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# PRODUCT RANGE

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# LVD PRODUCT RANGE

**SHEET METALWORKING,  
OUR PASSION,  
YOUR SOLUTION**

[LVDGROUP.COM](http://LVDGROUP.COM)

# LASER

## Phoenix FL



**Dynamic fiber laser cutting system is the perfect all-round 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: 3050 x 1525 mm, 4065 x 2035 mm, 6160 x 2035 mm
- Phoenix FL-6525: 6400 x 2500 mm (straight cutting) - 6100 x 2000 mm (bevel cutting, bevel head optional)

## 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 formats: 3050 x 1525 mm, 4065 x 2035 mm, 6160 x 2035 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: 3050 x 1525 mm
- optional Load-Assist automation (load only)

## Taurus



### Large-format fiber laser cutting machine

- sheet width: 3200 mm
- 10, 12 or 20 kW laser source
- maximum cutting length (multiple sheets)  
straight cutting: 41,900 mm/bevel cutting: 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

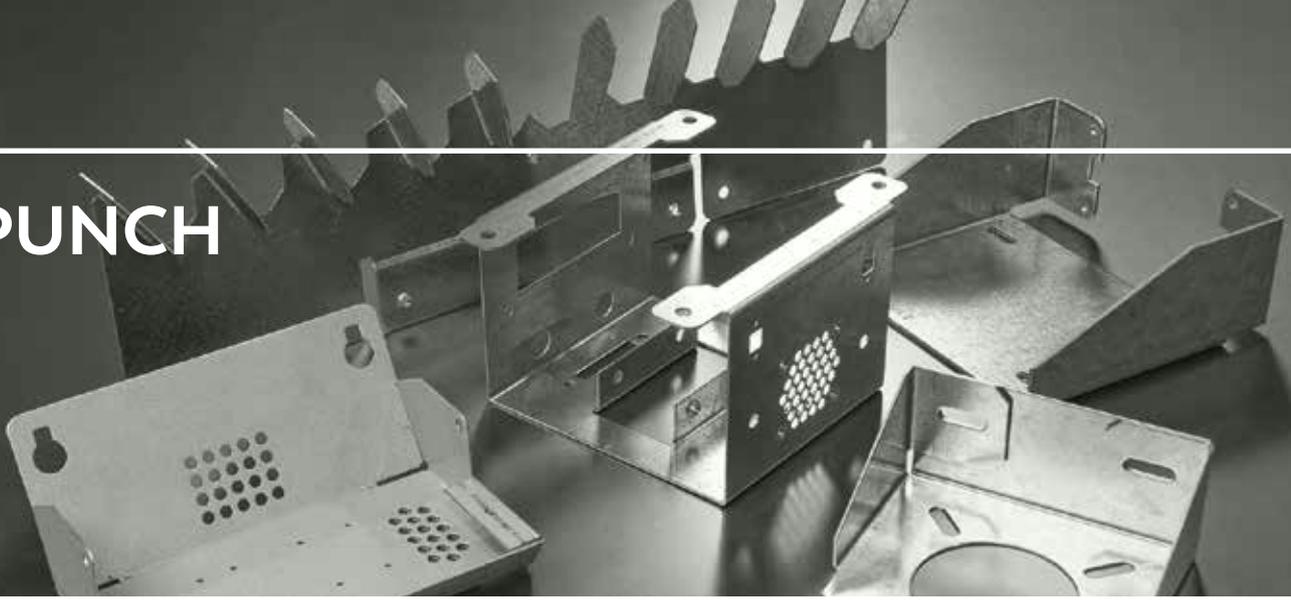
## MOVit Automation solutions



### Modular automation systems for peak efficiency

- LA - Load-Assist: loading and loading/unloading
- CT-L - Compact Tower: loading, unloading and material/parts storage
- FA-L - Flexible Automation: advanced load/unload systems
- TAS - Tower Automation System: single or double-tower storage systems
- WAS - Warehouse Automation System: customisable 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 25.4 mm and 650 hits/min on 1 mm centers
- punching force: 20 ton; max. material thickness: 6.35 mm
- sheet size formats: 1250 x 1250 mm, 1250 x 2500 mm, 1525 x 2500 mm

