STEELBEAST

STEELBEAST MACHINERY

Bevelling, welding automation and metal fabrication equipment.



RANGE CONTENTS

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Model links lead to JEI product information and technical downloads. Specify the exact supply, tooling and options when requesting a quote.

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MACHINE SELECTION

Portable Plate Bevellers

Compare portable tools by bevel width, angle and minimum workpiece thickness.

BM2A



Bevel radius R1.5
Countersinking min. ID 6.8mm
Deburring angle 45°
Max deburr width 2mm

Product **Datasheet** **Manual** **Parts**

BM-5A



Chamfering cap.: · 3.5R
Max. Speed: · 7,500rpm
Net Weight: · 2.8kg
Cuts inside circles with a 35mm Ø or more.
Cuts materials with a minimum of 6mm thickness.
Will make blind cuts with a minimum of 11mm depth.
2-3R straight and radius chamfers

Product **Datasheet**

BM-5HP



Radius cap.: · R2.5-R4
Chamfering cap. · C5
Max. Speed: · 5,000 rpm
Net Weight: · 3.2
Cuts inside circles with a 35mm Ø or more.
Cuts materials with a minimum of 6mm thickness.
Will make blind cuts with a minimum of 11mm depth.
r2.5-R4 radius EDGES

Product **Datasheet**

BM-6C



Power supply · 18 V DC
Power · 900 W
Max Bevel Width · 6mm
No-load speed · 7800 rpm
Bevel Angle (depending on milling head) · 45° (30° option)
Minimum Workpiece Thickness · 2mm (0.08”)
Radius Bevelling · R2, R3, R4, R5
Weight (without milling head) · 3.7 kg (8.2 lbs)

Product **Datasheet** **Manual**

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MACHINE SELECTION / 02

Portable Plate Bevellers

Compare portable tools by bevel width, angle and minimum workpiece thickness.

BM7



Bevel width up to 7mm
Top bevelling
Bevel angles 45°, 30° (option)
Bevel radius R2, R3, R4 or R5
Arched edge bevelling
MIn plate thickness 1.5mm

Product **Manual** **Parts**

BM-18



Order: BM18/1

Power supply · 1~ 110-120 V, 50-60 Hz
Power · 2200 W
Max Bevel Width · 18mm
No-load speed · 1800–5850 rpm
Bevel Angle (depending on milling head) · 22.5°, 30°, 37.5°, 45°, 50°, 55°, 60°
Minimum Workpiece Thickness · 2mm (0.08”)

Product **Datasheet** **Manual**

BM-18AR



Rounding edges R2, R3, R4 or R5
Max bevel width 18mm
Top bevelling
Bevel angles 22.5°, 30°, 37.5°, 45°, 50°, 55°, 60°
Countersinking Min. ID 40mm
Min. plate thickness 2mm

Product **Datasheet** **Manual** **Parts**

BM20 PLUS



Motor · 1550/1600 W (for 50/60Hz, at 220 V)
Maximum Bevel Width · up to 20.5mm (Bevelling at 30° and 60°)
Pipe Bevelling Dia. · 150mm - 300mm/ 260mm - 600mm (with additional attachments)
Motor Speed · 2780 - 3340 RPM (220 V) / 2740 - 3290 RPM (110 V)
Angle Range · 15-60° as Standard (0° Facing Off with additional attachment)

Product **Datasheet**

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MACHINE SELECTION / 03

Portable Plate Bevellers

Compare portable tools by bevel width, angle and minimum workpiece thickness.

BM21



Top bevelling
Facing off
Bevel angles 0° to 60°
Bevel width up to 21mm
Pipe OD range 150-300mm 260-600mm (option)

Product Datasheet Manual Parts

BM-25



Max bevel width 25mm
Bevel angles 0° - 90° 15°-75° (recommended)
Min plate thickness 2mm

Product Datasheet Manual

BM-25S



Max bevel width 25mm
Bevel angles 0° - 90° 15°-75° (recommended)
Min plate thickness 2mm

Product Datasheet Manual

WS-30



Order: UKS-0761-10-20-00-0

Voltage · 1~ 220-240 V, 50-60 Hz
Power · 2200 W
Spindle speed (without load) · 1800-5850 rpm
Max. milling width · 30mm
Weight · 12,5 kg (27 lb)

Product Datasheet Manual

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MACHINE SELECTION

Radius Edge Preparation

Match the radius head and inserts to the edge profile required.

BM-2AR

Bevel radius R1.5
Countersinking min. ID 6.8mm
Deburring angle 45°
Max deburr width 2mm

Product Datasheet Manual Parts

BM-5AR



Chamfering cap.: · 3.5R
Max. Speed: · 7,500rpm
Net Weight: · 2.8kg
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 11mm depth.

Product Datasheet

AUTO RAD MACHINE



Bevel radius R2, R3, R4 or R5
Bevel angles 45°
Min plate thickness 8mm
Max plate thickness 30mm

Product Datasheet Manual

BM-6CR



BEVEL RADIUS, R2, R3, R4 OR R5
TOP BEVELLING
ARCHED EDGE BEVELLING
COUNTERSINKING MIN. ID 40mm
PIPE OD BEVELLING
PIPE ID BEVELLING Min. ID 40mm
BEVEL ANGLES 45° (with optional 30°)
MAX BEVEL WIDTH 6mm

Product Datasheet Manual

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MACHINE SELECTION / 02

Radius Edge Preparation

Match the radius head and inserts to the edge profile required.

BM-7R



Bevel radius R2, R3, R4 or R5
Bevel width up to 7mm
Top bevelling
Bevel angles 45°, 30° (option)
Arched edge bevelling
MIn plate thickness 1.5mm

Product **Datasheet** **Manual** **Parts**

BM-18R



Rounding edges R2, R3, R4 or R5
Max bevel width 18mm
Top bevelling
Bevel angles 22.5°, 30°, 37.5°, 45°, 50°, 55°, 60°
Countersinking Min. ID 40mm
Min. plate thickness 2mm

Product **Datasheet** **Manual** **Parts**

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MACHINE SELECTION

Automatic & Stationary Bevellers

Compare feed arrangement, plate thickness and whether both sides can be bevelled without turning the plate.

