# PRODUCT RANGE

**LVD**

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# LVD PRODUCT RANGE

# SHEET METALWORKING,
# OUR PASSION,
# YOUR SOLUTION
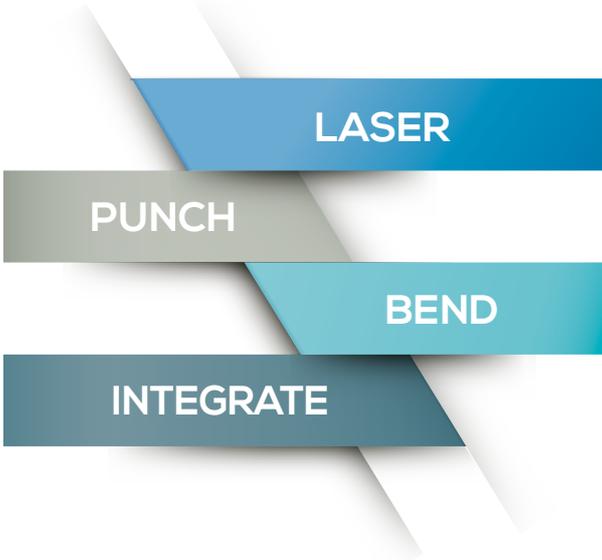
LASER

PUNCH

BEND

INTEGRATE

# LASER

## Electra FL

### High-end fiber laser system for ultra-high-speed cutting.

- Processes a wide range of ferrous and non-ferrous materials
- Fast 2G acceleration during cutting
- 6 or 8 kW laser source
- Sheet size format: 3000 x 1500 mm

## 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 %
- 3, 4 or 6 kW laser source, 8 kW only on 4020 - 6020
- Sheet size formats: 3000 x 1500 mm, 4000 x 2000 mm, 6000 x 2000 mm

## Lynx FL

### An ideal entry into the world of fiber laser cutting.

- Processes a wide range of ferrous and non-ferrous materials
- Automatic pallet changeover in just 35 seconds
- 2, 3 or 4 kW laser source
- Sheet size formats: 3000 x 1500 mm, 4000 x 2000 mm

# Impuls 12530

**Robust and powerful $CO_2$ laser cutting system for XL sheets.**

- Large table capacity for heavy-duty fabrication
- Fully programmable 280 mm Z-axis for cutting pre-formed parts
- 4 or 6 kW laser source
- Sheet size format: 12500 x 3000 mm

# TL 2665-FL & TL 2450-FL

**Tube laser cutting machines for high-volume production and high diversity.**

- 7-position magazine loader
- Automatic compensation
- 1 or 2 kW fiber laser source
- 7925 mm maximum tube length and 165 mm diameter

# Flexible Automation - FA-L

**High-speed automatic load/unload system keeps pace with today's fiber laser cutting machines.**

- Load/unload cycle completed within 40 seconds
- Maximum sheet thickness: 20 mm
- Sheet size formats: 1000 x 1000 mm to 3050 x 1525 mm
- Available for Electra FL and Phoenix FL

# Compact Tower - CT-L

**Automatic loading, unloading and storage of raw materials and finished parts for 4, 6 or 10 pallets.**

- Maximum sheet thickness: 25 mm
- Sheet size format: 3050 x 1525 mm
- Maximum pallet storage capacity: 3000 kg
- Available for Electra FL and Phoenix FL

# PUNCH

## Strippit PX

**Single-head punch press provides the ability to 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 mm and 1000 hits/min on 1 mm centers
- Punching force: 20 ton; maximum material thickness: 6,35 mm
- Sheet size formats: 1250 x 2500 mm, 1525 x 3050 mm

## Strippit VX

**Highly flexible punching machine with large turret capacity, expanded with indexable multitools.**

- Large turret capacity: 48 stations
- Maximum hit rate: 530 hits/min on 25 mm and 920 hits/min on 1 mm centers
- Punching force: 20 ton; maximum material thickness: 6,35 mm
- Sheet size formats: 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 mm and 900 hits/min on 1 mm centers
- Punching force: 30 ton; maximum material thickness: 6,35 mm
- Sheet size formats: 1250 x 2500 mm, 1525 x 3050 mm

