Bending and Shearing

BOSCHERT GIZELIS.co

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Contents

The company

Gizelis S.A. was founded from Stamatis Gizelis in 1968, specializing in the manufacturing of machines for the sheet metal industry. Today is one of the oldest companies in its field, with activities that start from machine design and development, and continue with complete 'in house' manufacturing of sheet metal processing machines.
Gizelis S.A. is a well established manufacturing company, with significant presence in the global market. Now with a large network of global associates, the company is able to provide complete solutions regarding the production chain associated with sheet metal processing machines.

In 2004 Gizelis S.A. formed a strategic alliance with the German company Boschert GmbH. With this alliance a new series of machines has emerged, aiming to provide the customer with a full range of high quality sheet metal processing machines.

All manufacturing procedures for both companies take place in two privately owned factories situated within the European Union.
For Gizelis S.A. the quality of its human resources is of great significance. A team of highly qualified engineers and managers with experience in their fields of expertise are responsible for the company's activities from research and development up to production and marketing. We are strongly committed to continue investing in R&D aiming to provide high quality products that are technologically advanced, and in addition to design new products that the rapidly changing sheet metal industry demands.
Our mission is to provide a complete range of high quality sheet metal processing machines to our customers through continuous development and innovation.

Why Boschert Gizelis?

- Large stroke & daylight standard even in basic models!
- Long experience on bending and shearing, Tradition & Reliability.
- Great tooling and general product oriented advice & support.
- Direct service line and continuous customer support.

Bending by Boschert - Gizelis

Press Brake Series

GBEND® High level press brakes, with higher class equipment and components.

GBEND plus® High level press brakes, with higher class equipment and components providing the ultimate flexibility in bending process.

GMASTER® State of the art press brakes for the most demanding users.

G-HD® Heavy duty machines for large loads ≥330 ton with very rigid frame, for heavy duty applications.

Upper and lower double roller bearing for accurate, rigid and fast beam movement.

Additional outer welded steel side frame for increased machine rigidity and minimum deformations.

Back gauge with ball screw and double linear guides on every axis.

Special designed stop fingers for high accuracy and maximum flexibility even for conical bends

G BEND® Series

Standard equipment

- Industrial control Cybelec DNC 60.
- Y1, Y2 independent hydraulic cylinders, proportional valve technology.
- Extra welded frame on the sides.
- Single axis back gauge system X.
- Mechanical upper tool clamping.
- Mechanical lower tool clamping.
- Efficient, low noise and accurate hydraulic system BOSCH REXROTH.
- Ram guidance with two double roller bearings on each side.
- Rigid and stable construction.
- Throat depth: 400 mm.
- Daylight: 515 mm.
- Punch Stroke: 250 mm.
- Photoelectric beam for safety.

Two (2) axes Back Gauge, X-R

Four (4) axes Back Gauge, X-R-Z1-Z2

Five (5) axes Back Gauge, including Delta-X, function

Six (6) axes Back Gauge, X1-X2-R1-R2-Z1-Z2

Manual measurement of the bending angle and auto-correction

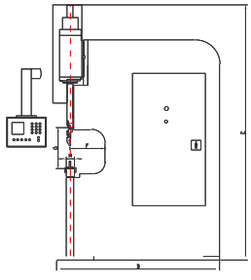
G BEND® Series

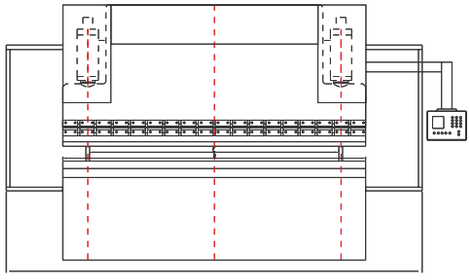
		G Bend ® 2080	G Bend ® 2580	G Bend ® 3080	G Bend ® 3110	G Bend ® 3140	G Bend ® 3175	G Bend ® 3210	G Bend ® 3290
Bending force	[tons]	80	80	80	110	140	175	210	290
Working length	[mm]	2100	2600	3100	3100	3100	3100	3100	3100
Distance between uprights	[mm]	1550	2050	2550	2550	2550	2550	2550	2550
Throat depth	[mm]	400	400	400	400	400	400	400	400
Daylight	[mm]	515	515	515	515	515	515	515	515
Punch stroke	[mm]	250	250	250	250	250	250	250	250
Table width	[mm]	80	80	80	80	80	80 - 220	80 - 220	80 - 220
Fast speed	[mm/sec]	(0 - 180)	(0 - 180)	(0 - 180)	(0 - 180)	(0 - 180)	(0 - 160)	(0 - 160)	(0 - 150)
Working * speed	[mm/sec]	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 15)
Upstroke speed	[mm/sec]	(0 - 160)	(0 - 160)	(0 - 160)	(0 - 160)	(0 - 160)	(0 - 150)	(0 - 140)	(0 - 130)
Hydraulic pressure(max)	[bar]	275	275	275	275	275	275	275	275
Main electric motor	[kW]	11	11	11	15	15	18.5	22	30
Length	[mm] A	3200	3700	4400	4400	4400	4400	4400	4400
Width	[mm] B	1700	1700	1700	1700	1700	1800	1950	1950
Height	[mm] C	2950	2950	2950	3000	3000	3100	3100	3100
Weight (approximate)	[kg]	6500	7000	8500	9500	11000	12500	14500	16000

* Working speed is limited according to safety regulations for CE countries.

