

PRODUCT RANGE



Benders

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CP20
CP30S
CP30E
CP30PR



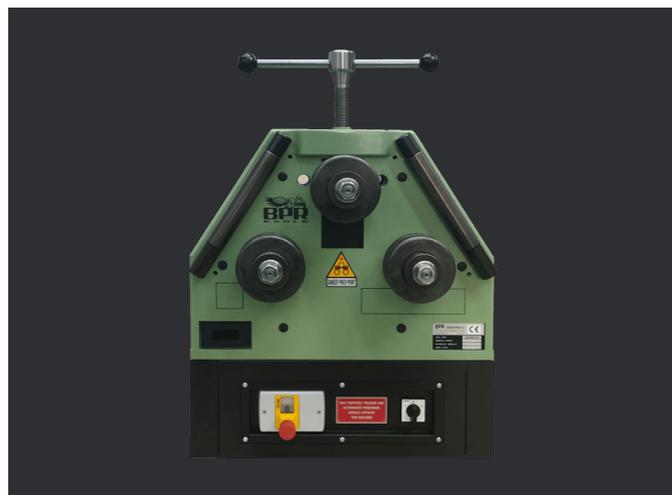
STANDARD EQUIPMENT

CP20 CP30S CP30E CP30PR

CP20, manual mechanical adjustment of the pressure roller via screw, with display of the setting on the digital screen integrated into the support base. Rotation control L/R of the shafts through polarity inverter.



CP30S, main switch with release coil and built-in emergency stop. Polarity inverter and dual-speed control, assembled in the supporting base. Mechanical adjustment of the upper roller with position reading on digital display.



CP30E, the profile bending machine is equipped with a foot pedal for L/R rotation control with built-in emergency stop. Mechanical adjustment of the upper roller with position reading on a millimetric rod and graduated protractor.



CP30PR, positioning displayed via display.



FUNCTIONAL FEATURES

CP20 CP30S CP30E CP30PR

The pyramidal bending machine “CP 20” operates with two knurled driving rollers to optimize material traction during the bending process. Once the profile to be bent is positioned between the rollers, move the pressing roller to the desired setting, shown on the digital display, and activate the left/right rotation start of the two driving shafts. In this way, the profile inserted between the rollers will be bent to the required diameter. The machine is supplied with a set of standard rollers (flanges and spacers).



The “CP30S” features mechanical adjustment of the upper roller, with position feedback displayed on a digital screen, and is equipped with two knurled driving rollers. Its load-bearing frame is made of FE 430B steel, while the shafts are crafted from high-strength 38NiCrMo4 steel, hardened and precision ground. The gears are also made of 38NiCrMo4 steel with ground teeth, and the standard rollers are constructed from 20MnCr5 special carbon steel, hardened and ground to a hardness of HRC 58–60. The machine is protected by an impact-resistant die-cast ABS casing and can operate in both horizontal and vertical shaft positions.



The “CP30E” is equipped with two knurled driving rollers and a load-bearing frame made of FE 430B steel. The shafts are made of high-strength 38NiCrMo4 steel, hardened and precision ground, while the gears are also crafted from 38NiCrMo4 steel with ground teeth. Standard rollers are made of 20MnCr5 special carbon steel, hardened and ground to a hardness of HRC 58–60. The machine features an impact-resistant die-cast ABS casing and can operate in both horizontal and vertical shaft positions.



The “CP30PR machine” features a polarity inverter and dual-speed control, both assembled on an independent control panel. The model includes a rotation pedal with an integrated emergency stop and a dual-speed selector. The upper roller can be mechanically adjusted, with position feedback displayed on a digital screen. The machine is equipped with two knurled driving rollers and a steel machine body. The shafts are made of high-strength steel, hardened and precision ground, while the gears are crafted from special steel with ground teeth. Standard rollers are made of special carbon steel, hardened to a hardness of HRC 59–60, and the machine is protected by an impact-resistant die-cast ABS casing.





