

■ ABM-14 | PLATE AND PIPE BEVELLER

ABM-14 is a beveling machine designed to mill plates and pipes made of carbon steel, alloy steel, stainless steel or aluminum alloys.

In just one single run the machine can bevel up to 2.6 m/min. (8.5 ft/min.) to a width of 12 mm (1/2") in workpieces with tensile strength of $R_m \leq 392$ MPa (57,000 psi).

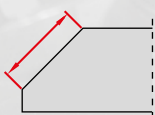
Maximum bevel width is 14 mm (9/16"). Depending on materials two or more runs are needed. Bevel angles incl. 30° (standard) and with optional angle variation devices also 22.5°, 25°, 35°, 37.5° or 45°. The machine can bevel plates from the top and bottom.

In the case of the milling tool getting stuck in the material and beveling cannot be continued the direction of rotation of the tool can be reversed to release the machine from the workpiece.

There is no need to wear acoustic protection equipment because the noise produced by the machine does not exceed 70 dB.

■ Features & benefits

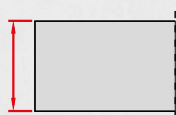
- fast and efficient
- bevels both small and large pieces to cover most of the common applications for its type
- auto feed on large plates with optional trolley
- beveling of lower edge in inverted position
- standard shearing cutter for machining carbon steel
- 2 optional shearing cutters dedicated to stainless/alloyed steel and aluminum
- reversible spindle against stuck milling tool
- versatile and transportable on its own trolley
- low noise



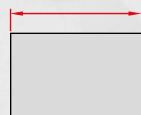
Bevel width
up to 14 mm
(9/16")



Bevel angles 30°,
(option): 22.5°,
25°, 35°, 37.5°, 45°



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



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



Top
beveling



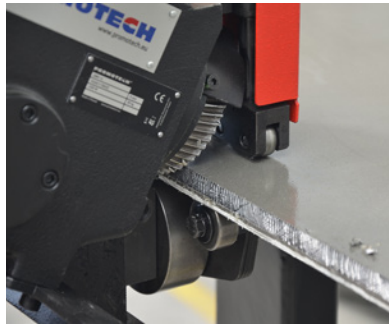
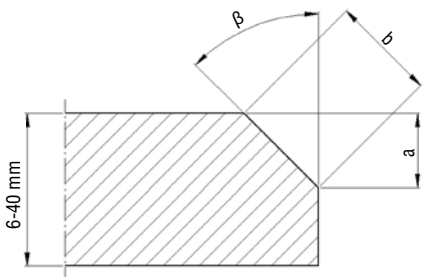
Bottom
beveling



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

ABM-14 TECHNICAL SPECIFICATION

Voltage	3~ 400 V + PE, 50/60 Hz
Power	2200 W
Spindle speed	9 rpm
Bevel angle range (β – depending on angle device in use)	30° 22.5°, 25°, 35°, 37.5°, 45° (options)
Bevel width (b)	up to 14 mm (9/16")
Maximum bevel in one single run	12 mm (in 40 Kg/ 392 MPa carbon steel)
Minimum plate thickness	6 mm (1/4")
Maximum plate thickness	40 mm (1-9/16")
Minimum plate width	55 mm (2-3/16")
Bevel length per minute	2.6 m (8.5 ft)
Minimum pipe ID	100 mm (4")
Weight	65 kg (144 lbs)
Product Code:	UKS-0639-10-40-00-0

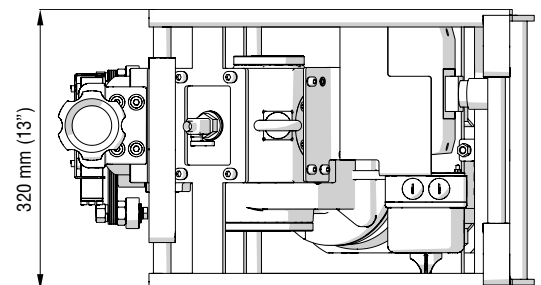
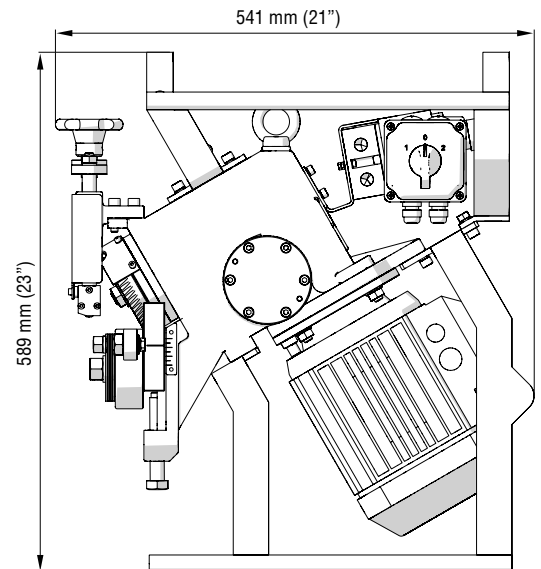


SINGLE RUN BEVELLING - CARBON STEEL

Rm	≤ 392 MPa (57,000 psi)		392–490 MPa (57,000–71,000 psi)		490–588 MPa (71,000–85,000 psi)	
β	b [mm]	a [mm]	b [mm]	a [mm]	b [mm]	a [mm]
22.5°	12	11	10	9	8	7.5
30°	12	10	10	8.5	8	7
35°	12	9.5	10	8	8	6.5
37.5°	12	9	10	7.5	8	6
45°	12	8.5	10	7	8	5.5

SINGLE RUN BEVELLING - STAINLESS / ALLOY STEEL

Rm	≤ 490 MPa (71,000 psi)		490–588 MPa (71,000–85,000 psi)		588–686 MPa (85,000–100,000 psi)	
β	b [mm]	a [mm]	b [mm]	a [mm]	b [mm]	a [mm]
22.5°	6	5.5	5	4.5	4.2	3.8
30°	6	5	5	4.3	4.2	3.6
35°	6	5	5	4	4.2	3.5
37.5°	6	4.5	5	4	4.2	3.3
45°	6	4	5	3.5	4.2	3



Standard set includes:

- ABM-14 beveller
- milling cutter for stainless steel
- cutter extraction tool
- tube beveling shaft
- tube beveling washer
- flat wrenches: 12-13 mm, 18-19 mm, 24-26 mm
- hex wrenches: 5 mm and 6 mm
- operator's Manual

Optional and spare accessories:

- FRZ-000586 Milling cutter for mild steel
- FRZ-000588 Milling cutter for stainless steel
- FRZ-000587 Milling cutter for aluminum



- SCG-000002 Milling cutter extraction tool



- PRW-000100 Angle Variation Device 22.5°
- PRW-000101 Angle Variation Device 25°
- PRW-000105 Angle Variation Device 30°
- PRW-000102 Angle Variation Device 35°
- PRW-000103 Angle Variation Device 37.5°
- PRW-000104 Angle Variation Device 45°



- TRZ-000017 Tube beveling shaft
- PDK-000240 Tube beveling washer



- WOZ-000009 Adjustable trolley



Multitude of applications:



Top plate beveling



Bottom plate beveling



Oval workpiece and pipe beveling



Beveling at 30°



Beveling at 45°



Maximum bevel width up to 14 mm



ABM-14 runs along a plate automatically

All information is subject to change without notice. 1705



PROMOTECH Sp. z o.o.
ul. Elewatorska 23/1, 15-620 BIAŁYSTOK, POLAND
tel. (+48 85) 678 34 05, fax (+48 85) 662 78 77
marketing@promotech.eu www.promotech.eu

Your local dealer:

