PRODUCT RANGE

LVD

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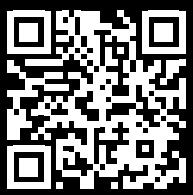
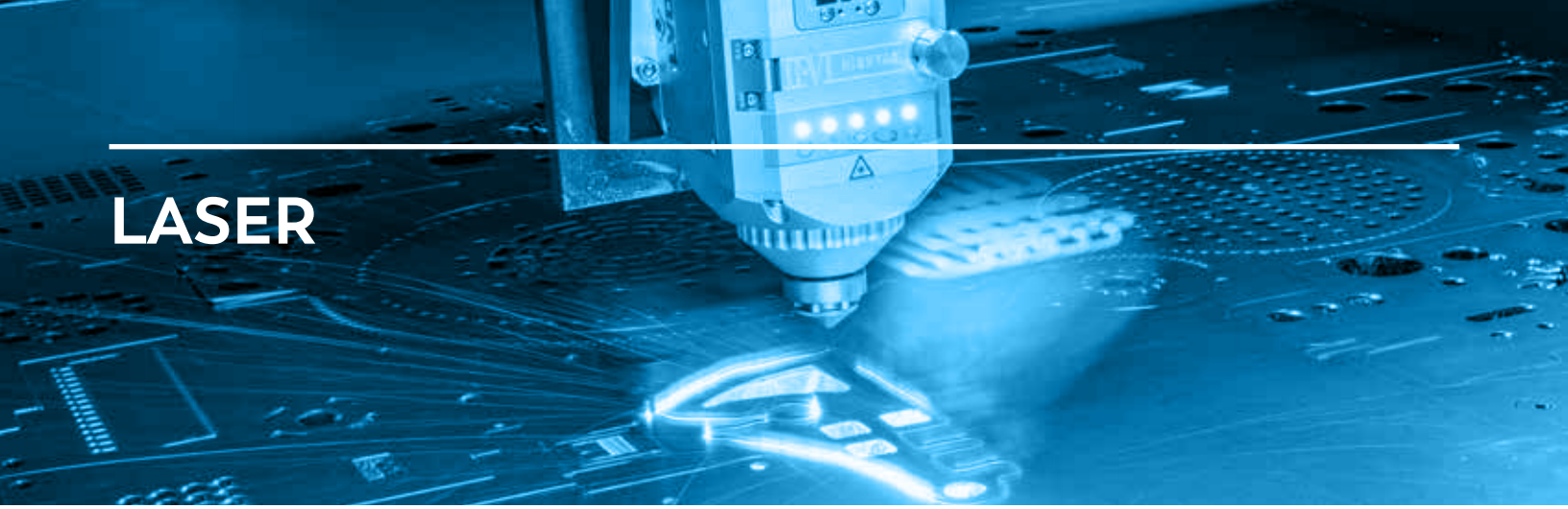


LVD PRODUCT RANGE

SHEET METALWORKING,
OUR PASSION,
YOUR SOLUTION

LVDGROUP.COM



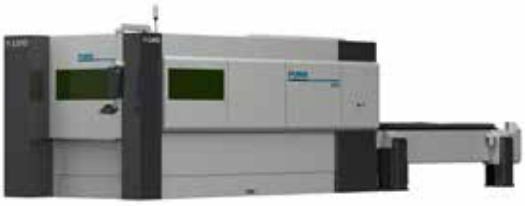
LASER

Phoenix FL

Dynamic fiber laser cutting system is the perfect all-around performer.

- Processes a wide range of ferrous and non-ferrous materials
- High wall plug efficiency of laser source up to 40%
- 4, 6, 10, 12 or 20 kW laser source
- Sheet size formats: 120" x 60" (3050 x 1525 mm), 160" x 80" (4065 x 2035 mm), 240 x 80" (6160 x 2035 mm), 256" x 102" (6510 x 2600 mm) (bevel head option)

Puma



Total solution for cost-effective laser cutting.

- Processes a wide range of material types and thicknesses
- Automation-ready
- 3, 6 or 12 kW laser source
- Sheet size format: 120" x 60" (3050 x 1525 mm)

YSD LaserONE

The best of fiber laser technology without the extras.

- Ultra-practical fiber laser cutting
- 3 or 6 kW laser source
- Sheet size format: 120" x 60" (3050 x 1525 mm)
- Optional Load-Assist (load only)

Taurus

Large-format fiber laser cutting machine.

