LASER MACHINES



LSP DL Series

Deburring and Polishing Machine

www.lasermachines.com.au

OVERVIEW

The Lanuss LSP Series are high-performance four-stage slag removal, deburring, and polishing machines engineered to deliver exceptional surface quality, efficiency, and reliability in modern metal fabrication environments. Designed for manufacturers who demand consistent finishing results, this advanced system effectively removes slag, sharp edges, burrs, and surface defects - producing smooth, uniform parts ready for welding, coating, or assembly.

Built with precision engineering and cutting-edge processing technology, the DL Series integrates multiple finishing stages into a single automated workflow. These include heavy slag removal, edge deburring, chamfering, and surface polishing, allowing fabricators to replace time-consuming manual processes with fast, repeatable, and controlled automation.

The DL Series features a robust combination of wide abrasive belts, heavy-duty grinding components, and high-performance roller brushes to ensure thorough treatment of both flat and profiled parts. This versatile configuration enables consistent edge rounding and surface refinement across a wide range of materials, including carbon steel, stainless steel, aluminium, and other common fabrication alloys.

FEATURES

Improved Productivity
The wide working width and efficient operation reduce processing time, leading to faster project completion.

Versatility
Suitable for deburring, sanding, and edge rounding, making it ideal for a variety of industries and applications.

Robust Build Quality
Constructed with durable materials to ensure long-term reliability and consistent performance.

User-friendly Interface
Intuitive control panel for easy operation and quick adjustments.

Variable Speed Control
Adjustable feed and roller speeds for optimized processing of different materials and surface conditions.

Modular Sanding Stations
Equipped with multiple sanding and deburring stations, allowing for tailored surface finishing and edge rounding.

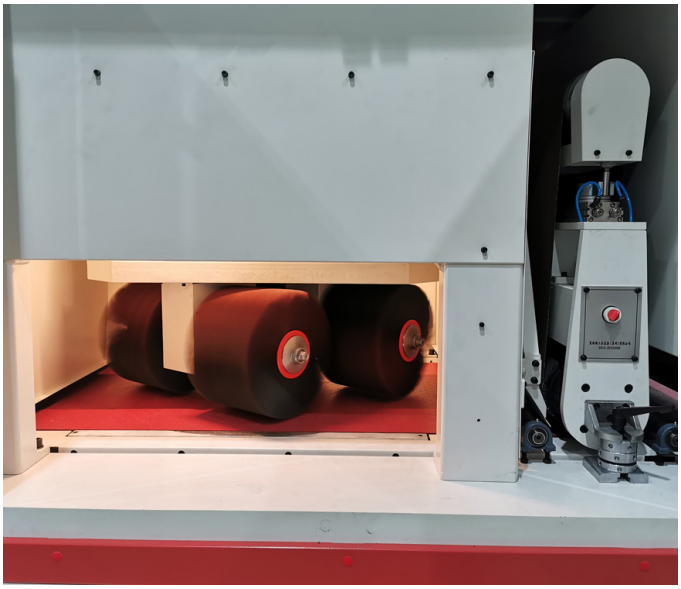
HOW IT WORKS

The equipment removes slag and burrs from the workpiece surface in a multi-step process:

Steel Hammer Disc Brushing Station: Removes slag from the surface of the workpiece using a specialised steel hammer disc.

Abrasive Belt Station: Eliminates large burrs and remaining slag particles effectively.

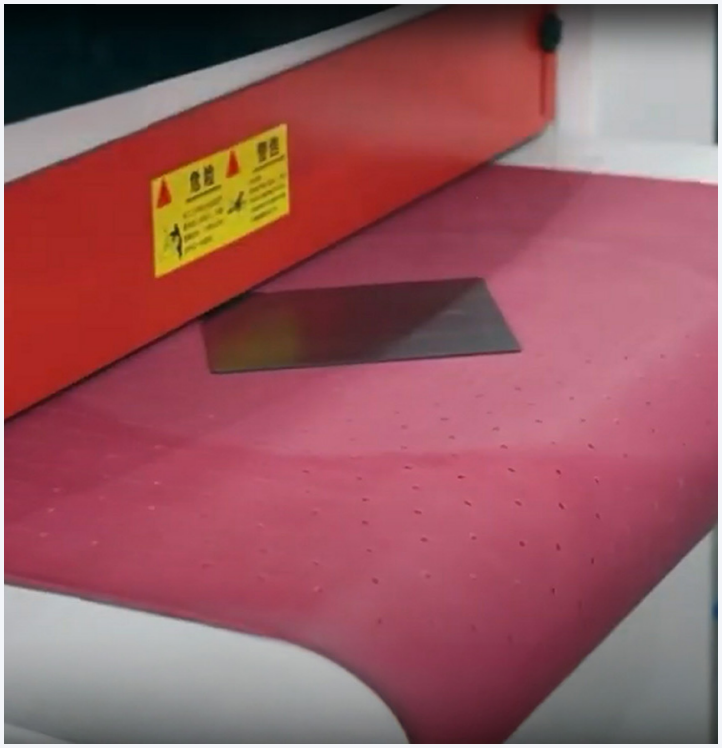
Universal Sand Roller Brush System: Utilises four rotating sanding roller brushes to remove slag and refine edges and inner holes. The process ensures no burrs remain, maintains the accuracy of the workpiece edges, and achieves uniform R-angle rounding (customisable using different abrasive belts and processes). The dimensional integrity of the workpiece is preserved throughout.