ABM-14



Bevel width up to 14mm (9/16'')
Top bevelling
Bottom bevelling
Min plate width 55mm (2-3/16'')
Min plate thickness 6mm Max plate thickness 40mm (1-9/16'')
Pipe OD bevelling Min. ID 100mm (4")
Bevel angles: 30° (option) 22.5°, 25°, 35°, 37.5°, 45°

Product **Datasheet** **Manual** **Parts**

ABM-29



Top bevelling
Bottom bevelling
Bevel width up to 29mm
Bevel angles top 20° - 45° bottom 20° - 45°
Max plate thickness 50mm
Pipe OD beveling Min. ID 150mm (6")

Product **Datasheet** **Manual**

ABM-30



Facing Off
Plate Thickness Max 60mm
Bevel Width up to 30mm
Bevel Angle between -70° & 70°

Product **Datasheet**

ABM-50



Weight · 320 kg
Maximum Bevel Cut Width · Width 62mm at 15° (6mm max bevel per pass)
Bevel Angle · 15-60° infinitely variable
Material Thickness · 8 to 80mm
Motor Power · 4000 Watt / 400v 3 phase
Cutting Speed · 1.2 meter / min

Product **Datasheet** **Manual** **Parts**

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MACHINE SELECTION / 02

Automatic & Stationary Bevellers

Compare feed arrangement, plate thickness and whether both sides can be bevelled without turning the plate.

SBM-500



Edge bevelling
Workpiece height from 3mm up to 100mm
Bevel angles 15° - 60° continuous adjustment
Bevel width up to 30mm
Pipe OD bevelling from 50mm up to 150mm (option)

Product **Datasheet** **Manual** **Parts**

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MACHINE SELECTION

Pipe Bevellers

Check the actual inside diameter, wall thickness, weld prep and available drive supply.

BM-25P



Pipe OD beveling min. OD 100mm (4”)
0°-90° 15°-75° (recommended)
Max bevel width 25mm

Product Datasheet Manual

PB2



Max wall thickness up to 8mm (0.32”)
Pipe OD beveling up to 48mm (1.89”) up to 60.3mm (2.37”)
ID 22-42mm (0.87-1.65”) 15.5-22mm (0.61-0.87”) 42-58mm (1.65-2.28”)
Facing off

Product Datasheet Manual Parts

PB5E



Pipe OD bevelling
Facing off pipes
Pipe ID bevelling
Pipe J-groove bevelling (option)
Bevel angles 0°, 10°, 15°, 20°, 30°, 37.5° or 45°
Max wall thickness 12mm up to OD 114mm
ID range 32-107mm or 107-133mm (option)
OD range 114mm up to 140mm (option)

Product Datasheet Manual Parts

PB5A



Pipe OD bevelling
Facing off pipes
Pipe ID bevelling
Pipe J-groove bevelling (option)
Bevel angles 0°, 10°, 15°, 20°, 30°, 37.5° or 45°
Max wall thickness 12mm up to OD 114mm
ID range 32-107mm or 107-133mm (option)
OD range 114mm up to 140mm (option)

Product Datasheet Manual Parts

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MACHINE SELECTION / 02

Pipe Bevellers

Check the actual inside diameter, wall thickness, weld prep and available drive supply.

PB10A



Pipe OD bevelling
Facing off pipes
Pipe ID bevelling
Pipe J-groove bevelling (option)
Bevel angles 0°, 10°, 15°, 20°, 30°, 37.5° or 45°
Max wall thickness up to 15mm
ID range 84-269mm, 38-84mm (option) or 270-349mm (option)

Product **Datasheet** **Manual** **Parts**

PB12



Pipe OD bevelling
Facing off pipes
Pipe ID bevelling
Pipe J-groove bevelling (option)
Bevel angles 0°, 10°, 15°, 20°, 30°, 37.5° or 45°
Max wall thickness up to 15mm
ID range 84-269mm, 38-84mm (option) or 270-349mm (option)

Product **Datasheet** **Manual** **Parts**

PB14



Pipe OD bevelling
Facing off pipes
Pipe ID bevelling
Pipe J-groove bevelling (option)
Bevel angles 0°, 10°, 15°, 20°, 30°, 37.5° or 45°
Max wall thickness up to 15mm
ID range 84--349mm
Max OD up to 355mm

Product **Datasheet** **Manual** **Parts**

PB40 PBS



Pipe OD bevelling
Facing off pipes
Pipe ID bevelling
Pipe J-groove bevelling
Bevel angle from 0° to 60° or -60° to 0° (option)
Min wall thickness 5mm
Max bevel width 45mm
OD range 200-1000mm

Product **Datasheet** **Manual** **Parts**

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MACHINE SELECTION

Welding & Cutting Carriages

Choose by joint path, power source, travel speed and required torch motion.

MINI SPIDER



Horizontal speed 0–120 cm/min
Vertical speed 0–110 cm/min
Torch placement on either side
Weight 7,6 kg

Product Datasheet Manual Parts

GECKO



Min concave radius 1250mm
Min convex radius 1000mm
Horizontal speed 0–110 cm/min
Vertical speed 0–100 cm/min

Product Datasheet Manual Parts

GECKO BATTERY



Min concave radius 1250mm
Min convex radius 1000mm
Horizontal speed 0–110 cm/min
Vertical speed 0–100 cm/min

Product Datasheet Manual Parts

SCORPIO BATTERY



Min concave radius 1250mm
Min convex radius 1000mm
Horizontal speed 0–130 cm/min

Product Datasheet Manual Parts

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MACHINE SELECTION / 02

Welding & Cutting Carriages

Choose by joint path, power source, travel speed and required torch motion.

