

PLATE AND PIPE **BEVELLING SOLUTIONS**









WELD PREPARATION MADE EASY

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BM2A

HAND-HELD RADIUS AND **DEBURRING TOOL**











Deburring



Bevel radius R1.5



Countersinking min. ID 6.8 mm



Deburring angle 45



Max deburr width 2 mm



- Weighs only 400g5 bar operation

- Milling head holds both radius and milling inserts
 leal for plates and inside edges
 Deburr internal holes from a minimum 6.8 mm
- Deburr sharp edges or create a paint-ready radius edge







BM5A

PNEUMATIC BEVELLING AND RADIUS MACHINE





Cuts inside circles with a 35mm diameter or more



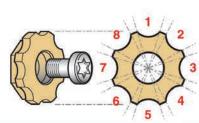
Cuts materials with a minimum of 6mm thickness



Will make blind cuts with a minimum of 11 mm depth



- Works great for all metal fabricating including shipyards.
- Cuts 2-3R radius chamfers.
- Cuts 2-3R straight chamfers.
- 3 bladed cutting head
- Patented 8 edged cutters
- 3.5R Chamfering capacity
- 7,000 rpm max speed
- Net weight 2.8 kg











BM-18 MULTITASK PLATE

AND PIPE BEVELLER



Max bevel width 18 mm



Rounding edges (option) R2, R3, R4 or R5



Top bevelling



Bevel angles: 22.5°, 30°, 37.5°, 45°, 50°, 55°, 60°



Min plate thickness 2 mm



Arched edge bevelling



Countersinking Min. ID 40 mm



Pipe OD bevelling

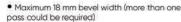


Pipe ID bevelling Min. ID 40 mm





Features & benefits:



- New more durable milling heads with hexagonal fixing for easy replacement
- Electronic speed control from 1800-5850 rpm for use on a variety of materials
- Continuous milling depth adjustment to fully control the bevelling process
- Overload protection to prevent motor
- Rounding radius R2, R3, R4, R5 on both straight and curved edges
- Optional accessories expand the possible applications of the BM-18 to deal with pipes and small workpieces.







BM-18A PNEUMATIC PLATE BEVELLER



Max. bevel width 18 mm



Rounding edges (option) R2, R3, R4 or R5



Top bevelling



Bevel angles 22.5°, 30°, 37.5°, 45°, 50°, 55°, 60°



Min. plate thickness 2 mm



Arched edge bevelling

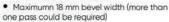


Countersinking Min. ID 40 mm









- New: more durable mnilling heads with hexagonal fixing for easy placement
- · Continuous milling depth adjustment to fully control the bevelling process
- · Rounding radius R2, R3, R4, R5 on both straight and curved edges













BM-20 PLUS

PORTABLE BEVELLER









Features & benefits:

- Maximum 21 mm bevel width
- Continuously adjustable bevel angle between 15° and 60°
- Fitted with two rotary milling heads for smooth and efficient operation
- · Continuous milling depth adjustment to fully control the bevelling process
- Automatic motor overload protection to prevent motor damage
- Optional accessories extend the application possibilities of the BM-20 Plus for machining pipes, round plates and creating a flat surface at the of workpiece (facing off)

BM-21

INDUSTRIAL PLATE & PIPE BEVELLER









Mono block milling head equipped with 10 square inserts to make machining process far more efficient and much less operator

Features & benefits:

- Easy setting of bevel width up to 21 mm at 45°
 Continuous angle adjustment from 0 to 60
- Automatic motor overload protection to prevent motor damage
- Quick and simple replacement of cutting inserts
- One universal guide plate for bevelling both plates and pipes









Max bevel width 21 mm

OD 150-300mm (option)

OD 260-600mm (option)



Facing off



Top bevelling



Bevel angles 0-60°



Pipe bevelling OD 150-300 mm OD 260-600 mm (option)



BM-21S

STAINLESS STEEL **PLATE & PIPE BEVELLER**





Max bevel width 21 mm



Facing off



Top bevelling



Bevel angles 0-60°



Pipe bevelling OD 150-300 mm OD 260-600 mm (option)



Features & benefits:

- · Guide plate with rolls made of stainless steel to protect the workpiece from contamination
- · Mono block milling head equipped with 10 square inserts make machining process far more efficient with reduced operator fatigue
- Easy bevel width set up 21 mm at 45° Continuous angle adjustment from 0 to 60
- Automatic motor overload protection to prevent motor damage
- Quick and simple replacement of cutting inserts
- One universal guide plate for bevelling both plates and pipes





BM-25

PLATE BEVELLING MACHINE





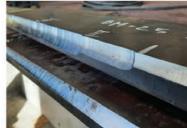


Features & benefits:

- Maximum 25 mm bevel width (more than one pass could be required)
- Continuously adjustable bevel angle between 0 and 90 degrees - only one milling head in use
- Powerful motor with electronic speed control 1800 - 5850 rpm works with various materials
- The face milling method works with a single head allowing less milling resistance and effort
- Overload protection to prevent motor damage
- Continuous milling depth adjustment to fully control the bevelling process

 • Adjustable handle and grip for comfort and
- ergonomics





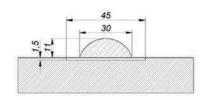
Top bevelvling







- Removal of excess weld up to 11 mm high and 30 mm wide
- Possibility of undercutting to a depth of up to 1.5 mm







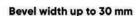


SBM-500

STATIONARY BEVELLING **MACHINE**









Workpiece height from 3 mm up to 100 mm



Edge Bevelling



Bevel angles 15° - 60° continuous adjustment



Min. workpiece width 50 mm Min. workpiece length 150 mm



Pipe OD bevelling from 50 mm up to 150 mm (option)







- Precise setting of bevel angle from 15 up to
- 60 degrees and bevel width up to 30 mm
 3D contact wheel control ensures proper workpiece alignment in relation to high speed
- rotary milling head

 Variable auto-feed to bevel both ferrous and non-ferrous materials
 • Cutting inserts dedicated for optimal

- performance on different materials
 Easy access to milling head and cutting inserts
 Overload protection to prevent motor Damage
- SBM-500 streamlines workflow to maximise your production efficiency



















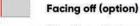


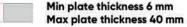
ABM-14

AUTO-FEED PLATE AND PIPE

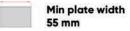


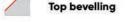
Bevel width up to 14 mm

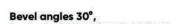


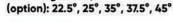


Bottom bevelling











Pipe OD bevelling Min. ID 100 mm (4")





Features & benefits:

- ABM-14 automatically runs along the edge
- of a long workpiece

 Two optional trolleys increase ergonomics, comfort and productivity
- Standard shearing cutter for machining stainless/alloyed steel
- Two optional dedicated shearing cutters for carbon steel and aluminum
- Stationary operation is possible for machining small workpieces or pipes with ID > 100 mm (4")
- Additional vertical roller guide enables machining concave edges if curvature radius is 1500 mm or more
- ABM-14 is a low-noise machine





ABM-28

PORTABLE AUTO FEED MACHINE



Facing off

Plate thickness max 35mm 36-70mm (option)

Bevel angle from 60 to minus 60°

Top bevelling

Bottom bevelling

Clad removal (option) depth up to 5 mm (0.2") width up to 25 mm (1")

J-groove bevelling (option)





- Auto feed bevelling on steel plates on top,
- face and bottom edges
 Continuously adjustable bevel angle between 60 and minus 60 degrees - no need to rotate or flip heavy material enhancing safety and reducing material handling time and expense
- Max. bevel width from 28 up to 35 mm depending on the bevelled angle
- Variable feed control for work on a variety of steel grades and thicknesses up to 35 mm as standard or optionally up to 70 mm thickness
- Motor overload protection to prevent motor damage
- · Additional guide track are joinable to accomplish the required run length
- J-groove bevelling available as option











ABM-30

AUTO TRAVEL TRACKLESS BEVELLER



Bevel width up to 30 mm



Facing off



Plate thickness max 60 mm



Bevel angle between -70 and 70°



Top bevelling



Bottom bevellving





Features & benefits:

- 4-wheel drive eliminates a need for guide track
- Self-propelled machine for consistent bevel
- geometry from edge to-edge
- Control panel indicates current work mode and gives safety and diagnostic information
- Capable of producing bevels up to 30 mm wide
- Infinitely adjustable bevel angle between
 70 and + 70 degrees
- Produces double-side bevels without having to flip the plate enhancing safety and reducing material handling time and expense
- Feedback-controlled overload system to prevent motor damage
- Semi-automatic drive stop at plate end





