



# Hajlítás és Vágás

***BOSCHERT GIZELIS.co***

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# 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.



## **BOSCHERT GIZELIS.co**

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**<sup>®</sup> High level press brakes, with higher class equipment and components.

**GBEND**<sup>®</sup><sub>plus</sub> High level press brakes, with higher class equipment and components providing the ultimate flexibility in bending process.

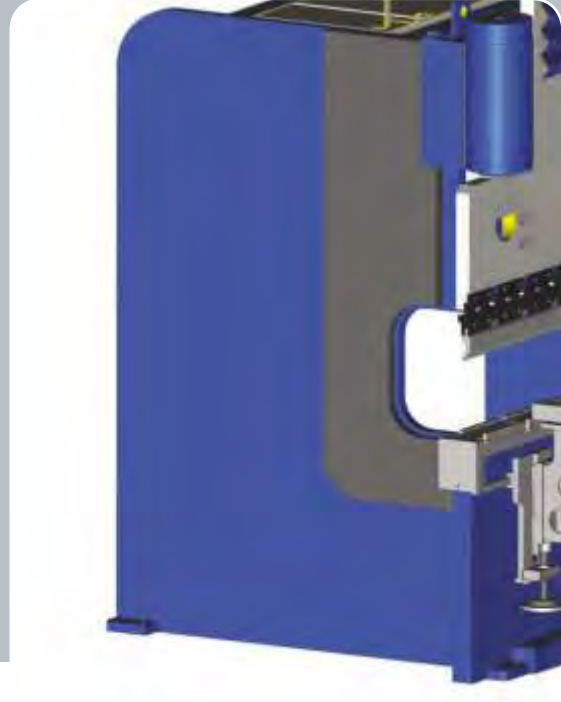
**GMASTER**<sup>®</sup> State of the art press brakes for the most demanding users.

**G-HD**<sup>®</sup> Heavy duty machines for large loads  $\geq 330$  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

# GBEND<sup>®</sup> *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



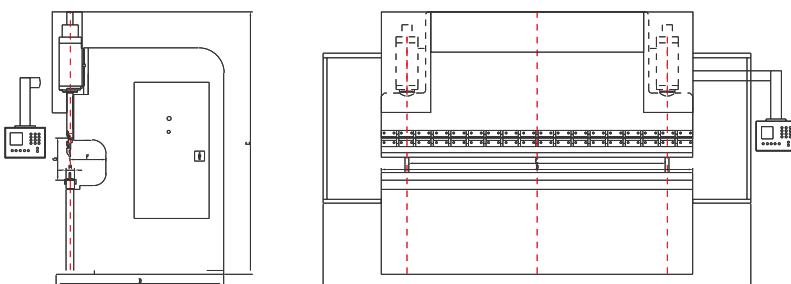
# G BEND<sup>®</sup> *plus* Series

		G Bend <sup>®</sup> 3080 <i>plus</i>	G Bend <sup>®</sup> 3110 <i>plus</i>	G Bend <sup>®</sup> 3140 <i>plus</i>	G Bend <sup>®</sup> 3175 <i>plus</i>	G Bend <sup>®</sup> 3210 <i>plus</i>	G Bend <sup>®</sup> 3290 <i>plus</i>
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 <sup>®</sup> 4140	G Bend <sup>®</sup> 4175	G Bend <sup>®</sup> 4210	G Bend <sup>®</sup> 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.



# CNC PRESS BRAKES

## OPTIONAL EQUIPMENT








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

		G BEND®	G BEND® <i>Plus</i>	G MASTER®	G HD®
<b>Automation &amp; Measurement</b>					
	Automatic Laser Measurement and control of the bending angle	✓	✓	✓	✓
	Manual measurement of the bending angle and measurement transfer for auto-correction	✓	✓	✓	✓
	ATM (Automatic Thickness Measurement) system and correction of the bending program	✓	✓	✓	✓
<b>Offline Software</b>					
	CAD / CAM Bending software, with auto tool selection and bend sequence selection as well (Compatible with all Cybelec's controllers	✓	✓	✓	✓
<b>Industrial Controls</b>					
	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 <sup>plus</sup>	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 <sub>plus</sub>	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:

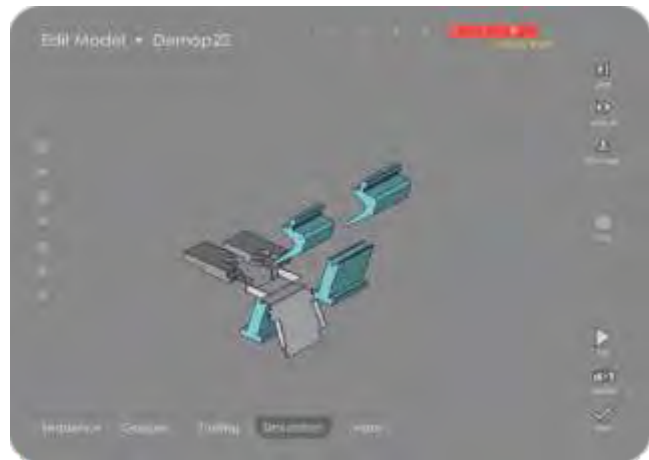
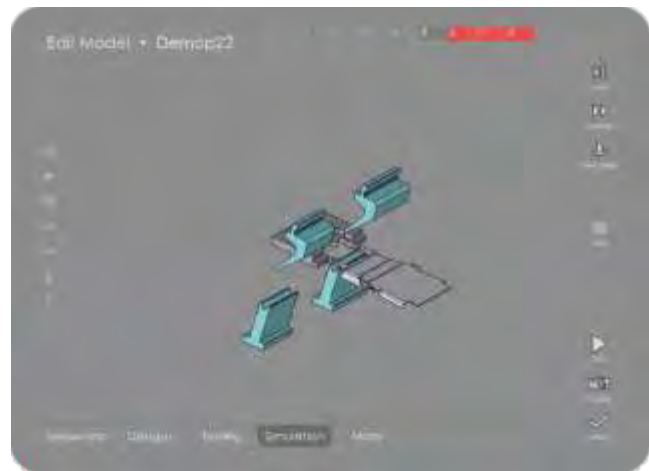
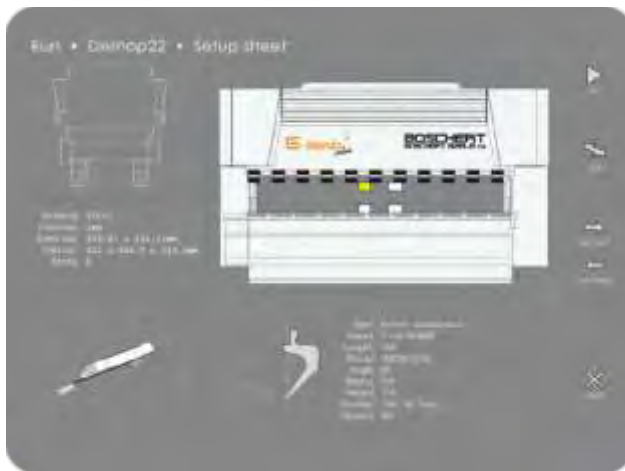
- 3D collision detection.
- Direct programming.
- User defined table for bend deduction.

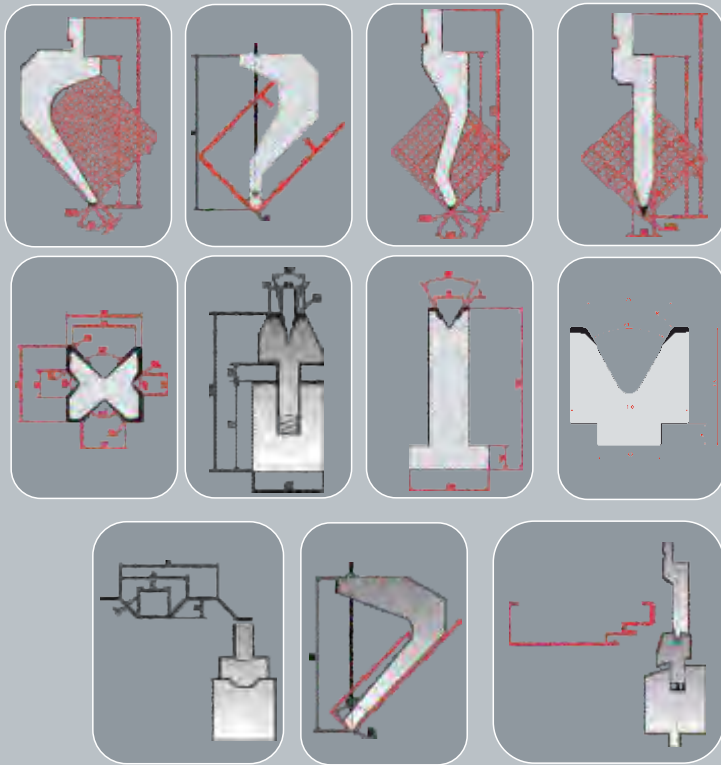
### Tools:

- 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.





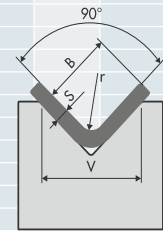
# Tooling Standard or Special

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.

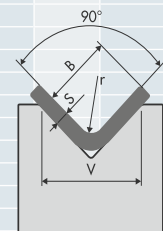
42 kg/mm <sup>2</sup>																				
S mm	4	5	6	8	10	12	16	20	25	32	40	50	63	80	100	125	160	200	250	V
	3	3.5	4	5.5	6.5	8	10.5	13	16.5	21	26	32.5	41	52	65	81.5	104	130	163	B
	0.5	0.7	0.8	1	1.3	1.5	2	2.5	3.2	4.4	5	6.5	8	10	12	15	20	25	37	Ri
0.6	6	5	3	2																
0.8	12	9	7	5	4															
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/mm <sup>2</sup>	rx0.8
60°	Bx1.1		
90°	Bx1	R= 42kg/mm <sup>2</sup>	rx1
120°	Bx0.9		
150°	Bx0.7	R= 70kg/mm <sup>2</sup>	rx1.4



70 kg/mm <sup>2</sup>																				
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/mm <sup>2</sup>	rx0.8
60°	Bx1.1		
90°	Bx1	R= 42kg/mm <sup>2</sup>	rx1
120°	Bx0.9		
150°	Bx0.7	R= 70kg/mm <sup>2</sup>	rx1.4





# 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



- ↘ 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)

## After Sale Services

One Group  
One Deal  
One service center  
One Partner



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