2,18	2,73x1,15x2,28
Pressure [T]	[T]	40	45	55	60	65	85	115	175

HF series hand presses with pressure from 15 to 50 tons are extremely strong and durable. The construction of each press is sturdy, made from high quality steel welded sections. Precise hydraulic system. Worktable height adjusted by locking bars. The construction designed as to prolong the machine's life and minimise supervision. Each press comes with two V-blocks.

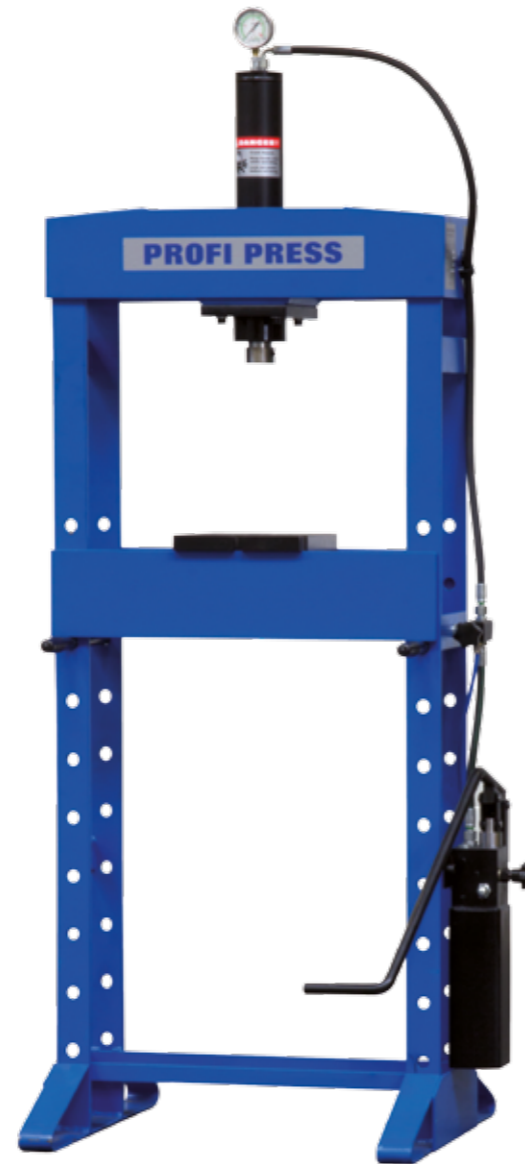
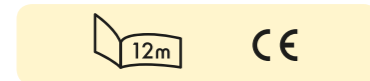
New lever enables hand and feet operation.

Hydraulic workshop gantry presses are intended for: straightening and bending shafts, beams, pivots, sections, bars; mounting and dismounting of bearings, quills and pivots; pressing, punching and shaping.

**HF series presses features**

- hand/feet operation
- pressure gauge and chrome actuator piston rod
- automatic piston rod return
- manual in English
- CE declaration of conformity
- V-blocks set
- integrated pressure gauge

1. Manual operation
2. V-blocks set
3. Integrated pressure gauge



Technical data:	Unit	25T	40T	63T
Pressure	[kN]	147,15	294,3	490,5
Max. pressure	[bar]	382,2	347,6	399,5
Actuator pitch	[mm]	160	160	160
Oil tank capacity	[l]	1,5	1,5	2,3
System capacity	[l]	1,65	1,65	2,5
Fixed actuator		YES	YES	YES
Work width	[mm]	555	560	750
Weight	[kg]	134	172	309
Actuator diameter	[mm]	80	110	140
Piston rod diameter	[mm]	40	40	50
Actuator head diameter	[mm]	50	50	60

Hydraulic M/H-2 series hand presses with electric pump and pressure from 30 to 200 tons are extremely strong and durable. The construction of each press is sturdy, made from high quality steel welded sections. Precise hydraulic system.

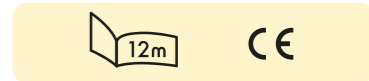
Worktable height adjusted by locking bars. The construction designed as to prolong the machine's life and minimise supervision. Each press comes with two V-blocks. New lever enables hand and feet operation. The machine is equipped with bearing skip feed which automatically changes into work feed when the loading increases.

Hydraulic workshop gantry presses are intended for: straightening and bending shafts, beams, pivots, sections, bars; mounting and dismounting of bearings, quills and pivots; pressing, punching and shaping.

**M/H-2 series presses features**

- pressure gauge and chrome actuator piston rod
- automatic piston rod return
- manual in English
- CE declaration of conformity
- two working speeds
- V-blocks set
- integrated pressure gauge

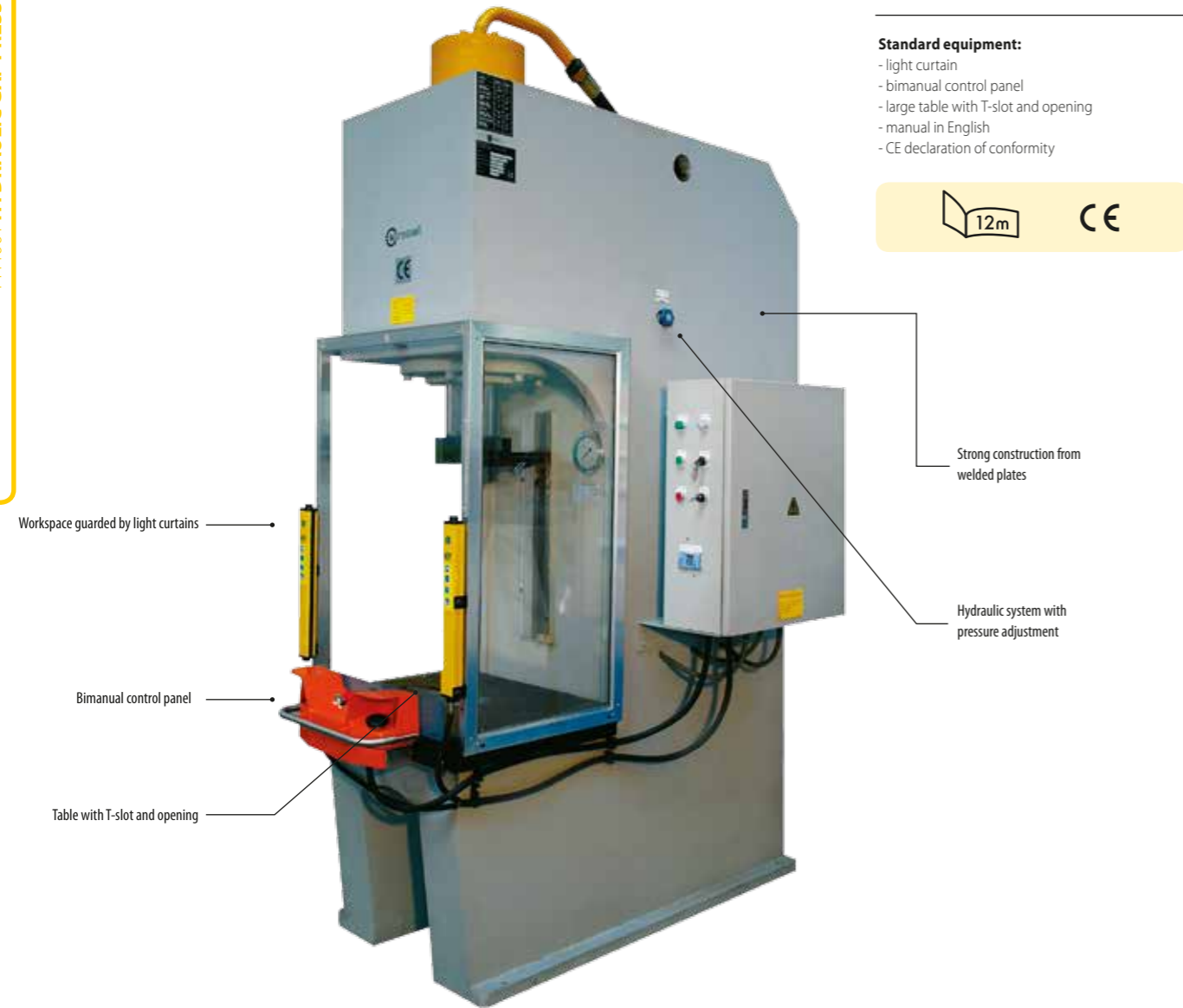
1. Hydraulic machine
2. Adjustable worktable height
3. Movable actuator (left-right)
4. Actuator stop
5. V-blocks set