		G Bend ® 4140	G Bend ® 4175	G Bend ® 4210	G Bend ® 4290	G Bend ® 6175	G Bend ® 6210	G Bend ® 6290
Bending force	[tons]	140	175	210	290	175	210	290
Working length	[mm]	4100	4100	4100	4100	6100	6100	6100
Distance uprights	[mm]	3550	3550	3550	3550	5050	5050	5050
Throat depth	[mm]	400	400	400	400	400	400	400
Daylight	[mm]	515	515	515	515	515	515	515
Punch stroke	[mm]	250	250	250	250	250	250	250
Table width	[mm]	80	80 -220	80 - 220	220	220	220	220
Fast speed	[mm/sec]	(0 - 180)	(0 - 160)	(0 - 160)	(0 - 150)	(0 - 160)	(0 - 160)	(0 - 160)
Working * speed	[mm/sec]	(0 - 15)	(0 - 15)	(0 - 15)	(0 - 10)	(0 - 10)	(0 - 10)	(0 - 10)
Upstroke speed	[mm/sec]	(0 - 160)	(0 - 140)	(0 - 130)	(0 - 120)	(0 - 140)	(0 - 130)	(0 - 120)
Hydraulic pressure (max)	[bar]	275	275	275	275	275	275	275
Main electric motor	[kW]	15	18.5	22	30	18.5	22	30
Length	[mm] A	5400	5400	5400	5400	7400	7400	7400
Width	[mm] B	1750	1800	1950	1950	1800	1950	1950
Height	[mm] C	3100	3100	3200	3400	3400**	3600**	3900**
Weight (approximate)	[kg]	13000	15000	16000	18000	23000	24000	28000

* Working speed is limited according to safety regulations for CE countries.
** Part of the machine is inside the ground.

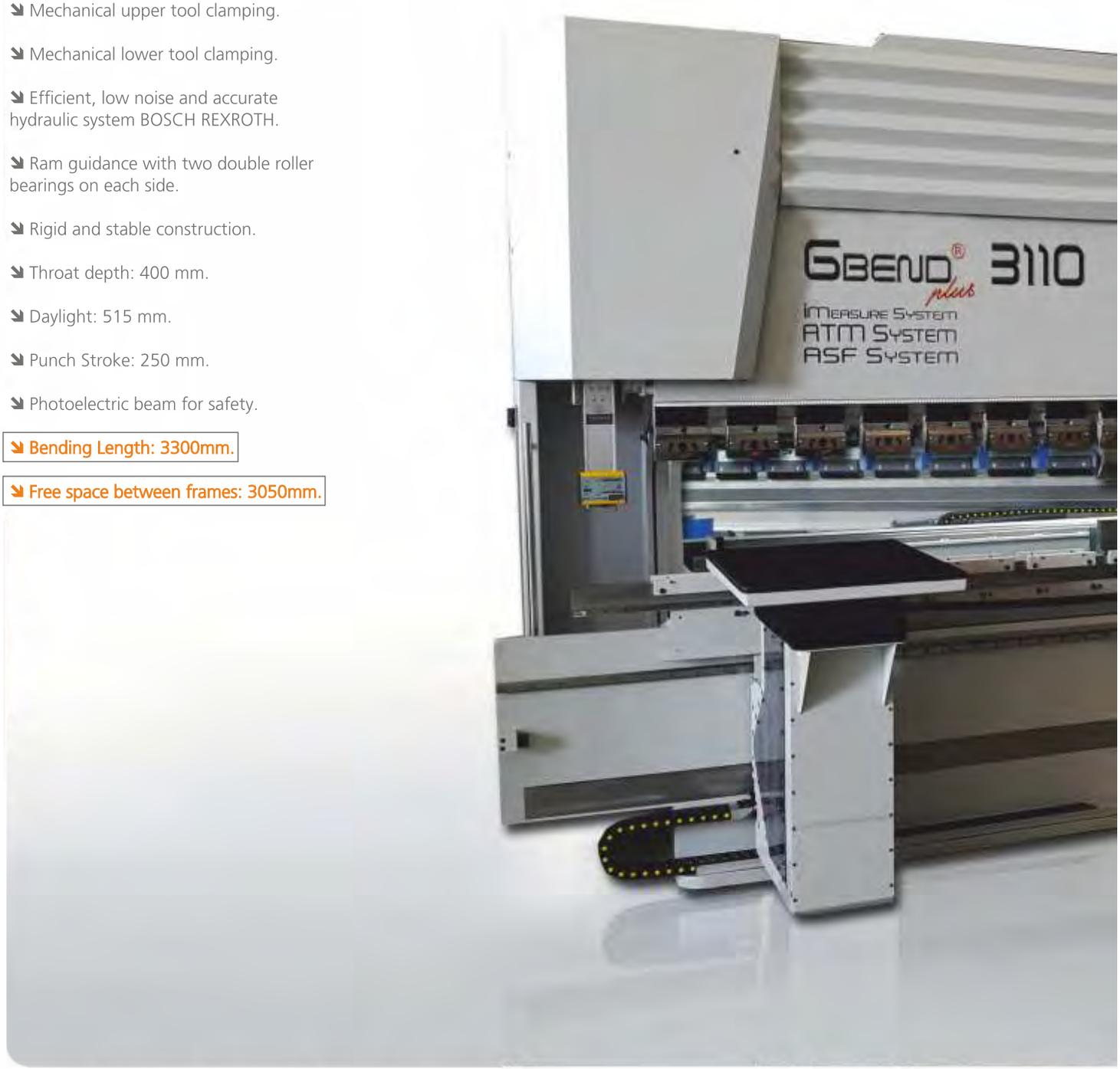




GBEND® plus Series

Standard equipment

- Industrial control Cybelec DNC 60.
- Y1, Y2 independent hydraulic cylinders, proportional valve technology.
- Extra welded frame on the sides.
- Single axis back gauge system X.
- Mechanical upper tool clamping.
- Mechanical lower tool clamping.
- Efficient, low noise and accurate hydraulic system BOSCH REXROTH.
- Ram guidance with two double roller bearings on each side.
- Rigid and stable construction.
- Throat depth: 400 mm.
- Daylight: 515 mm.
- Punch Stroke: 250 mm.
- Photoelectric beam for safety.
- Bending Length: 3300mm.
- Free space between frames: 3050mm.



