

LERO

INNOVATION LTD

*Presenting
tomorrow's
innovations
today*



Fabrication Product Catalogue



LASER CUTTING MACHINES

Han's Laser Technology Industry Group Co., Ltd, was established in 1996. Now the flagship of Chinese national laser industry and the world's largest laser equipment manufacturer. Han's Laser went public on the Shenzhen Stock Exchange Market in 2004 and as of today its market value exceeds USD 6 Billion.

Each product from Han's Laser is strictly examined according to ISO9001 (QCS) & ISO14001 (EMS) standards before it is put on to the market. Han's Laser flat bed range and tube cutting machines are certified with CE certification, setting the benchmark for quality and reliability.

Purchase Han's Laser equipment with absolute confidence, knowing that it meets the highest standards of production excellence.



The **HF Series** high-speed fiber laser cutting machine represents Han's top-tier 2D laser cutting technology. Engineered specifically for 12kW+ laser cutting and consistent thick plate cutting, it is capable of handling even ultra-high power cutting up to 40kW.

Incorporating exclusive technologies like the Han's HF Series 5-second perforation, rapid and steady thick plate piercing, low-pressure cutting, and mirror-edge finishing. These advanced features set it apart from common laser companies that only assemble machines. They are not true manufacturers like Han's Laser.

The **BF Series**, ultra large format, fiber laser cutting machines are a new product line developed by Han's Laser. An ingenious way to have large plate cutting capability with the smallest possible footprint. Furthermore, you still retain production effective when cutting two smaller plates that fit end on end on the bed. In this scenario, one plate is being cut safely at one end of the bed, while the other end is being unloaded. While dual plate cutting, safety is maintained by the fully enclosed sheetmetal cabinet around the cutting head and the light curtain barrier on the forward and back side of the cabinet. The machine will stop should an object break the light curtain.

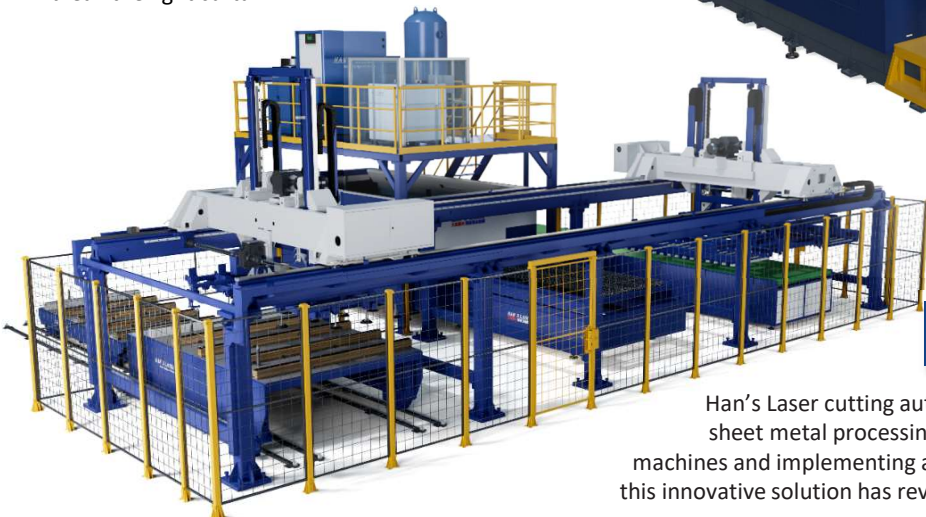


Sample cuts



Automation Production Line

Han's Laser cutting automatic production line is a significant advancement in the sheet metal processing industry. By seamlessly connecting multiple laser cutting machines and implementing a comprehensive automatic loading and unloading system, this innovative solution has revolutionised productivity, precision, and cost effectiveness.





