

HEAVY DUTY AUTO-FEED PLATE BEVELER

ABM-50 DD VS

ADJUSTABLE SPINDLE SPEED INDUSTRIAL BEVELING MACHINE

The ABM-50 DD VS from Steelmax is a powerful, self-propelled beveling solution engineered for high-performance edge preparation on heavy plate. Designed for demanding fabrication environments, this machine delivers precise, high-quality bevels up to 2 inches wide (50 mm) on the top edge of plates ranging from 5/16 inch to 3-1/8 inches thick (8 mm to 80 mm) — all without introducing thermal distortion or creating a heat-affected zone.

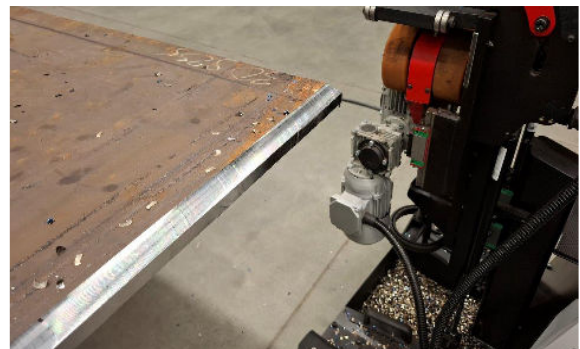
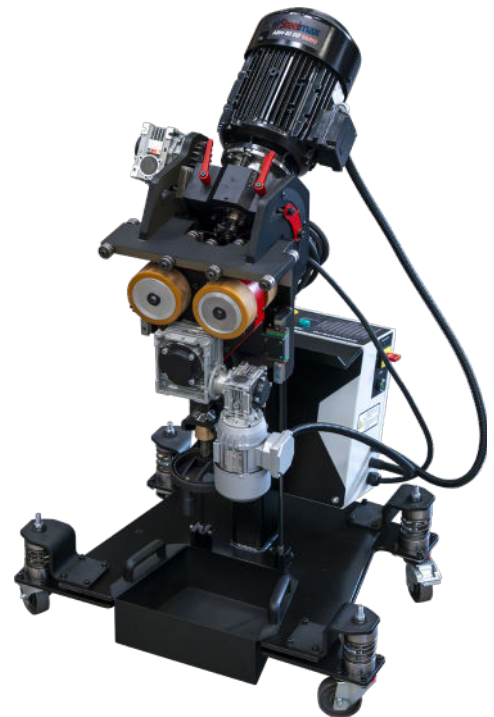
This machine utilizes an advanced rotary milling head with indexable carbide inserts, allowing for clean, consistent bevels across a wide range of materials, including mild steel, stainless steel, duplex, Hardox®, and other specialty alloys.

To ensure optimal performance across various material types, the ABM-50 DD VS offers fully adjustable spindle speed and feed rate controls, along with a Load Level LED Monitoring System that provides real-time feedback to maintain efficient cutting conditions and extend tool life.

The unit supports continuous bevel angle adjustment from 15° to 70°, giving operators maximum flexibility to meet a wide range of weld prep and fabrication requirements.

FEATURES

- Self-propelled operation: Travels automatically along plate edge at speeds up to 47.2 inches per minute (1.2 m/min)
- Auto-feed machining to increase ergonomics, comfort, and productivity
- Continuous bevel angle adjustment from 15° to 70°
- Thermal distortion-free milling: Produces high-quality bevels without heat-affected zones on plates ranging from 5/16 inch to 3-1/8 inches thick (8–80 mm)
- Continuous bevel width adjustment up to 2 inches (50 mm) at a 45° angle
- Variable spindle speed: Enables machining across a wide range of materials, including carbon steel, stainless, duplex, and wear-resistant alloys
- LED load monitoring system: Status indicators—green, yellow, and red LEDs—help avoid motor overload and protect the machine.



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ABM-50-DD VS Technical Specifications

Voltage	3~ 400 V + PE, 50/60 Hz 3~ 480 V + PE, 50/60 Hz
Power	4 KW
Spindle Speed (without load)	500-1450 rpm
Feed Speed	0-3.94 ft/min (0-1.2 m/min)
Bevel Angle	15-70°
Maximum Bevel Width	2" (50 mm)
Max Milling Head Penetration per pass	15/64" (6 mm)
Sheet thickness	5/16-3 9/64" (8-80 mm)
Required ambient temperature	32-104°F (0-40°C)
Weight	573 lbs (260 kg)
Part Number 230V, 50-60 Hz	SM-ABM-50-DD-VS



Milling head, (5 inserts required)



PLY-000835

Cutting insert for stainless steel 1 piece
(sold 10 pcs-box)



Shipping Set

- Beveling machine, milling head and 5 cermet inserts
- Box with base and mounting brackets
- 8 mm hex T wrench with ball end
- T15 Torx screwdriver
- 22 mm combination wrench
- Operator's manual

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For ordering and customer service, or to request detailed product information or demonstration videos, contact:

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