Guiding of the back gauge at the machines side (free space at the back)

ATM, Automatic Thickness Measurement and Bending Program correction

Five (5) axes Back Gauge X-X'-R-Z1-Z2, including Delta-X, function

Innovative CNC Bending Aid with automatic height adjustment

Manual measurement of the bending angle and auto-correction

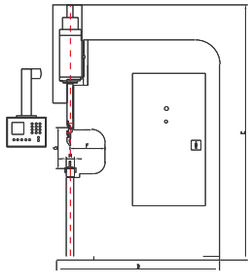
G BEND® plus Series

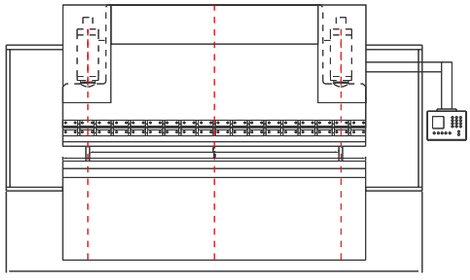
		G Bend® plus 3080	G Bend® plus 3110	G Bend® plus 3140	G Bend® plus 3175	G Bend® plus 3210	G Bend® plus 3290
Bending force	[tons]	80	110	140	175	210	290
Working length	[mm]	3300	3300	3300	3400	3400	3400
Distance between uprights	[mm]	3050	3050	3050	3050	3050	3050
Throat depth	[mm]	400	400	400	400	400	400
Daylight	[mm]	515	515	515	515	515	515
Punch stroke	[mm]	250	250	250	250	250	250
Table width	[mm]	80	80	80	80 - 220	80 - 220	80 - 220
Fast speed	[mm/sec]	(0 - 180)	(0 - 180)	(0 - 180)	(0 - 160)	(0 - 160)	(0 - 150)
Working * speed	[mm/sec]	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 15)
Upstroke speed	[mm/sec]	(0 - 160)	(0 - 160)	(0 - 160)	(0 - 140)	(0 - 130)	(0 - 120)
Hydraulic pressure (max)	[bar]	275	275	275	275	275	275
Main electric motor	[kW]	11	15	15	18.5	22	30
Length	[mm] A	4300	4300	4300	4400	4400	4400
Width	[mm] B	1700	1700	1700	1800	1950	1950
Height	[mm] C	2700	2750	2800	2950	3000	3100
Weight (approximate)	[kg]	8500	9500	11000	12500	14500	16000

* Working speed is limited according to safety regulations for CE countries.

		G Bend plus® 4140	G Bend plus® 4175	G Bend plus® 4210	G Bend plus® 4290
Bending force	[tons]	140	175	210	290
Working length	[mm]	4400	4400	4400	4400
Distance between uprights	[mm]	4050	4050	4050	4050
Throat depth	[mm]	400	400	400	400
Daylight	[mm]	515	515	515	515
Punch stroke	[mm]	250	250	250	250
Table width	[mm]	80	80-220	80-220	220
Fast speed	[mm/sec]	(0 - 180)	(0 - 160)	(0 - 160)	(0 - 150)
Working * speed	[mm/sec]	(0 - 15)	(0 - 15)	(0 - 15)	(0 - 10)
Upstroke speed	[mm/sec]	(0 - 160)	(0 - 140)	(0 - 130)	(0 - 120)
Hydraulic pressure (max)	[bar]	275	275	275	275
Main electric motor	[kW]	15	18.5	22	30
Length	[mm] A	5400	5400	5400	5400
Width	[mm] B	1800	1800	1950	1950
Height	[mm] C	3100	3150	3200	3400
Weight (approximate)	[kg]	13000	15000	16000	18000

* Working speed is limited according to safety regulations for CE countries.

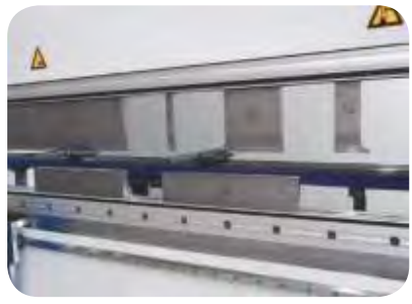




GMASTER® Series

Standard equipment

- Industrial control Cybelec ModEva RA, 15" Touch Screen, 3D with graphical simulation.
- Y1, Y2 independent hydraulic cylinders, proportional valve technology.
- Extra welded frame on the sides.
- Rigid and stable construction.
- Efficient, low noise and accurate hydraulic system BOSCH REXROTH.
- Ram guidance with two double roller bearings on each side.
- Throat depth: 400 mm.
- Daylight: 615 mm.
- Punch Stroke: 390 mm.
- 5 axes high speed back gauge system X-X'-R-Z1-Z2 with double linear guides.
- CNC controlled anti deflection system.
- Heavy duty front gauges on linear guide.
- Fast change hydraulic upper & lower tool clamping-Wila Trumpf tools required.
- Laser safety Fiessler German origin, automatic height adjustment, CE certified.
- Wide selection of extra equipment.