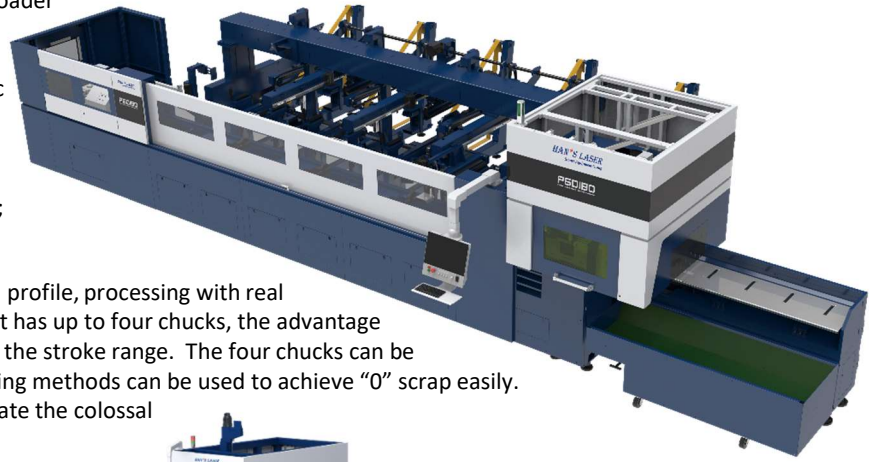
LASER CUTTING MACHINES

Tube Fibre Lasers



The **PD Series** is the Han's Laser flagship production tube cutting system. Standard equipment is the cradle bunker automatic loading. By loading a bundle of steel into the cradle the loader will automatically space each bar on the conveyor and measure the length of each bar. One key Han's Laser development on the PD series is the patented pneumatic 4-jaw chuck. This patented design uses a cam action to close the chuck, so the pneumatic rams do not rotate with the chuck. With no need for a rotatory air seal, the PD series chuck has very low maintenance requirements; perfect for long production runs.

The **TT Series** is the perfect tube cutting laser for small batch production. Most customers opt for the semi-automatic loader. The semi-automatic loader allows up to 5 bars to be placed onto the chain loading conveyor. Mounting the semi-automatic loader to the front of the machine allows for one-off or single heavy bars to be loaded manually from the rear of the machine. The Latest TT series machine can now be upgrade to have a third chuck system to support the offcut like a tailstock would on a lathe.



The **PX Series** tube cutter is fantastic for heavy tubes and profile, processing with real "0" leftover and with a maximum load of 1500KG. Plus, it has up to four chucks, the advantage here is that the material can be placed in any area within the stroke range. The four chucks can be used to change direction of cutting, and a variety of holding methods can be used to achieve "0" scrap easily. You need to stand next to a Han's PX machine to appreciate the colossal size and rigidity of this series.



Sample cuts



Modular Design Flexible Combinations

Flexible Loading & Unloading Options

Thanks to its modular design the user can freely choose the loading and unloading system according to their needs.

Loading System Options

Manual loading - Pneumatic supports rise to hold the material while the inching function allows the operator to position the clamping chuck.

Semi-Automatic Loading - The HAN'S patented semi-automatic loading system can join seamlessly to the Plus 1 machine. It has a unique non-slide or tube rotation feeding table that avoids surface scratching of the profile. This is the perfect loading system for individual or batch production.

Fully-Automatic Loading - The HAN'S patented limit switch with hook-push device on their fully-automatic loader, achieves more unmanned loading success. The unit can hold a bundle of material up to 3 tons.

Unloading System Options

2M Fixed Unloading

An economical and practical system for specific profiles.

2.5m or 4m Floating unloading table - The unloading table moves up and down (Floats) automatically to follow the profile shape as it rotates. This supports the profile, eliminating stoop, as the workpiece is fed out.



Laser Head Options

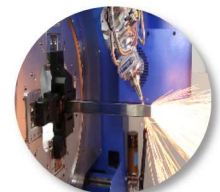
HAN'S Laser Heads are automatic focusing. Excellent optical performance and very stable. They are well sealed with dust-proof class IP6, protecting the internal optics from the harsh exterior environment. They are easy to maintain with drawer type design for quick and easy protection window replacement.



Standard laser cutting head



Tip nozzle cutting head



Bevel cutting head

WORKSHOP ESSENTIALS



CARIF is an Italian bandsaw manufacturer which has engineered saws since 1948. The range includes semi automatic and fully automatic CNC controlled metal cutting horizontal bandsaw machines. CARIF's patented down feed and pressure relief system is the hallmark of their success. It's utilised across all machines in the CARIF family. Being able to set the cutting pressure is critical for blade preservation. The reliability and accuracy of these machines will leave you thinking why you didn't purchase a CARIF machine years ago.

