

PLATE BEVELLERS







Pipe Bevelling Machines Pipe Cutting Machines Grinding Machines Pipe Stands and Clamps Pipe Purging Plate Bevellers Heat Exchanger, Boiler & Bundle





GBC INDUSTRIAL TOOLS LTD ARE THE 'PIPE EQUIPMENT SPECIALISTS' FOR THE SUPPLY OF PIPEWORK EQUIPMENT AND TOOLS.

Over the past 30 years our parent company GBC Industrial Tools Spa, has established itself as one of the world's leading manufacturers of portable pipework machinery, due to its consistent high level of quality, both in product and service. We are pleased to be part of that team.

GBC has established an extensive distribution network to industries across the world. These industries include:



- Petrochemical
- Offshore
- Power Generation
- Heat Exchange Manufacture/Repair
- Boiler Industry
- Ship Building and Repair
- Nuclear
- General Fabrication
- Site Services



GBC Industrial Tools offer a comprehensive range of on-site machining services, please check with our office for your specific requirements.



Registered address: 7 Drakes Drive, Crendon Business Park Long Crendon, HP18 9FE

Registered in England & Wales. Registration no. 08966210 VAT no. 190019919

GBC HANDYBEVEL Portable Hand Held Plate bevelling machine

for straight and shaped plate

Compact, lightweight and portable, our manual plate beveler is conceived for beveling plates of reduced size and thickness, equipped with a face mill with interchangeable inserts, recommended especially for curved plates or plate with exotic profiles.

The GBC HANDYBEVEL is capable of executing bevels with the most common angles for which we can supply the respective face mill, it can bevel any material thanks to the different inserts available and can be employed for high productivity jobs delivering a maximum diagonal bevel length of 17mm.







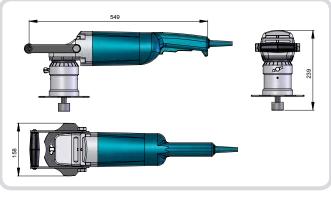
Technical Features

00W
00 rpm
mm
45° (b) 17 mm
5 – 10 m/min (Manual)
.5, 30, 37.5, 45, and 60 degrees
nimum 2.0 mm
5 x 156 x 238 mm
3 kg



Upon request GBC can supply a special face mill with inserts for rounding the sharp corners of the plate edge (R3, R4, R5).











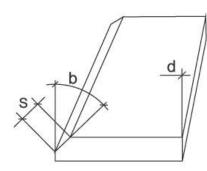


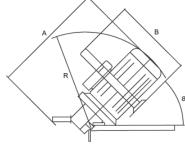
GBC 210

Portable Plate bevelling machine

Range: Thickness 6-60 mm Bevel Angle: from 0° to 60° Max Bevel Width: 21 mm Materials: Any type of steel and aluminium **Power:** 110v or 230v

The GBC210 is an easy to use, portable machine designed for bevelling steel plates prior to welding. It is fitted with two high speed milling heads, each holding six indexable carbide inserts for smooth and efficient bevelling.





A	B	R	S	Dmin	a	b	g	d =0°	weight
mm (")	mm (")	mm (")	mm (")	mm (")	(°)	(°)	(°)		kg (lbs)
420 16 %16	330 13	305 12	0-20 0- ³ /4	150 6	45-75	15-60	75-30	yes	20.0 43

TECHNICAL SPECIFICATION					
Power supply	1,1 KW, 110v or 230v				
Motor	Inductive with increased start-up current				
Motor speed	2.820 rpm				
Tooling	Integral milling head with 10 square inserts				
Standard angles range	0°-60°				
Optional functions	Plate facing				
Plate thickness	minimum 6 mm				
Dimensions	461 x 140 x 256 mm				
Weight	20 kg				



Mono block milling head, with 10 indexable inserts fixed with screws.



CE

Continuous angle adjustment from 0 to 60 degrees.



Plate beveling





Plate facing attachment (optional)



Challenge 12

Plate bevelling machine



Plate bevelling machine GBC CHALLENGE 12, with compact design to meet high portability demand all around working area. Once positioned on the plate edge the machine travels along the plate automatically, without any intervention by the operator.