- Sheet width: 125" (3200 mm)
- 8, 10, 12 or 20 kW laser source
- Maximum cutting length (multiple sheets) straight cutting: 1649" (41,900 mm)/1633" (41,500 mm)
- Available with bevel head

Tube lasers

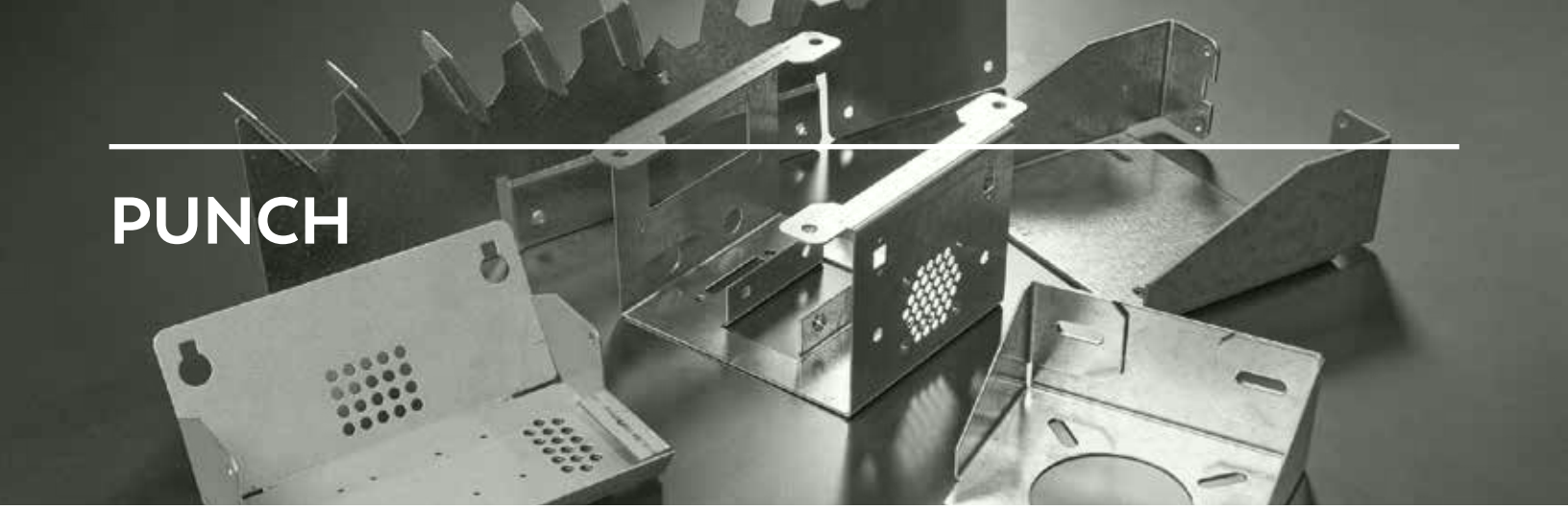
High-performance tube laser cutting machines.

- Front loader standard
- Compact design
- 3D offline programming with plug-ins for SolidWorks, Solid Edge and Inventor
- Models/tube length: TL 8525/8200 mm, TL 2665/7925 mm, TL 2450/7315 mm

MOVIT Automation solutions

Modular automation systems for peak efficiency.

- Load-Assist - LA: loading and loading/unloading
- Compact Tower - CT-L: loading, unloading and material/parts storage
- Flexible Automation - FA-L: advanced load/unload systems
- Tower Automation System - TAS: single or double-tower storage systems
- Warehouse Automation System - WAS: customizable storage towers



PUNCH

Strippit P

Cost-effective punch press suitable for cellular manufacturing and short production runs.

- Flexible 33-station turret
- Maximum hit rate: 300 hits/min on 1" (25.4 mm) and 650 hits/min on 0.04" (1 mm) centers
- Punching force: 20 ton; max. material thickness: 1/4" (6.35 mm)
- Sheet size formats: 49.21" x 49.21" (1250 x 1250 mm), 49.21" x 98.4" (1250 x 2500 mm), 60" x 98.4" (1525 x 2500 mm)

Strippit E

High-precision servo-electric punch press.