CARIF Semi Automatic Bandsaws

CARIF semi-automatic bandsaws feature a swivel bow. The operator can effortlessly rotate the bow to mitre cut either left or right. No need to double handle the material; cut one mitre end, push the material through, swivel the bow to the other mitre direction and cut.

CARIF Automatic Bandsaws

CARIF produces two fully automatic models at 320mm & 450mm cutting widths. The saws automatically feed the material with two hydraulic hitch feed vices. Two vertical devices are standard. These allow bundle cutting.

2m conveyor tables and extra blades are available



COLDCUT SAWS & DOUBLE MITRE BANDSAW

MACC metal cutting coldsaws are available in three different variants: manual, semi-automatic and vertical semi-automatic. A MACC saw will cut most materials including steel, stainless steel and non-ferrous metals. Every coldsaw complete with a blade, and coolant system.

An optional stand is also available.



The MACC SPECIAL 650DI is a heavy-duty, high-quality double mitre horizontal bandsaw with hydraulic vice and variable blade rotation speed. It is a semi automatic machine with a swivel head that enables 0 to 60° cuts in both directions. MACC is Italian made so you will be guaranteed quality. Comes complete with blade.

2m conveyor tables and extra blades are available



DRILLING, MILLING MACHINES & BELT GRINDERS

Linmac Machinery Inc. was established in 1979, exporting Taiwanese made milling machines and inverter variable speed drilling machines. Linmac drilling & milling machines have proven reliability unmatched by others. Bringing quality and premium machines with leading technology to our customers.

Turret Milling Machines:

- Knee Type
- Bed Type

Drilling Machines:

- Ø35mm, MT3
- Ø40mm, MT4
- Ø50mm, MT4



SCANTOOL belt grinders are market leaders in more than 45 countries worldwide. Their products reduce grinding time by half compared to traditional grinding wheels. In addition, you get very low noise level, adjustable tool rest, eye shield and adjustable working position. SCANTOOL meets all safety regulations with motor brake, no-volt release and emergency stop. The optional CYCLONE dust extraction is also available for all models and recommended for a healthy low-dust working environment.



DURMA

TODAY, TOMORROW, FOREVER



DURMA CNC Press Brakes - A CNC Press Brake improves beam positioning accuracy to $\pm 0.01\text{mm}$. (Conventional machines are only $\pm 0.1\text{mm}$). They also have independent control of each hydraulic cylinder. This allows the beam to be tilted if required (max 10mm) but more importantly allows you to compensate the machine when pressing off centre. DURMA manufactures four series of CNC Press Brakes.

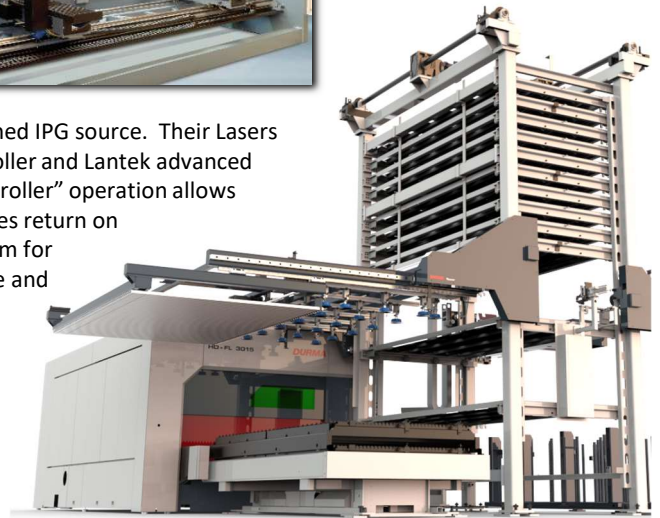
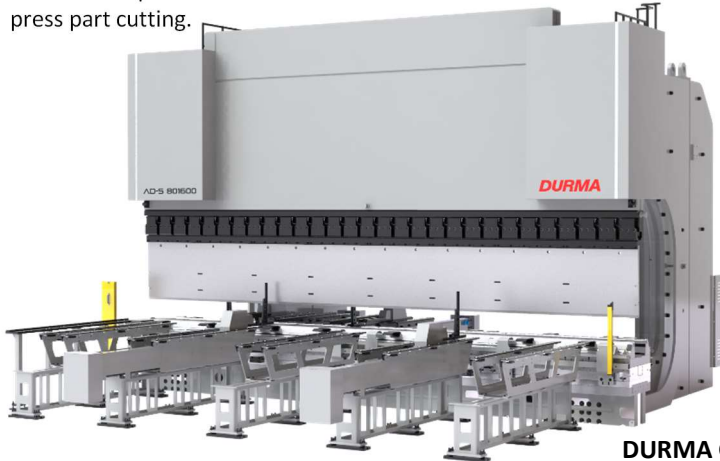
6-Axis X1, X2, R1, R2, Z1, Z2 Servo Back Gauge