CPS20
CPS35
CPS50
BA20
BA35
BA40
BA50



STANDARD EQUIPMENT

CPS20 CPS35 CPS50
BA20 BA35 BA40 BA50

CPS20, CPS35 and CPS50 comes with a electronic control panel DP7 with functions capable of showing and storing up to 20 bending programs (also by autoteaching) each containing 20 steps (bending roll stop points)

The BA20, BA35, BA40, and BA50 models are equipped with a CNC interface, operated via a personal computer using the PROBENDING® software system.



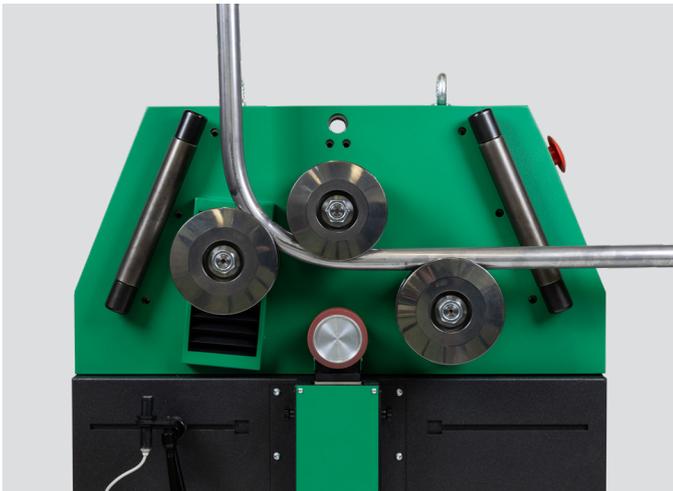
Control console

Lateral material guides



Universal bending roll components*

The material presence sensor ensures that each cycle starts from the same position, guaranteeing high repeatability even in high-volume production environments.



* Available only on certain models (see technical specifications at p.18-19).

FUNCTIONAL FEATURES

ONLY FOR
BA SERIES

The computerized CNC roll bending machine operates in both manual and automatic cycles and includes the Direct Radius feature (BPR PROBENDING multilingual software), allowing the creation of multiple shapes and variable bend radii on the same part. Features include ramp control for acceleration and deceleration, stop and cycle inversion, self-learning / auto-teach mode, semi-automatic mode, mirror mode, and fully automatic mode.



Electronic variable speed control of both the bending roll (up/down) and material feed through the rollers, via manual potentiometers on the console or automatically via program commands.



Bending programs are facilitated by a material and tooling library, which stores information related to both pre-configured shapes (ovals, bows, arches, polygonal forms, etc.) and user-defined programs.

The machine features a dual-cylinder system with linear motion (rather than orbital), ensuring greater precision, stability, and reliability during bending operations. The dual-cylinder configuration allows bending in both directions, increasing operational flexibility and reducing the need for repositioning the workpiece.



The machine is equipped with an Ethernet port for integration into factory systems in line with Industry 4.0 standards. The software supports the import of DXF files designed in CAD/CAM systems via the integrated USB port. It automatically generates the bending program, reducing setup time and simplifying operations. The USB port also allows for diagnostics, automatic setup, data exchange, and backups using a standard flash drive.





Z402
ZH402
CP40
CP40H
CPH40
CPH60



STANDARD EQUIPMENT

Z402 ZH402
CP40 CP40H CPH40 CPH60

Universal rolls



Lateral straighteners



Visualization of the bending roll position on a digital display



Electronic control panel DP7 with functions capable of showing and storing up to 20 bending programs (also by autoteaching) each containing 20 steps (bending roll stop points).*



Archimeter - Not included with the machine and must be purchased separately



* Available only on certain models (see technical specifications at p.18-19).



