



# ToolCell

PRESS BRAKE  
AUTOMATION SYSTEM

[www.lvdgroup.com](http://www.lvdgroup.com)

Sheet Metalworking, Our Passion, Your Solution



## YOUR CHALLENGE

- Changing press brake tooling more than six times a day
- Parts requiring complex or multiple bend stations
- Time lost due to incorrect positioning of tooling sets
- Time lost retrieving tools or searching for tools in use on other machines
- Diminished overall throughput

## OUR SOLUTION

- **Automated tool load/unload** while operator is preparing the next job
- **All tools precisely positioned** in the machine
- **No small adjustment** of tool sets required
- **Large library of tools** held within the ToolCell ensures maximum flexibility

## RESULT

- **Increased productivity and throughput**

# TOOLCELL Press Brake Automation Redefined

Reducing press brake set up is a universal challenge. No matter the size or complexity of the bending application, tool setup time is the most significant bottleneck to bending productivity.

The trend toward reduced batch sizes and shortened lead times, as well as the need to reduce stock levels and manufacture the exact quantity drive the requirement to frequently change tools.

Optimizing tool setup is fundamental to improving bending productivity.



Large capacity tooling stadium maximizes tooling flexibility

## MAXIMIZES PRODUCTIVITY

Using ToolCell reduces unproductive time, optimizing bending operations throughout the day.

## TOOLING STADIUM

No more searching for the tools you need, a comprehensive selection of tools are held in the 'tooling stadium' within the machine. Configured to suite requirements, 2 complete lengths of self-seating top tooling (punches) and 5 complete lengths of bottom tooling (Vee dies) can be held within the machine. While your operator is preparing the parts for the next job the machine will automatically unload the previous tool set up and precisely load the next, ready for production.

## TOUCH-B 19" CONTROL

ToolCell features LVD's latest touch screen graphical user interface for fast, intuitive and efficient operation.

## EASY-FORM® ADAPTIVE BENDING SYSTEM

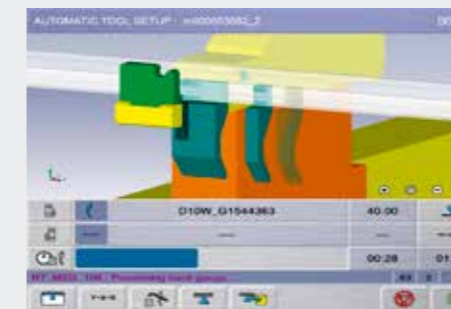
ToolCell is equipped with LVD's patented in process angle monitoring and correction system Easy-Form® on board to ensure that all your parts are formed perfectly from the first to last part.

## CADMAN-B OFFLINE PROGRAMMING

Parts can be programmed offline using LVD's CADMAN-B software programs and 3D-simulation files can be seamlessly transferred to the machine ready for production.

## KEY FEATURES

# Automatic Tool Loading & Unloading



## TOOLCELL

# Technical Specifications

TOOLCELL	135/30	220/30	220/40
Pressing force (kN)	1350	2200	2200
Pressure (bar)	290	285	285
Working length (mm)	3060	3060	4080
Distance between uprights (mm)	4000	4000	5000
Stroke (mm)	300	300	300
Distance table/ram (mm)	500	500	500
Table width (mm)	120	120	120
Working height (mm)	970	970	970
Approach speed (mm/sec)	180	120	120
Working speed (mm/sec)	22	21	21
Return speed (mm/sec)	200	200	200
Main motor (kW)	22	37	37
Weight (kg)	18500	24500	27500
Oil (L)	250	350	350

## STANDARD CONFIGURATION

- Wila Style punches
- Hydraulic clamping on ram
- Hydraulic clamping on table
- Hardened clamping inserts table
- Turbo variable flow pump option
- Easy-Form Laser 90 on W-axis
- ToolCell modular back gauges (6 axis - X1, X2, R1, R2, Z1 and Z2)
- LED work zone lighting front & rear
- Lazer Safe (for bending) & Sick light guards (for changing tools) safety systems
- Airco on electrical cabinet

## OPTIONAL CONFIGURATION

- Opening of 600 mm & Stroke of 400 mm
- Beam tilting of 5 mm/meter
- Front supports
- Sheet follower(s)
- Barcode reader
- Special color
- Second foot pedal
- Oil
- Oil cooler
- 60 Hz configuration
- Tooling
- Cadman-B offline software

## HEADQUARTERS

### **LVD Company nv**

Nijverheidslaan 2  
B-8560 GULLEGEM  
BELGIUM  
Tel. +32 56 43 05 11  
Fax +32 56 43 25 00  
E-mail: [marketing@lvd.be](mailto:marketing@lvd.be)

### **Strippit Inc.**

12975 Clarence Center Rd.  
USA-AKRON NY 14001  
UNITED STATES  
Tel. +1 716 542 4511  
Fax +1 716 542 5957  
E-mail: [marketing@strippit.com](mailto:marketing@strippit.com)

## JOINT VENTURES

### **LVD LVD-HD, Ltd.**

Huangshi City,  
Hubei Province, China

## SUBSIDIARIES

### **LVD BeNeLux nv**

Gullegem, Belgium

### **LVD do Brasil Ltda.**

Joinville, Brazil

### **LVD GmbH**

Lahr, Germany

### **LVD Italia s.r.l.**

Parma, Italy

### **LVD Korea Ltd.**

Inchon City, Korea

### **LVD Malaysia Sdn Bhd**

Shah Alam, Malaysia

### **LVD Norway AS**

Oslo, Norway

### **LVD Polska Sp. z.o.o.**

Kedzierzyn-Kozle, Poland

### **LVD Pullmax Ltd.**

Oxfordshire, United Kingdom

### **LVD S2/S3 s.r.o.**

Tornala, Slovakia

### **LVD s.a.**

Raismes, France

### **LVD-Strippit India Pvt. Ltd.**

Bangalore, India

### **LVD-Strippit Shanghai Co. Ltd.**

Shanghai, China

### **LVD-Pullmax AB**

Gothenburg, Sweden

### **LVD Thailand Ltd.**

Bangkok, Thailand

### **LVD Center P.T.**

Jakarta, Indonesia



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