



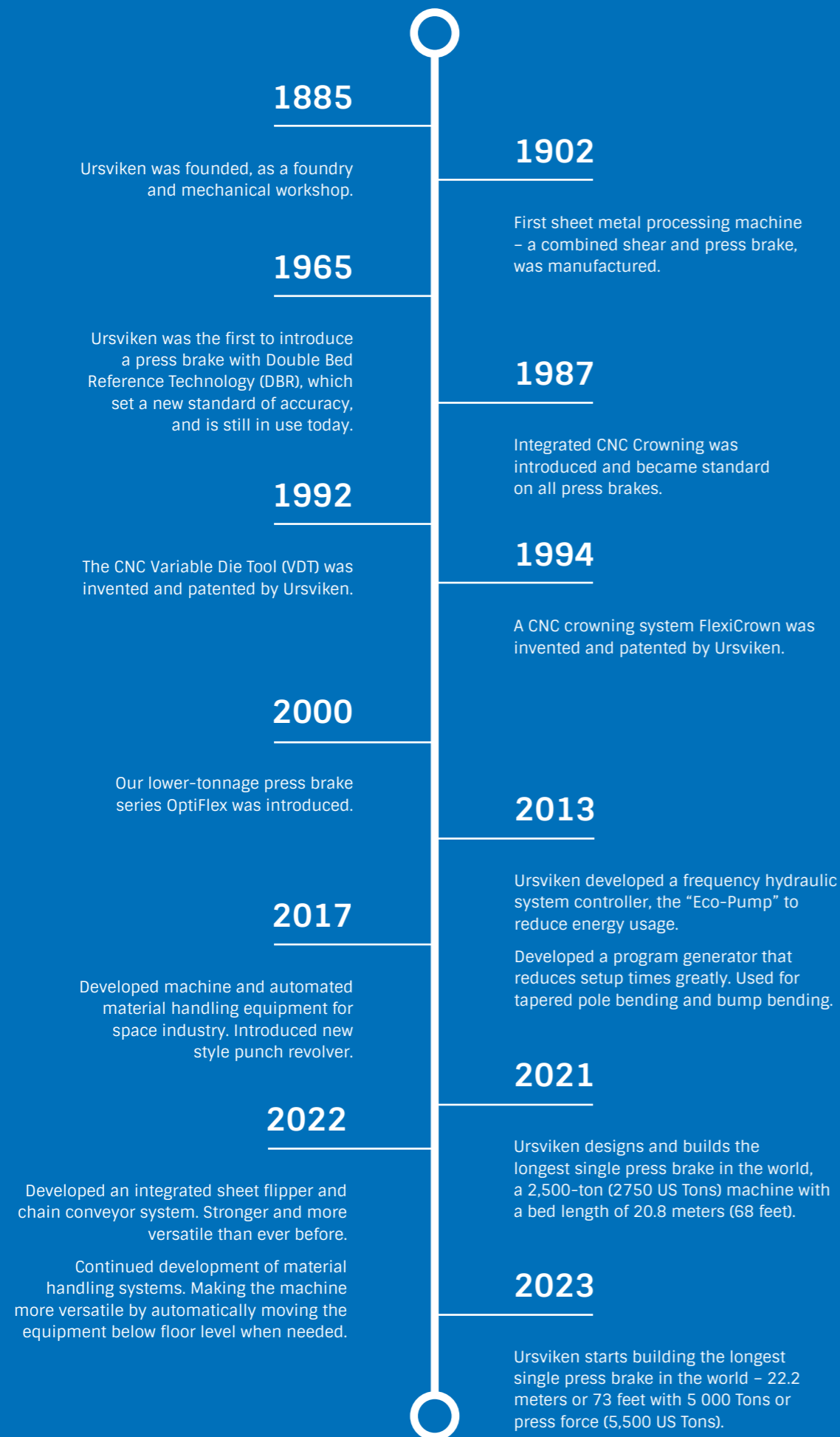
**URSVIKEN**



**OptiFlex  
Series.**



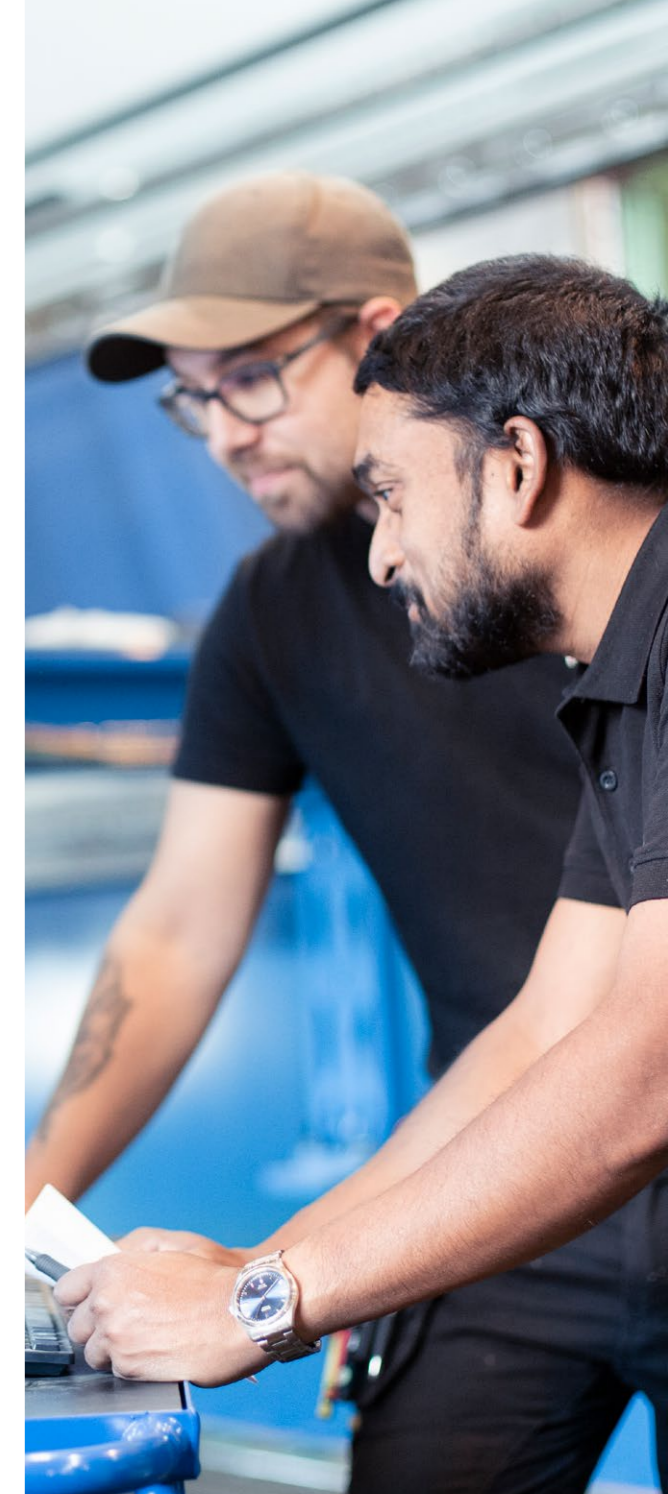
**URSVIKEN**



## ➤ About us.

Our machines are designed and built in our factory in Ursviken, located in Northern Sweden, and delivered all over the world. The factory was founded in 1885, and since then we have installed equipment to manufacturers in over 100 countries worldwide.

Today, Ursviken concentrates on heavy-duty, precision press brakes from 100 tons all the way up to 10,000+ tons (110 – 11,000+ US Tons), with a special focus on automated solutions. Accurate, repeatable performance is one of the characteristics of Ursviken press brakes that has made us a global leader in precision metal bending.



## ➤ Made in Sweden since 1885.



**Reliable Frame Construction.**  
The OptiFlex series uses Ursviken's proven interlocking bolted frame design to help ensure long-term accuracy and repeatability.

**Hydraulic System.** Top-quality hydraulic components are utilized throughout to help ensure safe, reliable operation and ready availability of spare components.

**Double Bed Reference System.** Originally invented by Ursviken in 1965, DBR is based on two independent master cylinders that automatically adjust to individually set the press beam depth, completely independent of frame deflections. DBR set a new standard of press brake accuracy that has changed the face of precision bending.

