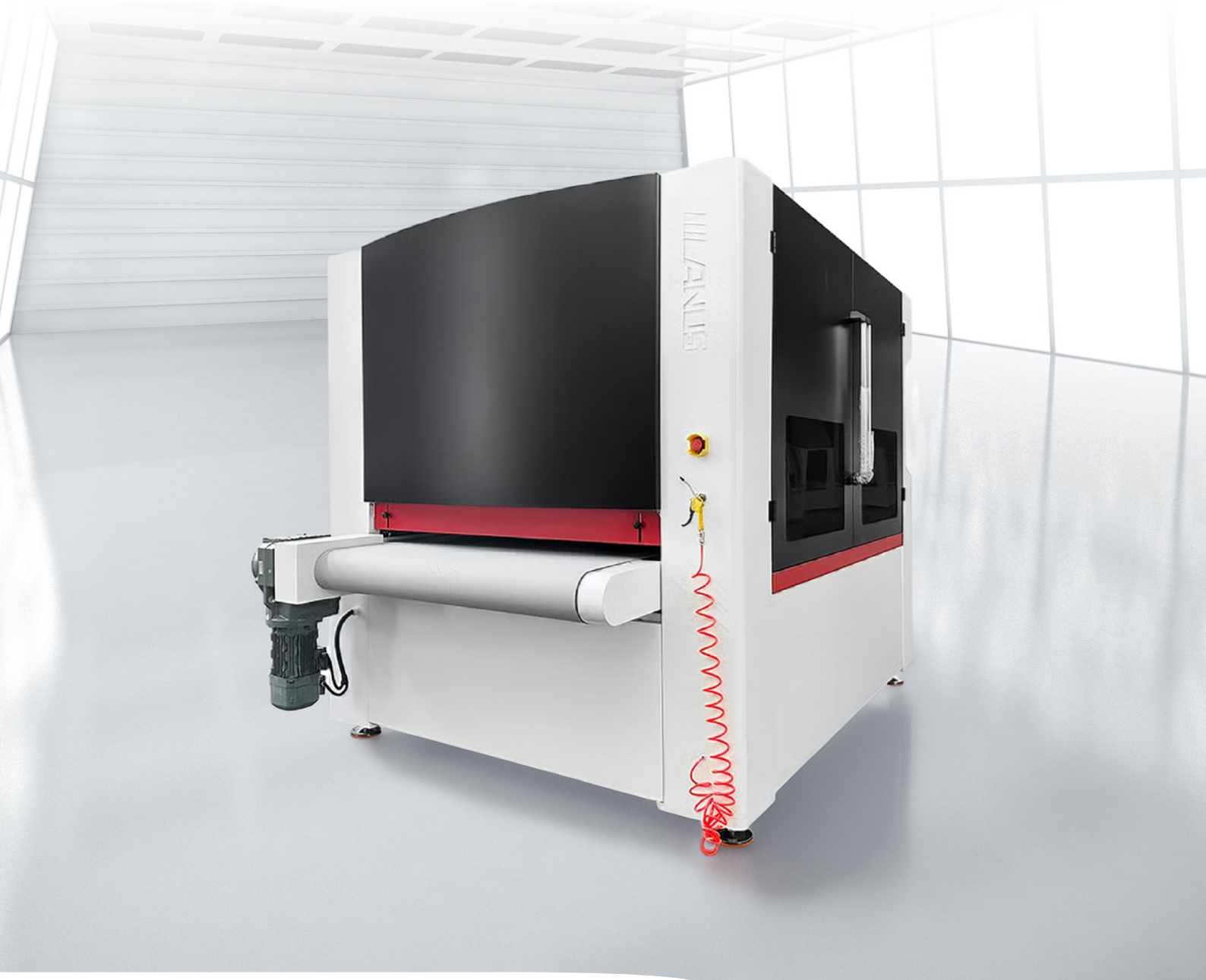
LASER MACHINES



LSP L Series

Deburring and Polishing Machine

www.lasermachines.com.au

OVERVIEW

The Lanuss LSP Series delivers fast, consistent, and high-quality deburring and edge-finishing for manufacturers who demand precision and reliability. Engineered for modern fabrication environments, these machines efficiently remove sharp edges, oxide layers, small burrs, and surface imperfections from laser-cut or punched parts, while improving overall finish quality and enhancing downstream assembly performance.

