

OPTIFLEX

Empowering CNC Press Brake Technology
to achieve maximized productivity



URSVIKEN

An Ursviken Group Company

Ursviken Group empowers the productivity in metal sheet fabrication



All our machines include a comprehensive warranty and training program.

Tailor made solutions for customer applications is one of Ursviken's reasons for long term relations and great success during the years.



The Ursviken Group is a global business network of metal working solutions and service support providers. Building on a solid experience and history of over a century at the forefront of metal working and sheet metal fabrication, we offer a comprehensive package of high-quality solutions and life cycle services – enabling customers in over 100 countries to take a tiger leap in their return-on-investment, ROI.

Enhanced productivity for a variety of industries

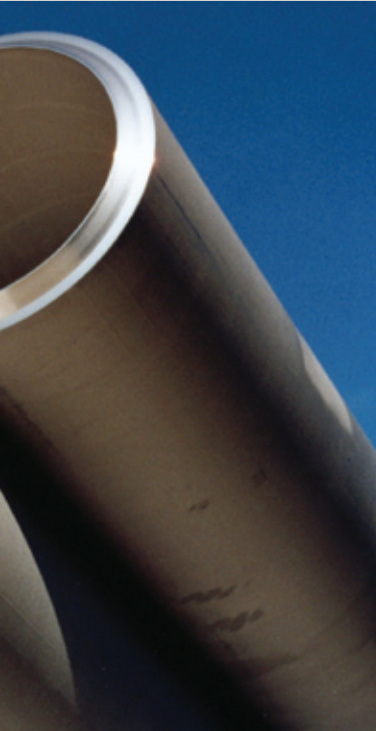
The group companies offer enhanced productivity to customers operating in a variety of industries,

including telecommunication, electronics, machine manufacturing, construction equipment, tube and pole manufacturing as well as ship building.

For a profitable and flexible production

The two leading experts in metal sheet working: the Swedish Ursviken Technology AB and the Finnish Pivatic Oy are the first members of the global business network.

Ursviken Technology is a source for knowledge and service in metal working equipment. Pivatic is the pioneer in coil process fabrication solutions.



Machines from Ursviken are successfully used within many varieties of manufacturing industries like infrastructure, construction...



...and for manufacturing of agricultural equipment.

Our extensive knowledge and experience enables us to provide the customer with solutions and services that ensures a better return on investment.

Extensive product support

All our machines include a comprehensive warranty and training program. Additionally, we offer a wide range of services including maintenance contracts, remote diagnostics (via modem or Internet), and application support. A wide range of training courses is available to suit individual customer requirements.

Ursviken Technology

Ursviken Technology was established as a manufacturer of machine tools in 1885 – spanning three centuries! Continuous investment in research and development has resulted in design concepts that have given our products a worldwide reputation. By listening to our customers and providing innovative solutions to suit their requirements with a focus on quality and value, we believe that our continued success is assured and our position as the market leader will be retained. This is a position that we plan to keep and strengthen.

OptiFlex – Form Follows Function

OptiFlex is the benchmark for a complete new generation of CNC press brakes, symbolizing a departure from traditional design concepts in both performance and appearance. It incorporates many unique features and options to optimize forming profitability.

The OptiFlex press brake range can provide you with “tailor made” solutions to your forming requirements. The OptiFlex represents our first press brake designed utilizing sophisticated computer modelling throughout the engineering and manufacturing process. OptiFlex – the optimisation of individual modules resulting in a no-compromise solution for superior accuracy and flexibility in bending.

Smarter by Design

The expanded geometric design of the OptiFlex means more – more open height, longer stroke, unlimited gap and increased back gauge travel. Standard equipped, the OptiFlex offers one of the largest working envelopes ever. Modular construction techniques have resulted in a machine providing great features to enhance day to day versatility.