LIZARD 2



Angular oscillation (option)
Min concave radius 1500mm
Min convex radius 1500mm

Product Datasheet Manual Parts

MANTIS BATTERY



Voltage · 18 V DC, 4.0 Ah
Power · 18w
Torch Diameter · 16-22mm, up to 35mm (option)
Horizontal Speed · 5–130 cm / min
Weight · 7 kg

Product Datasheet

DRAGON



Diagonal cutting (bevelling)
Double diagonal cutting (bevelling)

Product Datasheet Manual Parts

DRAGON HS



Diagonal cutting (bevelling)
Double diagonal cutting (bevelling)

Product Datasheet Manual Parts

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MACHINE SELECTION / 03

Welding & Cutting Carriages

Choose by joint path, power source, travel speed and required torch motion.

RAIL BULL



Linear oscillation
Min concave radius 5000mm
Min convex radius 5000mm
Diagonal cutting (bevelling)
Double diagonal cutting (bevelling)

Product **Datasheet** **Manual** **Parts**

RAIL TUG



Horizontal speed 10–200 cm/min Vertical speed 10–200 cm/min
Ring tracks from 200mm (8”) OD up to 3 m (10 ft) OD
Hi Flex Track min OD 1500mm
Custom rolled tracks from 3 m (10 ft) OD up to 10 m (32 ft) OD
Min. path convex radius for semi-flexible tracks is 5 m (16 ft)

Product **Datasheet** **Manual** **Parts**

OSC-8 PRO



Voltage · 14–24 V DC
Power · 50 W
Torch diameter · 16–22mm (5/8”–55/64”)
Oscillation width · 1–30mm; 3/64”–1 3/16” (3–99%)
Weight · 2.1 kg (4.6 lbs)

Product **Datasheet**

Automatic Joint Tracking (JTS)



Voltage · 230 V, 50/60 Hz + PE
Power · 500 W
Cross slide vertical movement range (up-down axis)* · 200mm (7.9”)
Cross slide horizontal movement range (right-left axis)* · 200 mm (7.9”)
Cross slide vertical movement speed (up-down axis) · 360 mm/min (14.2 in/min)

Product **Datasheet**

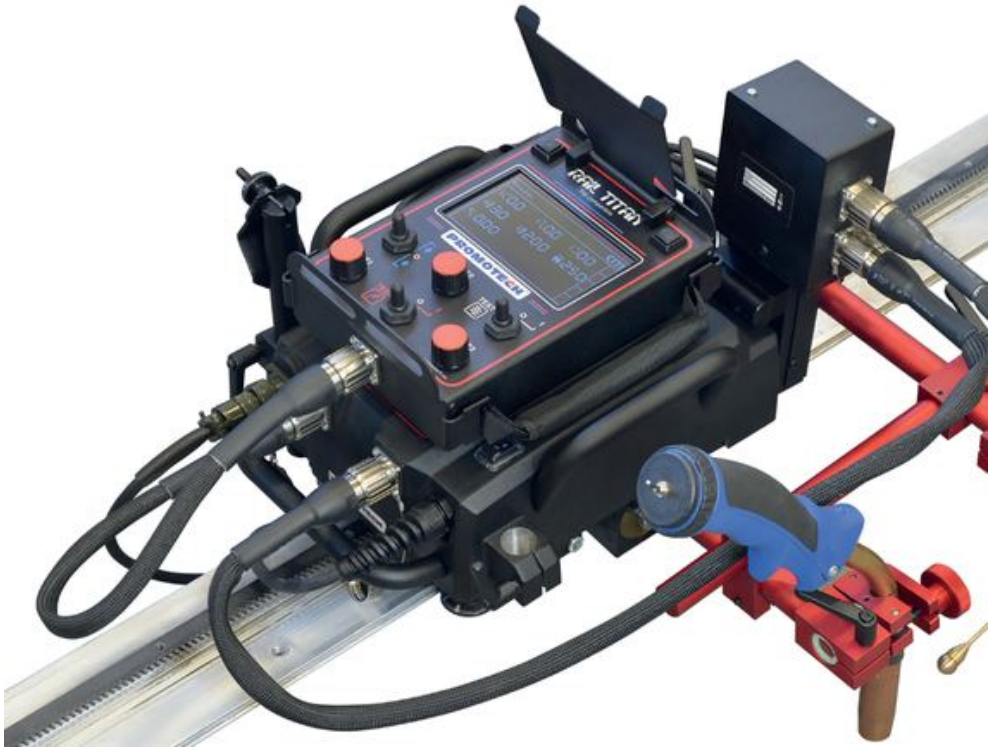
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MACHINE SELECTION / 04

Welding & Cutting Carriages

Choose by joint path, power source, travel speed and required torch motion.

RAIL TITAN



Linear oscillation with trapezoid straight line paths
Vertical speed 9-250 cm/min
Horizontal speed 0-250 cm/min
Custom rolled tracks 3 m OD up to 10 m OD
Ring tracks from 200mm OD up to 3 m
Hi Flex track min OD 1500mm / Min ID 3400mm

Product **Datasheet**

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MACHINE SELECTION

Welding & Profile-Cutting Systems

Define the workpiece envelope, weld process and loading arrangement before specifying a system.

