

Loewer Discmaster 4TD Metal Sheet Deburring and Edge Rounding Machine.



Stock No	PF1229J
Manufacturer	Loewer
Model	4TD-1000
Serial	12464
Condition	From a working environment, Good Condition
R.P.M.	Variable
Hp/Kw	3.0Hp // 2.2kW
Other Info	Max Height 30mm Max Width 1000mm
Location	Our Central Warehouse, Aldridge, UK
Weight (kgs)	1500
External Dimensions (WxDxH mm)	1900 x 1620 x 1800mm

Description

The DiscMaster 4TD is intended solely for the grinding and deburring of sheet metal.

- The machine is intended for deburring and edge rounding of sheet metal with a minimum length of 30mm and maximum length of 800 mm (when roller conveyors are used before and after the machine, then a length greater than 800mm is permitted). Each individual work piece must not exceed a height of 30mm and a width of 1000 mm.



Operation Details

- The machine is equipped with 4 disc units , two at the infeed side and two at the out feed side.
- Each disc is mounted to a plate and can be adjusted in height manually by a handwheel in order to adjust the discs depending on thickness and wear of the disc tool.
- A display shows the height of the individual disc. The height can be clamped or loosened by clamping lever.
- The four disc motors can be adjusted for speed.
- The disc units are mounted to a support on linear guides and oscillate 90° to the direction of feed. The oscillation is driven by a gear motor and a tooth belt. Sensor switches control the change of direction of motor.
- The oscillation has three possibilities to select from. Full range oscillation – the discs will oscillate over the full width of the machine. The left position to select small oscillation. The discs will only oscillate a little. This might be selected to process small work pieces (up to 100mm diameter) at a higher feed speed. In this case make sure to place the work pieces directly under the arrows on the feed belt. Select 0-position and the units will not oscillate at all. This might be advantageous for processing small work pieces only from two directions (left-right and right-left). Make sure to check where the discs are placed as they will stop anywhere.
- The conveyor belt carries the workpiece through the machine. It is driven by a feed motor. It is switched on using the switch for the conveyor belt and the feed speed can be set using the potentiometer .
- The tracking device is keeps the feed belt centre at all times. A pneumatic cylinder pushes the feed roller to different directions.
- The feed belt can be adjusted and tensioned manually by using the adjusting screws.

Cleaning Brush

- The cleaning brush is situated under the feed belt at the out feed side and cleans the feed belt from dirt and dust. It is driven by a gear motor and linked to the switch for the feed carpet.
- When the feed carpet is started, the cleaning brush starts as well and vice versa. The dust falls into the dust collection box. This box has to be cleaned regularly.

Extraction

- The extraction connection is located at the side of the machine diameter 150mm. There are two extraction channels left and right of the feed table and one tube goes to the dust collection box .
- The machine should be connected to an extraction system in such a way that it starts up automatically when the machine is switched on.

Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.