**Longevity.** All Ursviken press brakes are built to provide decades of accurate, repeatable performance. Many of our machines are still in operation after 50+ years, and they can be rebuilt to provide like-new performance for a fraction of the cost of a new machine.

**Many Production-Boosting Options.**  
VDT (variable width lower die), tooling innovations, robotic material handling, and much more.

**We have built machines with these specifications:**

- **Press force**  
100–400 Tons /  
110–440 US Tons
- **Length between side frames**  
2 100–6 100 mm /  
6'11"–20'
- **Tool space**  
550–585 mm /  
1'10"–1'11"
- **Stroke**  
400 mm /  
1'7"

**Do you need more press force? No problem, we can design a machine to meet your needs.**

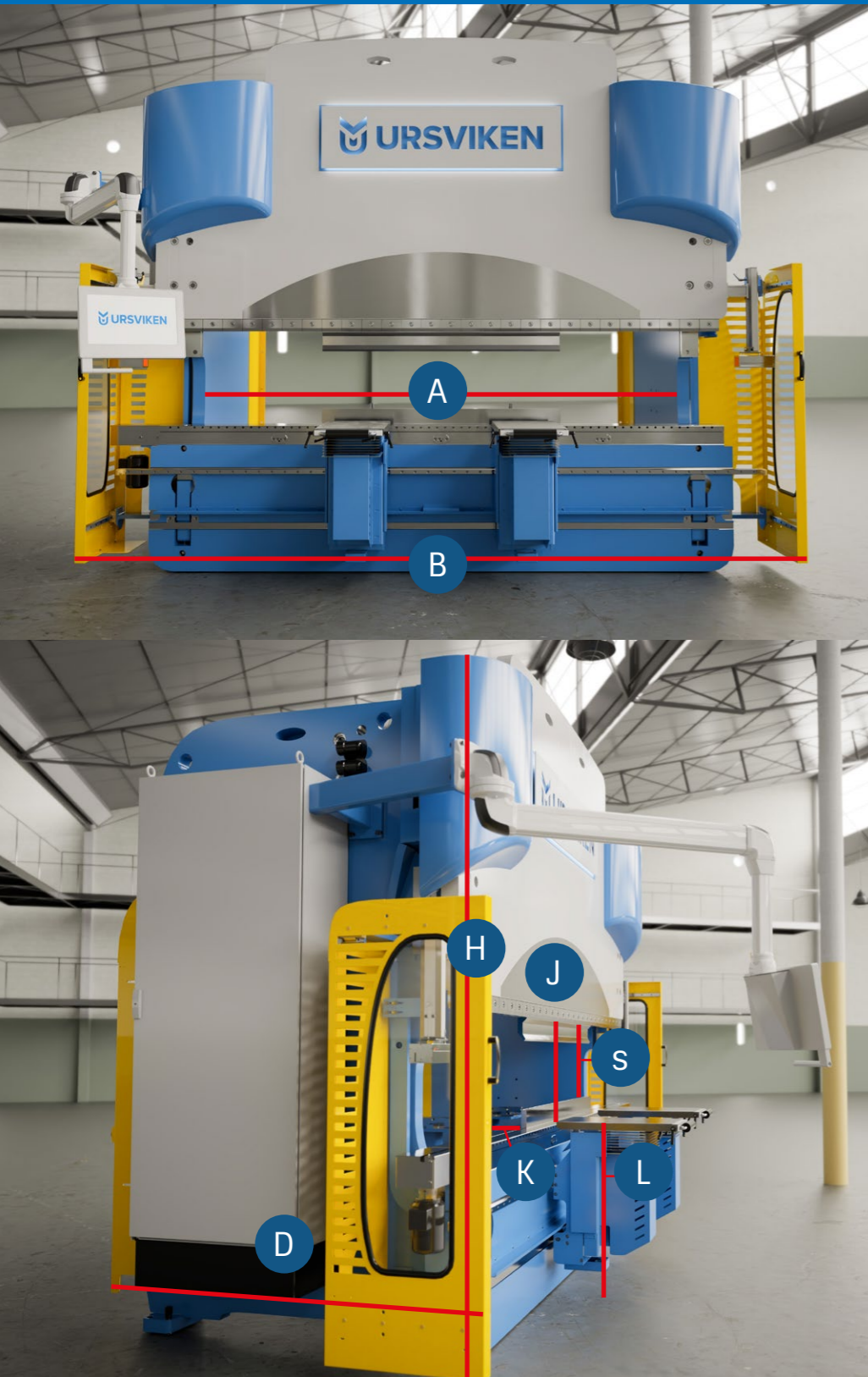
**➤ OptiFlex by Ursviken is the proven solution for precision bending.**



Scan the code to see OptiFlex in action.



