LVD

LVD's Global Perspective

DISCOVERY

issue n° 26

Bending automation, your way

Two Taurus lasers redefine production power

PPED: professional strength, smart start

"We don't sell anything we can't build ourselves"

Stefan Wiesner, Schlüsselbauer Technology

TABLE OF CONTENTS

LVD NEWS 4

LEADERS 8

SCHLÜSSELBAUER TECHNOLOGY, AUSTRIA 8

MCM MACHINEFABRIEK, THE NETHERLANDS 18

SIGNUM FIRE PROTECTION, INDIA 26

PRODUCT FOCUS 12

BENDING AUTOMATION, YOUR WAY 12

MID-RANGE PUNCH-LASER 22

SMART COBOT AUTOMATION 28

SNAPSHOTS 6

TAURUS LASERS DRIVE PRODUCTION 6

STARTING STRONG WITH PPED 11

SUPPORTING STUDENT RACE CAR 24

MOBILE POWER BY POLYMA 30

INSIGHTS 15

ADVENTURE MEETS TECHNOLOGY 15

LVD WORLDWIDE 20

Editorial Note: Share your thoughts at marketing@lvdgroup.com or connect with us on social media. For information about products you see in this issue or to find your local LVD contact, head to **www.lvdgroup.com.**

LVD Company nv
Nijverheidslaan 2, 8560 GULLEGEM, BELGIUM
Tel. +32 56 43 05 11
marketing@lvdgroup.com

Stefan Zimmerman,
General Manager Schlüsselbauer Metalltechnik

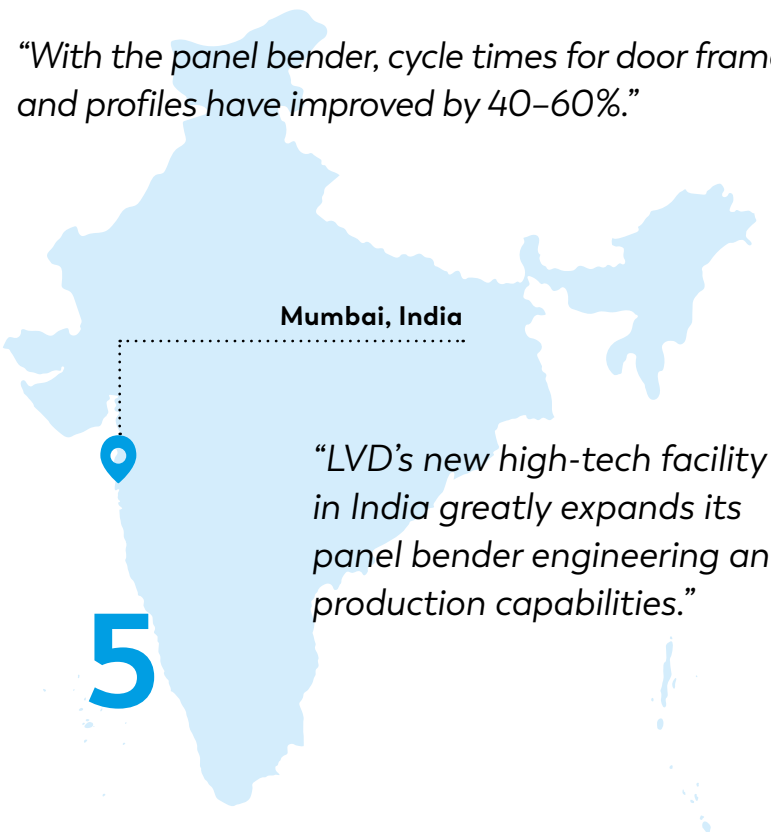
"We ordered a second Taurus laser to handle exceptionally large sheet sizes."

DISCOVER

BIG SOLUTIONS, PERFECTLY SIZED

Signum Fire Protection

"With the panel bender, cycle times for door frames and profiles have improved by 40–60%."



"LVD's new high-tech facility in India greatly expands its panel bender engineering and production capabilities."

Dear reader,

No matter what you're shopping for, it's about finding the solution that fits you best.

This issue of *Discovery* is centered on right-sized solutions that have big impact.

Our new Robotic Bending Systems put user needs first. With three flexible starting platforms, you can configure a bending system tailored to your application, for a fast ROI and automation that's made-to-order.

A 640-ton Easy-Form 6-meter press brake – our largest in Austria – is ideal for concrete pipe machinery manufacturer, Schlüsselbauer, requiring big capacity bending of heavy, oversized components and frames.

For MCM Machinefabriek, adding a laser and press brake to its machining expertise has scaled an already successful business into a bigger one-stop shop.

We're proudly lifting off to a new frontier with MT Aerospace AG, designing a custom 800-ton, 7-meter Synchro-Form press brake to manufacture structural components for the European Space Agency's Ariane 6 rocket.

Yes, we're listening – and ready to design, build, and support you with the right solutions, whatever the size of your metal fabrication needs.

Carl Dewulf
President & Managing Director

A new frontier

LVD technology is headed for space. International aerospace manufacturer MT Aerospace AG , based in Germany, recently awarded LVD a major contract to custom-build an 800-ton, 7-meter Synchro-Form press brake, scheduled for delivery in spring 2026.

This ultra-modern machine will manufacture essential structural components for the European Space Agency's Ariane 6 rocket program, a key initiative designed to strengthen Europe's role in the global space market.

Heavy-bending expertise
Synchro-Form features the industry's most advanced adaptive bending technology designed specifically for bending large workpieces and high-tensile materials.

LVD developed the first Synchro-Form for Kawasaki Heavy Industries (KHI), Japan, a significant partner with Boeing in the development and production of the 777X aircraft. This successful installation involved bending of large fuselage segments.

As a technology leader, LVD understands the complexities of heavy-duty bending. The Synchro-Form press brake for MT Aerospace is engineered to significantly reduce manufacturing time while enabling the precise forming of complex, high-tolerance components.

Commercial space evolves
MT Aerospace develops, designs and manufactures the metallic aerostructures for the Ariane 6 heavy-lift rocket, which was first launched in 2024. The company is significantly involved in the Ariane 6 program and has introduced several innovations to increase the performance and reduce the cost of the European launcher. It is also involved in institutional and commercial launch vehicle programs, for aircraft, satellites and for applications in the automotive and defense industries.

Advanced manufacturing technology is transforming the commercial space sector into a more diverse, innovation-driven industry led by private enterprise.

LVD is proud to play a role in shaping the new space economy.

New manufacturing site in India

A new 4700 m² production facility in Mumbai, India, expands LVD's global capacity to manufacture Multifold panel bending equipment. The Mumbai site will serve as the headquarters for panel bender design, engineering, and innovation.

Multifold panel benders were introduced to the LVD product portfolio in November 2023, complementing the well-established line of press brakes. This addition has unlocked new possibilities for sheet metal workers working with large panels for applications such as shelving, steel furniture, HVAC systems, and cleanroom environments.

As the fabrication industry continues to move towards automation, LVD is ready to meet the demand.

Laying a foundation for the future

As industries around the world face a shortage of technically skilled personnel, LVD is taking action to help secure the future of manufacturing.

A strong advocate for STEM (Science, Technology, Engineering, and Mathematics) education, LVD recognizes that the future of manufacturing depends on nurturing young talent. As an OEM, LVD is committed to encouraging students to pursue a STEM career, both to build a pipeline of skilled professionals and to drive innovation across the industry.

Through hands-on workshops, educational partnerships, and student competitions, LVD is helping inspire interest in today's high-tech, automated manufacturing world.

