

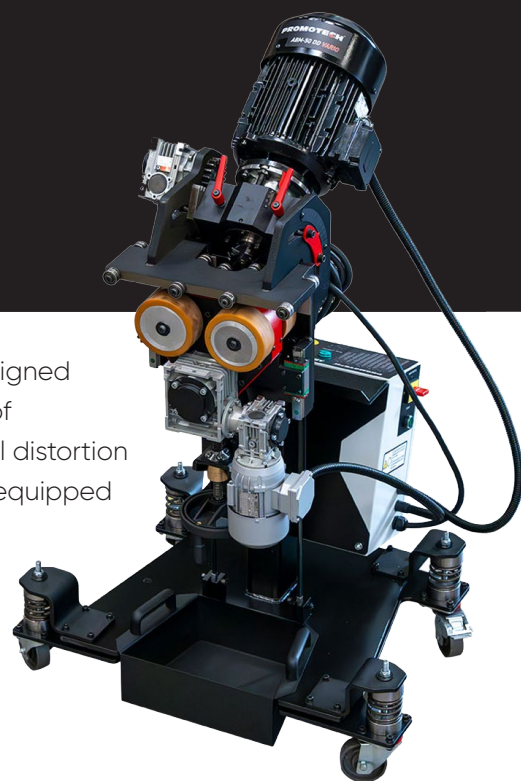
STEELBEAST® ABM-50 DD VARIO

AUTO-FEED HEAVY DUTY BEVELLER

The ABM-50 DD Vario is a self-propelled plate bevelling machine designed to produce high-quality bevels up to 50 mm wide on the top edges of plates 8–80 mm thick. It delivers precise, clean results without thermal distortion or heat-affected zones, thanks to its high-speed rotary milling head equipped with durable cutting inserts.

Adjustment of spindle speed and feed rate, combined with a load level LED monitoring system, ensures optimal cutting performance across various materials – including stainless steel, duplex, alloys, Hardox, and more.

The ABM-50 DD Vario offers continuous bevel angle adjustment from 15° to 70°, providing maximum flexibility. For carbon steel applications only, the basic ABM-50 DD model with a fixed spindle speed is also available.



Features and benefits:

Self-propelled design – travels along plate edges at speeds up to 1.2 m/min

Automatic feed system for improved ergonomics, operator comfort, and productivity

Continuously adjustable bevel angle from 15° to 70°

High-quality bevels produced without thermal distortion or heat-affected zones on plates 8–80 mm thick

Adjustable bevel width up to 50 mm at 45°

Variable spindle speed enables efficient machining across a wide range of steel grades

LED load monitoring system with green, yellow, and red indicators to protect the motor from overload

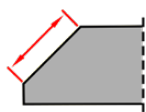
Adjustable working height – top bevelling between 840–1040 mm from the floor

Durable milling head fitted with five 4-sided indexable cutting inserts

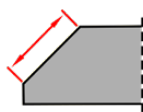
Multiple insert options available for optimal performance on different materials

Spring-loaded castor wheels compensate for floor unevenness, ensuring smooth and stable machine travel

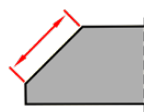
Stationary operation mode for bevelling smaller workpieces



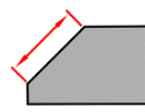
Top bevelling



Bevel angles
top 15° - 70°



Bevel width
up to 50 mm / 45°



Min plate thickness
8 mm
Max plate thickness
80 mm

STEEL BEAST®

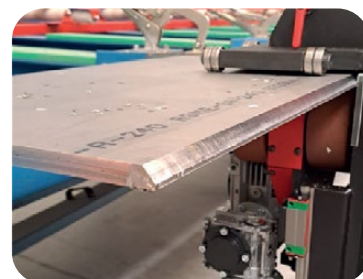
ABM-50 DD VARIO

AUTO-FEED HEAVY DUTY BEVELLER

TECHNICAL SPECIFICATION	ABM-50 DD Vario	ABM-50 DD *
Voltage	3~ 400 V + PE, 50/60 Hz 3~ 480 V + PE, 50/60 Hz	3~ 400 V + PE, 50/60 Hz 3~ 480 V + PE, 50/60 Hz
Power	4 kW	4 kW
Spindle rotational speed (without load)	500-1450 rpm	1450 rpm (50 Hz) 1750 rpm (60 Hz)
Feed speed	0-1.2 m/min (0-3.94 ft/min)	0-1.2 m/min (0-3.94 ft/min)
Bevel angle (β , Fig. 1)	15-70°	15-70°
Maximum bevel width (b, Fig. 1)	50 mm (2")	50 mm (2")
Maximum milling head penetration ('d', Fig. 1) per single pass	6 mm (15/64")	6 mm (15/64")
Sheet thickness	8-80 mm (5/16-3 9/64")	8-80 mm (5/16-3 9/64")
Required ambient temperature	0-40°C (32-104°F)	0-40°C (32-104°F)
Weight	260 kg (573 lbs)	260 kg (573 lbs)

Accessories:

- GLW-0773-28-00-00-0 – Milling head (requires 5 inserts)
- PLY-000781 – Cermet cutting insert for steel (sold in boxes of 10 pcs)
- PLY-000835 – Cutting insert for stainless steel (sold in boxes of 10 pcs)
- PLY-000591 – Heavy-duty cutting insert (sold in boxes of 10 pcs)
- SRB-000485 – Mounting screw for cutting inserts
- SMR-000005 – Grease for screws (5 g / 0.17 oz tube)
- FLT-000026 – Control cabinet filter 92×92 mm (sold in sets of 5 pcs)



GLW-0773-28-00-00-0



PLY-000781



SRB-000485



PLY-000835



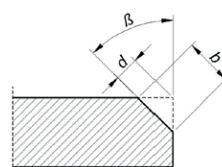
PLY-000591



SMR-000005



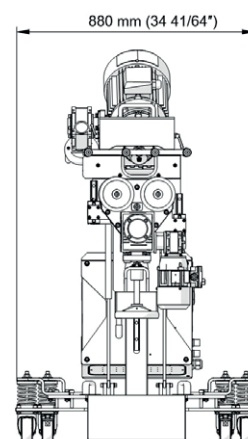
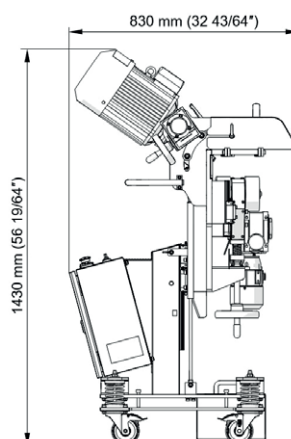
FLT-000026



β	b
15°	41.8 mm
30°	46.2 mm
45°	50.2 mm
60°	46 mm

Standard shipping set:

- Beveller incl. milling head and 5 cermet cutting inserts
- Box with base and mounting brackets
- 22 mm combination wrench
- 8 mm hex T-wrench with ball end
- T15 Torx screwdriver
- Grease for screws (5 g/0.17 oz)
- Special wrench
- Operator's Manual



JEI Solutions