Technical data:	Unit	30 Ton M/H-2	30 Ton M/H-M/C-2	100 Ton M/H-M/C-2	100 Ton M/H-M/C-2 D=1500	160 Ton M/H-M/C-2	160 Ton M/H-M/C-2 D=1500	200 Ton M/H-M/C-2
Pressure	[kN]	294	588	981	981	1570	1570	1962
Max. pressure	[bar]	221	259	258	258	255	255	243
Actuator pitch	[mm]	380	380	380	380	400	400	400
Pump flow	[l/min]	2,82/11,84	2,82/11,84	5,64/17,20	5,64/17,20	8,8/27,6	8,8/27,6	8,8/27,6
Oil tank capacity	[l]	30	30	30	30	30	30	30
System capacity	[l]	6,5	8	12	12	17	17	23
Work speed	[mm/s]	3,57	2,07	2,47	2,47	2,4	2,4	1,84
Feed-in speed	[mm/s]	15	8,69	7,54	7,54	7,48	7,48	5,73
Return speed	[mm/s]	18,11	10,79	9,06	9,06	9,06	9,36	7,08
Motor power	[kW]	1,5	1,5	2,2	2,2	3	3	3
Voltage	[V]	400/3	400/3	400/3	400/3	400/3	400/3	400/3
Frequency	[Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rotational speed	[rpm]	3000	3000	3000	3000	3000	3000	3000
Protection class	[IP]	54	54	54	54	54	54	54
Piston feed speed steps		2	2	2	2	2	2	2
Work width	[mm]	750	750	1100	1500	1100	1500	1200
Weight	[kg]	385	540	970	1145	280	280	325
Piston rod diameter	[mm]	55	90	110	110	125	125	140
Actuator head diameter	[mm]	80	100	120	120	160	160	175

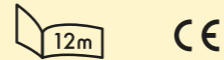
## HYDRAULIC GAP PRESS

Reliable construction and easy operation guarantee wide application of the machines - especially for small-lot production. Hydraulic gap presses are intended for all traditional plastic forming operations on metal plates and for surface drawing, ironing, volume plastic forming and combined operations. Due to the affordable price, the machines can also be used in small plants.



**Standard equipment:**

- light curtain
- bimanual control panel
- large table with T-slot and opening
- manual in English
- CE declaration of conformity



Strong construction from welded plates

Hydraulic system with pressure adjustment

Workspace guarded by light curtains

Bimanual control panel

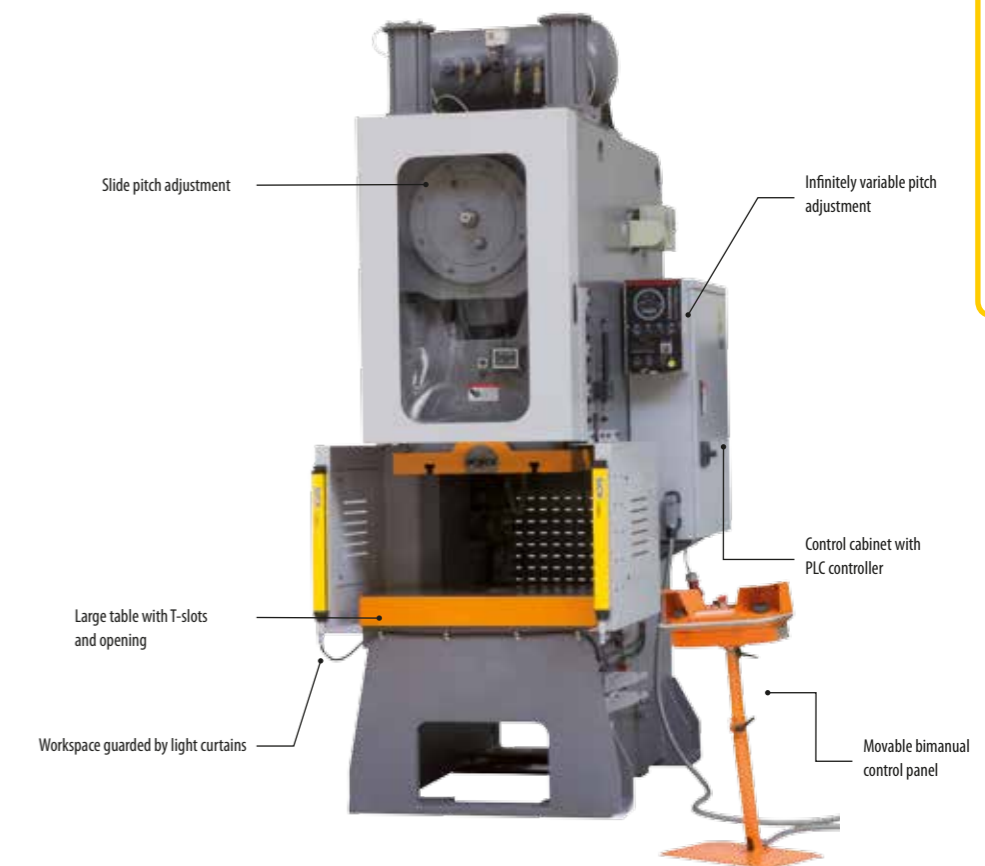
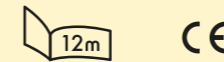
Table with T-slot and opening

Technical data:	Unit	25T	40T	63T	100T	160T	250T	400T
Pressure	[kN]	250	400	630	1000	1600	2500	4000
Hydraulic oil pressure	[MPa]	20,3	19,9	24,8	26,3	24,2	25	25
Max. slide feed	[mm]	350	400	500	500	500	600	1300
Slide work speed	[mm/s]	48	33	39	36	24	23	15
Slide return speed	[mm/s]	115	94	84	98	65	55	80
Side wall relief	[mm]	280	300	300	300	325	325	400
Table size	[mm]	500x600	550x600	580x600	580x650	800x650	800x650	950x750
Table foundation height	[mm]	730	730	730	730	730	800	800
Table opening diameter	[mm]	100	100	120	120	140	200	200
Main motor power	[kW]	5,5	5,5	7,5	11	11	22	30
External diameters length	[mm]	1200	1310	1550	1500	1620	2100	2300
width	[mm]	750	750	825	850	840	1280	1500
height	[mm]	2100	2330	2350	2400	2820	3500	3800
Net weight	[kg]	2000	2500	3800	5500	6500	8000	16000

Frame of the PM series eccentric press is made from steel plates, which provides high rigidity and stability. Crankshaft placed lengthwise, which makes the construction compact and simple. The machines come with pneumatic friction clutch, dry clutch and brake, which makes the pitch smooth and the operation efficient and noiseless. The gear in oil bath, splash lubrication. Cuboid slide moving on long, brown guide ways. Hydraulic overload fuse on the slide. Tool setting driven by electric motor. Electric system with brand PLC controller. The press comes with a pressure accumulator, power feed shaft and light curtain.

**Standard equipment:**

- light curtain
- bimanual control panel
- large table with T-slots and opening
- hydraulic overload fuse
- air clutch system
- PLC system
- infinitely variable pitch adjustment
- manual in English
- CE declaration of conformity
- slide pitch adjustment



Slide pitch adjustment

Infinitely variable pitch adjustment

Large table with T-slots and opening

Control cabinet with PLC controller

Workspace guarded by light curtains

Movable bimanual control panel

### EUROMET PM 63T MECHANICAL GAP PRESS

Technical data:	Unit	PM25	PM45	PM63	PM80	PM110	PM125	PM160	PM200	PM250
Pressure	[kN]	250	450	630	800	1100	1250	1600	2000	2500
Pitch under nominal load	[mm]	3	4	4	5	6	6	6	6	8
Slide pitch	[mm]	10-110	10-120	10-150	10-150	10-160	10-160	16-160	19-180	21-220
Pitch No.	[1/min]	80-120	70-90	60-80	50-70	40-60	40-60	35-50	30-50	25-40
Max. die set height	[mm]	250	270	300	320	350	350	350	450	500
Die height adjustment	[mm]	50	60	80	80	80	80	110	110	120
Relief	[mm]	210	230	300	300	350	350	380	390	420
Spacing between walls	[mm]	450	550	620	640	710	760	810	870	960
Width	[mm]	700	810	900	1000	1150	1150	1300	1400	1400
Worktable Length	[mm]	400	440	580	580	680	680	740	760	800
Thickness	[mm]	80	110	110	120	140	140	150	160	170
Diameter	[mm]	ø 170	ø 180	ø 200	ø 200	ø 260	ø 260	ø 300	ø 300	ø 320
Opening	[mm]	20	30	40	40	50	50	50	50	50
Worktable	[mm]	ø 150	ø 160	ø 180	ø 180	ø 140	ø 140	ø 260	ø 260	ø 280
Lower space Slide width	[mm]	360	600	680	710	810	810	920	920	970
Length	[mm]	300	360	400	440	500	500	580	600	650
Opening Punch diameter	[mm]	Ø 40	Ø 40	Ø 50	Ø 50	Ø 60	Ø 60	Ø 65	Ø 65	Ø 70
Depth	[mm]	60	60	80	80	80	80	90	90	90
Motor power	[kW]	3	5,5	7,5	7,5	11	11	15	18,5	22
Size (WxLxH)	[mm]	1460x950	1600x1100	1680x1200	1750x1250	1850x1400	1850x1450	2250x1560	2500x1580	2730x1640
		x2380	x2800	x3050	x3150	x3250	x3250	x3765	x3420	x3550
Net weight	[kg]	3100	4350	6500	8500	10800	11500	15000	16500	24500