These efforts aren't just good for the industry; they deliver real results. Case in point: the concept for the new Ricobb collaborative bending system, engineered by LVD Robotic Solutions (LRS), was originally developed as part of an industry competition.
Now, it's a full-fledged product in the LVD robotics line.
Read more about Ricobb in the Product Focus section on page 28.

A PARTNERSHIP POWERED BY INNOVATION

SCHUHMACHER METALLTECHNIK - GERMANY

Stefan and Sylvia Zimmermann, company owners

Since 2007, Schuhmacher Metalltechnik and LVD have worked side by side to optimise performance on the shop floor. Beginning with LVD press brakes, their cooperation has evolved into a journey of transformation, including two Taurus 24-meter laser cutting machines and an Ulti-Form robotic bending system.

As a trusted name in sheet metal fabrication, Schuhmacher Metalltechnik offers end-to-end expertise – from concept development to full-scale series production.

"We are a family-owned company, founded in 1953, with over 70 years of experience in sheet metal processing. As a subcontractor processing metal blanks from 1 mm to 200 mm thick, we combine expert advice, efficient execution, and high-tech production," says Stefan Zimmermann, Managing Director of Schuhmacher Metalltechnik. A renowned neighbour and key customer is Liebherr, a global manufacturer of construction machinery, cranes, and industrial equipment.

Pushing the limits of large-format cutting

In 2022, Schuhmacher Metalltechnik took a bold step forward with the Taurus FL – a fiber laser cutting system designed for big ambitions. The system features a cutting length of 24 m and processes sheets up to 3.3 m wide and 30 mm thick with ease. No more time-consuming repositioning – just pure efficiency at scale.

Bevel cutting: a game changer

One of the Taurus' key advantages is its bevel cutting capability. "With the Taurus, we can integrate weld seam preparation quickly and precisely during cutting," says Zimmermann. This feature delivers a major

Two Taurus 24-meter machines

Robotic bending system

competitive advantage: secondary steps are eliminated, and automation takes over. The impact was so significant that the company ordered a second Taurus shortly after – doubling capacity and unlocking new levels of flexibility.

Robotic bending: the future is here

To tackle the shortage of skilled labour and optimise production, Schuhmacher invested in a robotic bending cell. Powered by the *CADMAN®-SIM* software, *Ulti-Form* automates programming and opens doors to new possibilities.

Reprinted with permission:
BLECH+ROHRE+PROFILE,
April 2025

Profile

Company:
Schuhmacher Metalltechnik

Since: 1953

Industry:
Sheet metal subcontractor

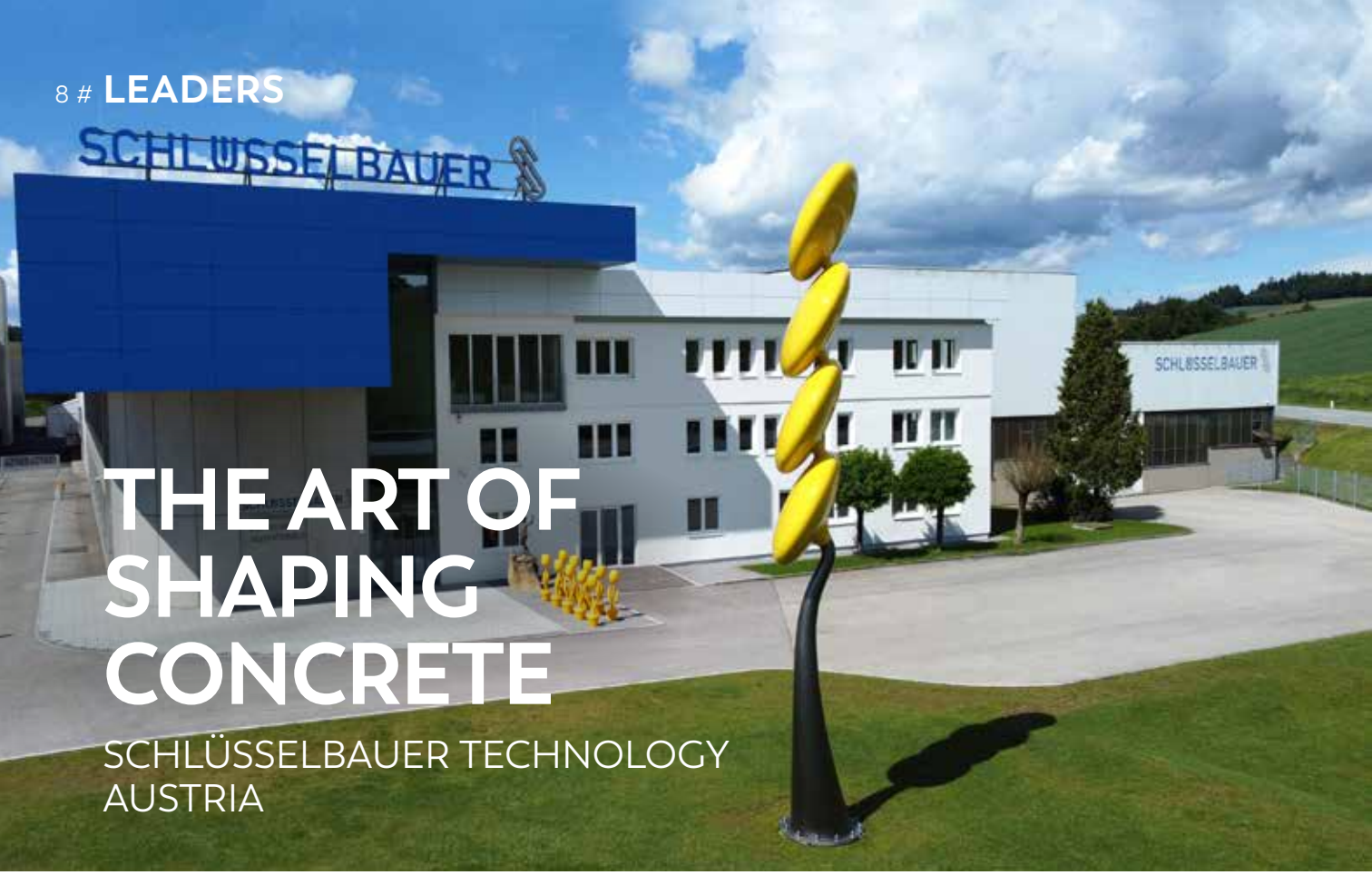
Works with:
Steel up to 25 mm, stainless steel up to 20 mm, aluminium up to 15 mm

LVD Installation:
- 2 x Taurus 24 laser featuring 24 m cutting length
- 1 x Easy-Form 400/45 and 1 x Easy-Form 135/30 press brake
- 1 x Ulti-Form robotic bending cell featuring a 135/30 press brake

LVD Software:
CADMAN-B, -L, -SDI, -JOB, -SIM for complete process integration

Website:
www.schuhmacher-metalltechnik.de

Watch the testimonial



THE ART OF SHAPING CONCRETE

SCHLÜSSELBAUER TECHNOLOGY AUSTRIA

The Dream Generator symbolises the idea that creativity and innovation are infinite.

The rural town of Gaspoltshofen in Austria is home to Schlüsselbauer Technology. Far from making keys – as the name might suggest - this third-generation family business specialises in building unique machines for concrete plants worldwide.