Unit is fixed head type which allow bevel angle according with roller assembly skid mounted only. Replacement of the 30° roller supplied as std, for a different bevel angle ones (available 22°30' - 25° - 35° - 37°30' -45° - 55°) takes less than one minute.

Range w.t. 6-40 mm (1/4" – 1 ½")

RANGE: ¹/4" TO **1** ¹/2" THICKNESS.

FUNCTIONS: BEVEL FROM 22°30' TO 55°.

MATERIALS: CARBON STEEL, ALLOYS AND STAINLESS STEEL.

POWER: ELECTRIC 3 PHASE 380 V 50-60 Hz.

NOTE:

COMPLETELY SILENT! REDUCED WEIGHT AND DIMENSIONS ALLOW TO **GBC CHALLENGE** 12 AN EASY HANDLING. CAN BE MOVED BY HAND FROM STRIP PLATES BEVELLING TO BIG SIZE PLATES WITHOUT USE OF CRANE OF ANY LIFTING DEVICE.





Different types of milling cutters are available according with different steel grade to be machined.



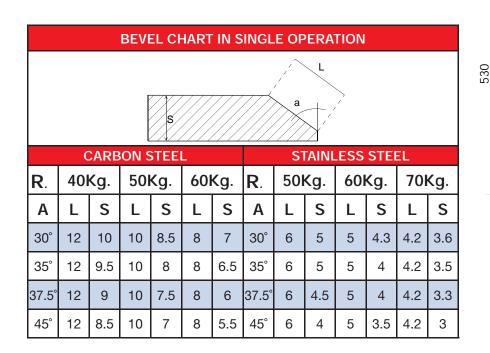
Technical Features

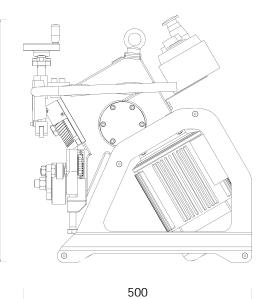
Power	Volts / Hz / Phase	380* / 50 / 3
Bevelling speed	Surface metres / min	2.4
Electric motor power	Kw	2.2
Min. plate width	Inches / Millimetres	2.36" / 60mm
Plate thickness	Inches / Millimetres	1⁄4" - 1 1⁄2" / 6-40mm
Std bevel angle**	Degrees	30°
Weight	Kg	65

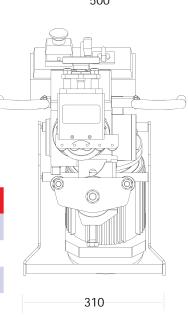
*Different Voltage available on request

Ordering Information

** See optional chart for any different bevel angles







Challenge 12	03-150-100-10000		
Milling tool for Carbon Steel	V02814/CARB		
Milling tool for Stainless Steel	V03380/INOX		
Millings tools for other materials available on request			

All CHALLENGE 12 units are supplied in wooden boxes for storage and transportation, complete with milling tool for carbon steel, roller assembly for 30 deg. angle, service wrenches, drawings, instruction manual and warranty certificate.

Part No.

Challenge 15 Portable Plate Edge Bevelling Machine



Range: 1/4" - 11/2" thickness Functions: from 22¹/₂° to 55° Materials: any type of steel and aluminium Power: electric 3 phase

No more Grinding! The Challenge 15 machine gives you a clean bevelled weld ready surface with no thermal distortion, saving time and money. This model offers automatic self feeding of the plate when bevelling small strips, or once positioned on a large plate will travel along the edge to the end with no requirement for intervention by the operator. Various angles from 22 to 55 degrees can be machined on different materials including stainless steel. There is no need to change rollers to change the angle of bevel. Our cutter head can be adjusted from angle to angle in minutes.

The Challenge 15 is fitted with a two speed motor, enabling the operator to reduce the speed according to the material, thus dramatically increasing the life of the milling tool when bevelling stainless steel and more exotic materials.