# EUROMET NG MECHANICAL GUILLOTINE SHEARS

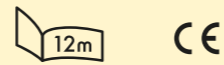
Mechanical guillotine shears are intended for straight shearing of sheets and strips made from steel, non ferrous metals and other materials . The state-of-the-art construction and stable frame provide safety and efficient operation.

High quality components enable precise metal plate machining.

Wide variety of standard equipment, high quality and affordable price enable you to purchase our machines even for small plants.

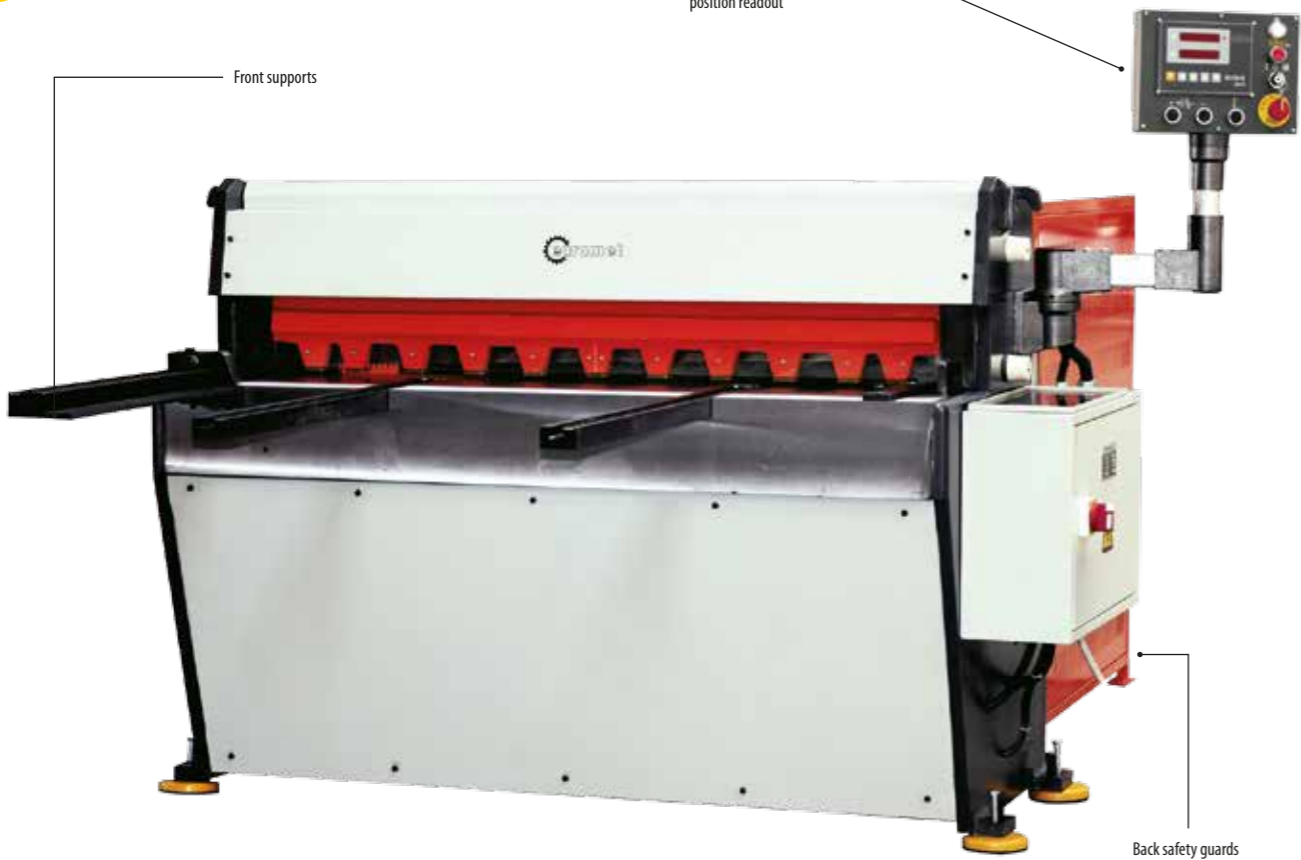
### Standard equipment:

- electrically driven back stop
- back stop position readout
- adjustable gap between shears
- front supports
- table ball slides
- set of shears
- foot switch
- manual in English
- CE declaration of conformity



Control panel with stop position readout

Front supports



Back safety guards

Technical data:	Unit	NG 3.5x1250	NG 3.2x1500	NG 3.2x2000	NG 2.5x2500	NG 3.2x2500
Max. thickness	[mm]	3.5	3.2	3.2	2.5	3.2
Max. width	[mm]	1250	1500	2000	2500	2500
Tool rake angle	[°]	1.5	1.5	1.75	1	1.3
Pitch/min	[°]			47		
Back stop adjustment	[mm]			0-650		
Motor power	[kW]	5.5	5.5	7.5	7.5	7.5
Net weight	[kg]	1450	1650	1800	2080	2200
Size (LxWxH)	[mm]	1860x2210 x1180	2124x2210 x1180	2624x2210 x1180	3124x2210 x1180	3124x2210 x1180

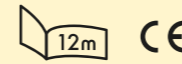
# EUROMET HGS HYDRAULIC GUILLOTINE SHEARS

EUROMET hydraulic guillotine shears are intended for straight shearing of sheets and strips made from steel, non-ferrous metals and other materials .

The state-of-the-art construction and stable frame provide safety and efficient operation. High quality components enable precise metal plate machining. Wide variety of standard equipment, high quality and affordable price enable you to purchase our machines even for small plants.

### Standard equipment:

- electrically driven back stop
- back stop position digital readout
- adjustable gap between shears
- set of shears
- ball plate guidance on the table
- 3 front supports
- front stop with measure
- side safety guards
- back safety guard
- foot switch
- manual in English
- CE declaration of conformity



### Additional equipment:

- NC system
- back stop ball screws



Back stop position digital readout



Front supports



Precise adjustment of back stop position

Optional NC system with touch screen.  
Optional back stop and thickness stop adjustment



Max. sheet thickness [mm]	Max. sheet length [mm]	Angle between cutting edges	Pitch No [min-1]	Stop feed [mm]	Side walls spacing [mm]	Shears length [mm]	Table height [mm]	Motor power [KW]	Weight [kg]	Size LxWxH [mm]
4	2000	1° 30'	18	600	2150	2050	740	4	3500	2550 x 1430 x 1560
4	2500	1° 30'	18	600	2700	2600	740	4	4000	3100 x 1430 x 1560
4	3200	1° 30'	14	600	3430	330	800	5,5	5300	3840 x 1680 x 1670
6	2500	1° 30'	18	20-600	2700	2600	800	7,5	4800	3130 x 1530 x 1600
6	3200	1° 30'	14	20-600	3430	3300	800	7,5	6580	3840 x 1675 x 1620
6	4000	1° 30'	14	20-600	4220	4100	800	7,5	8500	4630 x 1850 x 1700
8	2500	1° 30'	14	20-600	2720	2600	800	11	6500	3240 x 1610 x 1620
8	3200	1° 30'	10	20-600	3450	3300	800	11	7800	4010 x 1610 x 1620
8	4000	1° 30'	8	20-600	4240	4100	800	11	11000	4680 x 1705 x 1700
10	2500	1° 48'	12	20-600	2720	2600	800	15	8000	3350 x 2050 x 1950
10	3200	1° 48'	10	20-600	3450	3300	800	15	10000	4050 x 2050 x 1950
12	2500	1° 30'	12	10-800	2765	2600	810	18,5	11000	3320 x 2050 x 2230
12	3200	1° 30'	10	10-800	3465	3300	810	18,5	12500	4020 x 2050 x 2230
16	2500	2° 09'	8	10-800	2785	2600	800	18,5	15000	3520 x 2060 x 2350
16	3200	2° 30'	7	10-800	3485	3300	850	22	18000	4100 x 2060 x 2010
20	2500	2° 30'	6	10-800	2850	2600	860	37	16000	3440 x 2088 x 2570
20	3200	2° 30'	5	10-800	3550	3300	860	37	25000	4100 x 2350 x 2710
12	4000	1° 30'	8	10-800	4265	4100	860	22	16000	4850 x 2400 x 2200
16	4000	2° 09'	6	10-800	4285	4100	900	30	23000	4900 x 2400 x 2250
20	4000	2° 30'	4	10-800	4350	4100	900	37	30000	4920 x 2400 x 2790