Arriving at the site, the company's new facility immediately catches the eye. In front of the entrance, a kinetic sculpture known as the Dream Generator rises into the sky. It symbolises the idea that creativity and innovation are infinite. Just as Schlüsselbauer is constantly evolving and exploring new visions, the Dream Generator moves with the forces of nature.

"For our customers in the concrete industry, we develop, design and manufacture machines that produce concrete pipes, pressure and jacking pipes, shaft components, and a wide range of infrastructure elements," says Marketing Manager Lisa Konupitzky.

Drinking water, surface water and sewage pipes are typically produced in special formwork into which fresh concrete is poured. The quality of the end product depends on the precision of that formwork –one of the areas where Schlüsselbauer excels.

A look inside the assembly hall proves the point: formwork in countless shapes and diameters, tailored to the standards and specifications of countries worldwide.

Precision as a core value

"We don't sell anything we can't build ourselves," emphasises Production Manager Stefan Wiesner. "Concrete formwork requires precise bends. It must hold self-compacting concrete in shape during pouring and hardening. Take sewer systems: parts must fit together seamlessly – tiny deviations can have major consequences."

This is precisely why the manufacturer set out to find a new press brake – not only for precision work, but also for large machine components and special frame parts that demand the highest machine standards. Four years of intensive research and consultation led them to the perfect solution.

"High-quality formwork is essential for casting concrete pipes for drinking water, rainwater and wastewater."

The largest LVD press brake in Austria

During this process, Schlüsselbauer worked closely with Matthias Ebner, Sales Manager at Schachermayer, the exclusive distributor of LVD machines in Austria for 40 years. Numerous bending tests confirmed the right direction. In the end, the company chose an *Easy-Form*-9 press brake from LVD, with a 6-meter working length and 640-ton pressing force.

Guided by the specifications of Mr Schlüsselbauer Senior – "We must choose the highest capacity and the best functionality that truly serve our industry" – the company now operates the largest LVD press brake in Austria.

Equipped with the *Easy-Form*® *Laser* (EFL) angle measurement system, the machine automatically compensates for material variations such as sheet thickness, strain hardening and grain direction during bending, without losing production time. The result: maximum bend angle accuracy, less scrap, and a significantly more efficient production process. Re-measuring or re-bending? No longer necessary.

Complete solutions

Another focus of the company is the automation of entire production processes – a decisive advantage in times of labour shortages. In fully automated systems, the formwork moves autonomously through production.

Mario Mair (Head of steel construction Schlüsselbauer), Stefan Wiesner (Production Manager Schlüsselbauer), Matthias Ebner (Sales Manager Schachermayer)

"In many cases we have replaced the welded constructions with bent parts."

With moulds ranging from 1 to 3 m in diameter, today's state-of-the-art plants can deliver production outputs of well over 100 components per shift.

"Our solutions are tailor-made installations – designed around the desired level of automation, the customer's requirements, and the available space. We design and build the machine that fits perfectly," explains Mrs Konupitzky.

It is this comprehensive engineering that sets Schlüsselbauer apart. Stefan Wiesner: "We keep as much as possible in-house, from concept to development, design, manufacturing, assembly, and programming. Our designers, electrical engineers, programmers, and fitters all work under one roof. We support our customers every step of the way, right up to commissioning in their concrete plant."

International player

Schlüsselbauer employs 300 people, most of them at the Austrian headquarters. The company operates a production site in the Czech Republic and a sales and service branch in Nashville, Tennessee (USA).

The scale is remarkable: not only in the size of the machines - some of them truly gigantic – but also the number of countries they are shipped to. From Europe to the USA to Asia, customers place their trust in machines "Made in Austria."

Expanding horizons

For nearly a year, Schlüsselbauer has been operating the LVD press brake, and Mr Wiesner is satisfied: "The machine's accuracy has fully met our expectations. We manufacture precision formwork, frames and spare parts, and in many cases have replaced the welded constructions with bent parts. Our steel construction department is particularly impressed: the parts fit together much better, making assembly and welding much easier."

But precision is only part of the story. "The system has boosted our capacity: we can now produce many parts that were not feasible before, including smaller components with sheet thicknesses up to 20 mm. We are constantly discovering new possibilities. Working closely with our design department, we are developing concepts that are easier to implement," he concludes. "This investment has not only enhanced our precision, but also broadened our horizons."

Stefanie Vandemoortele,
LVD Company

Profile

Company: Schlüsselbauer Technology

Since: 1964

Industry:
Special machine construction

Works with:
Structural steel

LVD Installation:
Easy-Form-9 640/60

LVD Software:
CADMAN-B

Website:
www.sbm.at

The Magic machine is used worldwide to manufacture both rectangular and circular shaft components in various heights

ENHANCED FLEXIBILITY WITH PPED

KELVENT – SCOTLAND

When Paul Kelly, Managing Director at Kelvent first encountered an LVD PPED press brake at EuroBLECH, he immediately recognised its potential. The Scottish manufacturer and distributer of ventilation products invested in a PPED-7 135/30 – and just six months later, added a second one.

The PPED-7, with 135 tons of pressing force and a 3-meter working length, was a step change in productivity and capability. Paul Kelly: "The new machine was very easy and quick to set up and the automated programmable backgauges were a big factor."

The versatility of the machine was a big plus too: "We mostly use thin galvanised steel to form square tubes, offsets, square-to-round transitions and so on. With the new press brake and additional tooling, we can now bend over 90 degrees," he explains.

Thanks to the increased open height, Kelvent can now bend parts that weren't possible before – for example, a square end cap with two edges folded inward and two outward. And although the company rarely bends parts up to three meters long, the extended bending length opened the door to new work, including kitchen canopies and larger ducting elements.

Operators quickly embraced the user-friendly *Touch-B* control, programming jobs directly at the machine. Setup times dropped, bending consistency improved, and workflow bottlenecks disappeared.

The impact was so clear that Kelvent bought a second PPED press brake just six months after installing the first one. The added capacity ensured faster turnaround for next-day customer requests.

Today, approximately 80% of Kelvent's products—spiral and square ducting, bespoke transitions, offsets and more— are produced on its own equipment.

Profile

Company: Kelvent

Since: 1977

Industry: HVAC

Works with: galvanized steel

LVD Installation:
- LaserONE fiber laser cutting machine
- 2 x PPED-7 135/30 press brakes

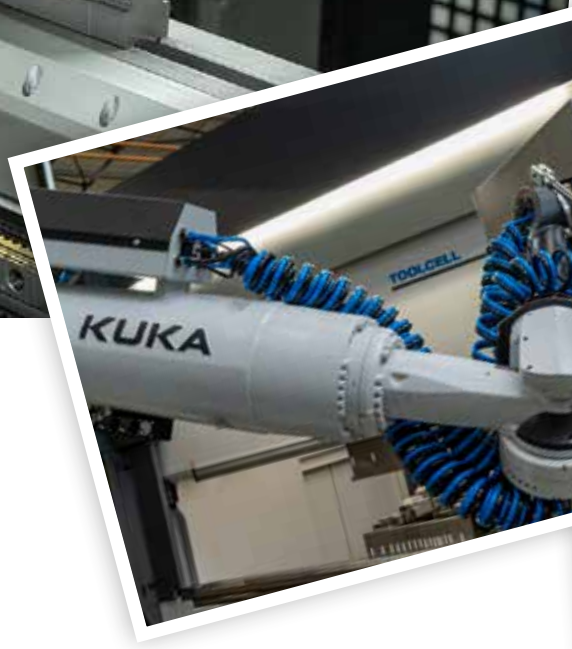
Website: www.kelvent.co.uk

Together, the two PPED press brakes have not only improved reliability and flexibility but have positioned Kelvent for future growth, enabling the company to take on larger projects and expand its product offering with confidence.