The Challenge 15 once mounted onto the plate edge will propel itself along automatically without any operator intervention

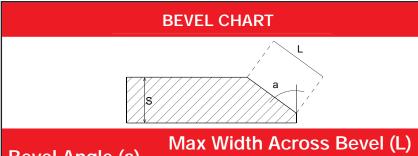


Close up of the milling cutter

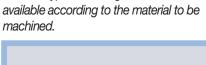
Technical Features

Power	Volts / Hz / Phase	380* / 50 / 3
Bevelling speed	Surface metres / min	1.5 3
Electric motor power	Kw	.42 .80
Min. plate width	Inches / Millimetres	2.75" / 70mm
Plate thickness	Inches / Millimetres	1⁄4" - 1 1⁄2" / 6-40mm
Bevel angles	Degrees	221/2° to 55°
Weight	Kg	104

*Different Voltage available on request

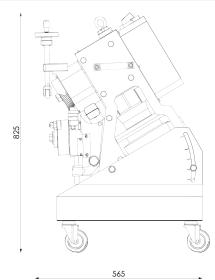


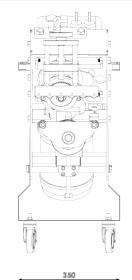
Bevel Angle (a)	Carbon Steel	Stainless Steel
22 ½°	18mm	13mm
30°	18mm	15mm
37½°	17mm	12mm
45°	16mm	12mm
55°	14mm	10mm

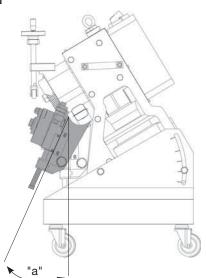


Different types of milling cutters are









Ordering Information	Part No.	
Challenge 15	C11650/00	
Milling tool for Carbon Steel	V03385/CARB	
Milling tool for Stainless Steel	V03601/INOX	
Hydraulic height adjustable trolley	04010/00	
Millings tools for other materials available on request		

All CHALLENGE 15 units are supplied in wooden boxes for storage and transportation, complete with milling tool for carbon steel, angle, service wrenches, drawings, instruction manual and warranty certificate.

compact EDGE

Range w.t. 6-60 mm (1/4" – 2 3/8")

Brand new plate beveling machine **Compact EDGE**, featuring a high speed face mill with interchangeable inserts, with reduced structural dimensions and weight for a more flexible and dynamic use.



compact EDGE

Range w.t. 6-60 mm (1/4" – 2 3/8")

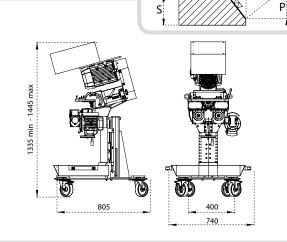
- TECHNICAL FEATU	IRES CO	DGE C	ompact DGE Яeverse
std. voltage	volt/hz/phase	400 / 50 / 3	400 / 50 / 3
adjustable beveling speed	m/min surface feet/min	0 - 1.6 <i>0 - 5.25</i>	0 - 1.6 <i>0 - 5.25</i>
electric motor power	kw	3	3
plate thickness	mm inch	6 - 60 1/4″ – 2 3/8″	6 - 60 1/4" – 2 3/8"
std bevel angle	deg	15° - 60°	15° - 60°
face mill speed without speed regulator	rpm	800	800
face mill speed with speed regulator	rpm	min 300 - max 800	min 300 - max 800
9 inserts face mill (Ø)	mm inches	80 3.15″	80 <i>3.15″</i>
machine gross weight	kg Ib	210 <i>462,97</i>	210 <i>462,97</i>
machine head weight without trolley	kg Ib	143 <i>315,26</i>	143 <i>315,26</i>
trolley weight	kg Ib	67 147,70	67 147,70
	e available on request		

BEVEL ANGLE "a"	MAX PLATE W.T. "S"	MAX BEVEL PE "L"max	RFORMANCE* "P"max
15°	60 mm	40 mm	38,7 mm
22,5°	60 mm	40 mm	37,0 mm
30°	60 mm	40 mm	34,7 mm
37°31′	60 mm	40 mm	31,7 mm
45°	60 mm	40 mm	28,3 mm
55°	60 mm	40 mm	23,0 mm
60°	60 mm	40 mm	20,0 mm