# HYDRAULIC GUILLOTINE SHEARS YSD HGO25\6, HGO31\6,35, HGO40\6,35

HGO series machines are based on solutions utilised by the renowned manufacturer of hydraulic guillotine shears and press brakes - LVD from Belgium. State-of-the-art construction, brand sub-assemblies and precise manufacturing make the machines suitable even for most demanding customers. HGO hydraulic guillotine shears are intended for straight shearing of sheets and strips made from steel, non-ferrous metals and other materials.

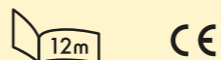
The state-of-the-art construction and stable frame provide safety and efficient operation. High quality components enable precise metal plate machining. Wide variety of standard equipment, high quality and affordable price enable you to purchase our machines even for small plants.

### Standard equipment:

- electrically driven back stop
- digital readout
- ball guides
- front stop with measure
- upper shear inclination angle adjustment
- adjustable gap between shears
- material ball guide
- material support on table
- feed potentiometer
- set of shears
- shear line light
- manual in English
- CE declaration of conformity

### Additional equipment:

- material delivery system
- small width material reception system
- NC system on one axis
- CNC system



Serie HGO



Machine with NC system



Control panel

Technical data:	Unit	25\6	31\6,35	40\6,35
Max. metal sheet thickness	(45 kg/mm <sup>2</sup> )	6	6,35	6,35
Max. metal sheet thickness	(60 kg/mm <sup>2</sup> )	3	3	3
Shear length	[mm]	2500	3100	4000
Max. shearing force	[kN]	170	145	170
Stop travel range	[mm]	750	750	750
Tool rake angle	[°]	0,5-2,5	0,5-3	0,5-2,5
Strokes per min.	[-]	14\45	12\45	10\45
Upper sheet clamps	[-]	13	17	22
Oil tank capacity	[l]	110	110	200
Motor power	[kW]	7,5	7,5	7,5
Weight	[kg]	4700	5500	8000
Length	[mm]	3445	4045	4995
Width	[mm]	1727	1737	1862
Height	[mm]	1615	1750	1900

# YSD HGA20\4, HGA25\6, HGA31\6, HGA40\6

# HYDRAULIC GUILLOTINE SHEARS

Due to the affordable price, the machines can be also used in small plants. Reliable construction and easy operation guarantee wide application of the machines - especially for small-lot production. Hydraulic gap presses are intended for all traditional plastic forming operations on metal plates and for surface drawing, ironing, volume plastic forming and combined operations.

### Standard equipment:

- electrically driven back stop
- mechanical readout
- front stop with measure
- adjustable gap between shears
- set of shears
- shear line light
- manual in English
- CE declaration of conformity

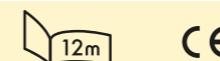
### Additional equipment:

- digital readout
- ball guides
- relief in side wall
- material ball guide
- material support on table
- feed potentiometer
- material delivery system
- small width material reception system
- NC system on one axis
- CNC system

Serie HGA



Machine with NC system



Technical data:	Unit	20\4	25\6	31\6	40\6
Max. metal sheet thickness	(45 kg/mm <sup>2</sup> )	4	6	6	6
Max. metal sheet thickness	(60 kg/mm <sup>2</sup> )	2	3	3	3
Shear length	[mm]	2000	2500	3100	4000
Max. shearing force	[kN]	97	218	150	150
Stop travel range	[mm]	750	750	750	750
Tool rake angle	[°]	1,5	1,5	2	2
Strokes per min.	[-]	18\36	18\36	15\45	11\45
Upper sheet clamps	[-]	11	12	13	22
Oil tank capacity	[l]	144	201	227	250
Motor power	[kW]	5,5	7,5	7,5	7,5
Weight	[kg]	4000	4500	5800	7300
Length	[mm]	2495	2995	3500	4400
Width	[mm]	1750	1750	2166	2200
Height	[mm]	1910	1910	2160	2260

## HYDRAULIC GUILLOTINE SHEARS

The machine equipped with two shears on the servo motors, adjustable tool rake angle. This feature eliminates sheet twisting during shearing of thin plates and narrow strips. The construction is based on Belgian LVD machines. High quality manufacturing and sub-assemblies from companies such as: Bosch Rexroth, Siemens and Telemecanique guarantee long, fault-free operation.

### Serie HGN



#### Features:

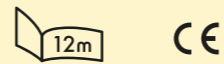
- adjustable tool rake angle with digital readout
- adjustable gap between shears with dial display
- back stop position adjustment
- back stop position digital readout
- back stop ball screws
- adjustable upper shear descent length shear counter

#### Standard equipment:

- electrically driven back stop
- digital readout
- front stop with measure
- upper shear inclination angle adjustment
- adjustable gap between shears
- material ball guide
- material support on table
- feed potentiometer
- set of shears
- counter
- shear line light
- manual in English
- CE declaration of conformity

#### Additional equipment:

- relief in side wall
- back stop with adjustable lock
- material delivery system
- small width material reception system
- NC system on one axis
- CNC system



HGN 31/13 HYDRAULIC GUILLOTINE SHEARS

Technical data:	Unit	25\8	31\8	40\8	50\8	25\13	31\13
Max. metal sheet thickness (45 kg/mm <sup>2</sup> )	[mm]	8	8	8	8	13	13
Max. metal sheet thickness (60 kg/mm <sup>2</sup> )	[mm]	4	4	4	4	8	8
Shear length	[mm]	2500	3100	4000	5000	2500	3100
Max. shearing force	[kN]	220	275	275	275	580	580
Stop feed range	[mm]	750	750	750	1000	1000	1000
Tool rake angle	[°]	0,5-2,5	0,5-2	0,5-2	0,5-2,5	0,5-2,5	0,5-2,5
Strokes per min.	[-]	17\45	15\45	13\45	8\30	9\35	7\35
Upper sheet clamps	[-]	14	13	22	26	14	13
Oil tank capacity	[l]	290	350	400	605	383	449
Motor power	[kW]	11	11	15	15	15	15
Weight	[kg]	6000	6500	10800	19000	7500	8700
Length	[mm]	3155	3755	4750	5895	3260	3860
Width	[mm]	1848	1848	1918	2485	1960	1960
Height	[mm]	2180	2180	2325	2520	2320	2320

## YSD HGS HYDRAULIC GUILLOTINE SHEARS

The machine comes with adjustable tool rake angle, gap between shears, adjustable back stop with digital readout, adjustable shear descent length, shear counter. Adjustable stop enables shearing metal sheets through the machine. The machine comes with shearing line light. Suitable for all production plants and small workshops.