- Large turret capacity: 47 stations
- Maximum hit rate: 350 hits/min on 1" (25.4 mm) and 500 hits/min on 0.04" (1 mm) centers
- Punching force: 20 ton; max. material thickness: 1/4" (6.35 mm)
- Sheet size formats: 49.21" x 98.4" (3050 mm)

Strippit M

Large capacity and high-performance punch press, ideal for batch processing.

- Large turret capacity: 47 stations
- Maximum hit rate: 400 hits/min on 1" (25.4 mm) and 900 hits/min on 0.04" (1 mm) centers
- Punching force: 20 ton; max. material thickness: 1/4" (6.35 mm)
- Sheet size formats: 49.21" x 49.21" (1250 x 1250 mm), 49.21" x 98.4" (1250 x 2500 mm), 60" x 98.4" (1525 x 2500 mm)

Strippit V

Punch press suitable for high tonnage and high production punching needs.

- Large turret capacity: 48 stations
- Maximum hit rate: 440 hits/min on 1" (25.4 mm) and 900 hits/min on 0.04" (1 mm) centers
- Punching force: 30 ton; max. material thickness: 1/4" (6.35 mm)
- Sheet size formats: 49.21" x 98.4" (1250 x 2500 mm), 60" x 120" (1525 x 3050 mm), 60" x 196" (1525 x 5000 mm)

Strippit ST/VT

Rugged, reliable thin turret punch presses.

- Flexible thin turret (29 stations ST; 40 stations VT)
- Max. hit rate: ST: 360 HPM on 1" (25.4 mm); 900 HPM on 0.04" (1 mm) centers; VT: 440 HPM on 1" (25.4 mm); 1000 HPM on 0.04" (1 mm) centers
- Punching force: ST - 20 ton; VT - 30 ton; up to 1/4" (6.35 mm)
- Sheet size formats: ST: 49.21" x 49.21" (1250 x 1250 mm), 49.21" x 98.4" (1250 x 2500 mm); VT: 60" x 120" (1525 x 3050 mm)

Strippit VX

Highly flexible punching machine, expandable with indexable multitools.

- Large turret capacity: 48 stations
- Maximum hit rate: 530 hits/min on 1" (25.4 mm) and 920 hits/min on 0.04" (1 mm) centers
- Punching force: 20 ton; max. material thickness: 1/4" (6.35 mm)
- Sheet size formats: 49.21" x 98.4" (1250 x 2500 mm), 60" x 120" (1525 x 3050 mm)

Strippit PX

Single-head punch press that can punch, form, tap and bend all on a single machine.

- 20 indexable tool stations, T-style compatible
- Maximum hit rate: 505 hits/min on 1" (25.4 mm) and 910 hits/min on 0.04" (1 mm) centers
- Punching force: 20 ton; max. material thickness: 1/4" (6.35 mm)
- Sheet size formats: 49.21" x 98.4" (1250 x 2500 mm), 60" x 120" (1525 x 3050 mm), 60" x 196" (1525 x 5000 mm)

Strippit PL - Punch Laser Combination

Punching advantages of the Strippit Series combined with the speed of fiber laser cutting.

- Available in turret (thick and thin) and single head technology
- 4 kW laser source
- Punching force: 20 ton for single head and 30 ton for turret punch press
- Sheet size format: 60" x 120" (1525 x 3050 mm), 60" x 200" (1525 x 5080 mm)

Extended Tool Magazine – ETM

Increased tooling capacity and automatic tool change.