WIRE FEEDER BOOMS



Rotation angle · 0-180°
Maximum load (wire feeder, wire) · 50 kg (110 lbs)
Weight · 98 kg (216 lbs)
Weight · 100 kg (220 lbs)
Rotation angle · 0-360°
Weight · 330 kg (733 lbs)

Product **Datasheet**

WA COMPACT



Voltage · 1~ 110–120 V, 50–60 Hz
Power · 200 W
MIG/MAG torch diameter · 16–22mm (5/8”–55/64”)
Horizontal speed · 0,05–2,5 m/min (2–98 inch/min)
Standard torch travel length * · 3.5 m
Oscillation width · 0–11,4 cm (0–4 31/64”)
Oscillation speed · 0,1–2 m/min (4–79 inch/min)
Weight (incl. 4 m standard track length) · 484 kg

Product **Datasheet**

MINI COLUMN AND BOOM



Oscillation width · 115mm
Oscillation speed · 10-200 cm/min.
Vertical slide altitude range · 50mm
Width · 580mm
Vertical movement range · 1000mm
Horizontal movement range · 805mm

Product **Datasheet**

MODULAR WELDING STATION



Circumferential weld setup
Configurable workholding and torch support

Product **Datasheet**

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MACHINE SELECTION / 02

Welding & Profile-Cutting Systems

Define the workpiece envelope, weld process and loading arrangement before specifying a system.

PPCM 650



Pipe OD 50 to 650mm (2-26”)
Max. pipe length 6 or 12 m
Pipe weight up to 3 000 KG
Wall thickness: 3 – 50mm
Max. cutting angle: 45 degree
3D Oxy-fuel cutting Acetylene (standard) Propane (option)
3D Plasma cutting (option)
CAD/CAM file transfer through Lantek Flex 3D Tubes (option)

Product **Datasheet**

PPCM 1500



Pipe OD diameter · 100 - 1524mm (4-60”)
Pipe weight · up to 10,000 KG
Wall thickness · 3 – 50mm
Max. cutting angle · 45 degree
Pipe OD 100 to 1524mm (4-60”)
Max. pipe length 6 or 12 m
Pipe weight up to 10000 KG
Wall thickness: 3 – 50mm

Product **Datasheet**

COLUMN & BOOMS



Standard or custom configurations
Process options: SAW, MIG, MAG and plasma

Product **Datasheet**

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MACHINE SELECTION

Welding Positioners

Check load against the centre of gravity, table angle and faceplate size.

PRO-WP 150



Order: PZY-0681-10-10-00-0

Voltage · 1~ 220–240 V, 50–60 Hz 1~ 100–120 V, 50–60 Hz
Power · 0,25 kW
Speed range min/max · 0,12 - 2,4 rpm
Max load capacity · 150 kg (331 lbs)
Faceplate diameter · 450mm (17.7”)
Hollow-shaft inside diameter · 28mm (1.1”)
Tilting range with continuous angle adjustment · 0-90 °

Product **Datasheet**

PRO-WP 300



Order: PZY-0682-10-10-00-0

Voltage · 1~ 220–240 V, 50–60 Hz 1~ 100–120 V, 50–60 Hz
Power · 0,25 kW
Speed range min/max · 0,12 - 2,4 rpm
Max load capacity · 300 kg (661 lbs)
Faceplate diameter · 630mm (24.8”)
Hollow-shaft inside diameter · 28mm (1.1”)
Tilting range with continuous angle adjustment · 0-90 °

Product **Datasheet**

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MACHINE SELECTION

Hydraulic Punching & Sawing

Select punches and dies for the hole, material and thickness. Check saw capacity at the cut angle.

SteelBeast 14



Order: 110v PartNo MCCSL14-110v/A | 240v PartNo MCCSL14-210v/A

Width · 330mm
Weight · 25kg
Motor · 2200 watt (115v60Hz/15A)
cap. · 40° / 90°
Rectangle · 80 x 110mm / 95 x 185mm

Product **Datasheet** **Manual** **Parts**

HP60



Weight · 20kg
Motor · 2000 watts
Max. Thickness · 13mm
Width · 135mm
Punching Power · 35 ton
Oil cap. · 10L
Voltage · 115V or 230V

Product **Datasheet** **Manual** **Parts**

HP110



Weight · 35 kg
Motor · 2000 watts
Max. Thickness · 16mm
Width · 135mm
Punching Power · 47 ton
Oil cap. · 10L
Voltage · 115V or 230V

Product **Datasheet** **Manual** **Parts**

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MACHINE SELECTION

Tube & Pipe Notchers

Use dedicated notchers for repeatable tube joints. Match the tooling to the actual tube dimensions.

PN100



Belt Size (mm) · 100 x 2000
Motor · 3 Phs x 380-440V 50Hz
Motor Power · 3KW
Belt Speed (metres per second) · 15 / 30
Tube cap. · Ø20 - 76mm
Weight · 215 kg

Product **Datasheet**

AL-U HAND NOTCHER



Outer Diameter for Sink Outflow · 22 - 76mm Dia
Max. wall thickness · 3mm
Weight · 7 kg

Product **Datasheet**

AL-1 HAND NOTCHER



Outer / inner Diameter of tube · 27.9mm/3/4", 34.8mm/ 1", 42.8mm/1-1/4"
Max. wall thickness · Mild Steel - 4mm / Stainless steel - 3mm
Weight · 8 kg

Product **Datasheet**

AL-2 HAND NOTCHER



Outer / inner Diameter of tube · 49mm/1-1/2", 61mm/2"
Max. wall thickness · Mild Steel - 4mm / Stainless steel - 3mm
Weight · 15 kg

Product **Datasheet**

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MACHINE SELECTION / 02

Tube & Pipe Notchers

Use dedicated notchers for repeatable tube joints. Match the tooling to the actual tube dimensions.