Watch the story here

BENDING AUTOMATION, YOUR WAY

LVD'S ROBOTIC BENDING SYSTEMS



Focus on automation

We understand that every sheet metal working company or OEM face unique challenges. That's why we developed Robotic Bending Systems (RBS) – automation that adapts to your business.

From now on, RBS gives you the freedom to configure an automated bending system around your parts, processes and production goals.

Three platforms

RBS systems are made up of three configurable platforms, allowing each customer to put together their own system:

- **RBS 4:**
  For small parts up to 600 x 400 mm and 4 kg.
- **RBS 40:**
  For medium-sized components up to 1600 x 1200 mm and 40 kg.
- **RBS 80:**
  For large parts up to 3050 x 1250 mm and 80 kg.

FIVE STEPS TO YOUR PERFECT SYSTEM

From compact press brakes to heavy-duty machines, you choose the capacity, material flow, and grippers that fit your application. The configuration of an RBS involves five clear steps:

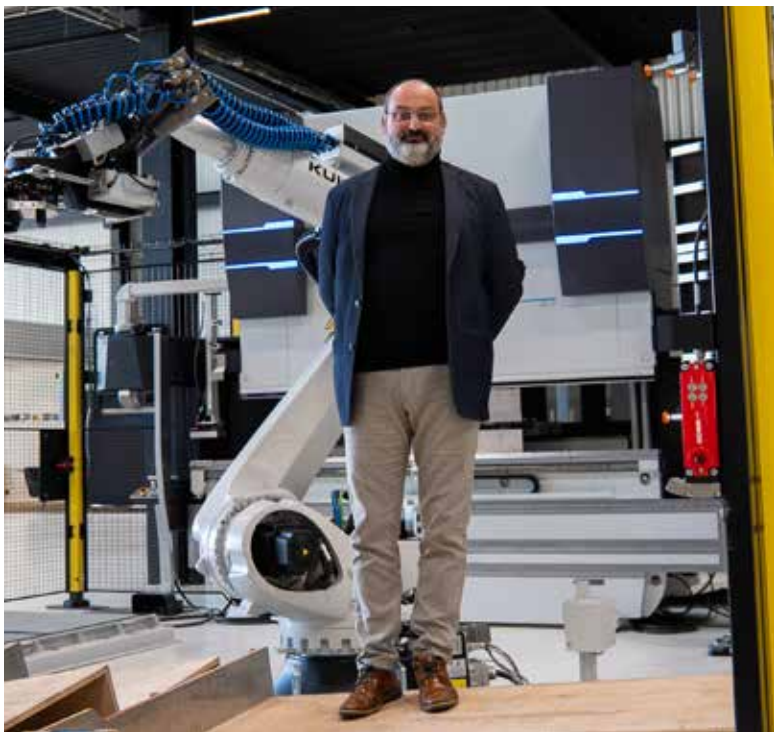
1. Determination of the part specifications and platform: RBS 4, 40 or 80.
2. Choice of press brake – from electric Dyna-Press to ToolCell with automatic tool changer.
3. Definition of input and output methods for optimal material flow.
4. Selection of transport systems, input boxes, output pallets and safety fences.
5. Choice of gripper type, depending on weight, material and shape.

Smart technology, simple operation
The standard functions of the RBS systems guarantee ease of use and reliability. The intuitive *Touch-B* control system operates both the press brake and the robot, while *CADMAN-SIM* software automatically programs the bending sequence and gripper positions. The *Easy-Form Laser* adaptive bending system is available as an option to ensure extra angle accuracy.
And when automation isn't needed? Switch to manual mode in seconds.

Putting you first
"With RBS, we're taking a truly customer-centric approach," says Peter Vandromme, LVD Press brake automation Sales Manager. "Instead of offering off-the-shelf solutions, we configure each system around the user's needs - maximizing productivity and efficiency. By making bending automation more flexible, we make it more accessible and ultimately more valuable to our customers."

Check out the five steps to your cell

Get in touch:
sales.roboticbending@lvdgroup.com



Peter Vandromme, LVD Press brake automation Sales Manager

"We configure each system around your needs – so you get maximum efficiency and value."

Why choose RBS?

- **Tailored to your production**
  Configure your system for your parts and workflow.
- **Faster ROI**
  Automation that pays off quickly.
- **Easy to use**
  No robot programming experience needed.
- **Flexible**
  Switch between automated and manual mode anytime.

Fuselage panel of Boeing 777X

WHERE ADVENTURE MEETS TECHNOLOGY

From West Flanders to Slovakia, from the Tour of Burkina Faso to a high-tech project for Boeing in Japan: Bram Delie (38) isn't afraid to push boundaries and follow his passions.

DEEP DIVE INTO TECHNOLOGY

"In my job, you have to stay calm and work step by step. Read the plan carefully. That way, you work efficiently and keep everything under control," says Bram.

He's talking about his job as an electrical start-up technician that he started at LVD 17 years ago. He quickly mastered the press brakes. "I worked intensively with the ToolCell – a press brake with an automatic tool changer. Because I could calibrate the machine smoothly, I regularly assisted customers with start-up."

L'AFRIQUE, C'EST CHIC

When he starts talking about cycling, Bram's eyes light up. "As a kid, I once saw a documentary about the Tour of Burkina Faso. From that moment on, I dreamed of riding it myself."

He did more than dream. Between the ages of 12 and 30, Bram competed in official UCI races (Union Cycliste Internationale, the international cycling federation)

Synchro-Form press brake for Kawasaki Japan

across Africa: the Tours of Senegal, Burkina Faso, Congo and Rwanda. "Africa has always drawn me in. Things can get chaotic, but in the end everything always works out. That's where I learned to stay calm. What's more, I don't mind the heat," he chuckles.

During a holiday in Senegal – this time without his bicycle – he met Sena, his future wife. Five years later Sena joined him in Belgium. A year later, their daughter Haddy was born.

TOP MACHINE IN JAPAN

Whether it's cycling or high-tech, challenge seems to be Bram's natural habitat. In 2018 he joined an exceptional project for Kawasaki Heavy Industries: a press brake with 1,000 ton pressing force and 10 m working length used to bend fuselage panels for the Boeing 777X.

"I love learning new things. When an opportunity comes along, I grab it."

The figures are staggering: 24 pneumatic supports, 254 axes and motors, 210 of which shape the aircraft walls into their precise, varying radii. Thanks to LVD's innovation, Kawasaki tripled its efficiency.

Bram handled the electrical start-up, input/output configuration and calibration of the machine. He flew with the LVD team to Japan for the final installation. "A fantastic project I'll never forget," he says proudly. "It taught me a lot about precision, teamwork and cultural differences."

BETWEEN TWO WORLDS

Around the same time, LVD offered Bram a new challenge: providing technical support to the start-up

At Kawasaki with LVD colleagues Philip Soubry and Dries Carton

team at LVD S3, the production site in Slovakia.

"I wasn't keen on relocating full-time," he admits. "But when I could combine it with part-time work in Belgium, I went for it."

Now he splits his time between both countries. In Slovakia, he oversees the on-time delivery of press brakes and subassemblies to Belgium, manages planning, and tests new applications. "For example, I expanded and programmed a test setup for backgauges. We can now also test subassemblies – from robot grippers to re-gripping stations – in a much more user-friendly way. I love projects like that."