Additionally, the abrasive belt station and sanding roller brush system can operate independently:

The **Abrasive Belt Station** is ideal for processing metal hairlines, polishing, peeling, and slag removal.

The **Sanding Roller Brush System** ensures 360° deburring, particularly for laser-cut and CNC-punched sheet metal parts with protective coatings. This system removes burrs without damaging the coating or scratching the surface, thanks to specially designed soft abrasive brushes that target burrs only.



Conveying System:

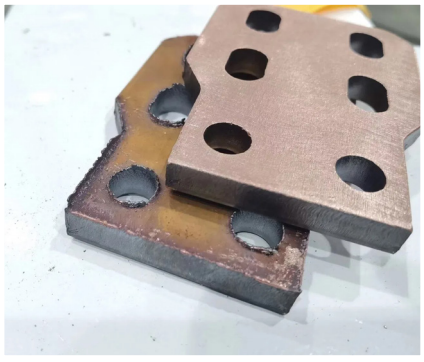
The equipment features a strong vacuum negative pressure adsorption system that securely holds workpieces over 50mm in size without additional tooling. For special workpieces, optional tooling can be used. The transmission system offers variable speed control for precise operation.

Dust and Safety Management:

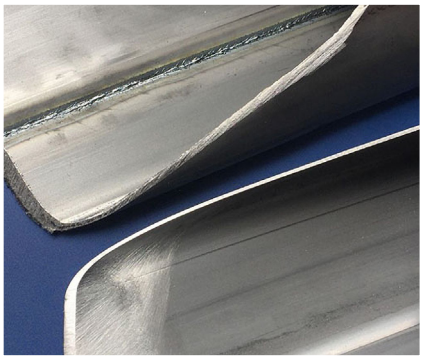
The machine includes a wet vacuum cleaner to minimise safety risks and efficiently manage grinding dust. A high-pressure, high-flow fan directs dust to a collection chamber, where it is captured through water spray deposition and filtered for environmental safety. Clean air is then discharged, ensuring a safe and clean working environment. The system also recycles and collects metal powder, supporting eco-friendly production practices.

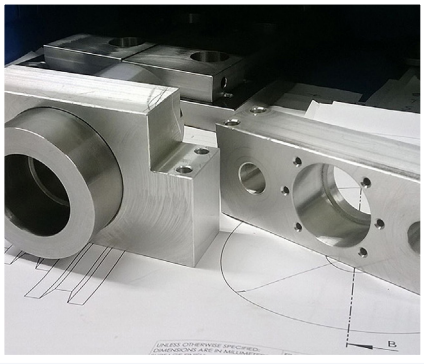
SPECIFICATIONS

Parameters	DL800	DL1000	DL1350
Working Width	≤ 800 mm	≤ 1000 mm	≤ 1350 mm
Min. Processing Size	50 x 50 mm		
Processing Thickness	0.5 ~ 150 mm	0.5 - 80 mm	
Brush Size	ϕ 300 x 300 mm		
Belt Size	ϕ 1910 x 800 mm	ϕ 1910 x 1000 mm	ϕ 1910 x 1350 mm
Conveying Feed Speed	0.5 ~ 6 m/min (variable)		
Belt Speed	12 m/s	18 m/s	
Dust Removal Volume	4000 m3/h		
Belt Main Motor	11 kW		
Brush Motor	4 kW		













LASER MACHINES

At Laser Machines, we are committed to being Australia's trusted partner for laser cutting machinery and related equipment. Specialising in cutting-edge solutions, we empower businesses with the highest quality machinery and unmatched service and support.

Our solutions-oriented approach prioritises customer satisfaction by delivering reliable products tailored to diverse needs and applications. With a focus on quality and service, we work closely with our clients throughout every step of their journey, ensuring they receive solutions designed to enhance operations and achieve their goals.

Backed by over 70 years of combined experience, our team collaborates directly with manufacturers to drive innovation and deliver machinery that meets the evolving demands of modern industries. At Laser Machines, we don't just supply equipment - we provide expertise, partnerships, and the tools for success.

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