AL-12U HAND NOTCHER



Outer / inner Diameter of tube · 61mm/2", 49mm/1-1/2", 42.8mm/1-1/4", 34.8mm/1", 27.9mm/ 3/4" + Sink Outflow
Max. wall thickness · Mild Steel - 4mm / Stainless steel - 3mm
Weight · 93 kg

Product **Datasheet**

AL-12E HAND NOTCHER



Outer / inner Diameter of tube · 61mm/2", 49mm/1-1/2", 42.8mm/1-1/4", 34.8mm/1", 27.9mm/ 3/4"
Max. wall thickness · Mild Steel - 4mm / Stainless steel - 3mm
Weight · 87 kg

Product **Datasheet**

AL100U-02



Pipe diameter · 20.00mm - 76.10mm
Grinding belt · 100mm x 2000mm
Motor · 3 kW
Weight · 210 kg
Grinding angle · 30 – 90°
Grinding diameters · Ø20-Ø76.1

Product **Datasheet**

AL100U-01



Pipe diameter · 20.00mm - 76.10mm
Grinding belt · 100mm x 2000mm
Belt speed · 30 m/s, 2800 rpm
Grinding diameters · Ø20-Ø76.1
Grinding angle · 30 – 90°
Weight · 190 kg

Product **Datasheet**

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MACHINE SELECTION / 03

Tube & Pipe Notchers

Use dedicated notchers for repeatable tube joints. Match the tooling to the actual tube dimensions.

AL150HS



Belt speed · 45 m/s, 4300 rpm
Belt size · 150x2000mm
Grinding diameters · 20,0 / 114,3mm
Grinding angle · 20° - 90°
Weight · 275 kg.
Motor · 4 kW
Voltages · 230V 3F, 400V 3F of 460V 3F

Product **Datasheet**

AL150



Belt speed · 30 meter p/sec./2800 rpm
Belt size · 150x2000mm
Grinding diameters · 20,0 / 114,3mm
Grinding angle · 20° - 90°
Weight · 260 kg.

Product **Datasheet**

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MACHINE SELECTION

Industrial Belt Grinders

Select the belt width, grinding contact and extraction arrangement for the operation.

GRIMAX BG75



75mm belt family
Extraction version: BG75X

Product Datasheet

GRIMAX BG150



150mm belt family
Extraction version: BG150X

Product Datasheet

SCANTOOL 150FG



Grinding belt (mm) · 150x2000
Machine width (mm) · 605
Motor (HP) · 7.5
Net weight (kg) · 90
Number of spindle speeds · 1
Voltage · 3x400/440V-50/60 Hz

Product Manual

SCANTOOL 75FG



Grinding belt (mm) · 75x2000
Machine width (mm) · 710
Motor (HP) · 5.5
Net weight (kg) · 70
Number of spindle speeds · 1
Voltage · 3x400/440V-50/60 Hz

Product Manual

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MACHINE SELECTION / 02

Industrial Belt Grinders

Select the belt width, grinding contact and extraction arrangement for the operation.

GRIMAX BG75X



75mm belt family
Integrated extraction

Product Datasheet

GRIMAX BG150X



150mm belt family
Integrated extraction

Product Datasheet

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MACHINE OPTIONS

Cutters & Inserts

SteelBeast edge preparation consumables · 1 of 3. Match the insert and head to the machine and material.



BM-2A COATED INSERTS · BMB2IS(C)



BM-2A RADIUS INSERTS · BMB2IR-1.5



BM-5A 5mm CHAMFER INSERTS · BM5AIC5

LISTED FOR	GRADE / PROFILE	ORDER CODE	PER HEAD
BM-2A COATED INSERTS	Coated Cutting Inserts	BMB2IS(C)	3
BM-2A RADIUS INSERTS	R1.5	BMB2IR-1.5	3
BM-5A 5mm CHAMFER INSERTS	5mm Chamfer	BM5AIC5	3
BM-5A RADIUS INSERTS R2.5	Radius R2.5	BM5AIR2.5	3
BM-5A RADIUS INSERTS R3.5	Radius R3.5	Confirm code	3
BM-5A RADIUS INSERTS R4	Radius R4	BM5AIR4	3
BM-6C RADIUS 2 INSERTS	Radius R2	BM18IR2	4
BM-6C RADIUS 4 INSERTS	Radius R4	BM18IR4	4
BM-6C R3 INSERTS	Radius R3	BM18IR3	4
BM-6C RADIUS 5 INSERTS	Radius R5	BM18IR5	4
BM-7 INSERTS	for mild steel	BM7IS	5
BM-7 INSERTS	for aluminium	BM7IA	5
BM-7 RADIUS 2 INSERTS	Radius R2	BM18IR2	4
BM-7 RADIUS 3 INSERTS	Radius R3	BM18IR3	4
BM-7 RADIUS 4 INSERTS	Radius R4	BM18IR4	4

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MACHINE OPTIONS

Cutters & Inserts

SteelBeast edge preparation consumables · 2 of 3. Match the insert and head to the machine and material.



BM-7 RADIUS 5 INSERTS · BM18IR5



BM-18 INSERTS · BM18IS



BM-18 INSERTS ALUMINIUM · BM18IA

LISTED FOR	GRADE / PROFILE	ORDER CODE	PER HEAD
BM-7 RADIUS 5 INSERTS	Radius R5	BM18IR5	4
BM-18 INSERTS	for mild steel	BM18IS	5
BM-18 INSERTS ALUMINIUM	for aluminium	BM18IA	5
BM-18 INSERTS COATED	for tougher materials	BM18ISC	5
BM-18 INSERTS	Radius R2	BM18IR2	5
BM-18 INSERTS	Radius R3	BM18IR3	5
BM-18 INSERTS	Radius R4	BM18IR4	5
BM-18 INSERTS	Radius R5	BM18IR5	5
BM-20 PLUS INSERTS FOR MILD STEEL	for mild steel	BM21IS	10
BM-20 PLUS HEAVY-DUTY INSERTS	Extra-Durable for Mild Steel	BM21HD	10
BM-20 PLUS INSERTS - SUPER TOUGH	for stainless steel	BM21IST	10
BM-21 STANDARD INSERTS	for Mild Steel	BM21IS	10
BM-21 PLUS INSERTS - SUPER TOUGH	for Stainless Steel	BM21IST	10
BM25 INSERTS FOR MILD STEEL	for Mild Steel.	BM25IS	5
BM-25 COATED INSERTS FOR STAINLESS STEEL	Carbide inserts for Stainless Steel	BM25IS-C	5

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MACHINE OPTIONS

Cutters & Inserts

SteelBeast edge preparation consumables · 3 of 3. Match the insert and head to the machine and material.