The most important feature to achieve perfect bending is the design of the back gauge. DURMA's impeccable high speed ballscrew 6-axis solution X1, X2, R1, R2, Z1, Z2 is the choice for production factories where complex 3D parts or tapered folding are required.



DURMA Fiber Lasers

DURMA only uses the German made Precitec cutting head and the world renowned IPG source. Their Lasers are always supplied as a turn-key package including Siemens touch screen controller and Lantek advanced nesting software for your PC. Option for a second Lantek licence for "on the controller" operation allows editing to nests at the machine without returning to the drawing office. Maximises return on your investment with the optional 10 shelf tower storage with load/unload system for unmanned operation. DURMA also offer 5 axis head movement for beveling tube and press part cutting.



DURMA Giant Series Press Brakes

DURMA's engineering scope virtually means no limit to the size for your Press Brake. Incorporating the superior laminated frame design significantly improves frame strength and reduces frame distortion under the highest conceivable loads.

The DURMA swing beam is constructed with a very rigid box beam with a low blade rake angle to optimise cut quality and minimise distortion of the offcut. The beam pivots on large spherical roller bearings, mounted on the rigid steel plate frame, designed to withstand the loads of continuous cutting at maximum capacity. This system is regarded as the ultimate for accuracy, reliability and performance.

DURMA Guillotines



DURMA Plate Rolling Machines

DURMA plate rolls produce extremely high torque therefore you can bend the plate with fewer steps. The DURMA strong machine frame allows conical bending capacities of 1.5 times the top roll diameter. Most other machines in the market can only achieve 3 times the top roll diameter.



DURMA DT15

15" touch screen, 2D color graphics, Linux operating system, Perfect for first time CNC users



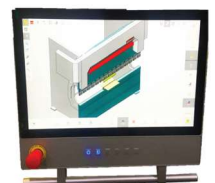
DELEM DA 66T

17" high resolution colour TFT 2D graphical touch screen programming mode

DELEM DA 69S

24" high resolution colour TFT 3D and 2D graphical touch screen Screen programming mode 3D visualisation