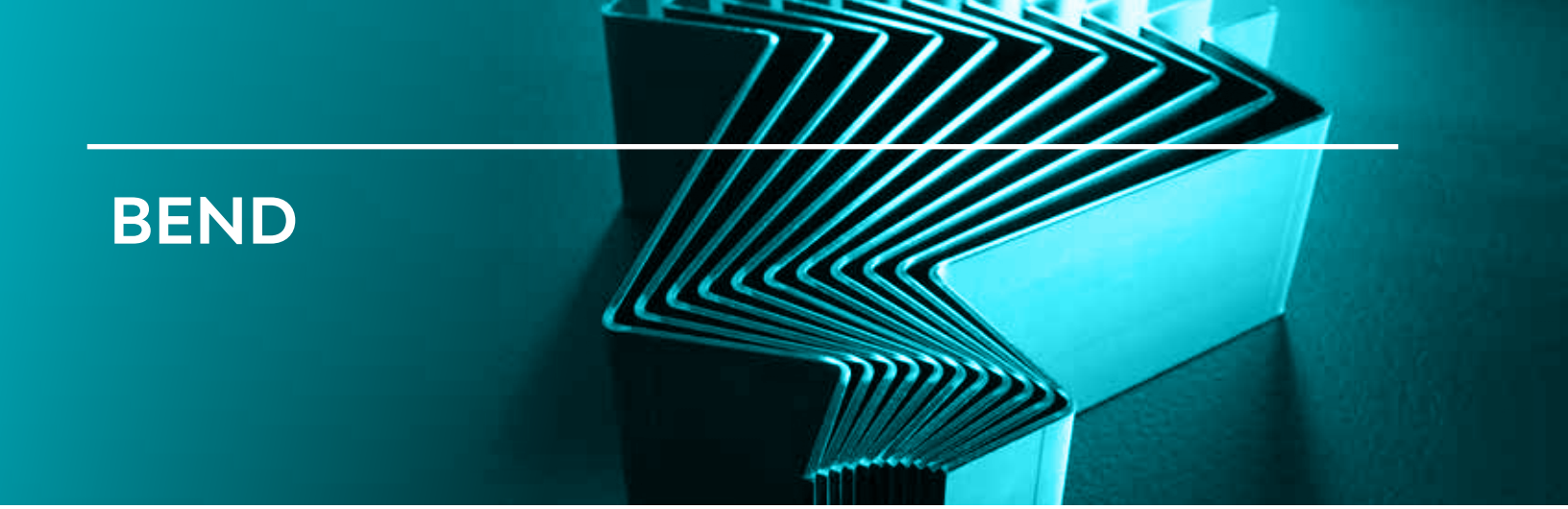
- 40 additional punch/die combinations
- Preload tools during operation
- Tool life monitoring
- Available for Strippit PX

MOVIT Automation solutions

Automation systems for maximum productivity and process reliability.

- Push Autoload - PA: loading/unloading
- Compact Tower – CT-P: loading, unloading and material/parts storage
- Flexible Automation – FA-P: advanced loading/unloading and part picking for PX models
- Tower Automation System – TAS: single or double-tower storage systems
- Warehouse Automation System – WAS: customizable storage towers

Products materialized by LVD touch your life in more ways than you can imagine.



BEND

Dyna-Press

Electric-drive press brake efficiently bends small parts at high speeds.

- 4-axis back gauge, Dyna-Press Pro 5-axis back gauge
- Bending speeds up to 59" per minute
- Bending capacities: 24 to 60 ton
- Bending lengths: 33" to 80" (835 to 2040 mm)
- Dyna-Press Pro available with Easy- Form® Laser

PPED

Practical and easy-to-use hydraulic press brake for general bending applications.

- 2- or 4-axis back gauge
- CNC crowning available
- Bending capacities: 55 to 350 ton
- Bending lengths: 78" to 157" (2000 to 4000 mm)

PPEB/Easy-Form®

High-precision hydraulic press brakes for demanding applications.

- 2-, 5- or 6-axis backgauge
- Turbo hydraulics for high speed bending
- Easy-Form® Laser adaptive bending system (Easy-Form series)
- CNC crowning available
- Bending capacities: 90 to 700 tons
- Bending lengths: 59" to 315" (1.5 to 8 m)

ToolCell

Full-featured hydraulic press brake with integrated automatic tool changing.

- Features Easy-Form® Laser adaptive bending system
- Bending capacities: 150 to 240 ton
- Bending lengths: 120" x 157" (3060 to 4080 mm)
- ToolCell Plus: fit for bending parts with high flanges

Tandem press brake

Coupled press brakes of similar or dissimilar tonnage for extra-long bending lengths.

- Tandem configuration
- Synchronized operation of machines via single CNC control
- Independent operation of each machine with separate control
- Custom configurations for Easy-Form and PPEB-H

PPEB-H

Configure-to-order press brake for L, XL and XXL special applications.

- Numerous configurable machine selections and automation options
- CNC crowning
- Turbo hydraulics for high-speed bending
- 400 ton x 13' (4 m) bending length to 3000 ton x 46' (14 m)

Press brake tooling

High-precision press brake tooling for standard and custom applications.