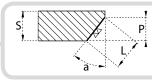
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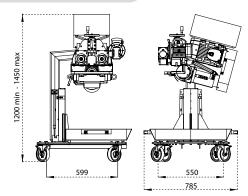
*In più passate *In multiple steps

COMPACT EDGE

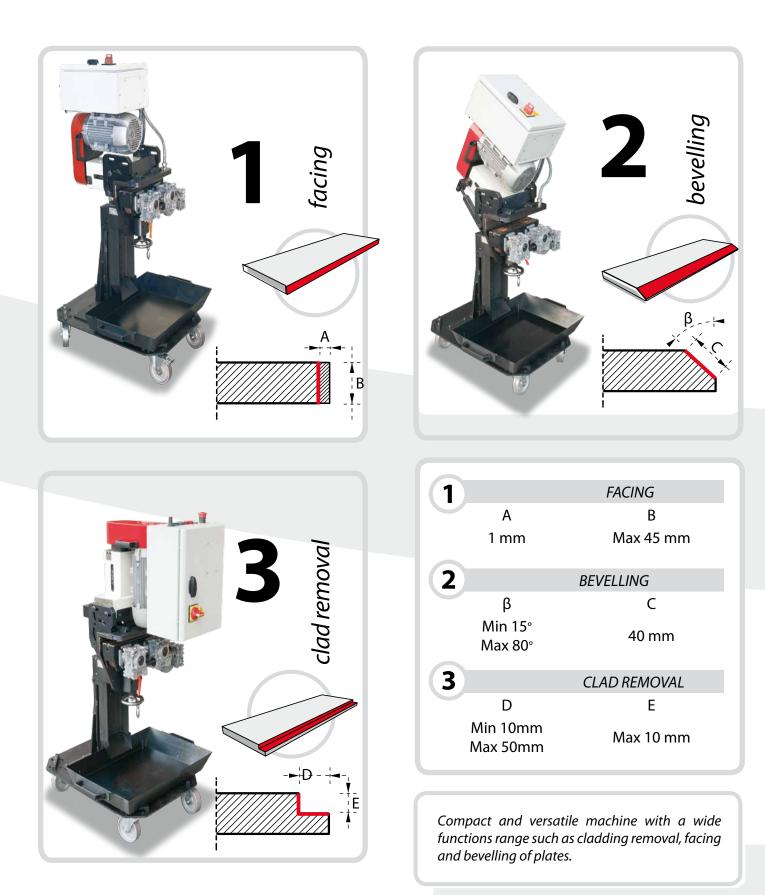


а



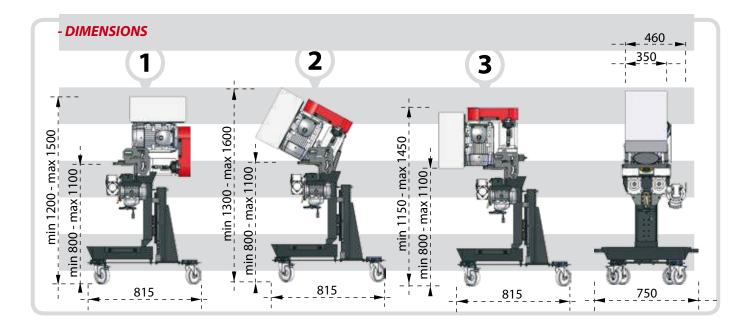






- TECHNICAL FEATURES

Electric motor power	W	3000
Tension	V	230/480
Frequency	Hz	50 / 60
Milling Head RPM	gg/min	800
Milling Head for bevel (Ø)	mm / n° inserts	80 - 9
Milling Head for Clad Removal	mm / n° inserts	80 - 8
Bevelling Angle		15°÷80°
Clad removal width	mm	Min. 10 - Max 50
Max facing thickness	mm	Max 45
Plate Thickness	mm	Min. 6 - Max 60
Bevel Length (Diagonal)	mm	Min. 0 - Max 40
Feeding speed rate	mt/min	0 ÷ 1.6
Weight	kg	205
Head weight without trolley	kg	138
Trolley weight	kg	67
Max Acoustic Emissions in Idle	db	76
Media Max Acoustic Emissions in Idle	db	86



EDGE46 J

High speed Plate bevelling machine with variable angle head



The Edge 46 High Speed plate bevelling machine is the latest technology in portable plate edge bevelling. The Edge 46 is the most powerful portable plate edge beveller in the world market place, capable of bevelling plate thicknesses of up to 120mm with a maximum bevel width of an **incredible 46mm** - on any angle and any material!