### Standard equipment:

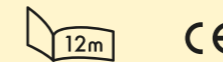
- electrically driven back stop
- back stop with adjustable lock
- digital readout
- front stop with measure
- upper shear inclination angle adjustment
- adjustable gap between shears
- material ball guide
- material support on table
- feed potentiometer
- set of shears
- front stop enables shearing at an angle
- shear line light
- manual in English
- CE declaration of conformity

### Additional equipment:

- ball guides
- relief in side wall
- counter
- material delivery system
- small width material reception system
- NC system on one axis
- CNC system - feed potentiometer



Serie HGS



Technical data:	Unit	62\6	62\8	80\10	40\13	62\13	80\13	120\13	25\16	31\16	40\16	50\16	62\16	80\16
Max. sheet thickness (45 kg/mm <sup>2</sup> )	[mm]	6	8	10	13	13	13	13	16	16	16	16	16	16
Max. sheet thickness (60 kg/mm <sup>2</sup> )	[mm]	3	4	6	8	8	8	8	10	10	10	10	10	10
Shearing length	[mm]	6200	6200	8000	4000	6200	8000	12000	2500	3100	4000	5000	6200	8000
Max. shearing force	[kN]	132	220	430	730	620	620	730	730	850	850	850	850	850
Stop feed	[mm]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Shear rake angle	[°]	0,5-2,5	0,5-2,5	0,5-2	0,5-2	0,5-2,5	0,5-2,5	0,5-2	0,5-3	0,5-2,5	0,5-2,5	0,5-2,5	0,5-2,5	0,5-2,5
Strokes per min.	[-]	7\45	8\35	7\30	10\30	7\45	7\30	5\30	12\33	12\33	8\30	6\20	7\20	7\30
Upper sheet clamps	[-]	32	32	42	20	32	42	60	13	16	20	22	32	42
Oil tank capacity	[l]	686	686	845	561	686	1600	19000	499	591	561	662	686	1800
Motor power	[kW]	15	22	37	30	30	60	70	22	22	30	37	37	60
Weight	[kg]	20000	24000	45000	17000	28000	150000	55000	11000	12000	18000	28000	36000	85000
Length	[mm]	7065	7095	9016	4885	7100	13260	9090	3265	3865	5020	5935	7135	9150
Width	[mm]	2530	2540	2615	2190	2515	4045	3525	2140	2140	2290	2550	2550	3250
Height	[mm]	2650	2815	3000	2488	2830	4760	3360	2350	2350	2575	2870	2870	3520

Technical data:	Unit	21\20	25\20	31\20	40\20	62\20	25\25	31\25	40\25	25\30	31\30
Max. sheet thickness (45 kg/mm <sup>2</sup> )	[mm]	20	20	20	20	20	25	25	25	30	30
Max. sheet thickness (60 kg/mm <sup>2</sup> )	[mm]	12	12	12	12	12	16	16	16	20	20
Shearing length	[mm]	2100	2500	3100	4000	6200	2500	3100	4000	2500	3100
Max. shearing force	[kN]	1270	1270	1370	1270	1370	1960	1960	1500	2200	2200
Stop feed	[mm]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Shear rake angle	[°]	0,5-3	0,5-3	0,5-2,5	0,5-3	0,5-2,5	0,5-3	0,5-2,5	0,5-3,5	0,5-3,5	0,5-3,5
Strokes per min.	[-]	7\35	9\35	7\35	5\20	5\20	5\35	5\40	5\20	4\15	4\15
Upper sheet clamps	[-]	11	13	16	20	32	13	16	20	13	16
Oil tank capacity	[l]	370	499	591	627	1700	828	1068	1100	920	1300
Motor power	[kW]	30	30	30	45	60	45	45	37	55	55
Weight	[kg]	13000	14000	15000	29000	51000	22000	25000	38000	29000	32000
Length	[mm]	2970	3315	3970	5050	7300	3585	4260	5335	3885	4485
Width	[mm]	2275	2275	2275	3530	3600	2800	2900	2900	2900	2900
Height	[mm]	2470	2470	2470	3140	3200	2835	2885	3735	2985	2985



# GUIMADIRA PM13530, PM13540, PM16030, PM16040, PM22040 HYDRAULIC PRESS BRAKES

# CNC JOC HB HYDRAULIC PRESS BRAKES

PM series press brakes manufactured in Portugal are suitable for customers who seek state-of-the-art technology, high quality and affordable price. PM series machines come with synchronised Y1 and Y2 axis control, provide efficiency, and fault-proof and simple operation. The company has more than 50 years' experience on the market, which is a guarantee of the best quality. Guimadira PM press brakes comply with Directive 98/37/CE.

### Main features of Guimadira PM presses:

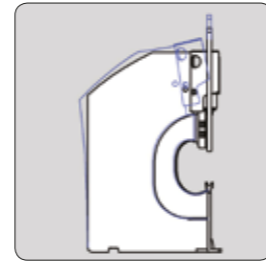
- HEXA-C Technology - press frame with perpendicular upper beam travel independent of side walls bend
- Y1, Y2, X axes control
- parallel beam descent and depth controlled by precise DNC driven servovalves
- beam position controlled by two linear encoders placed on both sides of the beam
- beam travel accuracy - 0.01 mm
- sectional and adjustable upper die chuck, fast tool fixing system



Front supports



Safety system



Lazer safe HEXA-C Technology

### Standard equipment:

- ADControl 10 with 7" colour TFT display, 3 axes control: Y1, Y2 and X, graphic display, USB and RS232 ports
- 2D programming
- bending sequence optimisation
- tool fast-clamp
- internal hydraulic pump
- back stop with electric drive - CNC
- two back stop pins, height adjustment
- 2 x 500 mm front supports
- back stop range - 630 mm, precise no-backlash screws
- foot switch - controller module may be placed anywhere
- laser sensor for increased safety
- side safety guards with acrylic screens
- standard tool set
- CE declaration of conformity
- manual

### Additional equipment:

- Cybelec DNC60, DNC880S controls
- driven R axis - vertical stop feed
- driven Z axis - cross stop pins feed
- table deflection compensation
- additional back stop
- special tools



Beam on double slide ways with three point lead provide smooth operation, programmable Y1 and Y2 axes. Controller: Italian ESA/GV S530 controller with colour LCD 2D screen (optional: S540 or kvara2004 controller with 2D) Features: automatic programming, automatic bending force calculation depending on sheet thickness, hydroelectric synchronisation of servo motors, positioning accuracy, re-positioning accuracy, control system feedback. Controllers compatible with Windows.

Controlled axes: Y1, Y2, hydraulic V table deflection compensation. Table deflection compensation: depending on the machine length, there are from 2 to 8 CNC controlled hydraulic cylinders in the table. Table deflection compensation during operation. Two-stage filter in the hydraulic system: high-pressure filter and filter in oil tank. Machine can be operated with load on only one side, enables tapered bending (controller enables selecting options such as beam inclination, time of hold after bending.) Optional two-machine mode.



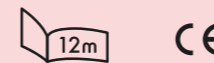
EUROMET HB100/3100 press with additional equipment

### Standard equipment:

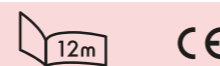
- ESA 530 controller
- laser safety system
- hydraulic table deflection compensation - 3 cylinders on 2,500 mm and 3,100 m table.
- 4 cylinders for 4,000 mm table
- universal die
- universal sectional upper punch
- adjustable control panel
- back stop controlled by CNC
- two front supports
- big relief in side wall
- manual in English
- CE declaration of conformity

### Additional equipment:

- ESA S540 controller
- ESA Kvara 2004 controller
- Z1, Z2 axes control
- fast upper punch change
- special punches
- special dies



Technical data:	Unit	PM 13530	PM 13540	PM 16030	PM 16040	PM 22040
Pressure	[kN]	1350	1350	1600	1600	2200
Bending length	[mm]	3050	4050	3050	4050	4050
Distance between back walls	[mm]	2550	3150	2550	3150	3150
Beam pitch	[mm]	250	250	250	250	250
Max. bore (without tools)	[mm]	500	500	500	500	500
Side wall relief	[mm]	400	400	400	400	400
Approach speed	[mm/s]	120	120	120	120	100
Working speed	[mm/s]	7	7	7	7	8
Return speed	[mm/s]	70	70	70	70	85
X axis feed	[mm]	625	625	625	625	625
X axis feed speed	[mm/s]	350	350	350	350	350
R axis feed (optional)	[mm]	150	150	150	150	150
R axis feed speed (optional)	[mm/s]	40	40	40	40	40
Z1-Z2 axis feed (optional)	[mm]	90 - 2150	90 - 2750	90 - 2150	90 - 2750	90 - 2750
Z1-Z2 axis feed speed (optional)	[mm/s]	600	600	600	600	600



