

ABM1218 FR Double-Sided Plate/Pipe Beveling Machine

THE MOST POWERFUL SELF-FEEDING BEVELING MACHINE IN ITS CLASS

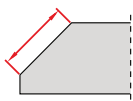
The **Steelmax ABM1218** is a portable beveling machine capable of producing weld-ready bevels on flat plates of any shearable material up to 100,000 psi tensile strength. The **ABM1218 FR** uses a shearing process that is silent and fast. A powerful 3 horsepower electric motor drives the machine at speeds up to 8.5 feet per minute, making it the most powerful machine in its class. The machine can produce a 1/2" (12 mm) wide bevel in a single pass and can produce a maximum 3/4" (18 mm) wide bevel on plates or round tubes from 1/4" (6 mm) to 1-9/16" (40 mm) thick in multiple passes.

A 30° bevel angle attachment is included with the **ABM1218 FR** and interchangeable bevel angle attachments are available for 22.5°, 25°, 30°, 35°, 37.5° and 45° bevels. The machine is easily inverted to bevel the underside of the plate – eliminating the need to flip the material – improving operational safety and increasing productivity.

The **ABM1218 FR** produces no smoke or dust and almost no noise. Bevels are produced without thermal distortion and the material is weld-ready without additional grinding to remove dross, slag or heat affected zone (HAZ).

FEATURES

- 3 horsepower motor
- Self-feeding for consistent bevel geometry from end-to-end
- 180° inversion allows for quick and easy creation of double-sided bevels – dramatically reducing material handling costs and improving safety.
- Shearing cutting wheels are long lasting, quiet and fast – beveling up to 8.5 ft/min
- Functions as a traveling machine with the trolley, or as a stationary machine
- Portable machine that can easily be moved throughout the shop
- Great machine for creating weld coupons
- Bevel pipe and round tubes 4" in diameter and larger



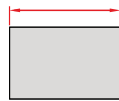
Bevel width
up to 3/4"
(18 mm)



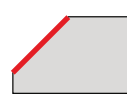
Bevel angles
22.5°, 25°, 30°,
35°, 37.5°, 45°



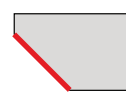
Min plate thickness 6 mm
Max plate thickness
1-9/16" (40 mm)



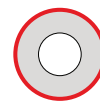
Min plate width
2-3/16"
(55 mm)



Top
beveling



Bottom
beveling



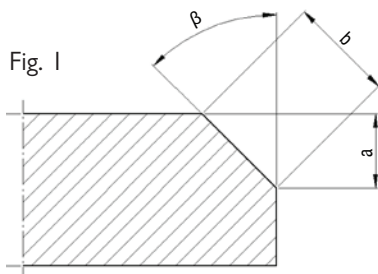
Pipe OD beveling
Min. ID
4" (100 mm)

Steelmax

The tools of innovation.

PLATE & PIPE BEVELER FROM STEELMAX®

ABM 1218 FR Technical Specifications	
Voltage	480V, 3 Phase/230V, 3 Phase (50-60 Hz)
Power	2,200 Watts
Spindle Speed	9 RPM
Bevel Angle Range (β , Fig. 1)	22.5°, 25°, 30°, 35°, 37.5°, 45°
Maximum Bevel Width (b, Fig. 1)	3/4" (18 mm)
Maximum Bevel in a Single Pass	1/2" (12 mm)
Minimum Plate Thickness	1/4" (6 mm)
Maximum Plate Thickness	1-9/16" (40 mm)
Minimum Plate Width	2-3/16" (55 mm)
Cutting Speed	8.5 ft/min (2.6 m/min)
Minimum Pipe ID	4" (100 mm)
Weight	144 lbs (65 Kg)
Part Number	SM-ABM-1218 FR/SM-ABM-1218 FR-230



β	Max b	Max a
22.5°	3/4" (18 mm)	5/8" (16.6 mm)
25°	3/4" (18 mm)	5/8" (16.3 mm)
30°	3/4" (18 mm)	9/16" (15.6 mm)
35°	3/4" (18 mm)	9/16" (14.7 mm)
37.5°	3/4" (18 mm)	9/16" (14.3 mm)
45°	3/4" (18 mm)	1/2" (12.7 mm)

Standard Set Includes:

- ABM 1218 Beveling machine
- 30° Bevel angle attachment
- 1 cutting wheel for mild steel
- Cutter extraction tool
- Flat wrenches:
12-13 mm, 18-19 mm, 24-26 mm
- Hex wrenches: 5 mm and 6 mm
- Operator's manual



Consumables and Angle Attachments

- SM-ABM-1218-CW-MS Cutting wheel for mild steel
- SM-ABM-1218-CW-SS Cutting wheel for stainless steel
- SM-ABM-1218-CW-AL Cutting wheel for aluminum



- SM-ABM-1218-AVD-22.5 22.5° Bevel angle attachment
- SM-ABM-1218-AVD-25.0 25° Bevel angle attachment
- SM-ABM-1218-AVD-30.0 30° Bevel angle attachment
- SM-ABM-1218-AVD-35.0 35° Bevel angle attachment
- SM-ABM-1218-AVD-37.5 37.5° Bevel angle attachment
- SM-ABM-1218-AVD-45.0 45° Bevel angle attachment
- SM-ABM-TR Trolley



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