## Strippit E



High-precision servo-electric punch press

- large turret capacity: 47 stations
- maximum hit rate: 350 hits/min on 25.4 mm and 500 hits/min on 1 mm centers
- punching force: 20 ton; max. material thickness: 6.35 mm
- sheet size formats: 1250 x 2500 mm, 1525 x 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 25.4 mm and 900 hits/min on 1 mm centers
- punching force: 20 ton; max. material thickness: 6.35 mm
- sheet size formats: 1250 x 1250 mm, 1250 x 2500 mm, 1525 x 3050 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 25.4 mm and 900 hits/min on 1 mm centers
- punching force: 30 ton; max. material thickness: 6.35 mm
- sheet size formats: 1250 x 2500 mm, 1525 x 3050 mm, 1525 x 5000 mm

## Strippit VX



Highly flexible punching machine, expandable with indexable multitools

- large turret capacity: 48 stations
- maximum hit rate: 530 hits/min on 25.4 mm and 920 hits/min on 1 mm centers
- punching force: 20 ton; max. material thickness: 6.35 mm
- sheet size formats: 1250 x 2500 mm, 1525 x 3050 mm

## Strippit PX



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

- 20 indexable tool stations, T-style compatible
- maximum hit rate: 505 hits/min on 25.4 mm and 910 hits/min on 1 mm centers
- punching force: 20 ton; max. material thickness: 6.35 mm
- sheet size formats: 1250 x 2500 mm, 1525 x 3050 mm, 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 both turret and single-head technology
- 3 kW laser source – 4 kW optional
- punching force: 20 ton for single head and 30 ton for turret punch press
- sheet size format: 1525 x 3050 mm

## ETM - Extended Tool Magazine

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### 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

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### Automation systems for maximum productivity and process reliability

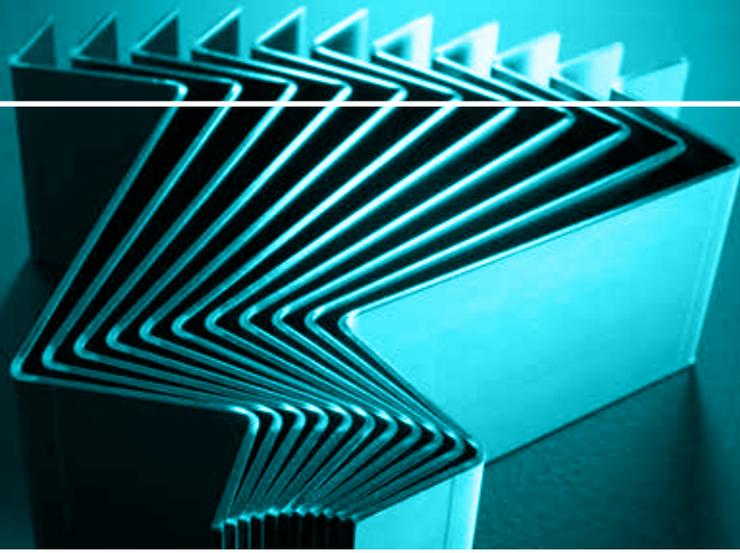
- PA - Push Autoload: loading/unloading
- CT-P - Compact Tower: loading, unloading and material/parts storage
- FA-P - Flexible Automation: advanced loading/unloading and part picking for PX models
- TAS - Tower Automation System: single or double-tower storage systems
- WAS - Warehouse Automation System: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



**Products  
materialised 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 25 mm per second
- bending capacities: 24 to 60 ton
- bending lengths: 1250 to 2040 mm
- Dyna-Press Pro available with Easy-Form<sup>®</sup> 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: 50 to 320 ton
- bending lengths: 2000 to 4000 mm

## PPEB/Easy-Form<sup>®</sup>



### High-precision hydraulic press brakes for demanding applications

- 2-, 5- or 6-axis backgauge
- turbo hydraulics for high speed bending
- Easy-Form<sup>®</sup> Laser adaptive bending system (Easy-Form series)
- CNC crowning available
- bending capacities: 80 to 640 ton
- bending lengths: 1500 to 8000 mm