Technical data:	Unit	HB35-1250	HB50-1500	HB50-2000	HB100-2500	HB100-3100	HB100-4000	HB125-2500	HB125-3100	HB125-4000	HB160-3100
Nominal pressure	[kN]	350	500	500	1000	1000	1000	1250	1250	1250	1600
Worktable length	[mm]	1250	1500	2000	2500	3100	4000	2500	3100	4000	3100
Frame spacing	[mm]	960	1200	1500	2100	2700	3300	2100	2700	3300	2700
Relief depth	[mm]	205	205	205	320	320	320	320	320	320	350
Max. bore	[mm]	430	430	430	480	480	480	480	480	480	480
Beam pitch	[mm]	165	165	165	210	210	210	210	210	210	210
Worktable height	[mm]	835	890	890	830	830	830	830	830	830	830
Main servo motors	[-]	2	2	2	2	2	2	2	2	2	2
Compensation servo motors	[-]	-	-	-	3	3	4	3	3	4	3
Skip feed	[mm/s]	150	160	170	190	200	200	160	200	200	180
Working speed	[mm/s]	10	10	10	10	10	10	10	10	10	10
Return speed	[mm/s]	150	140	130	110	132	132	132	132	132	124
X axis feed	[mm]	500	500	600	600	600	600	600	600	600	600
R axis feed	[mm]	200	200	200	200	200	200	200	200	200	200
Length	[mm]	1900	2150	2700	3550	3500	4400	3550	3500	4400	3500
Width	[mm]	1200	1220	1500	1430	1300	1300	1450	1300	1300	1700
Height	[mm]	2130	2130	2130	2500	2500	2500	2500	2500	2500	2650
Weight	[kg]	2500	2800	3800	7500	8000	11000	7600	8000	11000	11000
Motor power	[kW]	3	3	3	7.5	7.5	7.5	7.5	7.5	7.5	11
Oil tank capacity	[l]	55	55	55	300	400	600	300	400	600	500

\*bigger machines on request

# YSD PPT HYDRAULIC PRESS BRAKES

State-of-the-art construction, brand sub-assemblies and precise manufacturing guarantee the best quality at affordable price. The machines come with beam which counterbalances the slide. YSD machines are based on solutions utilised by the renowned manufacturer of hydraulic guillotine shears and press brakes - LVD from Belgium.

### Standard equipment:

- electrically driven back stop
- back stop position digital readout
- electric control of punch descent depth
- bending depth digital readout
- bending compensation on punch chucks
- 2 material supports
- 4-way die
- set of tools
- manual in English
- CE declaration of conformity

### Standard equipment:

- electrically driven back stop
- back stop position digital readout
- electric control of punch descent depth
- bending depth digital readout
- bending compensation on punch chucks
- 2 material supports
- 4-way die
- set of tools
- manual in English
- CE declaration of conformity



Serie PPT

Model	Max. pressing	Table length	Slide pitch	Slide adjustment range	Distance between slide and table	Relief in side wall	Table width	Feed speed	Working speed	Return speed	Motor power	Weight maszyny	Stop feed	Oil tank	Size (LxWxH)
	[kN]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm/s]	[mm/s]	[mm/s]	[kW]	[kg]	[mm]	[l]	[mm]
40/12,5	400	1250	100	80	300	200	140	100	10	90	3	2000	400	63	1555 x 1075 x 2149
40/20	400	2000	100	80	300	200	140	100	10	90	3	2500	400	63	2160 x 1128 x 1980
40/25	400	2500	100	80	300	200	140	100	10	90	3	3000	400	109,5	2660 x 1128 x 1980
50/20	500	2000	100	80	300	200	140	78	7	80	3	2700	400	63	2160 x 1128 x 2030
70/25	700	2550	100	80	300	300	140	100	7	88	4	4550	600	109,5	2660 x 1200 x 2120
70/30	700	3050	100	80	300	300	140	100	7	88	4	4850	600	130,8	3145 x 1200 x 2120
70/40	700	4000	100	80	300	300	140	100	7	88	4	6200	600	130,8	4050 x 1200 x 2315
100/25	1000	2550	130	110	310	300	180	100	8	60	5,5	5820	600	130,8	2645 x 1290 x 2240
100/30	1000	3050	130	110	310	300	180	100	8	60	5,5	6270	600	130,8	3145 x 1290 x 2240
100/40	1000	4000	130	110	310	300	180	100	8	60	5,5	8200	600	130,8	4050 x 1320 x 2420
135/30	1350	3050	130	110	310	300	180	100	8	60	7,5	7500	600	130,8	3145 x 1310 x 2290
135/40	1350	4000	130	110	310	300	180	100	8	60	7,5	9260	600	130,8	4050 x 1330 x 2420
165/30	1650	3050	150	120	350	300	180	100	8	68	11	8500	600	164,7	3145 x 1550 x 2600
165/40	1650	4000	150	120	350	300	180	100	8	68	11	10500	600	164,7	4050 x 1550 x 2600

# BOMAR CIRCULAR ALUMINIUM SAW

### AL 400

Semi-automatic circular aluminium saw. The machine enables cutting at 90° angle (right) and 45° (left). The machine in standard version comes with horizontal and vertical vice clamp. Disc diameter: 400 mm. The machine requires compressed air.

### AL 500A

Automatic circular saw intended for cutting sections and solid materials from aluminium, copper hard plastic at 90° angle. Cooling liquid tank in base. Circular saw placed on console. Power material feed.

### AL 500 / AL 600

Semi-automatic circular saw intended for cutting sections and solid materials from aluminium, copper hard plastic at 60°- 0°-90° angle range. Cooling liquid tank in base.



### Aluminium Serie 400-600



AL 400

AL 500A

AL 600

AL 500

Technical data :	Unit	AL. 400	AL. 500	AL. 500A	AL. 600
Min. cutting diameter	[mm]			ø5	
Material feed working height	[mm]	1010	1067	1060	1070
Cutting disc dimensions (LxWxH)	[mm]	400 x 30 x 3,6	500 x 30 X 4,1	500 x 30 x 4	600 x 30 x 4,6
Motor power	[kW]	3		4	5,5
Supply	[V]			3x400/3x230	
Total power	[kVA]	4,3	5,4	5,8	8,3
Size (LxWxH)	[mm]	850 x 800 x 1440	905x940x1550	960x1800x1580	1005x1003x1160
Weight	[kg]	310	500	550	620
Cutting angle AL. 500 units	Unit	○	□	□	□
60°L	[°]	ø 96	100 x 55	45 x 125	85 x 85
0° (jaws drawn out)	[°]	ø120	220 x 25	90 x 120	110 x 110
0° (jaws withdrawn)	[°]	ø 90	285 x 70	285 x 70	70 x 70
45° R	[°]	ø120	150 x 40	65 x 125	100 x 100
60° R	[°]	ø 96	100 x 55	45 x 125	85 x 85
Cutting Angle AL. 500	Unit	○	□	□	□
60°L	[°]	120	120 x 70	55 x 170	115 x 115
0° (jaws drawn out)	[°]	170	265 x 25	90 x 175	150 x 150
0° (jaws withdrawn)	[°]	135	395 x 70	375 x 95	95 x 95
45° R	[°]	150	180 x 50	80 x 170	130 x 130
60° R	[°]	120	120 x 70	55 x 170	105 x 105
Cutting Angle AL. 500A	Unit	○	□	□	□
	[°]	170	325x110	130x300	130
Cutting Angle AL. 600	Unit	○	□	□	□
60°L	[°]	145	155 x 50	40 x 225	125 x 125
0° (jaws drawn out)	[°]	205	310 x 50	110 x 210	175 x 175
0° (jaws withdrawn)	[°]	170	500 x 50	125 x 455	125 x 125
45° R	[°]	180	215 x 50	50 x 225	155 x 155
60° R	[°]	145	155 x 50	40 x 225	125 x 125



Come in 3 machine series depending on the automation of the cutting process.