LVD

# Strippit M

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

- Large turret capacity: 47 stations
- Maximum hit rate: 430 hits/min on 25 mm and 900 hits/min on 1 mm centers
- Punching force: 20 ton; maximum material thickness: 6,35 mm
- Sheet size formats: 1250 x 2500 mm, 1525 x 2500 mm

# 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 mm and 650 hits/min on 1 mm centers
- Punching force: 20 ton; maximum material thickness: 6,35 mm
- Sheet size formats: 1250 x 2500 mm, 1525 x 2500 mm

# Flexible Automation - FA-P

**Advanced load/unload and part picking system with large stacking area.**

- Stacks punched parts directly onto the allocated pallet
- Maximum material thickness: 4 mm
- Maximum sheet size: 1525 x 3050 mm
- Maximum load table: 3000 kg

# Compact Tower - CT-P

**Automatic loading, unloading and storage of raw materials and finished parts.**

- Creates flexible manufacturing cell
- Compact set up and convenient forklift manipulation
- 6- or 10-pallet configuration
- Sheet size formats: 1250 x 2500 mm, 1525 x 3050 mm

# BEND
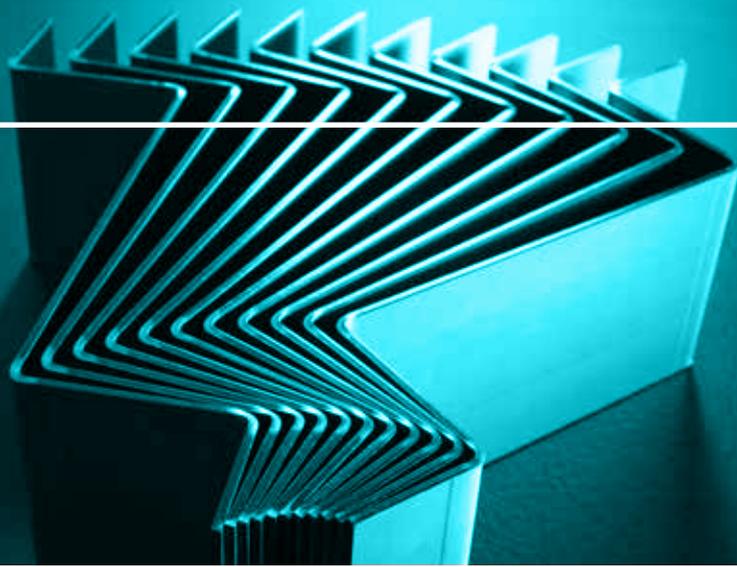
## ToolCell

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

- Features Easy-Form® Laser adaptive bending system
- All tools held within the footprint of the machine
- Bending capacities: 135 to 220 ton
- Bending lengths: 3060 to 4080 mm

## Easy-Form®

**The ultimate press brake featuring Easy-Form® Laser adaptive bending system.**

- 2-, 5- or 6-axis backgauge
- Turbo hydraulics for high speed bending
- Bending capacities: 80 to 640 ton
- Bending lengths: 1500 to 8000 mm

## PPEB

**High-precision, configure-to-order hydraulic press brake for demanding applications.**

- CNC crowning standard for models over 2 m
- 2-, 5- or 6-axis back gauge
- Bending capacities: 50 to 640 ton
- Bending lengths: 1500 to 8000 mm

# PPED

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

- 2- or optional 4-axis backgauge
- CNC crowning (available on models over 80 tons)
- Bending capacities: 50 to 320 ton
- Bending lengths: 2000 to 4000 mm

# Dyna-Press

**Electric press brake efficiently bends small parts at high speeds.**

- X/R back gauge; 4-axis back gauge on Plus models
- Bending speeds up to 25 mm per second
- Bending capacities: 12 to 40 ton
- Bending lengths: 835 to 1530 mm

# Synchro-Form

**Hydraulic press brake featuring Synchro-Form adaptive bending system for large 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