# OptiFlex Technical Data.



- A** Width between uprights
- B** Overall machine width
- C** Pit requirement (N/A)
- D** Overall machine depth
- H** Machine height
- J** Daylight
- K** Table width
- L** Height from floor to top of bed
- S** Stroke length

| OptiFlex  | Dimension |      |     |       |              |     |         |      |     |       | Speed |     |    | Motor power kW | Hydraulic oil L | Machine weight ton |  |
|-----------|-----------|------|-----|-------|--------------|-----|---------|------|-----|-------|-------|-----|----|----------------|-----------------|--------------------|--|
|           | A         | B    | C   | D     | H            | J   | K       | L    | S   | ↓     | ↓     | ↑   |    |                |                 |                    |  |
|           | mm        | mm   | mm  | mm    | mm           | mm  | mm      | mm   | mm  | mm    | mm/s  | v   |    |                |                 |                    |  |
|           | Max / Min |      |     |       |              |     |         |      |     |       |       |     |    |                |                 |                    |  |
| 100 t 2.1 | 2100      | 3310 | -   | 2150  | 3090 / 2930  | 550 | 100/200 | 900  | 400 | 250 * | 16 *  | 160 | 11 | 200            | 11,0            |                    |  |
| 100 t 2.6 | 2600      | 3810 | -   | 2150  | 3105 / 2930  | 550 | 100/200 | 900  | 400 | 250 * | 16 *  | 160 | 11 | 200            | 12,0            |                    |  |
| 100 t 3.1 | 3100      | 4310 | -   | 2150  | 3125 / 2930  | 550 | 100/200 | 900  | 400 | 250 * | 16 *  | 160 | 11 | 200            | 13,0            |                    |  |
| 130 t 2.6 | 2600      | 3810 | -   | 2300  | 3325 / 2930  | 550 | 100/200 | 900  | 400 | 140   | 15 *  | 150 | 22 | 200            | 13,0            |                    |  |
| 130 t 3.1 | 3100      | 4310 | -   | 2300  | 3325 / 2930  | 550 | 100/200 | 900  | 400 | 170   | 15 *  | 150 | 22 | 200            | 14,5            |                    |  |
| 130 t 4.1 | 4100      | 5310 | -   | 2300  | 3465 / 3065  | 550 | 100/200 | 900  | 400 | 170   | 15 *  | 150 | 22 | 200            | 16,5            |                    |  |
| 160 t 2.6 | 2600      | 3810 | -   | 2300  | 3325 / 2930  | 550 | 100/200 | 900  | 400 | 140   | 15 *  | 150 | 22 | 200            | 13,0            |                    |  |
| 160 t 3.1 | 3100      | 4310 | -   | 2300  | 3325 / 2930  | 550 | 100/200 | 900  | 400 | 170   | 15 *  | 150 | 22 | 200            | 14,5            |                    |  |
| 160 t 4.1 | 4100      | 5310 | -   | 2300  | 3465 / 3065  | 550 | 100/200 | 900  | 400 | 170   | 15 *  | 150 | 22 | 200            | 16,5            |                    |  |
| 200 t 2.6 | 2600      | 3810 | -   | 2300  | 3325 / 2930  | 550 | 100/200 | 900  | 400 | 140   | 15 *  | 150 | 22 | 200            | 13,0            |                    |  |
| 200 t 3.1 | 3100      | 4310 | -   | 2300  | 3325 / 2930  | 550 | 100/200 | 900  | 400 | 170   | 15 *  | 150 | 22 | 200            | 14,5            |                    |  |
| 200 t 4.1 | 4100      | 5310 | -   | 2300  | 3465 / 3065  | 550 | 200     | 900  | 400 | 170   | 15 *  | 150 | 22 | 200            | 18,5            |                    |  |
| 250 t 3.1 | 3100      | 4350 | -   | 2530  | 3360 / 2960  | 585 | 200     | 900  | 400 | 120   | 10    | 120 | 22 | 200            | 19,0            |                    |  |
| 250 t 4.1 | 4100      | 5350 | -   | 2530  | 3500 / 3100  | 585 | 200     | 900  | 400 | 120   | 10    | 120 | 22 | 200            | 23,0            |                    |  |
| 250 t 5.1 | 5100      | 6350 | 400 | 2530  | 3860 / 3460  | 585 | 200     | 900  | 400 | 120   | 10    | 120 | 22 | 200            | 29,5            |                    |  |
| 250 t 6.1 | 6100      | 7350 | 600 | 2530  | 4010 / 3610  | 585 | 200     | 900  | 400 | 120   | 10    | 120 | 22 | 200            | 37,0            |                    |  |
| 320 t 3.1 | 3100      | 4350 | -   | 2530  | 3360 / 2960  | 585 | 200     | 900  | 400 | 120   | 10    | 120 | 22 | 200            | 19,0            |                    |  |
| 320 t 4.1 | 4100      | 5350 | -   | 2530  | 3500 / 3100  | 585 | 200     | 900  | 400 | 120   | 10    | 120 | 22 | 200            | 23,0            |                    |  |
| 320 t 5.1 | 5100      | 6350 | 400 | 2530  | 3860 / 3460  | 585 | 200     | 900  | 400 | 120   | 10    | 120 | 22 | 200            | 29,5            |                    |  |
| 320 t 6.1 | 6100      | 7350 | 600 | 2530  | 4010 / 3610  | 585 | 200     | 900  | 400 | 120   | 10    | 120 | 22 | 200            | 37,0            |                    |  |
| 400 t 3.1 | 3100      | 4350 | -   | -2700 | -3600 / 3200 | 585 | 200     | 1000 | 400 | 120   | 9,5   | 120 | 30 | 400            | -23             |                    |  |
| 400 t 4.1 | 4100      | 5350 | -   | -2700 | -3900 / 3500 | 585 | 200     | 1000 | 400 | 120   | 9,5   | 120 | 30 | 400            | -28             |                    |  |