Hydraulic Upper & Lower Clamping

CNC controlled anti deflection system (crowning)

Five (5) axes Back Gauge, X-X'-R-Z1-Z2

ATM, Automatic Thickness Measurement and Bending Program correction

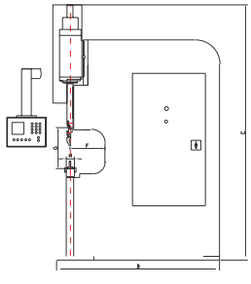
G MASTER® Series

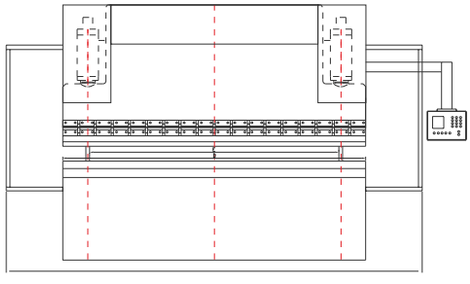
		G Master® 2080	G Master® 2580	G Master® 3080	G Master® 3110	G Master® 3140	G Master® 3175	G Master® 3210	G Master® 3290
Bending force	[tons]	80	80	80	110	140	175	210	290
Working length	[mm]	2100	2600	3100	3100	3100	3100	3100	3100
Distance between uprights	[mm]	1550	2050	2550	2550	2550	2550	2550	2550
Throat depth	[mm]	400	400	400	400	400	400	400	400
Daylight	[mm]	615	615	615	615	615	615	615	615
Punch stroke	[mm]	390	390	390	390	390	390	390	390
Table width	[mm]	80	80	80	80	80	80 - 220	80 - 220	80 - 220
Fast speed	[mm/sec]	(0 - 180)	(0 - 180)	(0 - 180)	(0 - 180)	(0 - 180)	(0 - 160)	(0 - 160)	(0 - 150)
Working * speed	[mm/sec]	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 20)	(0 - 15)
Upstroke speed	[mm/sec]	(0 - 160)	(0 - 160)	(0 - 160)	(0 - 160)	(0 - 160)	(0 - 150)	(0 - 140)	(0 - 130)
Hydraulic pressure (max)	[bar]	275	275	275	275	275	275	275	275
Main electric motor	[kW]	11	11	11	15	15	18.5	22	30
Length	[mm] A	3200	3700	4400	4400	4400	4400	4400	4400
Width	[mm] B	1700	1700	1700	1700	1700	1850	1950	1950
Height	[mm] C	3150	3400	3400	3450	3450	3550	3550	3550
Weight (approximate)	[kg]	6700	7200	8700	9700	11200	12700	14700	16200

* Working speed is limited according to safety regulations for CE countries.

		G Master® 4140	G Master® 4175	G Master® 4210	G Master® 4290	G Master® 6175	G Master® 6210	G Master® 6290
Bending force	[tons]	140	175	210	290	175	210	290
Working length	[mm]	4100	4100	4100	4100	6100	6100	6100
Distance between uprights	[mm]	3550	3550	3550	3550	5050	5050	5050
Throat depth	[mm]	400	400	400	400	400	400	400
Daylight	[mm]	615	615	615	615	615	615	615
Punch stroke	[mm]	390	390	390	390	390	390	390
Table width	[mm]	80	80 - 220	80 - 220	220	220	220	220
Fast speed	[mm/sec]	(0 - 180)	(0 - 160)	(0 - 160)	(0 - 150)	(0 - 160)	(0 - 160)	(0 - 160)
Working * speed	[mm/sec]	(0 - 15)	(0 - 15)	(0 - 15)	(0 - 10)	(0 - 10)	(0 - 10)	(0 - 10)
Upstroke speed	[mm/sec]	(0 - 160)	(0 - 140)	(0 - 130)	(0 - 120)	(0 - 140)	(0 - 130)	(0 - 120)
Hydraulic pressure (max)	[bar]	275	275	275	275	275	275	275
Main electric motor	[kW]	15	18.5	22	30	18.5	22	30
Length	[mm] A	5400	5400	5400	5400	7400	7400	7400
Width	[mm] B	1750	1800	1950	1950	1950	1950	1950
Height	[mm] C	3550	3550	3650	3850	3850**	4150**	4350**
Weight (approximate)	[kg]	13200	15200	16200	18200	23200	24200	28200

* Working speed is limited according to safety regulations for CE countries.
** Part of the machine is inside the ground.





Standard equipment

- Industrial control Cybelec DNC 60.
- Y1, Y2 independent hydraulic cylinders,proportional valve technology.
- Extra welded frame on the sides.
- Rigid and stable construction.
- Efficient, low noise and accurate hydraulic system BOSCH REXROTH.
- Ram guidance with heavy duty sliding system.
- Single axis back gauge system X.
- Mechanical upper tool clamping.
- Mechanical lower tool clamping.
- Stroke & Daylight dependent upon the model and customer request.
- Throat depth: 500 mm.
- Daylight: 570 mm.
- Punch Stroke: 320 mm.
- Photoelectric beam for safety.

Guiding with Heavy Duty bronze sliders, for a safe and accurate movement of the tool holder

Heavy Duty, two (2) axes, Back Gauge, X-R

Heavy Duty clamping system (up to 350t/m)

