

# LOEWER

## SwingGrinder

DEBURRING AND EDGE ROUNDING MACHINE FOR SHEET METAL PARTS



FOR LASER-CUT, PLASMA-CUT AND PUNCHED SHEET METAL  
FOR FOILED, ZINC-PLATED AND 3D PARTS  
FOR STEEL, STAINLESS STEEL, ALUMINIUM

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## SwingGrinder

### The original LOEWER SwingGrinder

Before LOEWER invented the SwingGrinder in 2009 there were two main methods for deburring CNC cut sheet metal - either manually with power tools or using expensive through-feed machines. The SwingGrinder offers a third approach. The grinding head consists of two rotating disc tools mounted to a swinging arm which in turn is equipped with a weight compensation device. This grinding unit is guided easily over the workpiece by hand and grinding pressure is applied manually from above.

The inside and outside edges of the workpiece are processed efficiently from all angles and directions. The grinding head can be tilted 180° - allowing for a speedy switch from a deburring disc to a rounding disc. The table comes with a highgrip cover to prevent workpieces moving. When deburring from the top, the workpieces are pushed against the grip cover thus allowing even small parts to be processed easily.

### Well-engineered details for easy use

Pneumatic brakes in both pivot joints for blocking the swinging arm at any position when motor is switched off

Heavy column with additional height adjustment function

Limit switch for automatic motor shutdown when head is tilted

Special high-grip table cover making it possible to process even very small parts

Variable spindle speed using frequency inverter for speedy adjustment to different deburring tasks

Well-balanced swinging arm with weight compensation for effortless movement

Tilting head with both deburring and edge rounding disc

Easily-accessible emergency-off push button, positioned directly on swinging arm

Large acrylic glass safety cover for good visibility

Rounded handle for ergonomic use

Protective sheets can be lowered when processing larger parts

Locking pin and additional spring-loaded bolts for less vibrations

Safety covers on both spindles

Connection outlet for dust extraction



Open space for feet

Compartment for storing tools and abrasives

### Our tools



The **SoftDisc** is used for deburring using a standard abrasive disc with velcro backing. The soft backing ensures an aggressive grinding at the edges of the workpiece without applying too much pressure on the surface.



Our legally protected **CompactDisc** is more aggressive and removes high burrs and spatter. The special design creates more pressure at the burr.



For rounding the edges the **MediumDisc** with abrasive cloth and nylon abrasive backing is used. This disc will give a nice rounding of all inside and outside edges.



The very flexible **SmartFlexDisc** is used for edge rounding of foiled or zinc-plated parts and for 3D-parts with stamped or drawn forms.

### Our advantages

#### Quick processing

The unit is guided easily over the workpieces whilst applying light pressure from above. The 150 mm diameter discs cover a large area at one time.

#### Deburring/Edge rounding

The tilting head is equipped with a deburring and an edge rounding disc making both tools available in seconds.

#### Ergonomical design

The SwingGrinder is easy to use with swinging arm and weight compensation.

#### Processes small parts

The discs are always parallel to the table and the table is covered with a special high-grip cover thus allowing small parts to be processed easily.

#### Processes large parts

The table size is 1400 x 800 mm. Larger parts can be processed efficiently by lowering the protective sheets. Processes steel/stainless-steel by changing only two tools the machine can be used for different materials.

#### Quick return on investment

Working with the SwingGrinder is up to 3-4 times quicker than manual deburring. The small initial investment and low tool costs lead to a quick return on investment.

### Our safety features

The SwingGrinder is equipped with the following safety features:

- Spindle covers on both sides
- Automatic motor shutdown when head is tilted
- Pneumatic brakes for blocking the swinging arm at any position when motor is switched off
- Easily-accessible emergency-off push button
- Large acrylic glass safety cover over the top disc



High-grip table cover for holding even very small parts



180° tiltable head for quick access to deburring and edge rounding tools



Pull-out dust collection container



Aluminium



Steel



Stainless steel



Small parts

### Technical Data

#### Standard features SwingGrinder

- Disc unit 0,75kW with variable rpm using frequency inverter
- Tilting head with locking pin and additional spring-supported clamping pins
- Automatic motor shutdown when head is tilted
- Strong swinging arm with weight compensation and pneumatic brakes
- Table 1400 x 800 mm with special high grip cover for processing small parts (from 20 mm diameter)
- Holes in table and pull-out dust collection container underneath table
- Outlet D=120 mm for connection to dust extraction unit. An extraction unit may not always be required - this depends on the individual grinding application.
- 400V, 50Hz, 3P, compressed air connection, CE

#### Optional extras

- Selection of disc tools for deburring, edge rounding and finishing
- Quick-fix tool connector for quick changing of discs between steel and stainless steel
- Vacuum device with injector for holding small and light work pieces. For most applications the vacuum device is not necessary, it can be ordered at any time at a later stage if needed.
- Suitable dust extraction units for processing steel, stainless steel or aluminium.  
CAUTION: dust extraction units must be selected to suit the material being processed (danger of explosive dust)
- Adjustable grinding pressure by pneumatic cylinder and air pressure regulator

#### Test the SwingGrinder for yourself!

Discover the easy-handling and the exceptional deburring and edge rounding results at our showrooms in Homberg/Efze. Demo machines are also on show in our dealer showrooms in many countries. Please enquire for further details.