\* With LazerSafe, high speed down 170 mm/s and press speed 10 mm/s.  
Subject to change without notice.

➤ Ursviken offers a variety of innovative solutions to automate your bending processes.



## Benefits include:

- Reducing or even eliminating operator involvement in the bending process.
- Ursviken's control interfaces fit seamlessly with most major robot brands.
- Increased Quality and Productivity.
- Ursviken can provide a turnkey solution, or we can work with your existing robot integrator.

Ursviken press brake equipped with robots allow you to quickly get up and running to deliver high quality products to your customers. Noise levels and energy consumption are reduced, and heavy, monotonous and risky work for employees can be eliminated in many cases.

Proper safety guarding is crucial, and Ursviken can provide turnkey packages, including interlocked fencing, light curtains, laser guarding, scanners, safety mats, and other components that will ensure compliance with safety standards, while maintaining high productivity.

# ➤ Features that maximize your productivity.

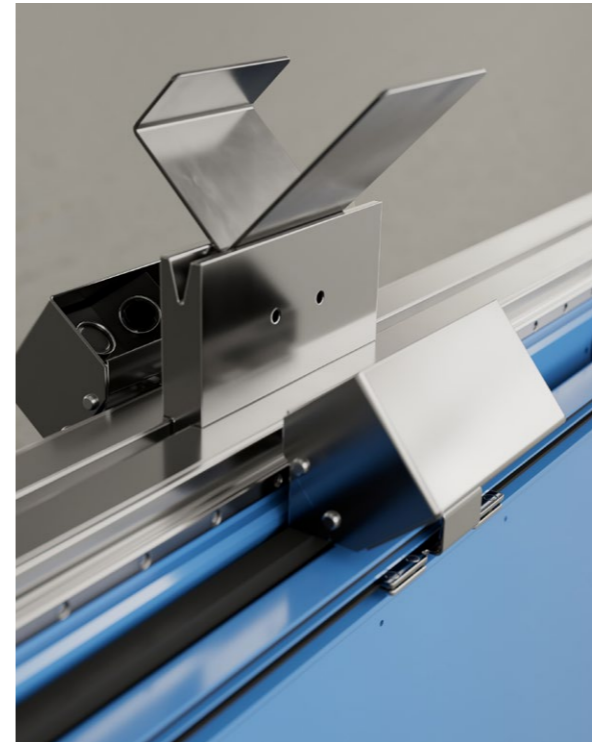