AC series - the most basic machines with following features:

- semi-automatic cutting
- cutting at an angle
- pneumatic cutting angle adjustment system (optional)
- roll-feeder - on feeding side (optional)
- roll-feeder - on receiving side with a stop (optional)

DR series - automatic circular cutting saws with following features:

- digital display of operations (cutting length, cutting No. controller, counter)
- hydraulic material delivery system
- feed 3x610 mm (optional - 3x1,000)
- head vertical slide ways enable precise cutting
- automatic lubrication system provides long, fault-proof operation
- patented carriage provides stable material feed and high precision
- closed cooling system provides smooth cutting surfaces and prolongs life of the cutting disc
- the machine comes with workspace guards complying with CE

NC series - automatic circular cutting saws with NC with following features:

- vice jaws (SOCO patent, V system) reducing discard to 20 mm
- head vertical slide ways enable precise cutting
- servomotor driven feed - accuracy of 0.05 - 0.1 mm
- max. cutting diameter: pipe - 110 mm, solid materials - 70 mm
- gearbox with overload protection prolongs life of the machine

Example of cutting time:

- bar diameter: 50 mm, length: 150 mm, cycle time: 28 s
- pipe diameter: 75.4 mm, length: 139 mm, cycle time: 11.5 s

**Standard equipment:**

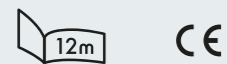
- standard vice jaws
- tool box
- manual in English
- CE declaration of conformity

**Additional equipment:**

- roll-feeder - on feeding side (RTI)
- roll-feeder - on receiving side (RTO) with stop and measure
- special vice jaws



Soco FA-111DR Cutting Saw



Technical Data:	Unit	HVS 375AC	HVS 400AC	FA111DR	FA111NC	FA127DR	FA127NC
Cutting angle	[°/s]	90	45	90	45	90	90
Pipe	[mm]	110	110	125	125	114	114
Section	[mm]	110x110	95x95	125x125	100x100	110x110	100x100
Roller	[mm]	75	55	100	70	75	75
Square bar	[min]	70x70	50x50	90x90	75x75	70x70	70x70
Disc speed range	[rpm]	72/32	55/22	44/22	22/16	22-108	22-65
HSS disc size	[mm]	250 - 370		250 - 400		250 - 370	300 - 400
Feed	[-]	[-]	[-]	[-]	[-]	DR standard - 10 - 600 mm x 1-3 (max 1,800 mm)	NC-10-550 Unlimited
Weight	[kg]	400		460		1560	1600
Size	[mm]		700x1500x1750			DR standard 2310x1100x1850	NC standard

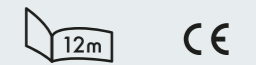
SOCO series machines enable cutting, deburring and cleaning the workpiece by air blowthrough. The machine is highly efficient, provides precision of cutting and enables machining a detail in just 3 - 4 seconds. BDB-70-3 - deburring machine enabling machining 2 pipe ends at the same time. The pipe is loaded on the feeder placed between two rotary brushes. Machining takes place when the pipe travels between the brushes. After deburring the piece is cleaned by air blowthrough.

**SOCO SA-78NCE Circular Saw + BDB-70 Deburring Machine**



- Standard equipment:**
- magazine with MB6 feeder for 6m pipes
  - SOCO i2 control system
  - integrated lubrication system controlling stages of cutting process
  - inverter enabling rotational speed adjustment
  - 1 (optional: 2) stop with digital readout
  - tool post
  - manual in English
  - CE declaration of conformity

- Additional equipment:**
- additional stop with digital readout
  - set of nylon protections (minimising scratches on the workpiece)
  - Feeding rolls
  - Magazine feeding rolls
  - Chains
  - Jaws
  - machine compatible with BDB - 70 - 3 deburring machine
  - extended feeder



SOCO i2 control system



Material cutting station



Deburring of finished pieces (optional)

Technical data	Unit	SA-78 NCE
Cutting dimensions	Pipe [mm]	Ø 12 ~ Ø 65
	Square section [mm]	10x10 ~ 70x70
	Rectangular section [mm]	15x10 ~ 80x70
	Roller [mm]	Ø 12 ~ Ø 30
Min. cutting length	[mm]	50
Max. cutting length	[mm]	2000/3000/4500
Cutting length control		1 or 2 stops. Optional - NC stop.
Length of the pipe	[mm]	3.0 ~ 6.5/8.5/12.5
Min. distance between two stops	[mm]	30
Cutting speed	[m/min]	45 ~ 272 (Ø 285)
Feed speed	[m/sek]	0.35 - 2.80
Cutting disc cooling		Oil mist (closed cooling - optional for HSS discs)
Cutting head		Servomotor
Podawanie materiału		Servomotor
Size (LxWxH)	[mm]	10900x2600x1900
Weight	[kg]	3000 (MB6 1300)

## EUROMET 300A, BS-215G, BS-280G **BANDSAW**

Euromet 300 A is an automatic bandsaw with a torque arm. High quality hydraulic unit ensures fast material feed. The standard version of the machine comes with two cutting speeds, electronic control of cutting speed is optional and enables infinitely variable speed adjustment between 20-90 m/min. The machine intended mainly for heavy duty cutting of identical elements.



BS-215G



BS-280G

### Main features:

- High quality hydraulic unit providing precise rotational motion
- rigid construction
- strong vices with replaceable jaw covers
- band cleaning system
- infinitely variable feed adjustment
- electric and mechanical protection makes the operation safer



Technical data	Unit	BS-215G	BS-280G	300 A
Cutting band size	[mm]	20x0.9x2060	27x0.9x2450	3750x34x1,1
Motor power	[kW]	0.6/0.85	0.75/1.1	3
Cutting speed	[m/min]			20-90 (infinitely variable adjustment)
Size	[mm]	1160x710x790	1330x900x1050	1900x1800x1450
Weight	[kg]	245	287	960
<b>EUROMET BS-215G cutting range</b>	<b>Unit</b>	<b>Ø</b>	<b>Cutting range</b>	<b>□</b>
0°/90°	[mm]	150	200x120	
60°	[mm]			
45°	[mm]	120	130x90	
<b>EUROMET BS-280G cutting range</b>	<b>Unit</b>	<b>Ø</b>	<b>Cutting range</b>	<b>□</b>
0°/90°	[mm]	200	280x230	
60°	[mm]	100	180x230	
45°	[mm]	160	180x230	
<b>EUROMET 300 A cutting range</b>	<b>Unit</b>	<b>Ø</b>	<b>Cutting range</b>	<b>□</b>
0°	[mm]	300	390x250	270
45°	[mm]	270	270x250	250
60°	[mm]	170	270x170	170

## EUROMET SKOLAR 6S **CNC MACHINING CENTRE**

SKOLAR X3 is a small, economical CNC milling machine of educational value at low price. Axes driven by high quality stepper motors, cast base provide high rigidity. Renowned CNC system enables teaching on one of the most popular models on the market. The machine enables all basic milling operations. Small size, weight and 230V power supply makes the machine suitable for almost all environments.



Sinumerik 808D control system



Manual chuck



4-cutter tool post



Technical data:	Unit	Value
Control system	[-]	Sinumerik 808D
Power	[Hz]	230V~50
Swing over bed	[mm]	260
Swing over slide	[mm]	110
Max. turning length in centres	[mm]	550
Bed width	[mm]	135
Spindle drive motor power	[kW]	1,0
Spindle rotational speed range	[rpm]	100 – 3000
Spindle taper	[-]	MT3
X axis feed	[mm]	180
Z axis feed	[mm]	320
X/Z axis skip feed	[mm/min]	2000
X/Z axis working feed	[mm/min]	500
Tailstock taper	[-]	MT2
Tailstock spindle diameter	[mm]	30
Tailstock quill feed	[mm]	50
Tailstock feed	[mm]	+/-4
Tool sockets	[pieces]	4
Length x width x height	[mm]	1460 x 760 x 1450
Weight	[kg]	440



## EUROMET SKOLAR C1 CNC LATHE

SKOLAR C1 is a small, economic CNC lathe with a flat bed, the machine provides educational value at low price. Axes driven by high quality stepper motors. The lathe may be controlled both manually and by PC software. The machine enables all basic lathe operations such as machining cylindrical, tapered, internal and external surfaces, facing, slitting, threading etc. Small size, weight and 230V power supply makes the machine suitable for almost all environments.



### Standard equipment:

- CE declaration of conformity
- Siemens 808D control system installed on PC
- manual 3 jaw chuck
- Manual and automatic operation
- High quality stepper motors
- Power: 230V/50HZ
- Manual in English

### Additional equipment:

- 4 jaw chuck (independent)
- Tool set
- Live centre
- Drill chuck
- Base

Technical data:	Unit	Value
Swing over bed	[mm]	140
Swing over slide	[mm]	75
Max. turning length in centres	[mm]	250
Spindle bore	[mm]	10
Spindle rotational speed	[rpm]	100-2000
Spindle taper	[-]	MT2
X/Z axis skip feed	[mm/min]	2000
X/Z axis work feed	[mm/min]	500
Z axis feed	[mm]	150
X axis feed	[mm]	100
X axis motor torque	[N.m]	1.35
Z axis motor torque	[N.m]	1.35
Tools	[pieces]	2
Tailstock quill taper	[-]	MT1
Main motor power	[W]	150
Dimensions	[mm]	730 x 380 x 350
Box dimensions	[mm]	830 x 480 x 450
Weight (net/gross)	[kg]	45/60



## CNC EUROMET SKOLAR i6S EDUCATIONAL LATHE

SKOLAR i6S is a small, economic CNC lathe with a slant bed, the machine provides educational value at low price. Axes driven by high quality stepper motors and cast bed provide high rigidity. Renowned CNC system enables teaching on one of the most popular models on the market. The machine comes with a 8-position tool head. The machine enables all basic lathe operations such as machining cylindrical, tapered, internal and external surfaces, facing, slitting, threading etc. Small size, weight and 230V power supply makes the machine suitable for almost all environments.