Built on a robust, industry-proven design, the L Series combines advanced abrasive technology with intelligent control systems to handle a wide variety of materials, including stainless steel, mild steel, aluminium, copper, and more. Whether you're processing thin sheet metal components or heavier plate work, the L platform ensures uniform results across every part, every time.

With multiple working widths, flexible brush and belt configurations, and optional features such as vacuum tables and automatic feed systems, the L Series is designed to scale effortlessly with your production needs. The result is a safer, cleaner, and more efficient workflow - reducing manual labour, boosting consistency, and elevating the overall quality of your finished products.

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.

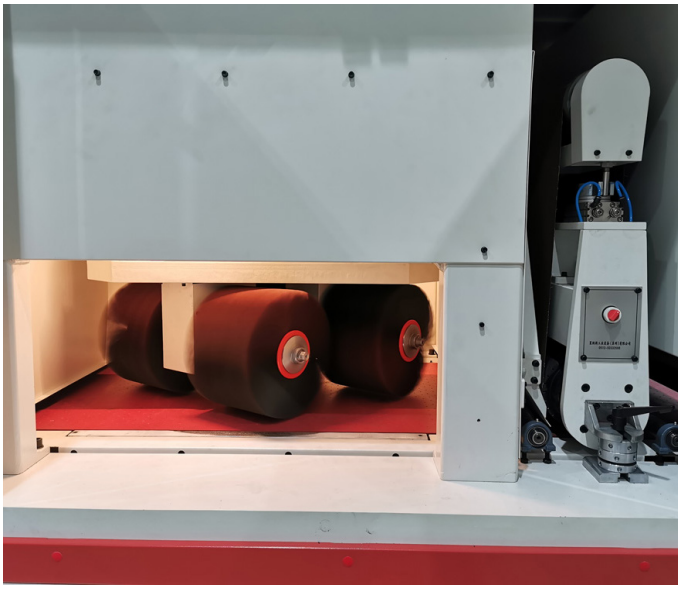
HOW IT WORKS

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.

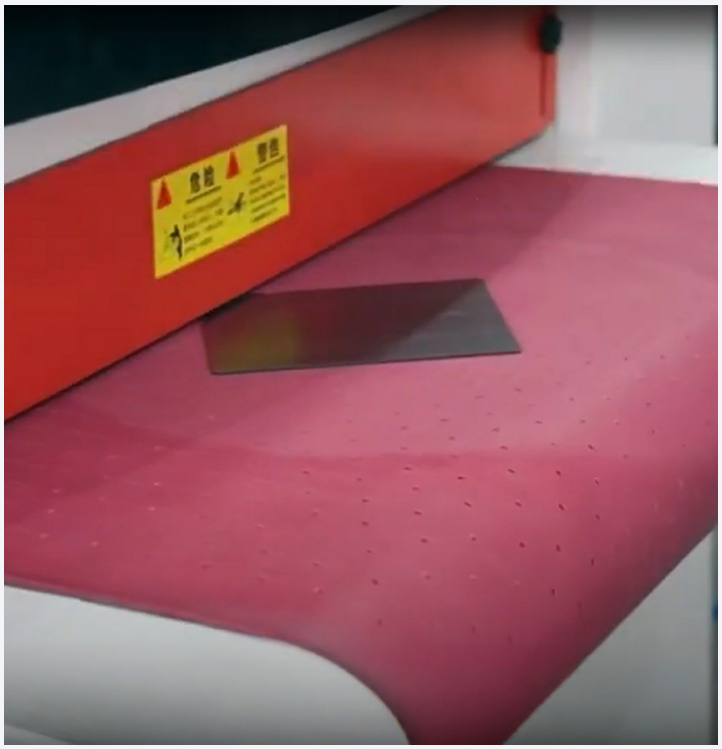
Universal Sand Roller Brush System: Utilises four rotating sanding roller brushes to remove slag and refine edges and inner holes. The process ensures no burrs remain, maintains the accuracy of the workpiece edges, and achieves uniform R-angle rounding (customisable using different abrasive belts and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