Bram often trades the factory floor for the open road. He cycles through the countryside, into the mountains or across the border into Hungary – often alongside Gino Uzeel, Director of LVD S3 and a fellow cycling enthusiast.

Every two to three weeks, he returns home in Belgium – enjoying time with his family, and a warm reunion with his LVD colleagues. "I usually bring a list of questions from Slovakia for engineering," he laughs. "And in Belgium, I keep busy too – programming configurations for special machine options, like heavy tool changers. I just enjoy it, and they know that."

UNSTOPPABLE DRIVE

Beneath Bram's calm exterior lies an unstoppable drive. "I love learning new things. When an opportunity comes along, I grab it," he says. "This summer, I was involved in the assembly and commissioning of the first laser cutting machine produced at LVD's new facility in India. When the machine runs perfectly, that's pure satisfaction."

For Bram Delie, technology isn't just a job – it's an adventure, a challenge, and a true passion.

Stefanie Vandemoortele,
LVD Company

Mathijs Wijn (Manager LVD Nederland), Ziggy Scase (Head sheet metal and construction MCM), Johan Pouls (Foreman sheet metal department MCM)

FROM MACHINING TO COMPLETE METALWORKING

MCM MACHINEFABRIEK - THE NETHERLANDS

For years, MCM Machinefabriek in Liessel, the Netherlands, has been renowned for its high-quality turning and milling. With new investments in a Puma laser cutting machine and an Easy-Form press brake, MCM is evolving into a full-service metalworking partner.

Machining as a solid foundation

MCM's reputation is built on precision. Its machining department boasts an impressive machine park and a dedicated QA measuring room to guarantee the highest accuracy. Combined with a highly skilled team, these investments have made the company a trusted name in turning and milling.

However, there was one limitation: projects that required sheet metal work often went to other parties. "We couldn't always provide our customers with everything they needed in-house," says Ziggy Scase, head sheet metal and construction. "Expanding into sheet metal processing – and giving customers a single point of contact for all their projects – was the logical next step."

The leap to sheet metal processing

To become a true "one-stop-shop" for its customers, MCM partnered with LVD to set up a fully integrated sheet metal working department, linked directly to its ERP system. The solution: an *Easy-Form* press brake and a *Puma* laser cutting machine for sheets up to 20 mm thick. "We wanted precision, reliability and top-quality output," says Ziggy. "LVD delivered on all fronts."

Software that simplifies

Even though MCM's team had no prior experience with sheet metal processing, LVD's *CADMAN*® software made the transition effortless. "*CADMAN* guides users step by step through the entire process – from design to cutting or bending," explains Mathijs Wijn, manager LVD Nederland. "With minimal training, even beginners can operate the machines confidently."

Puma powerful cutting up to 30 kW

Puma laser cutting machine

Ziggy adds: “Thanks to the software, our team was productive almost immediately. Learning the machines was surprisingly easy.”

All services under one roof

With these new capabilities, MCM now offers a complete suite of metalworking services. Customers can handle turning, milling, bending, laser cutting, welding, and assembly – all in one place.

“This saves our customers time and simplifies their supply chain,” says Ziggy. “A workpiece that combines multiple techniques is no longer a challenge. Our total solution makes us a true one-stop partner.”

A partnership for the future

For MCM, LVD isn’t just a supplier – they’re a strategic partner.
“We wanted a partner that understands our current needs and future goals,” Ziggy concludes.

“With Mathijs and his team, we’ve confidently expanded into sheet metal processing, knowing we have the right support every step of the way.”

Profile

Company:
MCM Machinefabriek

Since: 1909

Industry:
Automative, trucks, food, agriculture, medical, high-tech industry, renewable energy, entertainment

Works with:
Steel, stainless steel, high-tensile steel (S500, S700, Hardox), aluminium, copper, brass, bronze

LVD Installation:
- Puma 3015 fiber laser cutting machine
- Easy-Form 170/30 press brake

LVD Software:
Complete suite: CADMAN-L, CADMAN-B, CADMAN-SDI, CADMAN-JOB, Touch-i4

Website:
www.mcmliessel.nl

Reprinted with permission:
Metallerie, April 2025

Watch the testimonial

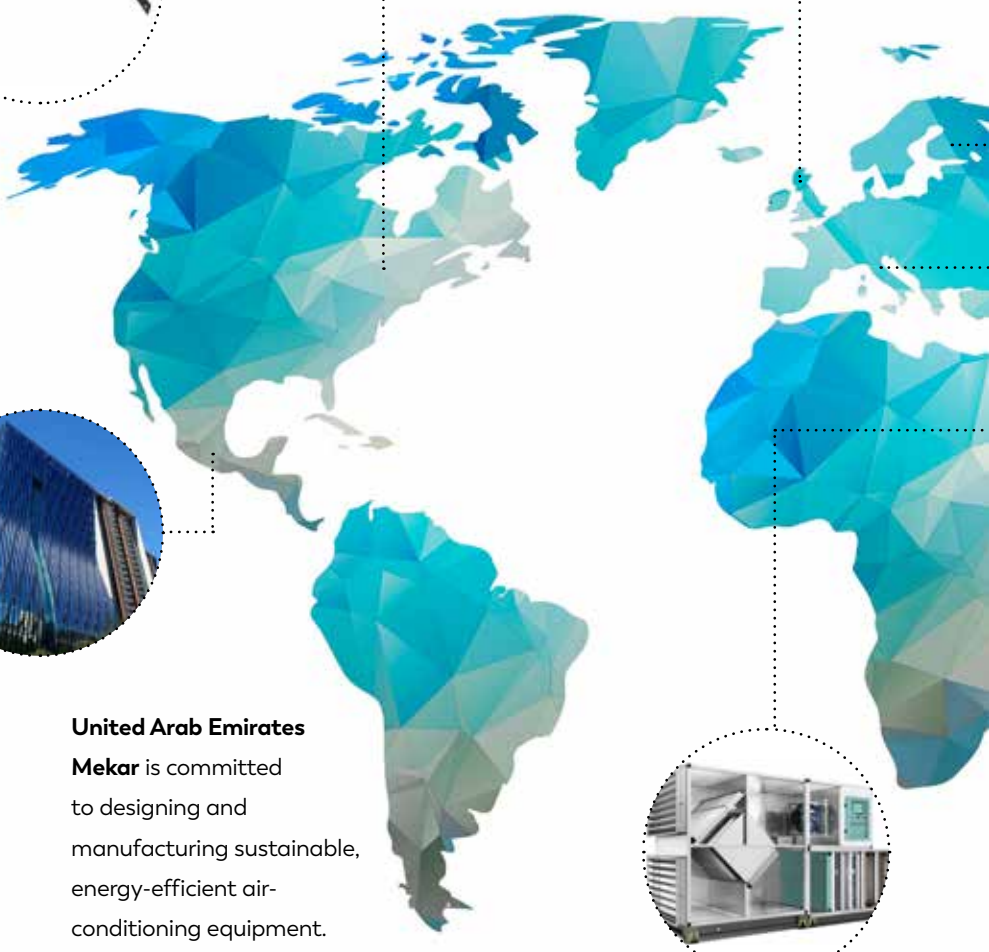
GLOBAL REACH

UK

With a legacy spanning over 135 years, **Brown McFarlane** is a trusted supplier and processor of carbon and stainless steel plate, serving critical industries such as energy, mining, oil and gas. The company goes beyond supplying raw materials, delivering semi-finished and finished components tailored to exacting specifications. A new *PPEB 400/40* press brake, *LVD press brake tooling*, and *CADMAN® software* allows Brown McFarlane to offer precision bending services for material up to 25 mm thick.