## ToolCell



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

- Easy-Form® Laser adaptive bending system
- bending capacities: 135 to 220 ton
- bending lengths: 3060 to 4080 mm
- ToolCell Plus: fit for higher tonnages per meter

## Tandem press brake



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

- tandem configuration
- synchronised 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 4000 mm bending length to 3000 ton x 14000 mm

## 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 4000 mm bending length to 3000 ton x 14000 mm

## D-Cell 50/20



### Most competitively-priced robotic bending cell for general bending applications

- hydraulic PPED 50/20 press brake
- parts from 100 x 35 mm up to 600 x 400 mm, weighing up to 4 kg
- universal auto-fit gripper engineered by LVD
- keeps cost per part as low as possible

## Dyna-Cell 40/15



### Fast and cost-efficient robotic bending cell

- electric-drive Dyna-Press Pro 40/15 press brake
- parts from 100 x 35 mm up to 600 x 400 mm, weighing up to 4 kg
- universal auto-fit gripper engineered by LVD
- available with Easy-Form® Laser adaptive bending system

## Easy-Cell 80/25



### Flexible and highly accurate robotic bending cell

- hydraulic Easy-Form 80/25 press brake
- parts from 100 x 100 mm up to 1600 x 1200 mm, weighing up to 25 kg
- multiple grippers, easy to change manually
- Easy-Form® Laser adaptive bending system

## Ulti-Form 135/30



### Unique bending system delivering high productivity in a compact space

- 135-ton 3-meter automated tool changing press brake
- parts from 100 x 100 mm up to 1200 x 800 mm, weighing up to 25 kg
- universal auto-fit gripper engineered by LVD
- large output zone with pallet dispenser and conveyor system

## Ulti-Form 220/40



### Maximally automated bending cell

- 220-ton 4-meter automated tool changing press brake
- parts from 300 x 200 up to 3000 x 1250 mm, weighing up to 75 kg
- automatic gripper change of up to 5 grippers
- robot on track for handling large workpieces
- preloading and part centering during bending

## 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

## CS shear



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

- motorised adjustment of cutting angle
- blades with four cutting edges
- standard blade suitable for mild and stainless steel
- sheet thickness/cutting length: 6.35 mm/3100 mm, 6.35 mm/4000 mm, 13 mm/3100 mm

## MVS & HGS shears



### Highly flexible shearing machines for virtually all shearing needs

- motorised adjustment of blade clearance and cutting angle
- blades with four cutting edges
- large throat gap permits overlap cutting
- sheet thickness/cutting length: 6.35 mm/3100 mm to 30 mm/6200 mm

# INTEGRATE



## CADMAN-FLOW



**Connects all CADMAN® software modules, improving process flow**

- single point of entry to the complete software suite
- API for importing parts and production orders
- automates your part programming workflow
- provides real-time machine status
- enables to intuitively browse parts and their bend solutions

## CADMAN-SDI



**Smart Drawing Importer**

- imports CAD-files per part, per batch or in watch mode in over 40 file types
- visualises all cost drivers ready for export
- repairs parts with BricsCAD®
- checks feasibility and estimates time for laser cutting, punching and bending
- connects to ERP with XML communication

## CADMAN-B



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

- determines the optimal bend sequence, tool and backgauge setup
- optimises tool setup across different parts: part sequence, tooling type and setup
- seamlessly links to CADMAN-L or P for the creation of a nesting and laser cutting or punching programs
- calculates bending solutions per part, per batch or in watch mode

## CADMAN-SIM



### Smart programming software for LVD's robotised bending cells

- automatically programs press brake, robot and gripper
- calculates bending solution, collision-free robot path and part handling
- simulates the complete part production
- no in-depth robot knowledge or robot teaching required

## CADMAN-P/L



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

- enables file importation through simple drag and drop
- simulates laser cutting (L) and punching process (P)
- smart features: optimised sheet utilisation, fly-cut, remnant creation, collision avoidance (L)
- tool expert defines punch and forming functions (P)
- includes report module for time and cost calculation

## CADMAN-JOB



### Examines, filters and bundles production orders for a minimised 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
- visualises 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