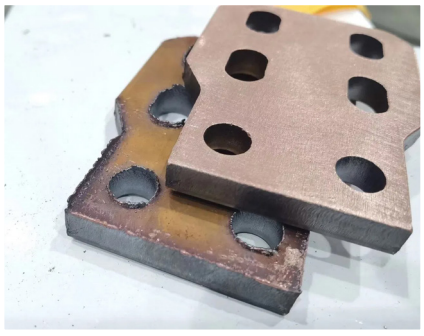
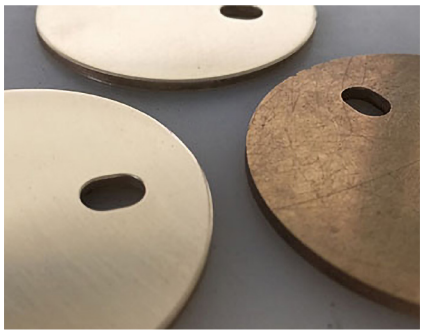
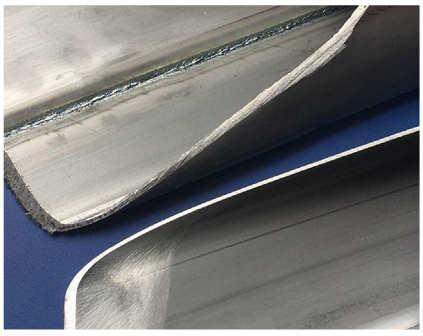
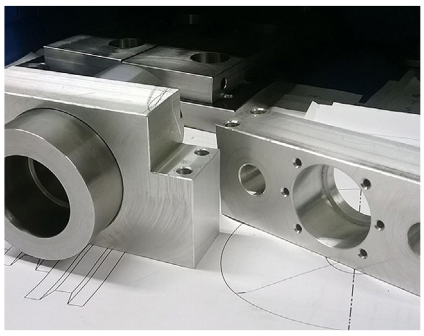
The equipment features a strong vacuum negative pressure adsorption system that securely holds workpieces over 50mm in size without additional tooling. For special workpieces, optional tooling can be used. The transmission system offers variable speed control for precise operation.

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	LSP-L1000	LSP-L1350	LSP-L1600
Working Width	1000 mm	1330 mm	1580 mm
Min. Processing Size	50 x 50 mm		
Processing Thickness	0.5 - 80 mm		
Sand Rolling Brush Size	ϕ 300 x 300 mm	ϕ 350 x 450 mm	ϕ 350 x 550 mm
Belt Size	1910 x 1050 mm	1910 x 1350 mm	1910 x 1600 mm
Sanding Belt Speed	12 m/s		18 m/s
Rolling Brush Orbital Speed	1 - 14 rpm	1 - 15 rpm	
Number of Rolling Brush Heads on Each Shaft	6	8	
Machining Thickness Servo Adjustment Precision	0.01mm		
Rolling Brush Compensation Servo Adjustment Precision	0.01mm		
Ventilation Capacity	4000 m^3/h		5000 m^3/h
Machine Dimensions (L x W x H)	2935 x 2060 x 2150 mm	3250 x 2300 x 2150 mm	4100 x 2600 x 2500 mm
Machine Weight (approx.)	3700 kg	5500 kg	8000 kg
Total Power	33.05 kW	51.7 kW	40.45 kW
Voltage	380 V		



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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