## Variable Die Tool (VDT)

Dramatically increase your productivity by adding an Ursviken VDT to your machine. Combining accurate bends with fast changes to bend radius will help you maximize your capabilities.

**CNC controlled** – Allows you to adjust the V-opening from the control panel in seconds.

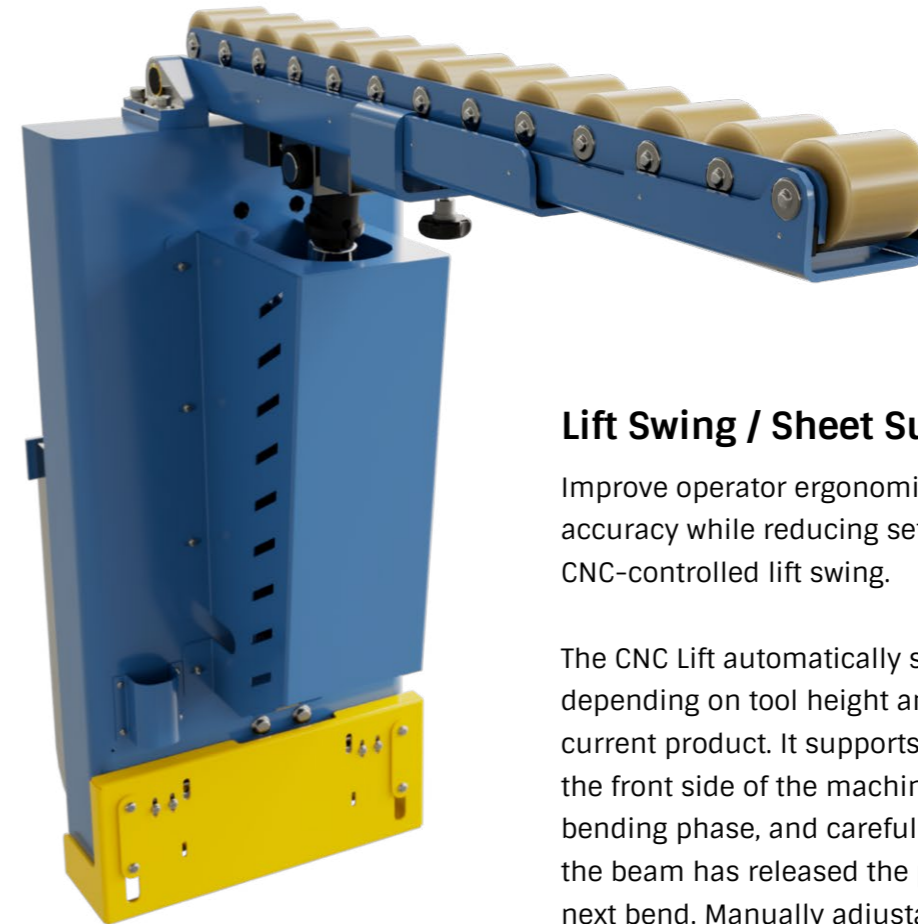
**Automatic setting of V-openings** – The different openings of the die along with contours are stored in the CNC die register, enabling a computer simulation of the bending sequence and automatic setting of selected die openings in the program.



## Angle Control System

Mechanical Angle Control allows the programmed angle to always be retained irrespective of material quality. The system traps deviations both in sheet thickness and different spring backs.

Optical Angle Control measures the bending angle by scanning the projection of the laser beam on the surface of the sheet metal and the integrated camera. It enables an exact determination of the bend angle with an accuracy of better than  $\pm 0.3^\circ$ , irrespective of the variable properties or thickness of the material.