CPD55 BA55



STANDARD EQUIPMENT

CPD55 BA55

CPD55 comes with a electronic control panel DP7 with functions capable of showing and storing up to 20 bending programs (also by autoteaching) each containing 20 steps (bending roll stop points)



Control console

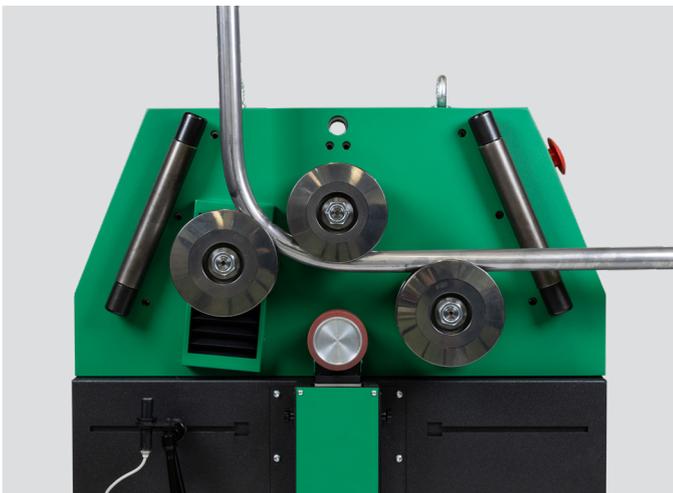
BA55 is equipped with a CNC interface, operated via a personal computer using the PROBENDING® software system.



Lateral material guides



Universal bending roll components*



The material presence sensor ensures that each cycle starts from the same position, guaranteeing high repeatability even in high-volume production environments.



* Available only on certain models (see technical specifications at p.18-19).

FUNCTIONAL FEATURES

ONLY FOR
BA SERIES

The computerized CNC roll bending machine operates in both manual and automatic cycles and includes the Direct Radius feature (BPR PROBENDING multilingual software), allowing the creation of multiple shapes and variable bend radii on the same part. Features include ramp control for acceleration and deceleration, stop and cycle inversion, self-learning / auto-teach mode, semi-automatic mode, mirror mode, and fully automatic mode.



Electronic variable speed control of both the bending roll (up/down) and material feed through the rollers, via manual potentiometers on the console or automatically via program commands.



Bending programs are facilitated by a material and tooling library, which stores information related to both pre-configured shapes (ovals, bows, arches, polygonal forms, etc.) and user-defined programs.

The machine features a dual-cylinder system with linear motion (rather than orbital), ensuring greater precision, stability, and reliability during bending operations. The dual-cylinder configuration allows bending in both directions, increasing operational flexibility and reducing the need for repositioning the workpiece.



The machine is equipped with an Ethernet port for integration into factory systems in line with Industry 4.0 standards. The software supports the import of DXF files designed in CAD/CAM systems via the integrated USB port. It automatically generates the bending program, reducing setup time and simplifying operations. The USB port also allows for diagnostics, automatic setup, data exchange, and backups using a standard flash drive.





MODEL		CP20	CP30S	CP30E	CP30PR	Z402	ZH402	CP40	CP40H	CPH40	CPH60
Geometry		NON-TILTING				PYRAMIDAL					
Shafts diameter	mm	20	30			40				60	
Driven rolls		2				3				2	
Rolls diameter	mm	86	128			162				225	
Dimensions	cm	32x60x44	60x57x81	68x78x125	67x80x125	67x87x125	70x99x136			95x130x161	
Distance between rolls	mm	86	276			300				410	
Shafts length	mm	39	74.5			94				129	
Max profile width (std rolls)	mm	22.9	44.6			52	52.0			78.0	
Section modulus Wt	cm ³	0.9	6.0			7.5	8.3			17.0	
Shafts speed	rpm	12	8.5-17	8.5	8.5-17	7.8	9			7.5	
Variable rolling speed		-	2 speed optional	-	2 speed optional	-	Optional				
Cylinder thrust	kg	-				7850	-	7060	8240	18400	
Working Pressure	bar	-				190	-	210		230	
Installed power	kW	0.37	0.75			1.1	1.1-0.55	1.5	1.5-0.75		2.2-1.5
Approximate weight	kg	60	145	200	238	350	380	396	435-19	530-19	1100-19
Roller position control		GRA-DUATED ROD	VD3	GRA-DUATED ROD	VD3				DP7		
Torque limiter		-								YES	-
Forming block Z-block		-								YES	