ABM-50

AUTO TRAVEL DOUBLE-











Bevel width up to 50 mm / 45° up to 66 mm / 15°



Max plate thickness 80 mm **Bevel angles** top 15° - 60°, bottom 15° - 60°

Min plate thickness 8 mm



Top bevelling

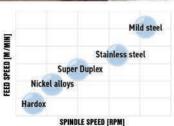


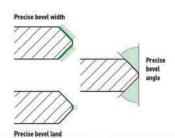
Bottom bevelling



- Auto-feed machining to increase ergonomics, comfort and productivity
 Bevel width up to 50 mm (2") at 45 degrees
- LCD display shows exact bevel geometry and cutting parameters in real time
 • Precise adjustment of spindle speed and feed rate
- according to material grade, including stainless steel, duplex, aluminum, etc.
- 180° inversion allows for creation of a double-sided bevel - no need to rotate or flip heavy material reduces material handling time and expense
- Versatile and transportable on its own trolley
- · Feedback-controlled overload system to prevent motor damage











PB2 **COMPACT PIPE BEVELLER**



Electric motor

Pneumatic motor

Battery drive



Max wall thickness up to 8 mm



ID 19.5 - 38 mm ID 15.5 - 22 mm (option) ID 38 - 58 mm (option)



Facing off



Pipe OD beveling up to 48 mm up to 60.3 mm (option)

Features & benefits:

- Machine covers a range of diameters from 15.5 mm ID up to 60.3 mm OD
- Self-centering expandable ID mounted mandrels provide quick and proper
- alignment to pipes or tubes prior to operation
 Innovative expansion sleeves reduce fitting time and improve work flow
- Standard and custom made tool bits available for creating various bevel angles
- Up to two tool bits can be mounted and work simultaneously to make weld prep operations fast and easy
- Can be operated with a high quality powerful pneumatic motor, top quality high torque electric motor or battery drive depending on site conditions and customer preference
- The end-user can choose from LiHD (High Density Lithium Ion) battery packs with capacities of 4.0 Ah, 5.5 Ah or 10.0 Ah, which have an extended lifespan, more power and longer operating time than standard lithium







PB5 **PORTABLE PIPE BEVELLER**

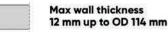


Electric motor

Battery drive









ID 32-107 mm 25-32 mm (option) 107-133 mm (option)



Facing off



Pipe OD beveling 114 mm up to 140 mm (option)



J-groove beveling



- Machine covers a range of diameters from 32mm ID up to 140 mm OD
- · Self-centering expandable ID mounted mandrels provide quick and proper alignment
- to a pipe or a tube prior to use
 Up to three tool bits can be mounted to bevel, face and counter-bore simultaneously to make weld prep operations fast and easy
- Standard and custom made tool bits available for creating various bevel angles for V and J-groove preparation
- Optional small spindle disc and ratchet wrench enable pipe machining in difficult to access and space restricted areas
- Can be operated with a high quality Powerful pneumatic motor, top quality high torque electric motor or battery drive depending on site conditions and customer preference
- Choose from LiHD (High-Density Lithium Ion) battery packs with capacities of 4.0 Ah, 5.5 Ah or 10.0 Ah, which have an extended lifespan, more power and longer operating time than standard lithium batteries









PB10

PORTABLE PIPE BEVELLER





Electric motor



Max. wall thickness 15 mm



ID 84-269 mm 38-84 mm (option) or 270-349 mm (option)



Facing off



Pipe OD bevelling



Pipe ID bevelling



J-groove bevelling (option)







Features & benefits:

- Heavy-duty, portable beveller designed to create a perfect weld prep edge prior to joining
- Bevel, face and counter-bore simultaneously
- Machine covers a range of diameters from 38 mm ID up to 355 mm OD
- Standard and custom made tool bits available for creating various bevel angles for V and J-groove preparation
- Up to three tool bits can be mounted to bevel, face and counter-bore simultaneously to made weld prep operations fast
- Self-centering expandable ID mounted mandrels enables highly repeatable and consistent fit-up and can be rapidly deployed from one pipe to another to reduce cycle times and improve work flow
- It can be used efficiently by a single operator