Smooth weld ready bevels are achieved with minimum effort in the quickest possible times. There is no need to re-grind the bevel and no dust or fumes from the flame cutting. Also, due to the high speed bevel there is no thermal distortion, saving time and money.

The Edge 46 has a unique design; special benefits and features include the variable angle bevel head from 15° to 60° this high speed, tipped insert, bevel head is powered by <u>two</u> 2.2KW 3 phase motors.

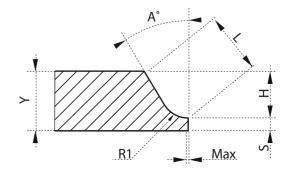
The Edge 46 is portable, it is easily manoeuvred on its 4 castor wheels, therefore eliminating the use of a crane or lifting device and for ease of set-up the Edge 46 is adjustable in height. All materials of plate can be machined, including Carbon steel, Stainless steel, Super Duplex and Aluminium. Range: 5/16" - 4 3/4 " thickness (8-120mm) Bevel Angle: from 15° to 60° Materials: Any type of steel and aluminium Power: Electric 3 phase



The **Edge 46** produces bevels using an insert-type high speed milling head, enabling a high material removal rate, while keeping replacement consumable costs to a minimum. Bevelling tips have 4 cutting edges and are available to machine all types of material.

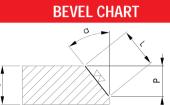


The latest versions of the Edge46 can execute J bevels with various angles, by replacing the standard milling headwith a head that accepts round inserts.

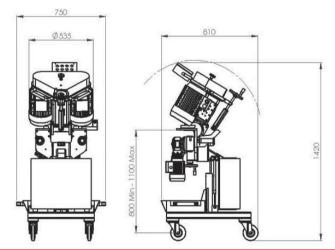


Technical Features

Power	Volts / Hz / Phase	380* / 50 / 3
Bevelling speed	Surface metres / min	2.4
Electric motor power	Kw	2.2
Plate thickness	Inches / Millimetres	1⁄4" - 2 ¾" / 6-60mm
Bevel angle	Degrees	15-60°
Weight *Different Voltage available on request	Kg	65



BEVEL ANGLE "A"	MAX PLATE W.T. "S"	MAX BEVEL SIN "L"	NGLE STEP "P"	Material Removal Rate "Q"	Max Bevel Pe "L" Max	ERFORMANCE "P" MAX	
15°	60 mm	22 mm	21,2 mm	664,9 g/1'	46 mm	44,5 mm	
22,5°	60 mm	17,8 mm	16,5 mm	659,5 g/1'	46 mm	42,5 mm	
30°	60 mm	16 mm	14 mm	652,6 g/1'	46 mm	39,8 mm	
37°30'	60 mm	14,5 mm	11,5 mm	597,8 g/1'	46 mm	36,5 mm	
45°	60 mm	14 mm	9,9 mm	577 g/1'	46 mm	32,5 mm	
55°	60 mm	14,9 mm	8,5 mm	614,1 g/1'	46 mm	26,4 mm	
60°	60 mm	16,2 mm	8 mm	624,4 g/1'	46 mm	23,1 mm	
				, S		- /	



Ordering Information	Part No.				
Edge46	ED46E00				
Milling head	12-690-000-00003				
Cutting inserts for Carbon Steel (Pk 10)	11-400-900-15045				
Cutting inserts for Stainless Steel (Pk 10)	11-400-900-15080				
Cutting inserts for other materials available on request					





GBC Rental

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 Bevelling Machines
- Pipe Cutting Machines
- Pipe Clamps and Stands
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 Machines
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