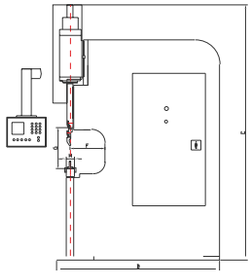
G HD® Series ≥ 330ton

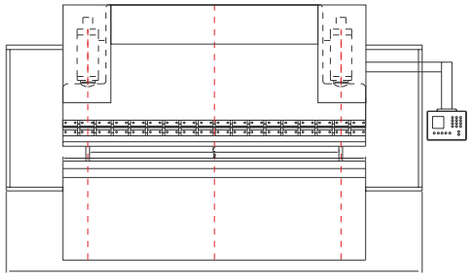
		G HD® 3330	G HD® 4330	G HD® 4440	G HD® 6330	G HD® 6440
Bending force	[tons]	330	330	440	330	440
Working length	[mm]	3100	4100	4100	6100	6100
Distance between uprights	[mm]	2550	3550	3550	5050	5050
Throat depth	[mm]	500	500	500	500	500
Daylight	[mm]	570	570	570	570	570
Punch stroke	[mm]	320	320	320	320	320
Table width	[mm]	250	220	220	220	220
Fast speed	[mm/sec]	(0 - 120)	(0 - 120)	(0 - 100)	(0 - 120)	(0 - 100)
Working speed	[mm/sec]	(0 - 10)	(0 - 8)	(0 - 7)	(0 - 7)	(0 - 7)
Upstroke speed	[mm/sec]	(0 - 100)	(0 - 90)	(0 - 90)	(0 - 90)	(0 - 90)
Hydraulic pressure (max)	[bar]	275	275	275	275	255
Main electric motor	[kW]	30	30	30	22	30
Length	[mm] A	4400	5400	5400	7400	7400
Width	[mm] B	2100	2700	2700	2700	2700
Height	[mm] C	3050*	3400*	3400*	3700*	3750*
Weight (approximate)	[kg]	24000	27000	33000	34000	45000

* Part of the machine is inside the ground.

		G HD® 6550	G HD® 6660	G HD® 6880	G HD® 7550	G HD® 7880
Bending force	[tons]	550	660	880	550	880
Working length	[mm]	6100	6100	6100	7100	7100
Distance between uprights	[mm]	5050	5050	5050	6050	6050
Throat depth	[mm]	500	500	500	500	500
Daylight	[mm]	590	590	650	590	650
Punch stroke	[mm]	350	350	380	350	380
Table width	[mm]	220	220	220	220	220
Fast speed	[mm/sec]	(0 - 100)	(0 - 90)	(0 - 90)	(0 - 90)	(0 - 90)
Working speed	[mm/sec]	(0 - 7)	(0 - 7)	(0 - 7)	(0 - 7)	(0 - 7)
Upstroke speed	[mm/sec]	(0 - 90)	(0 - 80)	(0 - 80)	(0 - 80)	(0 - 80)
Hydraulic pressure (max)	[bar]	275	275	275	275	275
Main electric motor	[kW]	37	45	55	37	75
Length	[mm] A	7400	7400	7400	8400	8400
Width	[mm] B	2700	2800	2800	2800	2800
Height	[mm] C	3800*	4100*	4100*	3800*	4100*
Weight (approximate)	[kg]	49000	54000	62000	65000	78000

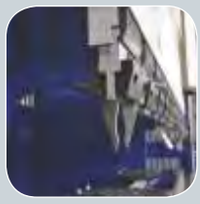
* Part of the machine is inside the ground.





CNC PRESS BRAKES

OPTIONAL EQUIPMENT

	G BEND®	G BEND® plus	G MASTER®	G HD®
Clamping Systems				
 Rol 1 fast clamping - Vertical - Horizontal loading and unloading Double ROL1/KDS system with possibility of tool reversing	✓	✓		✓
 Hydraulic WILA clamping, upper tool– Premium / Pro Version Hydraulic WILA clamping, upper & lower tool – Premium / Pro Version	✓	✓	✓	✓
 Pneumatic Upper tooling clamping, with vertical horizontical tool exchange, ROL100-PN (standard tools / none modification required)	✓	✓		✓
Anti-deflection Systems				
 Manual anti-deflection system (crowning)	✓	✓		✓
 CNC controlled anti-deflection system (crowning)	✓	✓	✓	✓
Safety				
 Laser safety Fiessler AKAS-2, with manual height adjustment, according to upper tool	✓	✓		✓
 Laser safety Fiessler AKAS-3, with automatic height adjustment, according to upper tool	✓	✓	✓	✓

	G BEND®	G BEND® Plus	G MASTER®	G HD®
Automation & Measurement				
 Automatic Laser Measurement and control of the bending angle	✓	✓	✓	✓
 Manual measurement of the bending angle and measurement transfer for auto-correction	✓	✓	✓	✓
 ATM (Automatic Thickness Mesurement) system and correction of the bending program	✓	✓	✓	✓
Offline Software				
 CAD / CAM Bending software, with auto tool selection and bend sequence selection as well (Compatible with all Cybelecs' controllers	✓	✓	✓	✓
Industrial Controls				
 Cybelec Modeva Pac, 15" Touch screen, 2D graphical controller	✓	✓		✓
 Modeva RA, 15" Touch Screen graphical controller, 3D	✓	✓	✓	✓

CNC PRESS BRAKES

OPTIONAL EQUIPMENT

	G BEND®	G BEND*plus*	G MASTER®	G HD®
	Back Gauges			
 Single Axis Back Gauge, X	✓	✓		✓
 Two (2) axes Back Gauge, X-R	✓	✓		✓
 Three (3) axes Back Gauge, X1-X2-R	✓	✓		✓
 Four (4) axes Back Gauge, X-R-Z1-Z2	✓	✓		✓
 Five (5) axes Back Gauge, X1-X2-R-Z1-Z2	✓	✓	✓	✓
 Six (6) axes Back Gauge, X1-X2-R1-R2-Z1-Z2	✓	✓	✓	✓
 Delta-X axis, X'	✓	✓	✓	✓

		G BEND®	G BEND plus	G MASTER®	G HD®
		Front Supports & Bending Aids			
	Heavy Duty Front supports, movable on linear guides and height adjustable (2 pieces)	✓	✓	✓	✓
	CNC Front supports (bending aid)	✓	✓	✓	✓
	Parking position for Front supports	✓	✓	✓	✓
		Extra			
	Air Condition systems for installations in countries with high temperatures or very low temperatures	✓	✓	✓	✓
	Robotic Applications	✓	✓	✓	✓
	Synchronized operation of two or more machines	✓	✓	✓	✓

Offline programming

PC-RA Premium offline software provides the office operator with the identical interface as on ModEva RA Premium. Results can be transferred to ModEva RA Premium.

