

Loewer Discmaster SF 2/2 special version: DOUBLE-SIDED MACHINING

Version 1000mm working width

Deburring, edge rounding and oxide removal.

Top and bottom in one pass



For laser cut and punched parts

For flat and three-dimensional formed parts

For foil-covered sheet metal

For zinc-coated sheet metal



LOEWER DiscMaster SF

360 °deburring and edge rounding from top and bottom.

The DiscMaster SF is equipped with oscillating disc stations on the top and on bottom. These discs with flexible abrasive sanding strips rotate and oscillate over the workpiece. The inside and outside edges are processed from all angles and directions resulting in uniform edge rounding independent of the orientation of the cutting contours.



The workpiece transport.

1 work pieces are fed through the machine by rubber covered rollers with adjustable feed speed.

- the sanding strips can be set below the level of the rollers-a big advantage over a feed belt drive.

- three-dimensional formed parts can be processed due to the softness of the feed rollers.

The 360 °processing principle

The work pieces are placed on the feed rollers, The rotating discs oscillate continuously over the work piece. Different disc tools can be used on the different disc stations, depending on the application, The grade of edge rounding can be adjusted by setting the pressure, the disc rpm, the feed speed, and the grit size of the abrasives.

The tools



High quality abrasive sanding strips available in different heights, gritsizes, cutting widths and support brushes



Grooved discs for holding sanding strips



Stainless steel wire brushes for oxide removal for oxide removal

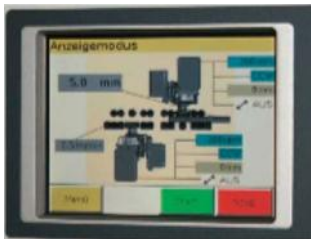
DiscMaster SF 212:

Two oscillating disc stations from top, two from the bottom, in 1000mm or 1500mm working width. For more pronounced edge rounding it is possible to use different grit sizes, e.g. grit 60 on the first and grit 80 on the second units.



Disassembled SF 2/2

When using Smart-Flex sanding strips on the first and stainless-steel wire brushes on the second units the machine is ideal for edge and oxide removal of laser cut steel parts in one pass.



Touch Panel Control The DiscMaster SF is equipped with a modern Touch Panel Controls and step motors for quick and exact setting, The disc units, oscillation motors and the feed speed are infinitely adjustable using frequency inverters. Also it is possible to store machine programs and the machine is very easy to use..

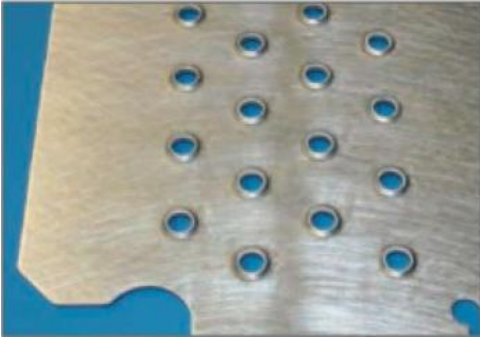


Even wearing of abrasive tools The optional workpiece scanning device detects the position of the workpieces in the machine. Lights on the infeed side show the operator where to preferably place the next workpiece on the conveyor rollers in order to achieve an even wearing of the abrasives, This simple but effective solution will keep the abrasive costs down.

The Advantages

- Top and bottom processing in one pass
- Uniform 360°edge rounding independent of direction of contour
- Adjustable grade of edge rounding
- Possible to set abrasives below roller level
- For laser-cut or punched parts
- For flat or formed parts
- For oxide removal
- Very gentle on surface when processing zinc-coated or foiled parts Low energy consumption
- Silent processing
- Very forgiving with differences in material thickness
- Easy to use Touch Panel

Technical Data



DiscMaster SF 1/1-1000 (1500)

Max. working width 1000mm (1500mm)

One disc station top, one disc station bottom

Disc station with 6 discs (9 discs), with separately variable rpm using frequency inverters. separate height adjustment by step motor,

individual oscillation by gear motor, disc diameter t 50mm

Rubber-covered feed rollers and rubber covered spring-loaded hold down rollers, variable feed speed 0.5- 4m/min by frequency inverter

Motorized height adjustment of workpiece thickness

Touche Panel controls

CE



DiscMaster SF 2/2-1000 (1500)

Max. working width 1000mm (1500mm)

Two disc station top, two disc station bottom

Disc station with 6 discs (9 discs), with separately variable rpm using frequency inverters. separate height adjustment by step motor.

individual oscillation by gear motor, disc diameter t 50mm

Rubber-covered feed rollers and rubber covered spring-loaded hold down rollers, variable feed speed 0.5- 4m/min by frequency inverter

Motorized height adjustment of workpiece thickness

CE



Optional Extras:

Workpiece scanning device with indication lights for a more even wearing of abrasive tools

Large range of Smart-Flex sanding strips

Stainless steel wire brushes for oxide removal

Suitable dust extraction units

Top and bottom brushing machine with two disc-station from top and two disc-station from bottom in 1000mm working width for deburring edge-rounding of flat sheet metal or 3D formed parts.

Two disc-station from top. each with:

- 6 spindles for taking 6 disc tools With max. 150mm diameter
- 2,2kW drive motor with tooth belt drives
- variable adjustable rpm by frequency inverter, 500-1200rpm
- disc-station on linear guides with oscillating movement 90° to direction of feed by gear motor 0,55kW and excenter, 150mm stroke, 30rpm
- disc-station can be pulled out right and left Of machine for easy access and quick abrasive tool change
- 2 drive directions of spindle clockwise/counter clockwise in order to use two different abrasive grit sizes in one tool
- complete disc station mounted in vertical linear guides for height adjustment
- motorized height adjustment of individual disc station by step-motor for adjusting pressure of abrasive discs

Two disc-station from bottom, each with:

- 6 spindles for taking 6 disc tools with max. 150mm diameter
- 2,2kW drive motor with tooth belt drives
- variable adjustable rpm by frequency inverter, 500-1200rpm
- disc-station on linear guides with oscillating movement 90° to direction of feed by gear motor 0,55kW and excenter, 150mm stroke, 30rpm
- disc-station can be pulled out right and left of machine for easy access and quick abrasive tool change
- 2 drive directions of spindle clockwise/counter clockwise in order to use two different abrasive grit sizes in one tool
- complete disc station mounted in vertical linear guides for height adjustment
- motorized height adjustment of individual disc station by step- motor for adjusting pressure of abrasive discs

further data:

- complete housing of machine for less dust emission
- dust extraction connection point, outlet 2 x 180mm diameter
- work piece feed by rubber rollers, driven by gear motor 0,37kW and tooth belt drive, with opposite rubber hold down rollers
- roller diameter 60mm, shortest length of work piece 320mm
- support drawer for processing smaller work pieces from one side
- variable feed speed by frequency inverter 0,5- 4m/min
- fixed height of through feed, possible to put machine into production line
- maximum height of work piece 80mm
- control and display by colored B&RTouch Panel adjustable parameters:
- for each disc station individually: discs on/off, disc rpm, direction of rotation of discs, height adjustment for toll pressure, oscillation on/off
- work piece thickness
- feed on/off, feed speed 0,5- 4 m/min
- selection manual mode or program mode (saving all adjusted parameters as machine programs)
- display of machine errors
- service menu for basic machine adjustments
- possible PIN selection for different areas of control (manual mode, program mode. service mode)
- emergency off pull cord at infeed and outfeed
- emergency off when opening doors
- 400V. 50Hz, 3P
- length x width x height (mm): 1970 x 1620 x 1940 (without panel)
- weight: appr. 2600kg