BM-25S INSERTS FOR STAINLESS STEEL · BM25IS-SS



ABM-14 CUTTER FOR MILD STEEL · ABM14-ISS



ABM-14 CUTTER FOR MILD STEEL · ABM14-IS

LISTED FOR	GRADE / PROFILE	ORDER CODE	PER HEAD
BM-25S INSERTS FOR STAINLESS STEEL	for Stainless Steel	BM25IS-SS	5
ABM-14 CUTTER FOR MILD STEEL	Standard Cutter for mild steel.	ABM14-ISS	—
ABM-14 CUTTER FOR MILD STEEL	Standard Cutter for Mild steel.	ABM14-IS	—
ABM-14 CUTTER FOR STAINLESS STEEL	Cutter for Stainless steel.	Confirm code	—
SBM500 INSERTS FOR MILD STEEL	Standard cutting inserts for mild steel.	SBM500IS	10

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MACHINE OPTIONS

Machine-Specific Options

Options shown on individual SteelBeast product pages · 1 of 7. Follow the model link for the exact assembly and order information.



Milling head 45° for cutting and radius bevels (4 inserts required)



Milling head 30° for cutting (4 inserts required)



Cutter for carbon steel

MACHINE	JEI-LISTED OPTIONS
BM-6C	Milling head 45° for cutting and radius bevels (4 inserts required) · Milling head 30° for cutting (4 inserts required) · Cutting insert for steel · Cutting inserts for aluminum
BM-6CR	Milling head 45° for cutting and radius bevels (4 inserts required) · Milling head 30° for cutting (4 inserts required) · Cutting insert for steel · Cutting inserts for aluminum
ABM-14	Cutter for carbon steel · Cutter for stainless steel · Cutter for aluminium · Angle Variation Device 22.5° – 45° · Cutter extraction tool
ABM-14	Tube bevelling shaft · Tube bevelling washer · Adjustable trolley
BM-18	Bevelling milling head · Milling head for rounding · Cutting insert for steel · Insert Screw (Bevelling) · Cutting inserts for aluminum
BM-18	Sticker against scratches · Cutting insert R2 · Cutting insert R3 · Cutting insert R4 · Cutting insert R5
BM-18	Insert Screw (Radius)
BM-18AR	Air preparation unit ZST-000021 · Cutting insert for steel (sold 10 pcs/box) · Cutting insert for aluminum (sold 10 pcs/box) · Cutting insert R5 (sold 10 pcs/box) · Radius insert positioner
BM-18AR	Beveling milling head · Milling head for rounding

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MACHINE OPTIONS

Machine-Specific Options

Options shown on individual SteelBeast product pages · 2 of 7. Follow the model link for the exact assembly and order information.



Air preparation unit ZST-000021



Cutting insert for steel (sold 10 pcs/box)



Mono block milling head, with 10 indexable inserts fixed with screws. Product code: GLW-0461-03-00-00-0

MACHINE	JEI-LISTED OPTIONS
BM-18R	Air preparation unit ZST-000021 · Cutting insert R5 (sold 10 pcs/box) · Cutting insert for steel (sold 10 pcs/box) · Cutting insert for aluminum (sold 10 pcs/box) · Radius insert positioner
BM-18R	Beveling milling head · Milling head for rounding
BM20 PLUS	Standard Cutting Inserts - BM21IS · Heavy-duty Cutting Inserts - BM21IHD · Facing off Attachment (0°) - ZSP-0075-32-00-00-1 · Curved Plate Bevelling Attachment - ZSP-0539-10-00-00-0 · Pipe Bevelling Attachment 150-300mm (6-12") - ZSP-0075-31-00-00-0
BM20 PLUS	Pipe Bevelling Attachment 260-600mm (10-24") - ZSP-0075-31-00-00-1
BM21	Mono block milling head, with 10 indexable inserts fixed with screws. Product code: GLW-0461-03-00-00-0 · Cutting Insert (1 piece), sold 10 pcs/box Product code: PLY-000282 · Cutting Insert HD (1 piece), sold 10 pcs/box Product code: PLY-000591 · Standard universal guide plate for beveling both plates and pipes 150-300mm (6-12”) · Optional guide for pipes 260-600mm (10-24”) Product code: PRW-0461-22-00-00-0
ABM-50	Cutting Insert 1 Piece · Bevelling Head
HP60	Punch and Die Sets in Various Shapes and Sizes · Hydraulic Power Pack available in 110 and 230 V · Wheel Punch Slider · Bench Top Stand with Foot Pedal · Balancer
HP60	Hoist Set
HP110	Punch and Die Sets in Various Shapes and Sizes · Hydraulic Power Pack available in 110 and 230 V · Wheel Punch Slider · Bench Top Stand with Foot Pedal · Balancer

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MACHINE OPTIONS

Machine-Specific Options

Options shown on individual SteelBeast product pages · 3 of 7. Follow the model link for the exact assembly and order information.