Capacity based on material strength of Rm = 400 MPa (≈ 60.000 psi)
All measures in mm where otherwise specified
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MODEL		CPS20	CPS35	CPS50	CPD55	BA20	BA35	BA40	BA50	BA55
Geometry		ASYMMETRIC			DOUBLE	ASYMMETRIC		PYRAMI-DAL	ASYM-METRIC	DOUBLE
Shafts diameter	mm	20	35	50	55	20	35	40	50	55
Driven rolls		3								
Rolls diameter	mm	76-86	132-142	195	180	-		156	-	
Dimensions	cm	63x38x114	68x93x106	85x113x126	89x114x124	54x75x102 57x66x112	74x102x111 57x66x112	80x103x146 57x66x112	85x113x126 57x66x112	89x115x126 57x66x112
Distance between rolls	mm	140	304	401	417	140	304	300	401	417
Shafts length	mm	39	80	110	120	25.5	60	79	90	120
Max profile width (std rolls)	mm	22.9	48.0	62.0		-		52	-	
Section modulus Wt	cm ³	0.9	6.0	12.0		0.9	6.0	8.3	12	
Shafts speed	rpm	14	13.5	11	10	30		15	24	20
Variable rolling speed		Optional				Default				
Cylinder thrust	kg	1150	5370	14400	15200	1150	5370	8240	14400	15200
Working Pressure	bar	160	180		190	160	180	210	180	190
Installed power	kW	0.37-0.18	1.1-0.55	2.2-1.5	2.2-3	0.37-1.1 0.18	1.1-3 0.18	1.5-3 0.18	2.2-4 0.18	2.2-5.5 0.18
Approximate weight	kg	126-19	350-19	660-19	740-30	228-104	425-104	630-104	670-104	740-104
Roller position control					DPIO	CNC PROBENDING				
Torque limiter					YES				YES	
Forming block Z-block				YES				YES		

Capacity based on material strength of Rm = 400 MPa (≈ 60.000 psi)
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PROFILE		CP20		CPS20 BA20		CP30		CPS35 BA35		Z402 ZH402	
		Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.
1		10x2 25x6	80 200	10x2 25x6	70 200	20x5 50x10	200 350	20x5 50x10	150 350	20x5 60x10	250 600
2		10x2 45x10	90 300	10x2 45x10	80 250	80x15	350	20x5 90x15	180 400	50x10 100x15	250 450
3		12x12	110	12x12	80	30x30	600	15x15 30x30	120 400	10x10 35x35	200 600
4		12x12	110	12x12	80	30x30	600	15x15 30x30	120 400	10x10 35x35	200 600
5		30x10x1.5	400	30x10x1.5	250	50x30x3	600	25x15x1.5 50x30x3	250 1000	25x15x1.5 60x40x3	250 1400
6								30x15x2 70x30x3	250 1200	30x15x2 80x30x3	250 1500
7		20x20x1.5	250	20x10x1.2 20x20x1.5	120 200	40x40x3	600	15x15x1.5 45x45x3	200 800	20x20x1.5 50x50x3	250 1500
8			15x15x3 25x25x4	100 200		20x20x3 50x50x6	200 400	20x20x3 50x50x6	200 350	20x20x3 60x60x6	200 700
9		15x15x3 25x25x4	100 200	15x15x3 25x25x4	100 200	20x20x3 50x50x6	250 400	20x20x3 50x50x6	200 400	20x20x3 60x60x6	200 700
10		25x12x1.5 30x15x4	140 250	25x12x1.5 30x15x4	120 250	30x15x4 50x38x5	250 350	30x15x4 65x42x5,5	250 400	30x15x4 80x45x6	250 700
11			30x15x4	250		30x15x4 50x38x5	250 350	40x20x5 65x42x5,5	250 400	30x15x4 80x45x6	250 800
12						50x25x5	800	50x38x5	800	60x30x6	1000
13											
14											
15		Ø12	120	Ø12	80	Ø30	600	Ø10 Ø30	200 600	Ø10 Ø35	200 600
16		3/4" Gas	400	3/4" Gas	350		3/8" Gas 1/2" Gas	150 350		1/2" Gas 2" Gasx2.9	200 800
17		10x1.5 30x1.5	80 500	10x1.5 30x1.5	70 400	60x1,5	800	60x2	600	70x1.5	1500
18			20x20x4	150		40x40x5	350	20x20x3 45x45x6	200 300	25x25x3 50x50x5	250 500
19			20x20x4	200		40x40x5	350	45x45x6	350	25x25x3 50x50x5	350 600
20								50x25x3	400	60x30x3	600