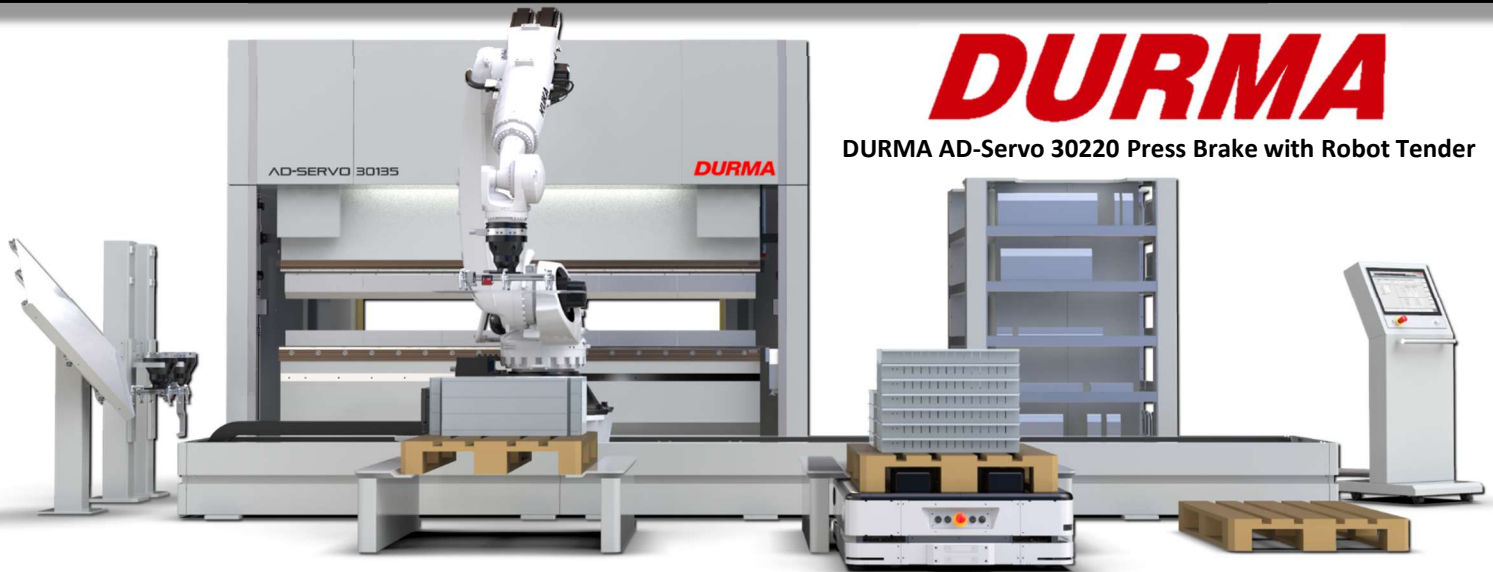
Press Brake Control Options



SKY 22

21.5" TFT color touch screen Automatic bending order Archiving user bendings 2D/3D colour graphics display Windows 10 operating system

ROBOTIC AUTOMATION



DURMA

DURMA AD-Servo 30220 Press Brake with Robot Tender

Benefits of Robotic Press Brake Tender for Sheet Metal Automation

LERO Innovation has partnered with ESTUN Robotics as well as DURMA to offer turn-key press brake loading robotic systems ideal to the New Zealand environment. These economical, flexible systems dramatically reduce the setup time of the robot, hence small batch production is feasible. The benefits also include:

- Throughput/Yield

An automated system delivers consistent output and can offer unattended production that will enhance throughput, running through lunch, breaks and off-hours or at night.

- High Quality

Automation can increase the quality of all aspects of your process. Dropped, miss-loaded, miss-processed, returned, and scratched product can be eliminated.

- Process & Quality Control

Automation can improve the control of a process. This will reduce product variation, so all the parts are the same, all the time. This method can also increase the quality of all aspects of your process. Damage and scratching to plate surfaces can be eliminated.

- Utilizing Available Talent

Everyone knows the unfortunate reality: Experienced press brake operators are tough to find. The idea behind flexible bending automation is to make best use of the bending talent fabricators have and put them to use in other lucrative earning areas.

- Worker Safety

Robots don't fatigue, incur injuries, or file workers accident claims. Operators often work with their hands and arms over their heads (to prevent back-bending of parts) and as such are subject to greater injury and strain.



ESTUN ROBOTICS



PIPE & TUBE BENDING MACHINES

PEDRAZZOLI BENDMASTER series tube benders are highly productive multi-radius machines, that can make both fixed radius bends and variable radii bends. They can make mandrel bends and compression bends. The machines are specifically designed for fast tooling changeover and reduces to an absolute minimum the time lapse between one production batch and the following. At the heart of the new generation all electric Pedrazzoli tube benders is the FANUC electric system, which includes the CNC processor, the servo motors, the servo amplifiers and the connection cables.

The user interacts with the IMS software, developed by Pedrazzoli IBP Spa. Featuring three-dimensional graphic programming via the touchscreen interface. Create, edit and execution new programmes in minutes, with data keyed directly on the machine interface or imported from CAD drawings. The IMS software can also connect to measuring systems.



PEDRAZZOLI



Ercolina's comprehensive product line includes portable, manual and fully automated rotary draw tube & pipe bending machines, NC & CNC tube and pipe mandrel benders, angle rolls, section benders, tube & pipe notchers and ornamental metalworking machinery. Ercolina machines are precise and reliable, built in Italy with high quality European materials.