Hoist Set



Lathe self-centering chuck D400 | External clamping diameter: Φ 120–400 mm



Short rod torch holder with clamp 16–22mm

MACHINE	JEI-LISTED OPTIONS
HP110	Hoist Set
PRO-WP 150	Lathe self-centering chuck D250 | Ext. Jaws Range: Φ 90–250mm · Lathe self-centering chuck D400 | External clamping diameter: Φ 120–400mm · Keyless self-centering chuck DD300 · Keyless self-centering chuck DD400 · Torch Holder
PRO-WP 150	Short rod torch holder with clamp 16–22mm · Long rod torch holder with clamp 16–22mm · Short low rod torch holder with clip 16–22mm · Short rod torch holder with clip 16–22mm · Long rod torch holder with clip 16–22mm
PRO-WP 150	Standard torch holder with clamp 28–35mm and rough angle adjustment · Precise torch holder with clamp 28–35mm and precise angle adjustment · Standard machine torch holder for oxy-fuel cutting with vertical position setting and rough angle adjustment · Precise machine torch holder for oxy-fuel cutting with vertical position setting and precise angle adjustment. · Rod 150mm for cutting torch holders
PRO-WP 300	Lathe self-centering chuck D250 | Ext. Jaws Range: Φ 90–250mm · Lathe self-centering chuck D400 | External clamping diameter: Φ 120–400mm · Keyless self-centering chuck DD300 · Keyless self-centering chuck DD400 · Torch Holder
PRO-WP 300	Short rod torch holder with clamp 16–22mm · Long rod torch holder with clamp 16–22mm · Short low rod torch holder with clip 16–22mm · Short rod torch holder with clip 16–22mm · Long rod torch holder with clip 16–22mm
PRO-WP 300	Standard torch holder with clamp 28–35mm and rough angle adjustment · Precise torch holder with clamp 28–35mm and precise angle adjustment · Standard machine torch holder for oxy-fuel cutting with vertical position setting and rough angle adjustment · Precise machine torch holder for oxy-fuel cutting with vertical position setting and precise angle adjustment. · Rod 150mm for cutting torch holders
MINI SPIDER	Torch holder · 5.2 Ah Battery · Power supply · Cable anchor · Battery charger
MINI SPIDER	Power cord 3 m (10 ft)

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MACHINE OPTIONS

Machine-Specific Options

Options shown on individual SteelBeast product pages · 4 of 7. Follow the model link for the exact assembly and order information.



Ultra Short Torch Holder with clamp 16-22mm



Cable anchor



Torch clamp 22–35mm

MACHINE	JEI-LISTED OPTIONS
GECKO	Standard guide arms (set of 2 pcs) · Cable anchor · Power cord 3m (10 ft) · Torch Holder Long Rod Clamp Assembly · Torch Extension Arm
GECKO	Extended cross-slide 0-76mm (0-3”) up-down, 0-35mm (0-1.38”) left-right · Display shield · Fall arrester device · Dual Torch Mount · Short Rod Clamp
GECKO	Magnet blocks (front) with increased power M5x25 · Magnet blocks (back) with increased power M6x25 · Torch clamp 22–35mm · Magnet blocks (back) M6x25 incl. additional spacer plate required for Gecko Battery only
SCORPIO BATTERY	Standard guide arms (set of 2 pcs) · Ultra Short Torch Holder with clamp 16-22mm · 4 Ah Battery (2 Pcs) · Dual arc ignition cable of 6.5 m (21 ft)
LIZARD 2	Standard guide arms (set of 2 pcs) · Cable anchor · Power cord 3m (9,7 ft) · Dual arc ignition cable of 6.5 m (21 ft) · Torch Holder Short Rod Clamp Assembly
LIZARD 2	Torch clamp 22–35mm · Long Rod Clamp · Torch Extension Arm · Dual Torch Mount · Extended Cross-Slide
LIZARD 2	Knurled Nut · Low Guide Arms (set of 2 pcs) · High Guide Arms (set of 2 pcs) · Edge Following Guide Arms (set of 2 pcs) · Adjustable Guide Arms (set of 2 pcs)
LIZARD 2	Track Following Guide Arms (set of 2 pcs) · Flexible Track 185 cm (6ft) 1 pc · Magnetic block for flexible track box of 10 pcs · Stainless steel driving wheel · Display shield
LIZARD 2	Guide adjustment tool to position the track parallel to the edge · Magnet guide arms (set of 2 pcs) · Oscillator · Torch Holder Lower Rod Clamp Assembly

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MACHINE OPTIONS

Machine-Specific Options

Options shown on individual SteelBeast product pages · 5 of 7. Follow the model link for the exact assembly and order information.



540mm (21”) Geared Rack



Counterweight 1.3 kg (2.9 lbs)



Magnetic Unit

MACHINE	JEI-LISTED OPTIONS
DRAGON	540mm (21”) Geared Rack · Counterweight 1.3 kg (2.9 lbs) · Standard Torch Holder with angle adjustment · Power cord 3 m (9,7 ft) · Track Assembly 1800mm (70,9”) V” Groove Center Line 152mm (6”)
DRAGON	Magnetic Unit · Heat-resistant magnetic unit · Lightweight Magnetic Unit · Magnetic Narrow Unit with hexagon · Vacuum Modular Unit
DRAGON	Standard Torch Holder 28–35mm (1.10”-1.38”) · Precise Torch Holder with angle and height adjustment · 1000mm (39.4”) Geared Rack · Large Counterweight 2,6 kg (5,7lbs) · Slide Rack Holder
DRAGON	Cable Anchor · Roller Support · Circle Cutting Attachment · Heat Protection Shield (left) · Heat Protection Shield (right)
DRAGON	Heat Protection Shield (bottom) · Machine Barrel Torch Holder · Precise Machine Torch Holder · Plasma Arc Ignition · Plasma Arc Ignition Cable
DRAGON HS	540mm (21”) Geared Rack · Counterweight 1.3 kg (2.9 lbs) · Standard Torch Holder with angle adjustment · Power cord 3 m (9,7 ft) · Track Assembly 1800mm (70,9”) V” Groove Center Line 152mm (6”)
DRAGON HS	Magnetic Unit · Heat-resistant magnetic unit · Lightweight Magnetic Unit · Magnetic Narrow Unit with hexagon · Vacuum Modular Unit
DRAGON HS	Standard Torch Holder 28–35mm (1.10”-1.38”) · Precise Torch Holder with angle and height adjustment · 1000mm (39.4”) Geared Rack · Large Counterweight 2,6 kg (5,7lbs) · Slide Rack Holder
DRAGON HS	Cable Anchor · Roller Support · Circle Cutting Attachment · Heat Protection Shield (left) · Heat Protection Shield (right)

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MACHINE OPTIONS

Machine-Specific Options

Options shown on individual SteelBeast product pages · 6 of 7. Follow the model link for the exact assembly and order information.