- Progressive STONE radius on V-dies
- Inductive hardened up to a minimum of 56 HRc
- Standard and ToolCell-specific punches and dies, multi-V and adjustable dies; hemming tools
- Dies in Thyrotherm® for heavy-duty bending

Dyna-Cell

Fast and cost-efficient robotic bending cell.

- Part sizes from 1.1" x 3.9" (30 x 100 mm) up to 23.5" x 15.75" (600 x 400 mm)
- Universal auto-fit gripper engineered by LVD
- Autonomous or manual production
- CADMAN-SIM intelligent programming wizard – no robot teaching required

Ulti-Form

The ultimate bending system.

- ToolCell-inspired automated tool changer press brake
- Part sizes from 1.9" x 3.9" (50 x 100 mm) up to 47.2" x 31.4" (1200 x 800 mm)
- Universal auto-fit gripper engineered by LVD
- Autonomous or manual production
- CADMAN-SIM intelligent programming wizard – no robot teaching required

Configurable automated bending cell

Customizable automated production for LVD press brakes.

- Collaboration with LVD Robotic Solutions (LRS)
- Collaboration with other leading robot integrators
- Compatible with automation systems and warehouses
- Solutions for sheet metal and other industrial applications

Synchro-Form

Award-winning adaptive bending technology for XXL profiles.

- Efficient and accurate bending of XXL profiles
- Automatic part positioning and manipulation
- Angle measurement and compensation avoid accumulated error
- 400 ton x 13' (4 m) bending length to 3000 ton x 46' (14 m)

CS shear

Reliable and cost-competitive shearing equipment for general shearing applications.

- Motorized adjustment of cutting angle
- Blades with four cutting edges
- Standard blade suitable for mild and stainless steel
- Sheet thickness/cutting length: 0.250" (6.35 mm)/122" (3100 mm), 0.250" (6.35 mm)/157" (4000 mm), 0.510" (13 mm)/122" (3100 mm)

MVS & HGS shears

Highly flexible shearing machines for virtually all shearing needs.

- Motorized adjustment of blade clearance and cutting angle
- Blades with four cutting edges
- Large throat gap permits overlap cutting
- Sheet thickness/cutting length: 0.250" (6.35 mm)/122" (3100 mm) to 1.18" (30 mm)/244" (6200 mm)

INTEGRATE

Touch controls

LVD's Touch controls for laser cutting, punching and bending machines provide an easy-to-use interface for all operators.

- Intuitive touch screen control
- Minimizes operator input
- Makes setup fast and efficient
- Works with centralized CADMAN® database

CADMAN-SDI

Smart Drawing Importer allows fast CAD file import and efficient calculation of cost drivers.

- Imports CAD files per part, per batch or in watch mode
- All cost drivers are visible at a glance and can be exported
- BricsCAD® 3D direct modeling CAD package
- Laser cutting, punching and bending time estimation
- Connection to ERP with XML communication

CADMAN-B

Achieves the correct unfolding first time and easily creates complex bending programs.

- Determines the optimal bend sequence, tooling, tool and gauge positions
- Processes all standard 3D CAD models (SAT, STEP, IGES, etc.)
- Seamlessly links to CADMAN-L or P for the creation of 2D-nesting and laser cutting or punching programs
- Calculates bending solutions per part, per batch or fully automatically in watch mode

CADMAN-SIM

Automated programming software for press brake, robot and gripper.

- Automatic calculation of bending solution, collision-free robot path and part handling in less than 10 minutes
- Simulation of the complete part production
- No robot teaching required
- Complete “art to part” in under 20 minutes

CADMAN-P/L

Uses the full potential of LVD laser cutting and punching machines.

- Drag-and-drop importation of files
- Simulation of laser cutting (L) and punching process (P)
- Intelligent functions such as optimized sheet utilization, fly-cut, remnant creation, collision avoidance (L)
- Tool expert to define punch and forming functions (P)
- Report module with time and cost calculation

CADMAN-JOB

Examines in real-time every order and filters and bundles orders for a minimized setup.

- Connects the central database, ERP system, CAM and workshop
- Generates, classifies and groups jobs for all sheet metal fabrication operations
- Provides all relevant production information for reverse calculations
- Visualizes foreign operations such as tapping and deburring

Touch-i4

Powerful tablet collects real-time information and helps the operator sort and validate parts.

- KPI (Key Performance Indicators) history indication
- Future workload overview per work center
- Sort & Validate mode, location assignment according to production order
- Option to CADMAN-JOB