Mandrel Benders

Rotary Draw Benders

Ring Rollers



TB100 Top Bender

100 x 3.6mm tube capacity
3½" pipe (5.74mm wall)
capacity

TB050T Top Bender

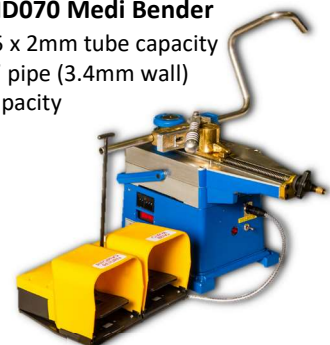
60 x 3mm tube capacity
2" pipe (3mm wall)
capacity

MB42 Medi Bender

42 x 3mm tube capacity
1½" pipe (3.56mm wall)
capacity

MD070 Medi Bender

35 x 2mm tube capacity
1" pipe (3.4mm wall)
capacity



TB130 Top Bender

114.3 x 5.6mm tube capacity
4" pipe (8.56mm wall)
capacity

**Hand-held
Jolly Bender**

22 x 1.5mm tube
capacity (dep. on
material)



TOOLS TO IMPROVE PRODUCTION

Quality European Press Brake Tooling

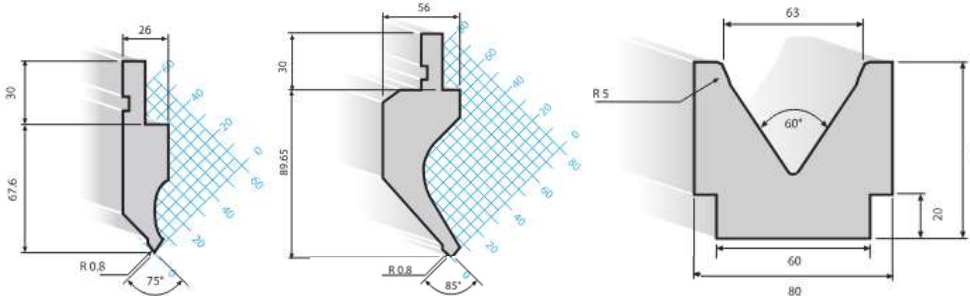
EURAM



LERO Innovation have a wide range of top & bottom tooling sizes available, including radius bar & hemming tools. The EURAM tooling is induction hardened and ground on the working surfaces.

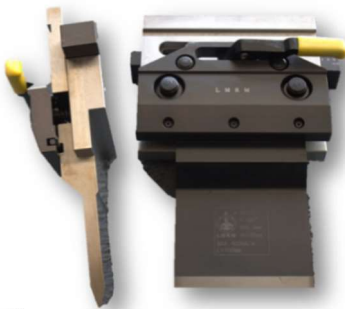
Standard length: 835mm; 415mm; 835 sectioned. Special top tooling & multi 'Vee' blocks can be made to order.

Feel free to call us on **09 274 6186** to discuss your Press Brake bending requirements.



Quick Release Clamps

Upgrade any Press Brake with EURO tooling to quick Roller Cam Clamping. Clamps have a unique two stage lever to save setup time.



Heavy Duty Press Brake Storage Cabinet

Storing 835mm Press Brake tooling segments safe from dust & damage. Encourages staff to return all segments before grabbing more & has 6 drawers on heavy duty runners.



Press Brake Film

Made of strong polyurethane, die film provides high friction resistance, minimizing marking when folding. The film can be used over & over. Width options 110mm or 150mm, each roll contains 30m.

Punches & Dies

If you want to get the job done right, you need the right tools. The American Punch Company manufactures high quality Punches & Dies for a wide range of Ironworkers.



LERO INNOVATION TEAM

Our commitment to excellence extends beyond just providing top-notch products; it encompasses delivering exceptional, professional service and support throughout our entire customer's journey. Our technicians offer comprehensive installation and commissioning services for all machines sold, along with thorough training to empower our users to operate their new equipment confidently and efficiently. Additionally, we offer both one-time and routine maintenance services to guarantee uninterrupted, smooth machine operation. Whether you require product information, scheduled servicing or urgent assistance, our LERO Innovation team members are always prepared to assist you promptly and effectively.