# 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

# Tandem, tridem or quadem

**Combine PPEB-H press brakes of similar or dissimilar tonnage for extra-long bending lengths.**

- Tandem, tridem and quadem configurations
- Synchronised operation of machines via single CNC control
- Independent operation of each machine with separate control only for tandem
- Custom configurations from Easy-Form® and PPEB-H series

# 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

# MVS & HGS shears

**Highly flexible shearing machines for virtually all shearing needs.**

- Automatic calculation of blade clearance and cutting angle
- Blades for stainless steel, provided with four cutting edges
- Large throat gap permits overlap cutting
- Sheet thickness/cutting length: 6,35 mm/3100 mm to 20 mm/6200 mm

# CS shears

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

- Preselection of cutting length
- 1,5 m squaring arm
- Parallel-guided shearing using four cutting edges
- Sheet thickness/cutting length: 6,35 mm/3100 mm, 4000 mm and 13 mm/3100 mm

# SMART INDUSTRY

## THE CONNECTION BETWEEN PEOPLE AND TECHNOLOGY
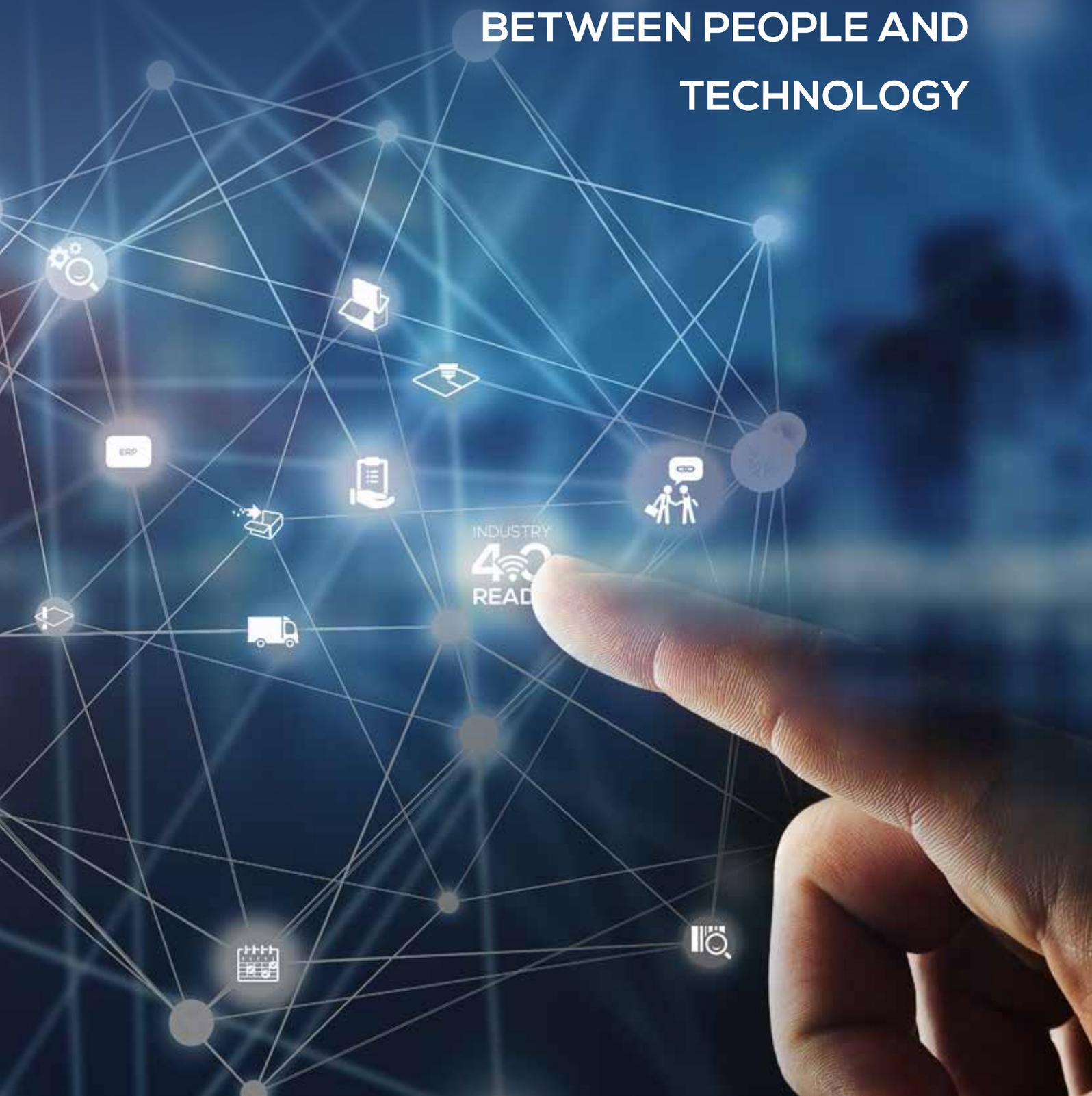
# INTEGRATE

## 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
- Minimises operator input
- Makes setup fast and efficient
- Works with centralised CADMAN® database

## CADMAN-SDI
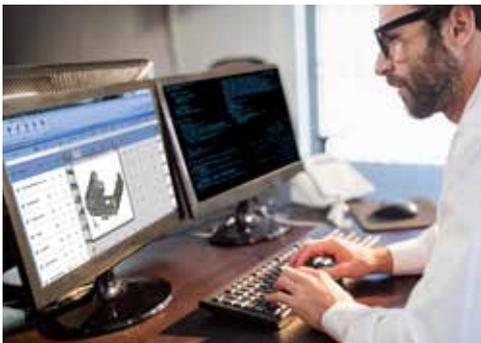
Smart Drawing Importer allows fast CAD file import and efficient calculation of cost drivers.

- Imports parts individually or in a batch
- All cost drivers are visible at a glance and can be exported