Heat Protection Shield (bottom)



Machine Barrel Torch Holder



Power Cord 3m (10 ft)

MACHINE	JEI-LISTED OPTIONS
DRAGON HS	Heat Protection Shield (bottom) · Machine Barrel Torch Holder · Precise Machine Torch Holder · Plasma Arc Ignition · Plasma Arc Ignition Cable
RAIL BULL	Power Cord 3m (10 ft) · Dual Arc Ignition Cable of 6.5 m (21 ft) · Torch Holder Short Rod Clamp Assembly · Cable Anchor · Cross slide assembly
RAIL BULL	Gear Rack Adjustment Tool · Transport Attachment · 16-22mm Torch Clip · 22-35mm Torch Clamp
RAIL TUG	Power cord 3 m (9,7 ft) · Dual arc ignition cable 6.5 m (21 ft) · 540mm (21'') Geared Rack · Cable anchor · Rackholder
RAIL TUG	300mm (12") rack with 180mm (7") adjustment · Clamping block with levers · Short rod torch holder with fits-all clamp · Gear Rack Adjustment Tool · 700mm (39.4") Geared Rack
RAIL TUG	Counterweight 1.3 kg (2.9 lbs) · 1000mm (39.4") Geared Rack · Large Counterweight 2,6 kg (5,7lbs) · 16-22mm Torch Clip · 22-35mm Torch Clamp
RAIL TUG	Standard Torch Holder 28–35mm (1.10–1.38'') · 203mm (8") rod · Standard Torch Holder with angle adjustment · Precise Torch Holder with angle and height adjustment · Machine Barrel Torch Holder
RAIL TUG	Precise Machine Torch Holder · Hi Flex Track min OD 1500mm
OSC-8 PRO	Rod 203mm · Clamping block

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MACHINE OPTIONS

Machine-Specific Options

Options shown on individual SteelBeast product pages · 7 of 7. Follow the model link for the exact assembly and order information.



Linear oscillation with trapezoid, triangle, square and straight line paths



Ring tracks from 200mm (8”) OD up to 3 m (10 ft) OD



Hi Flex Track min OD 1500mm (5 ft) min ID 3400mm (11 ft)

MACHINE	JEI-LISTED OPTIONS
RAIL TITAN	Linear oscillation with trapezoid, triangle, square and straight line paths · Ring tracks from 200 mm (8”) OD up to 3 m (10 ft) OD · Hi Flex Track min OD 1500mm (5 ft) min ID 3400mm (11 ft) · Custom rolled tracks from 3 m (10 ft) OD up to 10 m (32 ft) OD · Min. path convex radius for semiflexible tracks is 5 m (16 ft)
RAIL TITAN	Continuous welding · Stitch welding · Horizontal speed 0–250 cm/min · Vertical speed 0–250 cm/min

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CONFIGURATIONS

Tracks, Tapping & System Enquiries

Confirm the exact machine and job details when specifying a configured system.



Carriage track options



Quick-change tapping tooling



Column & boom installation

OPTION FAMILY	CHECK BEFORE ORDERING
Tracks & carriage accessories	Specify carriage model, track profile, curve radius, mounting method and operating position.
Quick-change tapping accessories	Specify drill model, spindle taper, holder and thread size.
Column & boom, gantry or modular station	Specify workpiece dimensions, payload, weld position and process.
Profile cutting machine	Specify section shape, cutting process, wall thickness and material.

Request a machine specification

Send the model, workpiece dimensions and required process to sales@rhdaveywelding.co.uk or call 023 8033 9443.

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MACHINE OPTIONS

Track & Mounting References

JEI also lists rigid tracks, flexible trackways, diameter-specific ring tracks and vacuum configurations. Use the linked track catalogue to confirm the carriage, track and mounting assembly.



JEI carriage track configurations

OPTION	ORDER CODE	FIT / SELECTION
Semi-flexible track, 2 m	PRW-0482-15-05-00-0	Minimum radius 5 m for this track
Standard magnetic unit	ZSP-0475-92-00-00-0	Confirm mounting bracket for the track
Heat-resistant magnetic unit	ZSP-0475-93-00-00-0	Select for the working temperature
Narrow magnetic unit	PDS-0582-10-00-02-0	Hexagon mount for restricted space
Pivoting magnetic unit	ZSP-0475-85-00-00-0	Pivoting mount
Spacing-adjustable magnetic unit	ZSP-0523-19-00-00-0	Adjustable spacing
Magnetic unit bracket	DYS-0482-19-00-00-0	Semi-flexible or Hi-Flex tracks
Narrow magnetic unit bracket	DYS-0582-10-00-00-0	Semi-flexible or Hi-Flex tracks
Vacuum unit bracket	DYS-0541-11-01-00-0	Semi-flexible or Hi-Flex tracks

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Choosing the Right Setup

Prepare plate for welding

A portable bevel tool suits short runs and parts that stay in place. Compare automatic or stationary machines for repeatable edges on regular batches.

Prepare edges for coating

Use the radius tooling that matches the specified edge radius. Check inside-corner access and the available cutter geometry.

Repeat long welds or cuts

A compatible carriage can keep travel consistent on repetitive work. Check track placement, travel range and torch mounting.

Improve fit-up on tube assemblies

Match a notcher to tube diameter and angle so the joint fits before tacking. For rotation during welding, select a positioner by the part and its centre of gravity.

Quote the model or part number from the ordering tables.

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