The full 3D PC-RA Premium software, while providing better bending thanks to new high performance features, offers the draftsman all of today's modern CAM's features to be more productive.

As an alternative MetaBEND, a powerful off-line software, optimizes part creation productivity by proposing all CAD/CAM features required by the sheet metal industry.

Easy Operating

- Simple intuitive interface.
- Full 3D video-like simulation.
- Multiple view points while working.
- Machine components can be individually made invisible for better job examination.
- Automatic or interactive solutions for bending sequences, gauging, corner gauging, and tool mounting.

Better Bending

Creating Programs:

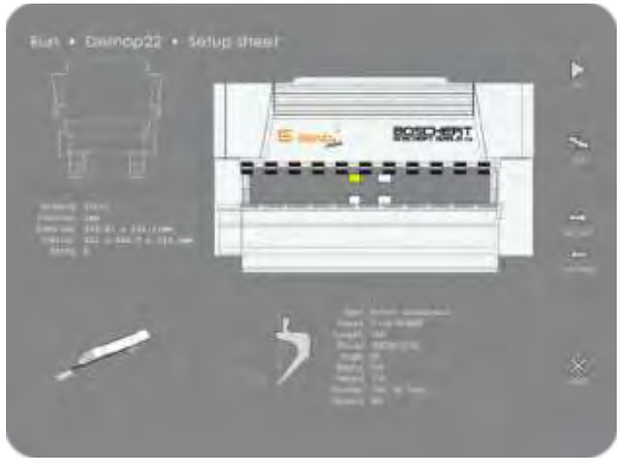
- 3D collision detection.
- Direct programming.
- User defined table for bend deduction.

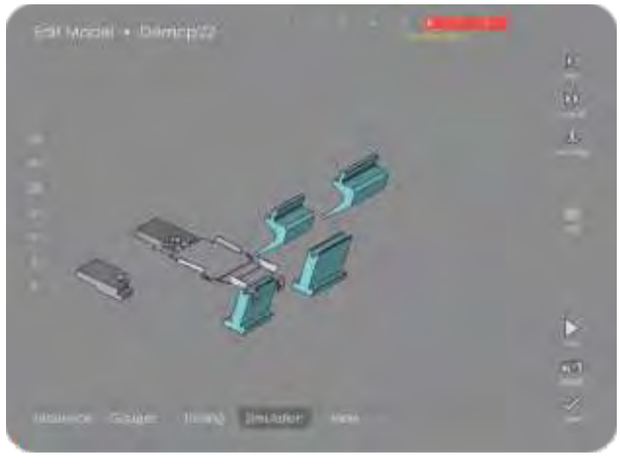
Tools:

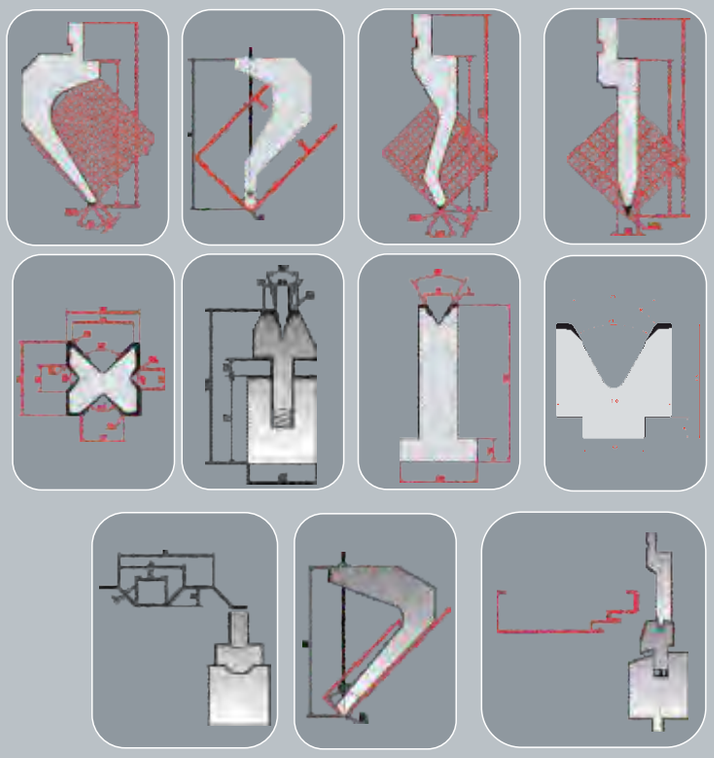
- Imported from MetaBEND software.
- Created using parameters.
- Automatic tool station dimensioning and positioning.
- Tool mounts can be edited interactively.
- Automatic tool shape selection.
- Automatic tool station segmentation.
- Delivered with major tool manufacturers' catalogues.

Powerful

- Rapid solution computation.
- Almost unlimited quantity of programs and sequences.
- Smooth and fast 3D motion.
- Importing DXF flat patterns with folding information.
- Importing 3D models (MetaBEND, IGES).
- Exporting computed flat patterns as DXF files.
- Importing DXF files with folding information.







Tooling
Standard or Special

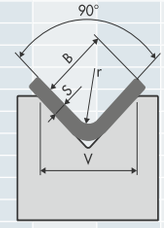
We deliver the machine and the tools ready to produce your products.