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All measures in mm where otherwise specified
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PROFILE		CP40 CP40H		CPH40 BA40		CPS50 BA50		CPD55 BA55		CPH60			
		Dimens. Ø Int.Min.		Dimens. Ø Int.Min.		Dimens. Ø Int.Min.		Dimens. Ø Int.Min.		Dimens. Ø Int.Min.			
1		20x5 60x10		200 400		70x12 400		80x15 700		40x10 280 90x15 650			
2		50x10 100x15		200 350		110x15 350		110x20 400		50x10 300 120x25 380			
3		10x10 35x35		180 500		10x10 37x37 180 500		40x40 600		45x45 600		20x20 250 50x50 600	
4		10x10 35x35		180 500		10x10 37x37 180 500		40x40 600		45x45 600		20x20 250 50x50 600	
5		25x15x1.5 60x40x3		250 120		25x15x1.5 60x40x3 250 1000		25x15x1.5 70x40x3 300 1000		70x40x3 1000 70x40x4 1500		40x20x2 400 80x40x3.5 1000	
6		30x15x2 80x30x3		250 1200		30x15x2 80x30x3 250 1000		100x40x3 1500		40x15x2 400 120x40x3 1500			
7		20x20x1.5 50x50x3		250 1200		20x20x1.5 50x50x3 250 1000		50x50x4 800 65x65x4 1000		60x60x3 1000		40x40x2 400 70x70x3 1200	
8		20x20x3 60x60x6		200 500		70x70x7 500		70x70x7 600		40x40x5 250 80x80x8 700			
9		20x20x3 60x60x6		200 500		70x70x7 500		70x70x7 600		40x40x5 350 80x80x8 800			
10		30x15x4 80x45x6		250 600		UPN100 600		UPN140 1000		UPN120 800			
11		40x20x4 80x45x6		300 600		UPN100 600		UPN140 1000		UPN120 900			
12		60x30x6		800		UPN 65 65x42x5.5 800		UPN100 2000		UPN 80 80x45x6 1000			
13								IPE120 2000		IPE100 2000			
14								IPE120 3000		IPE80 3000			
15		Ø10 Ø35		200 500		Ø10 Ø37 200 500		Ø40 500		Ø45 600		Ø20 300 Ø50 600	
16		1/2" Gas 2" Gasx3.2		200 600		2 1/2" Gas (3.2) 600		2 1/2" Gasx3.2 700 4" Gasx4 1500		1" Gas 400 3" Gasx3.2 850			
17		70x1.5 1000		70x2 1000		30x1.5 320 80x2 800		80x2 800 120x2 1200		100x2 1200			
18		25x25x3 50x50x6		250 400		60x60x6 600		80x80x10 800		30x30x4 300 70x70x8 700			
19		25x25x3 50x50x6		350 500		60x60x6 600		80x80x10 800		30x30x4 300 70x70x8 800			
20				60x30x3 500		70x30x3 700		30x15x2 350 80x40x2 1000		100x50x3 800			