Performance Platform for Today and Tomorrow

Super Charged well describes the performance of the OptiFlex press brake. High velocity hydraulics and advanced electronics coupled with AC servo drives propel the axes at lightning speed via fast-pitched ball screws without compromising accuracy or reliability.

Intelligent Safety

OptiFlex is available with integrated safety features that will enhance the machine productivity rather than inhibit it. More than 20 user-selectable modes of operation make our guarding system adaptive to the specific production environment.

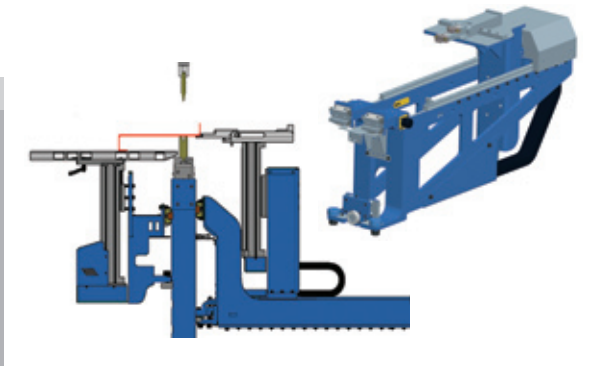
The Economics of Ergonomics

People are one of your most important assets! A user-positional control system, fully programmable sheet support and manipulation axes, programmable dies, tool storage systems and a wide range of tool clamping systems are available to provide a positive ergonomic working environment that your operators will appreciate.



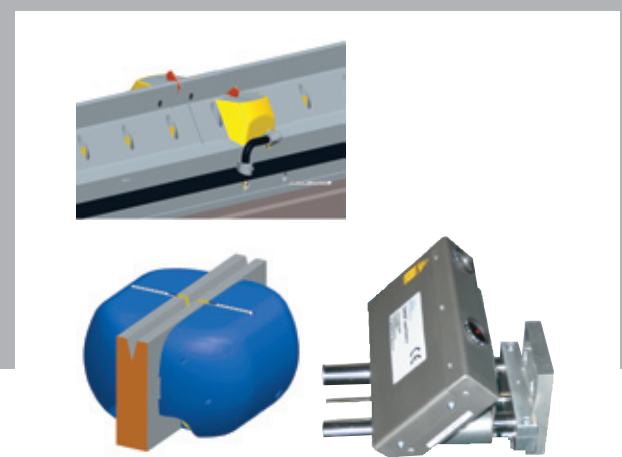
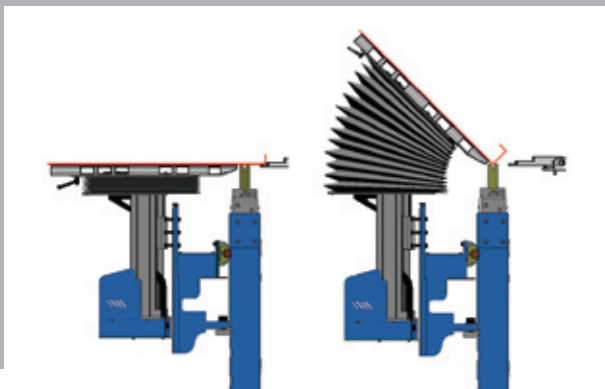
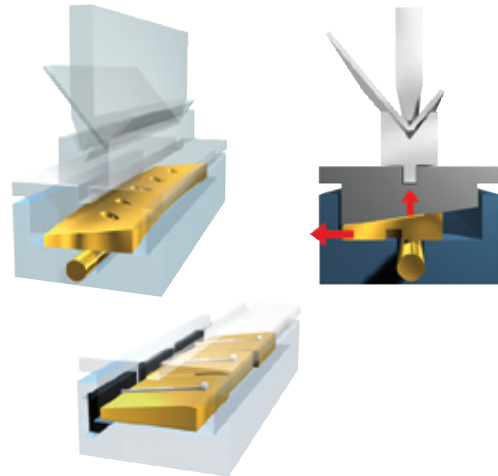
Back Gauges

The high velocity back gauges possess a huge strength-to-weight ratio with minimal intrusion into the forming environment. Travel limits have been extended in all three dimensions (X-R-Z) and enhanced gauge fingers increase the gauging versatility.