- BricsCAD® 3D direct modeling CAD package
- Available as a plug-in for SolidWorks

## CADMAN-L

Releases the full potential of the laser cutting machine: programming, including nesting and optimisation of cutting and machine parameters.

- Laser job management, on screen simulation of cutting sequence and beam path indication
- Optimised technology tables per machine
- Report module with time and cost calculation
- Intelligent functions such as optimisation for sheet utilisation, fly-cut, remnant creation

# CADMAN-P

**Provides a flexible, powerful and easy-to-use software to tackle punching needs.**

- Advanced nesting with optimisation of tool changes and sequencing
- Automated processes such as punch sequencing macros and clamp positioning
- Tool expert to define punch and nibbling functions
- On screen simulation of punching process and tool path

# 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, ...)
- Seamlessly links to CADMAN-L or CADMAN-P for 2D-part profiling
- Extended automatic batch processing ability - Solution Finding Service

# CADMAN-JOB

**Examines in real-time every order and filters and bundles orders for a minimised tool/turret setup.**

- Connects the central database, ERP system, CAM and jobshop
- Generates, classifies and groups jobs for laser cutting, punching and bending
- Provides all relevant production information for reverse calculations

# 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
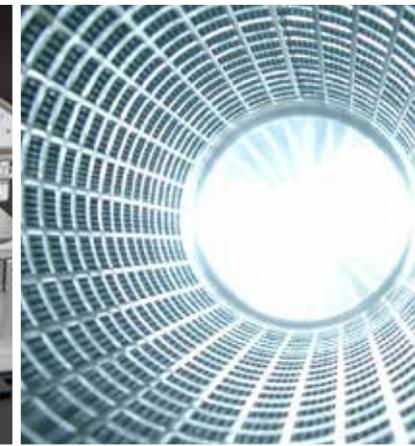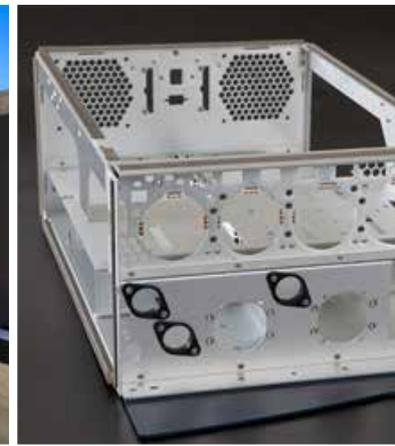
" **Products materialised by LVD touch your life in more ways than you can imagine.** "