- Complete range of standard and special tools to cover every application.
- Strong alliance with European top class tool manufacturers.
- Strong advisory regarding tools and machine set up.

42 kg/mm²

S mm	4	5	6	8	10	12	16	20	25	32	40	50	63	80	100	125	160	200	250	V
	3	3.5	4	5.5	6.5	8	10.5	13	16.5	21	26	32.5	41	52	65	81.5	104	130	163	B
	0.5	0.7	0.8	1	1.3	1.5	2	2.5	3.2	4.4	5	6.5	8	10	12	15	20	25	37	Ri
0.6	6	5	3	2																
0.8	12	9	7	5	4															
1		15	11	8	6	5														
1.2			18	12	9	7	5													
1.5				21	15	12	8	6												
2					30	23	16	12	9											
2.5						39	27	20	14	11										
3							43	31	23	16	12									
4								60	44	32	23	18								
5									76	54	39	29	22							
6										85	62	45	33	25						
8											121	88	70	46	35					
10												151	109	79	58	44				
12													173	124	91	66	50			
15														213	155	113	81	62		
20															302	220	158	115	89	
25																378	269	197	144	Ft/m

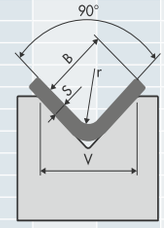
30°	Bx1.6	R=20kg/mm²	rx0.8
60°	Bx1.1		
90°	Bx1	R= 42kg/mm²	rx1
120°	Bx0.9		
150°	Bx0.7	R= 70kg/mm²	rx1.4



70 kg/mm²

S mm	4	5	6	8	10	12	16	20	25	32	40	50	63	80	100	125	160	200	250	V
	3	3.5	4	5.5	6.5	8	10.5	13	16.5	21	26	32.5	41	52	65	81.5	104	130	163	B
	0.5	0.7	0.8	1	1.3	1.5	2	2.5	3.2	4.4	5	6.5	8	10	12	15	20	25	37	Ri
0.6	10	8	6	4																
0.8	20	15	12	8	6															
1		25	19	13	10	8														
1.2			30	21	15	12	8													
1.5				35	26	20	113	10												
2					50	38	26	19	15											
2.5						66	45	33	24	18										
3							71	52	38	27	21									
4								101	73	53	38	30								
5									126	90	66	48	37							
6										142	103	76	55	42						
8											202	147	117	77	59					
10												252	182	131	96	74				
12													288	207	151	110	83			
15														354	258	189	135	104		
20															504	367	263	192	148	
25																603	448	328	240	Ft/m

30°	Bx1.6	R=20kg/mm²	rx0.8
60°	Bx1.1		
90°	Bx1	R= 42kg/mm²	rx1
120°	Bx0.9		
150°	Bx0.7	R= 70kg/mm²	rx1.4



GCUT® CNC Series

Standard equipment

- Swing beam hydraulic shear.
- Heavy duty, rigid all welded steel frame.
- Material Hold-down pressure adjustment proportionally to cutting pressure.
- Colour Touch Screen 10,4".
- Programmed cutting length.
- More hold downs near the squaring arm for better holding & cutting of small parts.
- Automatic programmable high speed CNC back gauge with AC servomotor.
- Precise Illumination of the cutting line.
- Special cutting blades made for steel and stainless steel.
- Ball casters on the table.
- Front guard with 1 swivelling part and safety switch.
- Rear fence equipped with photoelectric guards.
- 2 X front sheet supports 1m each with linear scale.
- 1 X squaring angle 1m with linear scale.
- Electrical parts Siemens, Telemecanique.
- Hydraulic Parts BOSCH-REXROTH.

1m Squaring Arm with linear scale

Front guard with 1 swivelling part

Colour Touch Screen 10.4"

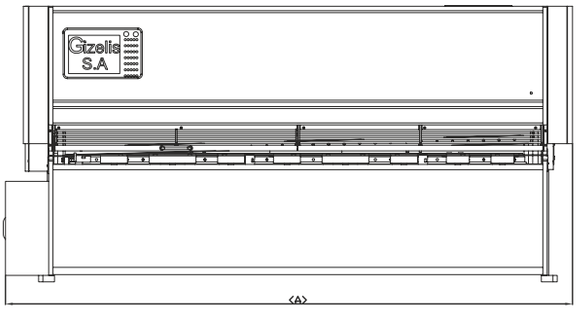
Front Supports (2 pieces) with 1m length

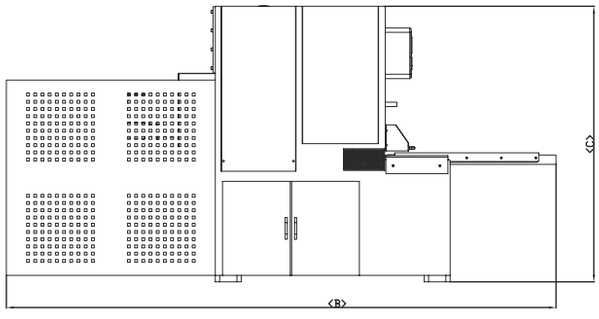
G Cut® CNC Series

		G Cut® CNC 2504	G Cut® CNC 3006	G Cut® CNC 3010	G Cut® CNC 3013	G Cut® CNC 3016	G Cut® CNC 3020	G Cut® CNC 4006
Maximum cutting thickness mild steel st42	[mm]	4	6	10	13	16	20	6
Maximum cutting thickness stainless steel	[mm]	2	4	6	8	10	12	4
Maximum cutting length	[mm]	2600	3100	3100	3100	3100	3100	4100
Throat depth	[mm]	155	180	210	210	260	260	180
Back gauge stroke	[mm]	1000	1000	1000	1000	1000	1000	1000
Cutting angle	degrees	1.26	1.42	1.79	1.97	2.33	2.85	1.49
Maximum hydraulic pressure	[bar]	255	255	255	255	255	255	255
Main Motor Power	[kW]	7.5	11	15	22	30	37	11
Length	[mm]	3450	3950	3950	3950	3950	3950	4950
Width	[mm]	3500	3900	4100	4500	4500	4500	3900
Height	[mm]	1950	1950	2050	2200	2550	2550	2050
Weight	[kg]	5900	8300	10500	13000	17000	24000	11800