United States

Liberty Steel Industries delivers fast, versatile metalworking services with advanced equipment, flexible production and value-added offerings. Their *Electra FL-3015 8 kW* and *Phoenix FL-3015 12 kW* lasers each with *Compact Tower, Easy-Form 220/40* and *PPEB-8* press brakes enable quick turnarounds –allowing Liberty to meet diverse and evolving customer needs.



Mexico

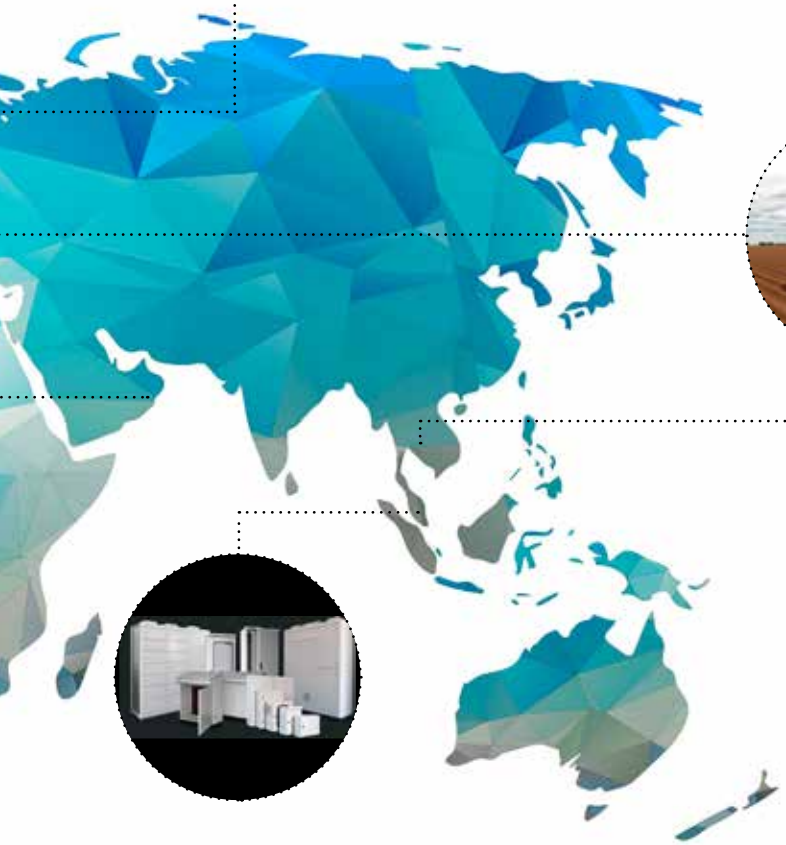
From iconic skyscrapers like the 64-story Torre KOI to modern mixed-use developments such as Equus 333, **Grupo PREMSOL** delivers fully customised, end-to-end air conditioning solutions for commercial and industrial use. The company provides a complete service offering tailored to each project. To support its high standards in system performance and quality, Grupo PREMSOL upgraded its fabrication capabilities with a *Puma 3015* 3 kW laser and a *PPEB-9* 135/20 press brake.

United Arab Emirates

Mekar is committed to designing and manufacturing sustainable, energy-efficient air-conditioning equipment. Renowned for meeting complex project specifications, the company has successfully delivered high-profile installations across the Middle East, Europe, and beyond, including landmarks such as the Burj Al Arab and the Burj Khalifa. To ensure precision and reliability, Mekar employs advanced manufacturing technologies, including the *Strippit M 1530* punch press, *Puma 3015* 3 kW laser, and *Multifold 2511* panel bender.

Finland

Founded in 1947 as a small machine shop, **Puristeteos Oy** is a third-generation family business where tradition meets modern technology. Continuous investment in advanced equipment – including automation systems and an LVD *Robotic Bending System (RBS 4)* – keeps the company innovative and competitive. Today, Puristeteos Oy delivers high-quality sheet metal components, as well as complete assemblies and subassemblies, to customers across Finland.



Malaysia

CVS Metal Industries Sdn. Bhd. is a trusted specialist in industrial electrical enclosures, offering more than 100 standard sizes of painted steel and stainless steel enclosures ready from stock. To keep pace with demand and maintain high product quality, CVS counts on advanced, high-productivity fabrication equipment, including a *PPEB-8 80/25* press brake with sheet-supporting T-axis, new *LaserTWO 3 kW* laser cutting system with Load-Assist automation, and Strippit punch press.

Italy

What started in 1961 as Luigi Ferrari's mission to support small local farms has grown into **Ferrari Growtech,** a global leader in agricultural equipment. Every Ferrari Growtech machine is designed to help farms work more efficiently. Its transplanters, seeders, and advanced weeders are trusted by growers in more than 60 countries. The company relies on LVD press brakes – an *Easy-Form 9 170/30* and *Dyna-Press Pro 60/20* – for precision-formed components.

Thailand

Specialising in heavy-duty components for construction, road machinery, and mining applications, **S.C.S. Fabrication Co., Ltd.** produces large, rugged excavator buckets and chassis. More than 80% of its products are made-to-order for customers in the U.S., UK and parts of Europe. To meet these big challenges, S.C.S. invested in an *LVD-HD PPEB 1200/80* press brake, providing the heavy-forming capacity – up to 1200 tons – essential for crafting durable, high-quality parts with accuracy.

STRIPPIT QX-L

Mid-range punch-laser delivers value

The new Strippit QX-L brings the power of combination punch-laser technology to a mid-range machine that makes advanced fabrication more accessible than ever before.

The quintessential combo

- **Single-head 20-ton design** handles material thicknesses up to 3 mm and requires minimal tool setup and changeover. All 20 direct-drive tool stations are indexable a full 360 degrees to any angle and accommodate tool diameters up to 90 mm for super versatility.
- **Full-sheet processing in a 3050 x 1525 mm format** saves production time, material usage and material handling.
- **4-kW laser source** is all the power needed to process a range of materials in virtually unlimited shapes with high precision and tight tolerances.
- **Forming up to 75 mm** to produce complex shapes, as well as countersinks, tabs, knockouts, louvers and even continuous embosses.
- **Smart ram control** in a fully programmable system able automatically optimises the punch press ram motion for maximum output.
- **Strippit Smart Clamp** makes 100% sheet utilisation possible with no worksheet dead zones.
- **Programmable 474 x 525 mm chute** allows punched parts to quickly be offloaded straight from the machine to a parts bin.

Why combination technology is a smart move

Strippit QX-L couldn't come at a better time. As more shops bring production in-house to lessen the impact of tariffs and reduce dependence on suppliers, more capable and affordable manufacturing technology is a must, and the combination machine is worth a look.

"The QX-L advances Strippit's legacy in punch-laser innovation with a modern, next-gen combination machine."

When it's the right combo

High-mix, low volume or low-mix, high-volume

Strippit QX-L delivers high efficiency across different manufacturing environments. It can output at high volumes and easily transition to low-volume or prototyping applications, maintaining performance in both. With integrated punching and laser cutting capabilities, the combination machine eliminates the trade-off between flexibility and economies of scale.

Manufacturing is more complex

Near-zero tolerances are needed for critical parts for aerospace, advanced materials and special alloys are more commonly used, demand for more customized products requires more flexibility in manufacturing. By bringing together

the strengths of both technologies, Strippit QX-L makes it easier to produce complex parts with high precision and consistency. And because this happens on a single machine in a single setup, there's less chance for errors and more repeatable quality.

