BM21 PORTABLE BEVELING MACHINE

PRODUCE HIGH-QUALITY MACHINED BEVELS EFFICIENTLY WITH THIS PORTABLE ERGONOMIC POWER TOOL

Reduce your costs and lay the foundation for high-quality welds with the Steelmax BM21 and BM21-SS (for use on stainless steel). Inaccurate bevels and poor weld preparation are often the root cause of weld defects and excessive welding costs. Both machines utilize a high speed rotary milling head with ten carbide inserts to produce precise bevel angles from 0 to 60 degrees that dramatically improve fit up and all subsequent welding operations. The BM21-SS, specifically designed for use on stainless steel, also utilizes a lower speed motor and all stainless contact surfaces to eliminate contamination of the stainless steel work piece.

Unlike flame or plasma cut weld preparation, the BM21 and BM21-SS produce no heat affected zone or distortion of the work piece. These portable tools can be carried anywhere and eliminate time consuming and costly material handling associated with moving plates around the shop to stationary burning and milling machines.

The BM21 and BM21-SS feature an ergonomic design that includes vibration dampening technology to protect the operator and the machine during heavy continuous operation. Automatic thermal overload protection circuitry protects the motor from premature failure, providing a reliable tool that can withstand the toughest jobs. The BM21 and BM21-SS can be used on plate and pipe without any additional accessories.

FEATURES:

- Single milling head with 10 carbide inserts produces weld-ready bevels quickly and more efficiently with less operator effort
- Fast and easy exchange of carbide inserts minimizes down time
- Working range from 0 to 60 degrees with continuous angle adjustment
- Simple bevel angle and bevel width set up
- Vibration insulation protects both the operator and the machine electronics
- Universal guide plate requires no additional accessories for beveling both plate and pipe

Max. bevel width 13/16” (21mm)
Bevel angles 0-60°
Top beveling
Facing Max 13/16” (21mm)
Pipe beveling
OD 6 - 12”; option: OD 10 - 23-5/8”

Special model BM-21SS with lower speed motor dedicated for machining STAINLESS STEELS is now available
BM21 TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Power supply</td>
<td>115VAC/60Hz or 230VAC/50Hz</td>
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<tr>
<td>Power</td>
<td>1.5 HP (1.1kW) Induction Motor</td>
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<tr>
<td>BM-21SS: 1600 W (for 50 Hz); 1800 W (for 60 Hz)</td>
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<tr>
<td>Spindle speed</td>
<td>2820 rpm</td>
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<tr>
<td>BM-21SS: 1360–1630 rpm (at 230 V) and 1300–1560 rpm (at 115 V)</td>
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<tr>
<td>Tooling</td>
<td>Integrated milling head with 10 square TCT inserts</td>
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<tr>
<td>Beveling angle</td>
<td>0-60° degree continuous angle adjustment</td>
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<tr>
<td>Max bevel width</td>
<td>13/16” (21 mm)</td>
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<tr>
<td>Weight</td>
<td>BM21: 43 lbs. (20kg)</td>
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<tr>
<td>BM21-SS: 51 lbs. (23kg)</td>
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<tr>
<td>Part number</td>
<td>BM21: SM-BM21 (115V/60Hz); SM-BM21-230 (230V/50Hz)</td>
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<tr>
<td>BM21-SS: SM-BM21-SS (115V/60Hz); SM-BM21-SS-230 (230V/50Hz)</td>
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Optional equipment:

Replacement cutting inserts – 10 required
Part No. SM-PLY-000282

An optional guide is needed for larger pipes with a diameter of 10-24” (260-600 mm)
Part No. SM-PRW-0461-22-00-00-0

Plate facing
Plate beveling
Pipe beveling

Mono block milling head, with 10 indexable inserts.

Continuous angle adjustment from 0 to 60 degrees.

Single universal guide plate for beveling both plates, and for pipes ø 6-12” (150-300 mm)

Enhanced Vibration Dampening

The BM21 incorporates industry leading anti-vibration technology for more comfortable operation and extended machine life.

Testing indicates that this new anti-vibration system reduces vibration by up to 37% over comparable machines.