		G Cut® CNC 4010	G Cut® CNC 4013	G Cut® CNC 4016	G Cut® CNC 4020	G Cut® CNC 6006	G Cut® CNC 6010	G Cut® CNC 6013
Maximum cutting thickness mild steel st42	[mm]	10	13	16	20	6	10	13
Maximum cutting thickness stainless steel	[mm]	6	8	10	12	4	6	8
Maximum cutting length	[mm]	4100	4100	4100	4100	6100	6100	6100
Throat depth	[mm]	220	220	220	220	305	305	305
Back gauge stroke	[mm]	1000	1000	1000	1000	1000	1000	1000
Cutting angle	degrees	1.91	2.05	2.18	2.20	1.46	1.5	1.5
Maximum hydraulic pressure	[bar]	255	255	255	255	255	255	255
Main Motor Power	[kW]	15	30	30	37	15	22	30
Length	[mm]	4950	4950	4950	5200	6950	6950	6950
Width	[mm]	4100	4500	4800	4800	4100	4500	4500
Height	[mm]	2000	2250	2550	2700	2000	2400*	2400*
Weight	[kg]	15000	16800	24000	28000	22000	28000	36000

* Part of the machine is inside the ground.





Sheet Support and Return to the Front (RTF) System

The sheet support system is needed for cutting of thin sheet metals and big in width strips.
In these cases the strip gets stretched by its weight with main results the wrong stop in the back gauge (so wrong measures) and very bad optical cutting result because the first part of the cutting strip will be distorted by its weight.

By activating the function of RTF, the cut out doesn't fall at the back side of the shear it returns to the shear operator.

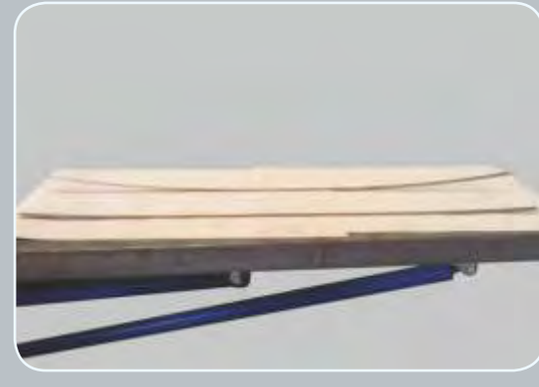
Position 1: Supports the sheet on the back gauge (in the full cutting length). It is not possible the sheet stretch.

Position 2: Goes down, approximately of 100mm, stops, waiting for the whole length to be cut, not leaving the sheet to bend to the floor.

Position 3: Goes down even more, taking a 45° position, guiding the sheet outside the working area of the shear.

NSC System Narrow Strip Cutting

With the use of this function, there is the ability to cut a very narrow strip, avoiding any kind of distortion.
Consequently, we are able to cut a strip of 40mm width from 8mm mild steel, in any length without the phenomenon of distortion. The operator inputs the desired value of the back gauge according to the sheet width; then places the sheet metal to the reference of the back gauge, and he selects from the touch screen the strip's width of the metal sheet, which he wants to cut. Finally he selects the number of the strip's we wants to extract from the sheet. The back gauge then automatically takes out the sheet metal through several steps (according to the number of strips) which correspond to the width that he has selected. The strip is taken out by the operator from the front side of the hydraulic shear. In order for this function to be activated, RTF function should be also activated.
Finally, NSC function is activated / deactivated easily through the touch screen.



MPF System Movable Front Panel

One more unique characteristic of our Shearing machines; by this option the front panel is movable towards the cutting length of the machine.
So as the operator is able to work with the Touch panel even if he cuts to the end of the machine.

ATM System Automatic Thickness Measurement

This is a unique feature which is driving the machine to a premium level of technology.
In order to avoid mistakes on the clearance adjustment by the operator, the machine is equipped with a special sensor which automatically measures the material thickness.
Immediately the measured thickness it is appeared in the Touch panel and the clearance is been set automatically. This function is easily enabled or disabled through the control panel.

MFS System Movable Front Supports

An additional unique option of our Shearing cutting machines by this option the two (2) front supports are independently movable towards the cutting length, so as the operator to be able to move the front supports and adjust them according to the length of his sheet metal.

GCUT® CNC Series

OPTIONAL EQUIPMENT

Brushes on table and supports

Chute for small pieces

Extended Front Supports

Front Protection
with Light Guards

Adjustable Goniometer
for angle cutting

Transport Belts

Two (2) axes Back
Gauge, X1-X2, for
angle cutting

Product Range

Boschert-Gizelis combined product range now covers a large variety of machines required in the sheet metal processing industry namely press brakes, shears, punching and notching machines, combined machines, portal type oxy & plasma cutting. On top of these products Boschert-Gizelis group is able to manufacture special machines on demand.

Shearing

Bending

Punching

PlasmaCutting

WaterJet

After Sale Services

- Teleservice 5 days a week.
- Service stations covering major geographical areas:
  - Germany
  - Greece
  - France
  - Poland
  - Croatia (Balkan countries)
  - Russia
  - India
  - Thailand
  - USA
  - GCC countries
    (Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, UAE)

One Group
One Deal
One service center
One Partner

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