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CONTACTS



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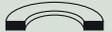
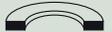
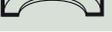
MODEL	CP20	CP30S	CP30E	CP30PR	Z402	ZH402	CP40	CP40H	CPH40	CPH60	CPS20	CPS35	CPS50	CPD55	BA20	BA35	BA40	BA50	BA55	
Geometry	NON-TILTING				PYRAMIDAL						ASYMMETRIC				DOUBLE	ASYMMETRIC		PYRAMIDAL	ASYMMETRIC	DOUBLE
Shafts diameter	mm	20	30		40				60	20	35	50	55	20	35	40	50	55		
Driven rolls		2							3	2	3									
Rolls diameter	mm	86	128		162				225	76-86	132-142	195	180	-		156	-			
Dimensions	mm	32x60x44	60x57x81	68x78x125	67x80x125	67x87x125		70x99x136		95x130x161	63x38x114	68x93x106	85x113x126	89x114x124	54x75x102 57x66x112	74x102x111 57x66x112	80x103x146 57x66x112	85x113x126 57x66x112	89x115x126 57x66x112	
Distance between rolls	mm	86	276		300				410	140	304	401	417	140	304	300	401	417		
Shafts length	mm	39	74.5		94				129	39	80	110	120	25.5	60	79	90	120		
Max profile width (std rolls)	mm	22.9	44.6		52	52.0		78.0	22.9	48.0	62.0		-		52	-				
Section modulus Wt	cm³	0.9	6.0		7.5	8.3		17.0	0.9	6.0	12.0		0.9	6.0	8.3	12				
Shafts speed	rpm	12	8.5-17	8.5	8.5-17	7.8	9		7.5	14	13.5	11	10	30		15	24	20		
Variable rolling speed		-	2 speed optional	-	2 speed optional	-	Optional			Optional			Default							
Cylinder thrust	kg	-				7850	-	7060	8240	18400	1150	5370	14400	15200	1150	5370	8240	14400	15200	
Working Pressure	bar	-				190	-	210		230	160	180		190	160	180	210	180	190	
Installed power	kW	0.37	0.75		1.1	1.1-0.55	1.5	1.5-0.75		2.2-1.5	0.37-0.18	1.1-0.55	2.2-1.5	2.2-3	0.37-1.1 0.18	1.1-3 0.18	1.5-3 0.18	2.2-4 0.18	2.2-5.5 0.18	
Approximate weight	kg	60	145	200	238	350	380	396	435-19	530-19	1100-19	126-19	350-19	660-19	740-30	228-104	425-104	630-104	670-104	740-104
Roller position control		GRA-DUATED ROD	VD3	GRA-DUATED ROD	VD3				DP7				DP10	CNC PROBENDING						
Torque limiter		-							YES	-			YES	-		YES				
Forming block Z-block		-							YES	-		YES	-		YES					

Capacity based on material strength of Rm = 400 MPa (≈ 60.000 psi)