Workflow needs improvement
Integrating punching and laser cutting into a single machine can be a smart solution for a more streamlined workflow. Traditionally, a fabricator will laser cut blanks and then move them to the punching machine one at a time, maybe add a louver or countersink. With Strippit QX-L, this is streamlined in one process.

More value = competitive gain
The flexibility of Strippit QX-L helps add value to the parts and products you're producing and does so for less cost. With the laser you can cut features that would be too small to punch out, cut detailed shapes or sharp corners difficult to punch without investing in specialized tooling. On the punch, you can add value by forming, tapping, and deburring.

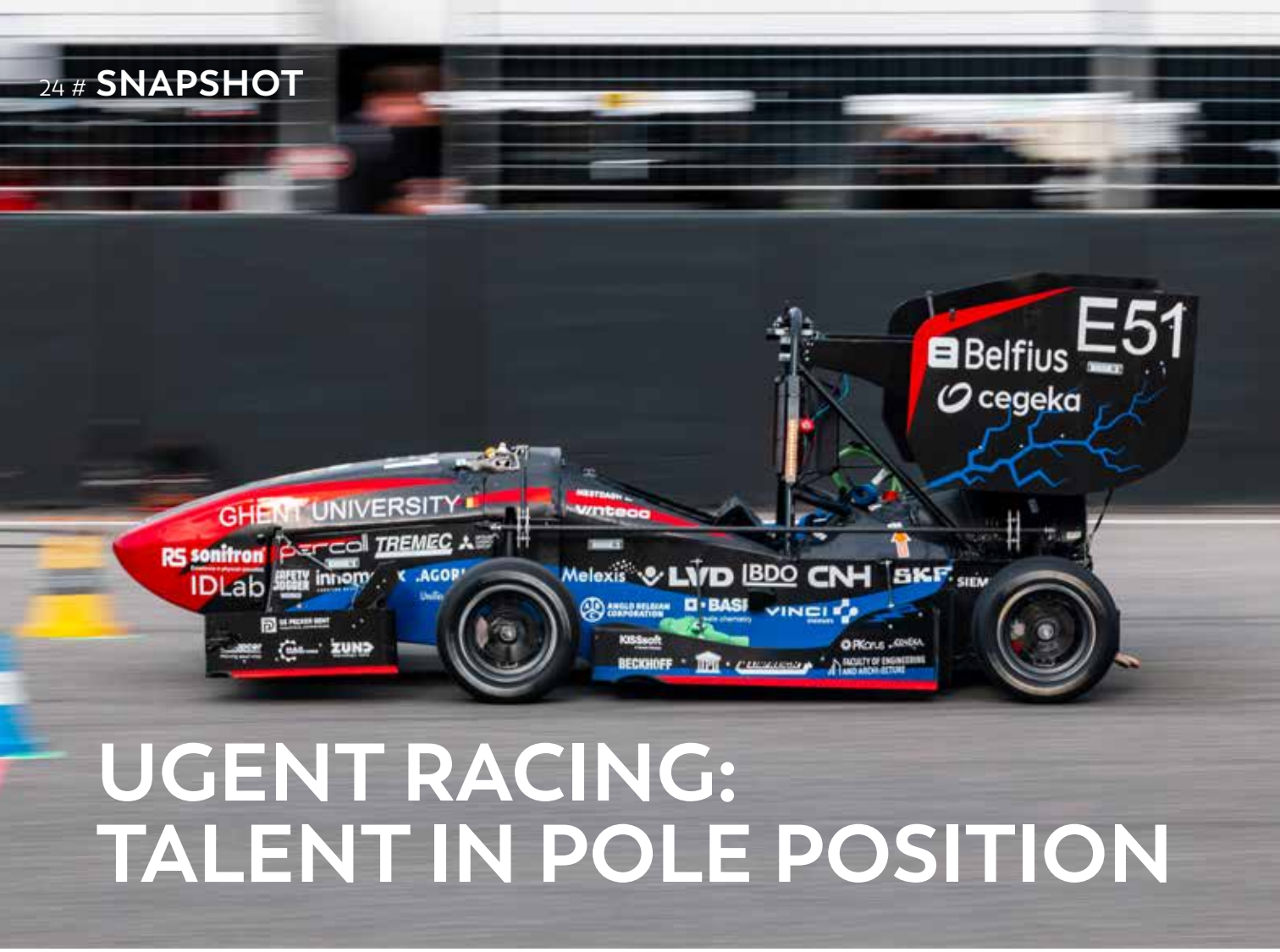
Automation on the radar
Strippit QX-L incorporates automation in a way that lasers and stand-alone machines can't. It offers dedicated part handling and removal in the form of drop door or work chute systems for both punch and laser, skeleton removal, and part picking and sorting in real time. Completed parts can leave the machine from the drop door onto a conveyor or into a bin sort system or can be evacuated onto a pallet underneath the table. Having a single multi-purpose automated machine means less skilled labor required to operate the machine and to handle parts.

Floor space considerations
A single machine occupies less floor space than two separate systems. Even for shops with ample floor room, it makes sense to make the best use of production space. With a growing focus on sustainability, reducing resource consumption and minimizing waste, a two-in-one machine aligns with these goals.

Need assistance in evaluating a combination machine?
Contact us at lvdgroup.com

Why Strippit QX-L?

- Mid-range model makes combination technology affordable
- Optimized punching, laser cutting, forming – all-in-one machine
- Smart ram control and smart clamping for high sheet utilisation
- Energy-efficient operation



UGENT RACING: TALENT IN POLE POSITION

LVD is a proud sponsor of UGent Racing, the Formula Student team at Ghent University (UGent) that builds an autonomous electric race car from scratch every year.

Lara De Weirdt, Business & Corporate Relations, and Ethan Sené, Chief Mechanical Engineer and board member – aged 20 and 21 – speak enthusiastically about the project.

"UGent Racing is a unique opportunity to put theory into practice. You learn so much: contacting companies, developing a business plan, organising meetings. It's teamwork on a completely different level," says Lara.

100% student-made

Every year, more than 90 students combine their expertise in mechanics, electronics and software to build a high-performance race car.

"From September to December, we focus on the design," says Ethan.

"This year, we're introducing in-wheel motors: moving the motors to the rear wheels frees up more internal space. It's quite the challenge!" he adds with a smile.

Quizzes to qualify
In January, Formula Student launches online quizzes that determine whether teams can participate in the summer competitions.

"We're extremely motivated because we really don't want to miss the international races," says Ethan.

Production starts in the second semester: welding, soldering circuit boards, building the chassis. LVD provides high-quality sheet metal for the chassis and interior trim – cut and bent as needed. The project shows the strength of collaboration between academia and industry.

Sustainable and future-oriented
The sustainability team continuously searches for eco-friendly alternatives. For example, the carbon-fibre steering wheel is now in wood, stronger and lighter than the carbon-fibre version.

Like LVD, UGent wants to inspire young people to choose STEM (Science, Technology, Engineering, Maths).

Lara: "During workshops, we get children and young people excited about technology, for example by assembling small cars together."

International top-level racing for students
"This summer, we competed on circuits in Germany, the Czech Republic and the Netherlands," says Lara. "The Hockenheimring in Germany is the holy ground of Formula Student. You're there among universities from all over the world. With five years of experience, we're a young team; others have been doing this for 20 years and have bigger team, but we're progressing fast and made an impression with our self-driving car."

