STEELBERST® ABM-29 AUTO-FEED DOUBLE-SIDED HEAVY-DUTY PORTABLE BEVELLER.



The ABM-29 is a robust, self-propelled machine capable of bevelling up to a 20 mm width in one pass. It can create double-sided bevels ranging from 20 to 45 degrees on various types of steel, including stainless and other specialised steel plates, without requiring the plate to be flipped.

This beveller features an ergonomically designed trolley for easy transport and storage. The ABM-29 can be operated in stationary mode when machining smaller components or pipes with an inner diameter greater than 150 mm.

Features & benefits:

- Heavy-duty beveller which auto travels along the edge of a plate with speeds of up to 1.7 m/min.
- Up to 20 mm bevel width in one run and
- maximum 29 mm bevel width after multi passes.
- Continuous milling height/bevel width adjustment.
- Continuous bevel angle adjustment between 20 and 45 degrees.
- Integrated trolley to facilitate top & bottom bevelling with height adjustment between 685 and 1000 mm.
- Stationary operation for machining small workpieces.
- Pipe machining with minimum ID 150 mm (6")
- Overload protection.
- Reverse travel mode to free jammed tool.
- The ABM-29 is a low-noise machine.





Top bevelling

Bottom bevelling

Bevel width up to 29 mm

Bevel angles top 20° – 45° bottom 20° – 45°

Max plate thickness 50 mm

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Pipe OD beveling

Min. ID 150 mm (6")









Single run beveling up to 20 mm width

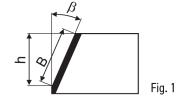
Depending on sort of material up to 20 mm bevel width is possible with ABM-29 in a single run.

CARBON STEELS	SINGLE RUN BEVELLING TABLE						
	β	20°	25°	30°	35°	37.5°	45°
Rm ≤ 392 Mpa (57,000 psi)	В	20	20	20	20	20	20
	h	19	18	17.5	16.5	16	14
Rm = 392-490 Mpa (57,000-71,000 psi)	В	16	16	16	16	16	16
	h	15	14.5	14	13	12.5	11.5
Rm = 490-588 Mpa (71,000-85,000 psi)	В	13	13	13	13	13	13
	h	12.5	12	11	10.5	10	9

STAINLESS - ALLOY STEELS	SINGLE RUN BEVELLING TABLE						
	β	20°	25°	30°	35°	37.5°	45°
Rm ≤ 490 Mpa (71,000 psi)	В	9.5	9.5	9.5	9.5	9.5	9.5
	h	9	8.5	8	8	7.5	6.5
Rm = 490-588 Mpa (71,000-85,000 psi)	В	8	8	8	8	8	8
	h	7.5	7.5	7	6.5	6.5	5.5
Rm = 588-686 Mpa (85,000-100,000 psi)	В	7	7	7	7	7	7
	h	6.5	6.5	6	6	5.5	5

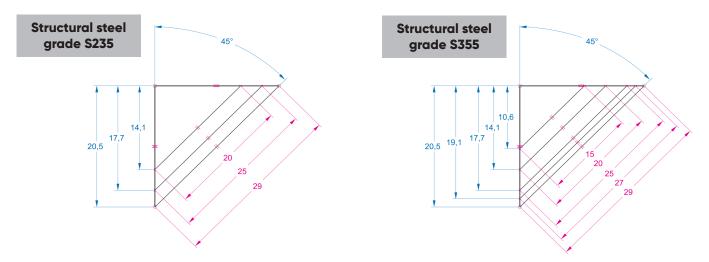
Bevel width up to 29 mm at 45 degrees

- Various bevel widths (B) are possible by means of ABM-29
- The final results depend on combination of bevel angle (ß) and bevel height (h).



Machining step-by-step

A maximum bevel width of 29 mm can be achieved in multiple passes by progressively increasing the head penetration into the material. The number of passes depends on the grade of material.



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ABM-29

Precise adjustment of the process parameters: bevel angle, bevel depth and material thickness.







Machining thick plate.

Automatic feed allows ABM-29 to travel along the top and bottom edges of the plate.



Machining longitudinal workpieces. Stationary operation is possible for machining smaller workpieces.









ABM-29

Machining pipes

ABM-29 can also bevel pipes with ID bigger than 150 mm (6").





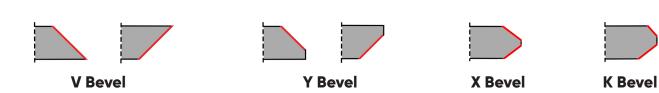
Operation in the inverted position

The trolley allows the machine to rotate 180 degrees up and down to create top and bottom bevels without having to flip the plate. It's an easy one-man operation. A mechanical lock secures the machine in the upper or inverted position.





Possible types of bevel



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STEELBERST® ABM-29 TECHNICAL SPECIFICATIONS

Voltage	3x400 V / 3x480 V + PE, 50-60 Hz / 3x240 50-60 Hz	
Power	3000 W	
Spindle speed	4 rpm (for 50 Hz); 5 rpm (for 60 Hz)	
Bevel angle (Fig. 1)	20°-45°	
Maximum bevel width (B, Fig. 1)	29 mm	
Maximum bevel in one single run	20 mm	
Maximum height of cut (h, Fig. 1)	14.5 mm	
Minimum plate thickness	10 mm	
Maximum plate thickness	40 mm (50 mm*)	
Minimum plate width	80 mm	
Bevel length per minute	1.7 m/min for 50 Hz; 1.9 m/min for 60 Hz	
Minimum pipe ID	150 mm	
Weight	540 kg	
Product Code	ABM-29	

JEI Solutions

STEELBERST® **ABM-29**

Hydraulic height adjustment:

Built-in ergonomic trolley features a hydraulic height adjustment from 685 to 1000 mm.

Dedicated transportation trolley locks, stiffen the machine for stationary work.

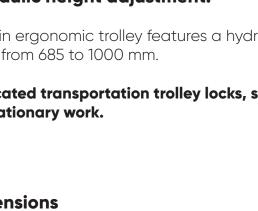
Dimensions

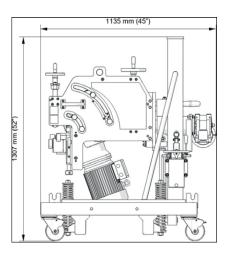
910 mm (36")



- Beveling machine with built-in trolley
- Transport box
- Flat wrench 32–36 mm, 30–32 mm, 24–27 mm
- Shearing cutter
- Hex wrench 14 mm, 8 mm, 6 mm, 4 mm
- Operator's Manual











Single shearing cutter for various materials.



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