All measures in mm where otherwise specified

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PROFILE		CP20		CPS20 BA20		CP30		CPS35 BA35		Z402 ZH402		CP40 CP40H		CPH40 BA40		CPS50 BA50		CPD55 BA55		CPH60			
		Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.	Dimens.	Ø Int.Min.		
1		10x2 25x6	80 200	10x2 25x6	70 200	20x5 50x10	200 350	20x5 50x10	150 350	20x5 60x10	250 600	20x5 60x10	200 400	20x5 60x10	200 400	70x12	400	80x15	700	40x10 90x15	280 650		
2		10x2 45x10	90 300	10x2 45x10	80 250	80x15	350	20x5 90x15	180 400	50x10 100x15	250 450	50x10 100x15	200 350	50x10 100x15	200 350	110x15	350	110x20	400	50x10 120x25	300 380		
3		12x12	110	12x12	80	30x30	600	15x15 30x30	120 400	10x10 35x35	200 600	10x10 35x35	180 500	10x10 37x37	180 500	40x40	600	45x45	600	20x20 50x50	250 600		
4		12x12	110	12x12	80	30x30	600	15x15 30x30	120 400	10x10 35x35	200 600	10x10 35x35	180 500	10x10 37x37	180 500	40x40	600	45x45	600	20x20 50x50	250 600		
5		30x10x1.5	400	30x10x1.5	250	50x30x3	600	25x15x1.5 50x30x3	250 1000	25x15x1.5 60x40x3	250 1400	25x15x1.5 60x40x3	250 120	25x15x1.5 60x40x3	250 1000	25x15x1.5 70x40x3	300 1000	70x40x3 70x40x4	1000 1500	40x20x2 80x40x3.5	400 1000		
6								30x15x2 70x30x3	250 1200	30x15x2 80x30x3	250 1500	30x15x2 80x30x3	250 1200	30x15x2 80x30x3	250 1000		100x40x3	1500		40x15x2 120x40x3	400 1500		
7		20x20x1.5	250	20x10x1.2 20x20x1.5	120 200	40x40x3	600	15x15x1.5 45x45x3	200 800	20x20x1.5 50x50x3	250 1500	20x20x1.5 50x50x3	250 1200	20x20x1.5 50x50x3	250 1000	50x50x4 65x65x4	800 1000	60x60x3	1000	40x40x2 70x70x3	400 1200		
8				15x15x3 25x25x4	100 200	20x20x3 50x50x6	200 400	20x20x3 50x50x6	200 350	20x20x3 60x60x6	200 700		20x20x3 60x60x6	200 500		70x70x7	500	70x70x7	600	40x40x5 80x80x8	250 700		
9		15x15x3 25x25x4	100 200	15x15x3 25x25x4	100 200	20x20x3 50x50x6	250 400	20x20x3 50x50x6	200 400	20x20x3 60x60x6	200 700		20x20x3 60x60x6	200 500		70x70x7	500	70x70x7	600	40x40x5 80x80x8	350 800		
10		25x12x1.5 30x15x4	140 250	25x12x1.5 30x15x4	120 250	30x15x4 50x38x5	250 350	30x15x4 65x42x5,5	250 400	30x15x4 80x45x6	250 700		30x15x4 80x45x6	250 600		UPN100	600	UPN140	1000	UPN120	800		
11				30x15x4	250	30x15x4 50x38x5	250 350	40x20x5 65x42x5,5	250 400	30x15x4 80x45x6	250 800		40x20x4 80x45x6	300 600		UPN100	600	UPN140	1000	UPN120	900		
12						50x25x5	800	50x38x5	800	60x30x6	1000		60x30x6	800		UPN 65 65x42x5.5	800	UPN100	2000	UPN 80 80x45x6	1000		
13																		IPE120	2000	IPE100	2000		
14																		IPE120	3000	IPE80	3000		
15		Ø12	120	Ø12	80	Ø30	600	Ø10 Ø30	200 600	Ø10 Ø35	200 600	Ø10 Ø35	200 500	Ø10 Ø37	200 500	Ø40	500	Ø45	600	Ø20 Ø50	300 600		
16		3/4" Gas	400	3/4" Gas	350			3/8" Gas 1/2" Gas	150 350	1/2" Gas 2" Gasx2.9	200 800		1/2" Gas 2" Gasx3.2	200 600		2 1/2" Gas (3.2)	600	2 1/2" Gasx3.2 4" Gasx4	700 1500	1" Gas 3" Gasx3.2	400 850		
17		10x1.5 30x1.5	80 500	10x1.5 30x1.5	70 400	60x1,5	800	60x2	600	70x1.5	1500	70x1.5	1000	70x2	1000	30x1.5 80x2	320 800	80x2 120x2	800 1200	100x2	1200		
18				20x20x4	150	40x40x5	350	20x20x3 45x45x6	200 300	25x25x3 50x50x5	250 500		25x25x3 50x50x6	250 400		60x60x6	600	80x80x10	800	30x30x4 70x70x8	300 700		
19				20x20x4	200	40x40x5	350	45x45x6	350	25x25x3 50x50x5	350 600		25x25x3 50x50x6	350 500		60x60x6	600	80x80x10	800	30x30x4 70x70x8	300 800		
20								50x25x3	400			60x30x3	600		60x30x3	500		70x30x3	700	30x15x2 80x40x2	350 1000	100x50x3	800

Capacity based on material strength of Rm = 400 MPa (≈ 60.000 psi)

All measures in mm where otherwise specified

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