"Before we're allowed on the circuit, we must present and defend our engineering design choices, business plan and cost & manufacturing before the juries. We've already achieved podium finishes for the latter two, out of 60 teams. We are particularly proud of that."

And who gets to drive in the end? "We decide that by karting together," laughs Ethan. "The fastest and most agile students become the drivers. Except when it's the autonomous team's turn – then the car drives itself."

Stefanie Vandemoortele,
LVD Company

BENDING FOR SAFETY & SPEED

SIGNUM FIRE PROTECTION – INDIA

Paramanand Shau (Production Manager) and Siddhant Burnure (Senior Engineer)

For more than 30 years, Signum Fire Protection has had one clear mission: protecting lives and safeguarding valuable assets from fire. To further increase throughput and ensure greater consistency, the company invested in an LVD Multifold panel bender.

A growing market, rising expectations

Fire protection has become a key priority in India. Stricter national safety regulations have driven up demand, pushing companies to prioritize certified quality, uniformity, and on-time delivery.

Signum Fire Protection is a trusted name in India's fire-safety industry. Since 1992, the company has been manufacturing fire-rated doors, glazed partitions, rolling shutters and fire-stop materials. From a supplier of basic fire-rated equipment, Signum has grown into a fully integrated manufacturer. Today, its product portfolio also includes clean-room systems, acoustic solutions and custom sheet-metal products - all manufactured, coated and assembled in-house.

This broad production base enables Signum to respond to customer needs with exceptional speed and flexibility, while offering tailored solutions for diverse projects.

Accelerating productivity with panel bending

The decision to purchase a panel bender was driven by several key factors: high bending speeds, automated bending sequences, flexible tool changes, and consistent accuracy across a high product mix — an essential advantage in the production of doors and frames.

The machine handles materials from 0.8 to 2.0 mm thick to produce door frames, shutter parts, stiffeners, channels and custom profiles for both prototype and high-volume production.

Before the panel bender was installed, all bending operations were carried out on press brakes, with skilled operators and regular tool changes. This setup required more time and coordination for repetitive, high-precision work. The panel bender now handles these tasks, freeing up the press brakes for thicker and more specialized components.

A major leap in efficiency

The impact was immediate.

"The panel bender reduced setup time by nearly 90% and cut cycle times by more than half. What used to be a bottleneck is now one of our strongest capabilities."

— Sahil Shah, Director

Setup times dropped by 80–90%, while cycle times improved by 40–60%. Dimensional accuracy, repeatability, and overall productivity increased significantly, while rework was reduced to almost zero.

Operator dependency also decreased. Trained staff report a smoother learning curve, less physical strain and consistent machine performance, which has boosted confidence on the shop floor.

The return on investment was projected in 36–48 months, supported by labor savings, lower setup costs, improved accuracy, and the ability to respond quickly to urgent orders.

Stronger with LVD

When LVD acquired Multifold in 2023, Signum noticed a clear improvement in support, documentation access, spare-part availability, and service responsiveness. Since then, after-sales support has continued to strengthen, further reinforcing confidence in the partnership.

Today, the panel bender is a core asset in Signum's facility, enabling the production of high-precision fire doors and general fabrication components that meet stringent safety and quality standards.

Profile

Company:
Signum Fire Protection (India) Pvt Ltd

Founded: 1992

Industry:
Fire protection, industrial & infrastructure solutions

Products:
Fire-rated doors, glazed partitions, rolling shutters, fire-stop systems, clean-room & acoustic solutions, sheet-metal components

Materials:
Mild steel, galvanized steel, galvalume steel, stainless steel

LVD Installation:
Multifold Panel Bender

Application:
Door frames, shutter components, stiffeners, channels, custom profiles

Website:
www.signum.co.in

RICOBB

Your cost-effective cobot buddy

Robotised bending is booming. But what if you're not quite ready to jump into the world of automation? Maybe the budget says "no". Maybe your press brake is still going strong, but your operator would be far more useful helping out somewhere else. Or perhaps you're gently steering your company towards a well-earned retirement, and not in the mood to invest in a brand-new bending cell.

In all these cases, Ricobb – Reliable Intelligent COBot Buddy - might be just the friendly nudge your company needs – a low-risk, budget-friendly entry into automation.

It can still boost the capacity of one or more existing press brakes, reduce labour shortages, and adapt smoothly to changing production demands.

Cost-effective automation
Ricobb is a flexible, collaborative bending solution designed for small parts up to 4 kg, keeping automation within reach. No need for major workshop renovations, safety fences, complex security systems, or control upgrades. This mobile cobot fits right into your existing workflow, bringing the benefits of automation – minus the heavy investment.

Why Ricobb?

- Cost-effective automation
- Compatible with LVD press brakes since 2001
- Fast integration and easy programming
- Customisable grippers

Compatible with LVD press brakes since 2001
Still proud of your loyal press brake? Ricobb is too. It integrates seamlessly with LVD press brakes from 2001 onwards, transforming your trusted machine into an automated bending solution.

Mobile & adaptable
Production priorities change quickly. Luckily, Ricobb can change with them, moving from one press brake to another. Once docked, it automatically identifies the machine for a smooth setup.

Reliable lights-out bending
Ricobb is built for consistent, accurate bending of small, simple parts and keeps performing even when the lights are off. It gets the job done so the press brake

can reach maximum output, even outside working hours.

Easy programming

Programming Ricobb doesn't require advanced skills. Thanks to its intuitive, icon-based interface, only minimal training is needed. Simply guide the cobot by hand to set pick, bend, and regrip positions – Ricobb records everything for fast, repeatable results.

Customise your gripper

Ricobb's lightweight stainless-steel gripper base can have part-specific extensions, customising to your applications within the payload limits.

"With Ricobb, we created a cobot bending solution tailored for small, simple parts. It boosts machine uptime and flexibility while freeing operators for more complex tasks. You can move it aside for manual use of your press brake during the day. Ricobb doesn't demand a full workshop makeover or a big slice of your budget. It's practical and accessible automation, ready to work right alongside you."

Get in touch:
sales.ricobb@lvdgroup.com

Stefan Rottiers, Sales Manager
LVD Robotic Solutions


POLYMA
Mobile Stromerzeuger und Flutlichtanlagen
SCHLAUE TECHNIK SCHLANK GEBAUT
www.polyma.net
Das Original!
Notstrom 100 kVA

POLYMA

POLYMA recently upgraded its manufacturing with a 6 kW *LaserTWO*, replacing a traditional plasma cutter.

It all began with the “light giraffe” – a mobile power generator developed by **POLYMA** that sparked a revolution in portable energy. Today, this 75-year-old German company is a trusted name in custom-built power generators and floodlight systems.

Whether it’s powering up remote construction sites, supporting disaster relief, lighting film sets, energizing festivals, or backing up critical maintenance work, POLYMA delivers electricity exactly where and when it’s needed – no grid required.

Each high-performance system is made in Germany with attention to detail and a high degree of vertical integration, ensuring top quality, tailor-made solutions.

With limited floor space and small production runs, the compact, cost-efficient LaserTWO was the perfect fit. It ensures faster, cleaner cuts, helping POLYMA power the world with even greater reliability.

www.polyma.net

materialized by LVD since 1952

Fast. Precise Repeatable.

MULTIFOLD PANEL BENDER

LVD's Multifold panel benders deliver high-speed production and exceptional repeatability, making them an essential solution for manufacturers working with panels of various sizes and materials.

MULTIFOLD 2540

MULTIFOLD 2511

MULTIFOLD 1211

Ready to Boost Your Panel Production?

Discover Multifold

LVD