## Lift Swing / Sheet Support

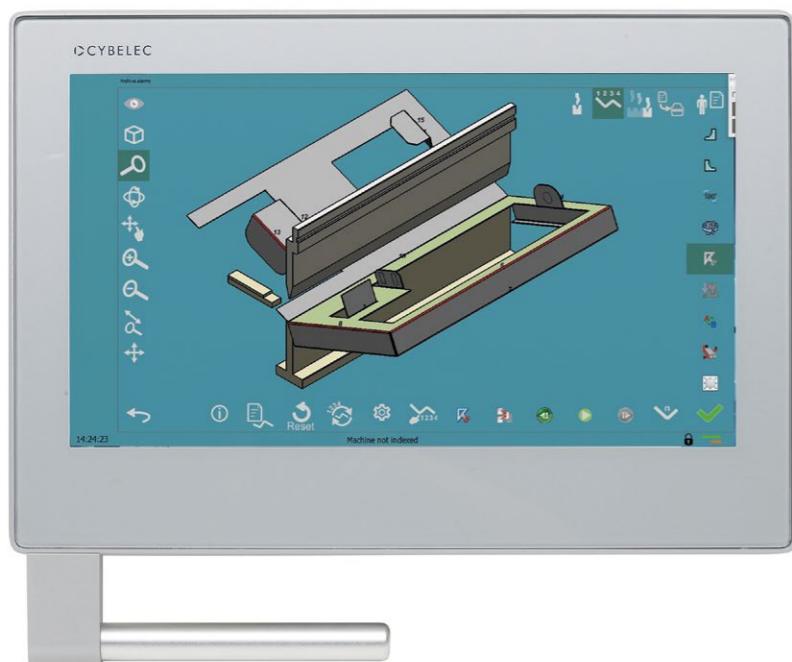
Improve operator ergonomics, safety and part accuracy while reducing set up time with a CNC-controlled lift swing.

The CNC Lift automatically sets the right height depending on tool height and shape of the current product. It supports the metal sheet on the front side of the machine throughout the bending phase, and carefully lays it down once the beam has released the profile, ready for the next bend. Manually adjustable sheet supports are also available.



### EcoPump

As energy prices are in-creasing, the Ursviken EcoPump will decrease your energy usage by up to 95% by allowing you to set the power consumption of the motor by bending cycle. Other benefits in-clude reduced wear on the hydraulic pump and motor, decreased noise level and oil temperature as well as extended oil life.



### Tool Magazine

The Ursviken tool magazine will reduce unwanted pauses in production and improve operator working environment by making it easy to access and change the necessary tools quickly.

### 3D Bending Software

Increase productivity and reduce scrap with a 3D bending software. Import the product, simulate bending, and export the flat pattern to get it right the first time. The software can be used on the machine controller and/or on a PC.





## › Custom Tooling solutions.

Consult with our experts and let us show you how Ursviken's custom tooling solutions can boost your productivity and profits.

In addition to a variety of standard tooling and holders available with European, American and Wila-style mounting we offer innovations such as rotating punch tips and special tooling shapes – all made with the finest materials to industry-leading standards of quality and accuracy.

### **Rotating punch tip /Tool tip rotator**

The revolving tool changer allows fast tool change of up to 3 tool tips. The cylinders lift and lower the pivot shaft where the tool tips are mounted, while the motor rotates the shaft. Tool selection is made as usual from the control panel and the system automatically changes to the right tool.

### **Special tooling shapes**

We can adapt our tools to accommodate your product and material used. Some examples of special tooling we offer are gooseneck shapes, a round tapered tool ideal for pole production or tooling to form corrugated metal. Let us know your needs and we can design custom tooling to fit your product.

## Let us know your needs and we can design custom tooling to fit your product.

## › Our service offering.

We at Ursviken are dedicated to providing support during the entire life cycle of your machine, so you can rest assured your operations will run safely and efficiently. Our goal is to help you maximize uptime, extend lifetime, enhance performance, and boost energy efficiency of your machine. Our service team consists of highly skilled technicians who specialize in servicing press brakes and shears.



### **Planned services**

Protect your investment and avoid costly downtime efficiently and effectively with yearly safety checks and preventive maintenance.



### **Recovery**

Our service experts are at your disposal, on-site or remotely, to ensure a fast recovery back to production.



Many of our machines are still in operation after 50 years.





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