PB40 PBS

STATIONARY PIPE BEVELLING

MACHINE



Max bevel width 45 mm



Min. wall thickness 5 mm



Bevel angle from -60° to 60° Pipe OD 200-1000 mm



Facing off



Pipe OD bevelling



Pipe ID bevelling



J-groove bevelling









- 200 mm to 1000 mm diameter capacity to cover most of the common applications
- Continuously adjustable bevel angle between
- 0 and 60 degrees
- Able to bevel pipes made of carbon or stainless steel
 Optional oval pipe tracking attachment enables
- consistent land/root face thickness (available either with brand new machine or for retrofitting)
- Maximum allowed pipe weight up to 10,000 kg
- with optional steel rollers

 Overload protection to prevent motor damage
- PRO-40 PBS produces accurate bevels in a fraction of the time required by traditional single-point machining, saving time, money and improving accuracy











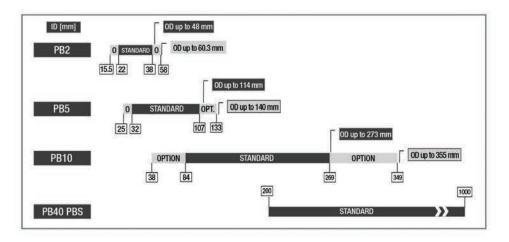
PLATE BEVELLERS FAMILY

0 COUNTER SINKING DOUBLE SINGLE FACE-OFF J-GROOVE RADIUS ROUND CLAD OD ABM-14 X XXXX ABM-28 ABM-30 XXX ABM-50 BM-18 X **BM-18A** BM-20 PLUS X X X X X BM-21/21S BM-25 SBM-500 χ

		Total Company		
	BEVEL ANGLES	MAX BEVEL WIDTH	PLATE THICKNESS	MOTOR TYPE
ABM-14	22.5°, 25°, 30°, 35°, 37.5° or 45°	14 mm	From 6 mm up to 40 mm	Electric
ABM-28	- 60° to 0°; 0° to 60°	35 mm	Up to 35 mm (70 mm option)	Electric
ABM-30	- 70° to 0°; 0° to 70°	30 mm	From 8 mm up to 60 mm	Electric
ABM-50	- 60° to - 15°; 15° to 60°	50 mm	From 8 mm up to 80 mm	Electric
BM-18	22.5°, 30°, 37.5°, 45°, 55° or 60°	18 mm	Min. 2 mm	Electric
BM-18A	22.5°, 30°, 37.5°, 45°, 50°, 55° or 60°	18 mm	Min. 2 mm	Pneumatic
BM-20 PLUS	15° to 60° or 0° (option)	21 mm	Min. 2 mm	Electric
BM-21/21S	0° to 60°	21 mm	Min. 2 mm	Electric
BM-25	0°-90° (15°-75° recommended)	25 mm	Min. 2 mm	Electric
SBM-500	15° to 60°	30 mm	From 3 mm up to 100 mm	Electric

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PIPE DIAMETER RANGE



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	OD BEVEL	FACE-OFF	ID BEVEL	J-GROOVE	FLANGE FACING
ABM-14	X	X			
ABM-28	X	X	X	X	
ABM-30	Х	X	X	X	X
ABM-50	Х	X	X	X	

	BEVEL ANGLES	PIPE WALL THICKNESS	MOTOR TYPE
ABM-14	F0°, B30°, B37.5°, B45°	Up to 8 mm	Electric, pneumatic, battery
ABM-28	F0°, J10°, IC15°, J15°, J20°, B30°, B37.5°, B45°	Up to 12 mm	Electric, pneumatic, battery
ABM-30	F0°, IC15°, J15°, J20°, B30°, IB30°, B37.5°, IB37.5°, B45°, IB45°	Up to 15 mm	Electric, pneumatic
ABM-50	0° to 60° or -60° to 0° (option)	Minimum 5 mm	Electric

B - Bevel tool bit, F - facing tool bit, IB - internal bevelling, IC - internal calibration tool bit, J - J-Groove tool bit





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