Technical data:	Unit	Value
Swing over bed	[mm]	300
Max. turning length	[mm]	400
Chuck diameter	[mm]	125
Rotational speed	[rpm]	100-3000
Spindle taper	[-]	MT3
X/Z axis skip feed	[mm/min]	5000
X/Z work feed	[mm/min]	1000
Z axis feed	[mm]	320
X axis feed	[mm]	240
X axis motor	[W]	400
Z axis motor	[W]	400
Tools	[pieces]	8
Tailstock quill diameter	[mm]	17
Tailstock quill taper	[-]	MT2
Tailstock quill feed	[mm]	50
Positioning accuracy	[mm]	0.005
Re-positioning accuracy	[mm]	0.005
Main motor power	[W]	1500
Size	[mm]	1400x770x1600
Box size	[mm]	1650x1090x1920
Weight (net/gross)	[kg]	620/700

### Standard equipment:

- Sinumerik 808D control system
- 8-position automatic tool head
- Slant bed
- High quality stepper motors
- Precise linear guide ways
- Power: 230V/50HZ
- CE declaration of conformity
- Manual in English



## EUROMET SKOLAR X1 CNC EDUCATIONAL MILLING MACHINE

SKOLAR X1 is a small, economical CNC milling machine of educational value at low price. Axes driven by high quality stepper motors. The milling machine may be operated manually and by PC software. The machine enables all basic milling operations. Small size, weight and 230V power supply makes the machine suitable for almost all environments.



CE

### Standard equipment:

- CE declaration of conformity
- Siemens 808D control system installed on PC
- manual 3 jaw chuck
- Manual and automatic operation
- High quality stepper motors
- Power: 230V/50HZ
- Manual in English

### Additional equipment:

- 4 jaw chuck (independent)
- Tool set
- Live centre
- Drill chuck
- Base

### Technical data:

Technical data:	Unit	Value
Max. drilling diameter	[mm]	10
Worktable size	[mm]	400*145
T-slot width	[mm]	8
No. of T-slots	[-]	3
Max. worktable load	[kg]	5
X axis feed	[mm]	230
Y axis feed	[mm]	120
Z axis feed	[mm]	230
X/Y axes motor torque	[Nm]	1.35
X/Y/X axis skip feed	[mm/min]	2000
X/Y/Z work feed	[mm/min]	500
Relief	[mm]	140
Spindle rotational speed	[rpm]	100-20000
Spindle motor power	[W]	500
Size	[mm]	560x680x800
Box size	[mm]	660x780x900
Weight (net/gross)	[kg]	130/165

## CNC EUROMET SKOLAR X3 DIDACTIC MILLING MACHINE

SKOLAR X3 is a small, economical CNC milling machine of educational value at low price. Axes driven by high quality stepper motors, cast base provides high rigidity. Renowned CNC system enables teaching on one of the most popular models on the market. The machine enables all basic milling operations. Small size, weight and 230V power supply makes the machine suitable for almost all environments.



CE

### Technical data:

Technical data:	Unit	Value
Max. drilling diameter	[mm]	25
Worktable size	[mm]	550*160
T-slot width	[mm]	12
No. of T-slots		3
Max. table load	[kg]	35
X axis feed	[mm]	280
Y axis feed	[mm]	120
Z axis feed	[mm]	270
X/Y axes motor torque	[N.m]	4
Z axis motor torque	[N.m]	6
X/Y/X axis skip feed	[mm/min]	2000
X/Y/Z work feed	[mm/min]	500
Relief	[mm]	232
Positioning accuracy	[mm]	0.015
Re-positioning accuracy	[mm]	0.01
Spindle taper	[-]	MT3/R8/ISO 30
Spindle rotational speed	[rpm]	100-5000
Spindle motor power	[W]	1000
Size	[mm]	1280x895x1845
Box size	[mm]	1420x1060x2035
Weight (net/gross)	[kg]	510/570

### Standard equipment:

- MPG handwheel
- Sinumerik 808D control system
- Closed workspace
- Machine frame based on the ribbed iron cast
- All axes driven by stepper motors
- Power: 230V, 50HZ
- All axes equipped with ball screws
- Automatic lubrication system
- 4th axis ready

### Additional equipment:

- Turntable - 4th axis
- set of tool for mounting the workpiece on the table
- Drill chuck
- drilling vice
- angle vice
- tool socket with collets
- basic mills set
- Set of engraving tools
- Cooling system

## EUROMET SKOLAR iX1 CNC MACHINING CENTRE

SKOLAR iX1 is a small, economical CNC machining centre of educational value at low price. The machine comes with a 4-position tool shank. Axes driven by high quality stepper motors, cast base provides high rigidity. Renowned CNC system enables teaching on one of the most popular models on the market. The machine enables all basic milling operations. Glass shields enable observation of the machining process. Small size, weight and 230V power supply makes the machine suitable for almost all environments.



### Standard equipment:

- Manual in English
- Full transparent workspace shields
- 4 position tool shank
- Siemens 808D control system
- Power: 230V, 50HZ
- Construction on the ribbed iron cast
- All axes driven by stepper motors and ballscrews
- Semi-automatic lubrication system
- 4th axis ready
- CE declaration of conformity

### Additional equipment:

- 100 mm turntable - 4th axis
- Set of tools for mounting the workpiece on the table
- Tool holders
- Vice
- Angle vice
- Basic mills set
- Set of engraving tools
- Cooling system
- Base



Technical data:	Unit	Value
Max. drilling diameter	[mm]	16
Worktable size	[mm]	400*145
T-slot width	[mm]	12
No. of T-slots	[-]	3
Max. table load	[kg]	20
X axis feed	[mm]	260
Y axis feed	[mm]	150
Z axis feed	[mm]	180
X/Y axes motor torque	[N.m]	1.35
Z axis motor torque	[N.m]	2.2
Tools	[-]	4
X/Y/X axis skip feed	[mm/min]	2000
X/Y/Z work feed	[mm/min]	500
Relief	[mm]	150
Positioning accuracy	[mm]	0.015
Re-positioning accuracy	[mm]	0.01
Spindle taper	[-]	ISO20
Spindle rotational speed	[rpm]	100-7000
Spindle motor power	[W]	1000
Size	[mm]	1040x860x940
Box size	[mm]	1170x960x1100
Weight (net/gross)	[kg]	178/218

## EUROMET SKOLAR iX3 CNC MACHINING CENTRE

SKOLAR iX3 is a small, economical CNC machining centre of educational value at low price. The machine comes with a 12-position tool shank which increases efficiency. Axes driven by high quality stepper motors, cast base provides high rigidity. Renowned CNC system enables teaching on one of the most popular models on the market. The machine enables all basic milling operations. Glass shields enable observation of the machining process. Small size, weight and 230V power supply makes the machine suitable for almost all environments.



Technical data:	Unit	Value
Max. drilling diameter	[mm]	16
Worktable size	[mm]	550*160
T-slot width	[mm]	12
No. of T-slots	[-]	3
Max. worktable load	[kg]	35
X axis feed	[mm]	280
Y axis feed	[mm]	150
Z axis feed	[mm]	270
X/Y axis motor power	[W]	400
Z axis motor power	[W]	750
Tools	[st]	12
X/Y axis skip feed	[mm/min]	3000
Z axis skip feed	[mm/min]	2000
X/Y work feed	[mm/min]	1000
Positioning accuracy	[mm]	0.015
Re-positioning accuracy	[mm]	0.01
Spindle taper	[-]	ISO 20
Spindle rotational speed	[rpm]	100-5000
Spindle motor power	[W]	1000
Dimensions	[mm]	1280 x 895 x 1845
Box dimensions	[mm]	1420 x 1060 x 2035
Weight (net/gross)	[kg]	510/570

### Standard equipment:

- CE declaration of conformity
- Small economical machining centre provides high precision at low price
- 12 position tool shank
- due to the transparent workspace guards all operations remain visible
- high quality stepper motors
- PC controlled
- Automatic lubrication system
- Siemens 808D control system
- Power: 230V/50HZ
- Manual in English

### Additional equipment:

- Turntable - 4th axis
- MPG handwheel
- Set of tools for mounting the workpiece on the table
- Vice
- Tool set
- Cooling system
- Base

# MACHINE TOOLS

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