



Rough Grinding and Cutting



Purpose

The main goal of rough grinding and cutting off is to remove as much material (stock) as possible. Surface finish is of minor importance. This process involves leveling or smoothing edges and shaping cast, forged, or welded pieces. It can also involve removing material to form or enlarge a cavity. Typical tasks include fettling castings, trimming welding joints, or cutting off.



Choosing the Tool

Several factors determine the choice of tool, including the type of grinding work, the workpiece material, shape, location, the abrasive used, and the power required. More power enables more material to be removed over time.



Choosing Wheel Diameter and Thickness

Key considerations when choosing wheel diameter include ease of use, machine speed, and economy:

- Many operators prefer the smallest wheel possible as it is lighter and generates less torque.
- Machine speed (rpm) is crucial. Safety codes restrict maximum speeds; larger wheels have lower maximum speeds.
- Larger wheels provide more usable abrasive material at a lower additional cost.
- Wheel thickness is also a matter of cost-effectiveness. Thicker wheels offer more abrasive material for the same price, but thinner wheels may be necessary for precision control or confined spaces, despite requiring a heavier tool and higher air consumption.



Technique

When using grinders, the material removal pattern is unpredictable, unlike stationary machines. Each grain on the abrasive acts as a tiny cutting tool, removing small chips of material. Over time, these grains become blunt, but the right abrasive will cause blunt grains to break off, exposing new, sharp grains, which is essential for effective grinding. Self-sharpening is crucial for effective grinding. Grinding with a rocking movement helps different parts of the abrasive touch the workpiece, aiding the self-sharpening process. When cutting off material, this rocking motion should follow the wheel's rotation direction.

Edge processing for professionals: an excellent combination of power, design, durability and ergonomics. For stronger joints and rounded edges.

Description

Discover our high-quality beveling tools, designed for chamfering, deburring, and creating radius edges on mild steel and aluminum plates. These tools are perfect for milling contours and cut-outs in carbon steel and aluminum, with adjustable depth control for precision.

Our beveling tools are perfectly suited for efficient work in various areas of manual edge-processing.

Featuring the unique milling head and guide bearing technology, our tools deliver enhanced performance, leading to greater effectiveness and productivity. Achieve strong welded joints and smooth, rounded edges for an excellent paint finish. Enhance your metalworking projects with our reliable and efficient beveling tools, and experience the clear benefits for our customers.

Features

- Modular design
- Lightweight and easy-to-handle design
- Integrated speed controlled governor
- Ergonomically designed support handle
- Integrated spindle lock
- Carbide inserts with eight cutting edges
- Milling head @45° made of special alloy

Benefits

- Optimal process speed
- Highest productivity
- No grinding dust
- High level of operator safety and comfort
- Excellent accessibility



Beveling Tools



LSB39

Details >



| Model | Max free speed r/min | Max bevel width mm | Max radius mm | Max output kW | Weight kg | Max height over guide plate mm | Air consumption at max output l/s | Air consumption at free speed l/s | Rec hose size mm | Air inlet thread BSP in | Ordering No. |
|------------|-------------------------|-----------------------|------------------|------------------|--------------|-----------------------------------|--------------------------------------|--------------------------------------|---------------------|----------------------------|--------------|
| LSB39 S085 | 8500 | 8 | 4 | 1.8 | 2.6 | 111 | 29.5 | 16.3 | 13 | 3/8 | 8423 0133 10 |

Accessories

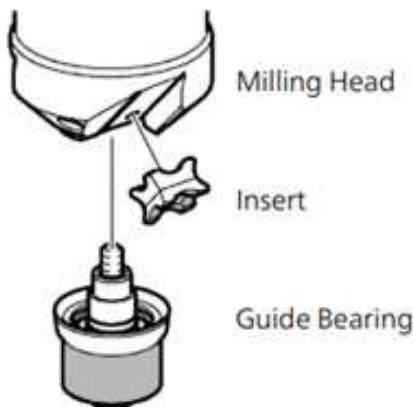
| | Ordering No. |
|--|--------------|
| Included | |
| Milling head (Chamfer 45°) | 4150 2240 90 |
| Guide bearing (Chamfer 45°) | 4150 2240 93 |
| Insert (Chamfer 45°) | 4150 2241 92 |
| Optional | |
| Hose kit (Turbo 13; 13 mm (1/2"), L = 0.9m (L = 3 ft)) | 4150 1618 81 |
| Hose (Soft type, Ø 38mm, L = 1 m) | 4150 1314 02 |
| Hose (HD type, Ø 42mm, L = 1 m) | 4150 1532 01 |
| Milling head (Radius 2mm, 3mm, 4mm) | 4150 2240 90 |
| Milling head (Chamfer 30°) | 4150 2240 94 |
| Milling head (Chamfer 35°) | 4150 2240 98 |
| Milling head (Chamfer 55°) | 4150 2240 96 |
| Milling head (Chamfer 60°) | 4150 2241 04 |
| Guide bearing (Radius 2mm) | 4150 2240 80 |
| Guide bearing (Radius 3mm) | 4150 2240 91 |
| Guide bearing (Radius 4mm) | 4150 2240 92 |
| Guide bearing (Chamfer 30°) | 4150 2240 95 |

Accessories

| | Ordering No. |
|--|--------------|
| Optional | |
| Guide bearing (Chamfer 35°) | 4150 2240 99 |
| Guide bearing (Chamfer 55°) | 4150 2240 97 |
| Guide bearing (Chamfer 60°) | 4150 2241 05 |
| Insert (Radius 2mm) | 4150 2241 93 |
| Insert (Radius 3mm) | 4150 2241 90 |
| Insert (Radius 4mm) | 4150 2241 91 |
| Insert (Chamfer 30°, 35°, 55°, 60°) | 4150 2241 92 |
| MULTIFLEX-3/8 cover | 8202 1350 42 |
| MULTIFLEX-3/8-NPT (For North America) | 8202 1350 28 |
| MULTIFLEX-3/8 | 8202 1350 22 |
| Productivity kit (MIDI-FRL-1/2-BSP EQ10-T13) | 8202 0850 17 |

NOTE: Each type of inserts work with respective Guide bearing only

Radius



Chamfer