Deflection Compensation

Absolute accuracy demands accurate crowning. The OptiFlex system incorporates a full-length wedge, a true axis with feed-back for full control. The CNC will optimize the crowning based on the forming variables.



Programmable Sheet Supports

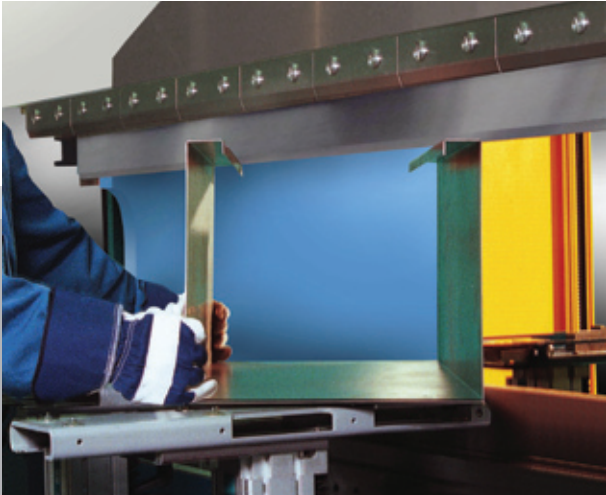
CNC controlled sheet support systems not only act as a support arm, they also ensure accurate material positioning for accurate bending. For larger parts a sheet follower can be added that will automatically follow the speed of the ram throughout the bend cycle. Stand-alone or combined, these features will significantly improve part accuracy and reduce operator fatigue.

Angle and Spring Back Measurement

This patented device is active throughout the bending cycle to ensure angular accuracy regardless of material variations and forming conditions. Available for single vee dies or integrated to the programmable lower die (MP-VDT). The system can be user configured with multiple stations to measure at strategic positions along the bend line.

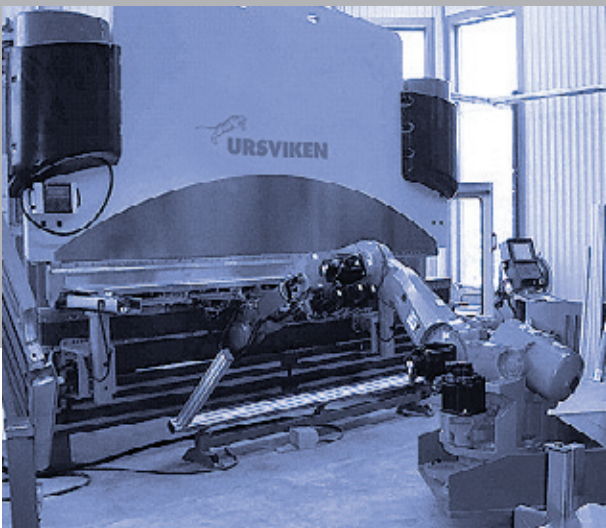
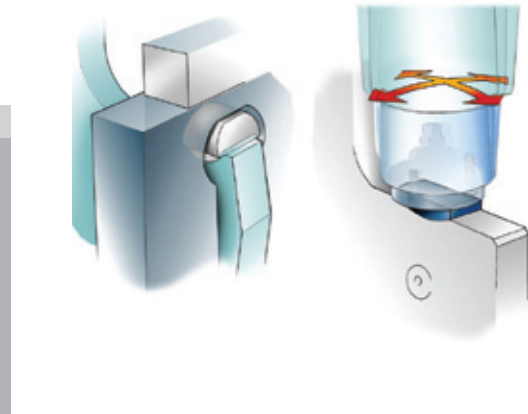
Extended Tool Space

OptiFlex is standard equipped with extended stroke and daylight, adding simplicity in set up and greater choice of bending methods for maximum productivity.



Attachment of table and ram

A unique flexible coupling between the upper ram and piston rod allows the programming of large tilts of the ram with no possibility of damage to the cylinder.



Robot application

Ursviken has extensive experience of working with robots and an efficient interface. Ursviken co-operates with all high quality industry robots and guarantee the highest flexibility and availability.

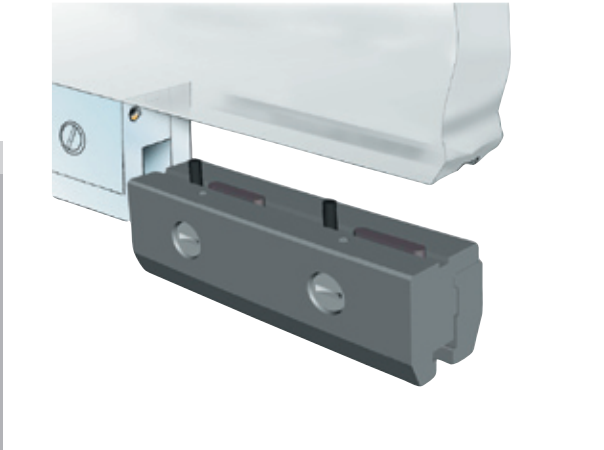


Control System

The control system offers two alternatives that show product programming graphically in 2-D or 3-D. Powered by AutoPOL off line software as an option, we take the metal sheet fabrication to a new dimension. Use true 3-D models, bend simulate in virtual environment, bending process is considered when educated .dxf file is generated automatically for correct blank size. NC code for the press is generated in the same moment.

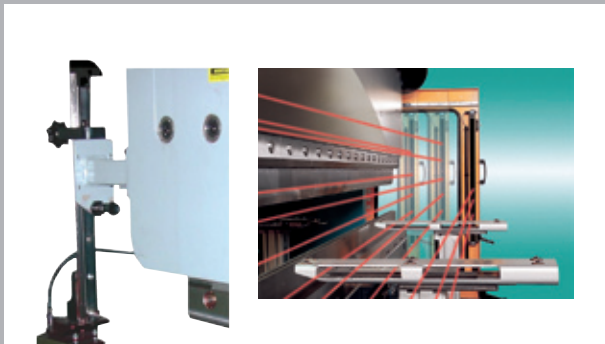
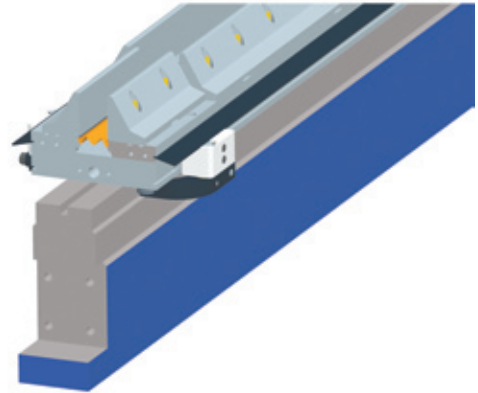
Power Clamping

Freedom of choice best describes our range of tool clamping. The industry's most compact clamping systems for upper and lower tools are available to accommodate all common tooling configurations.



Programmable Lower Dies

Multi purpose VDT (MP-VDT) is our fully programmable lower die. Set up reductions of 80 % or more, will significantly improve machine utilization. With interchangeable, sectionalized anvils and multiple die openings in the same setup, unmatched performance and flexibility is achieved.



Safety Equipment

All Ursviken press brakes can be equipped with a variety of guarding systems. To ensure safe operation and maximum flexibility Ursviken's integration of the guards provides optimal safety while enhancing productivity to yield greater throughput.



Unlimited gap frame design

Unobstructed bending is achieved by positioning the side frames at the ends of the bed, thus optimizing full-depth, full-length forming capabilities.



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