

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.

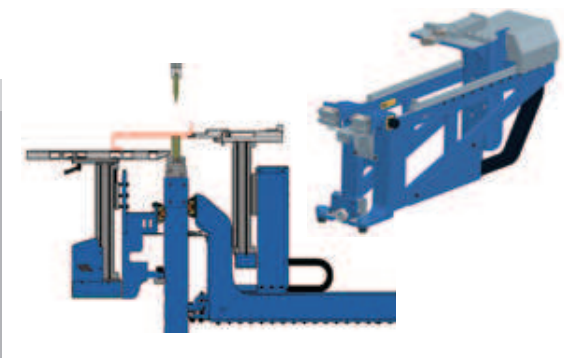
The Economics of Ergonomics

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.



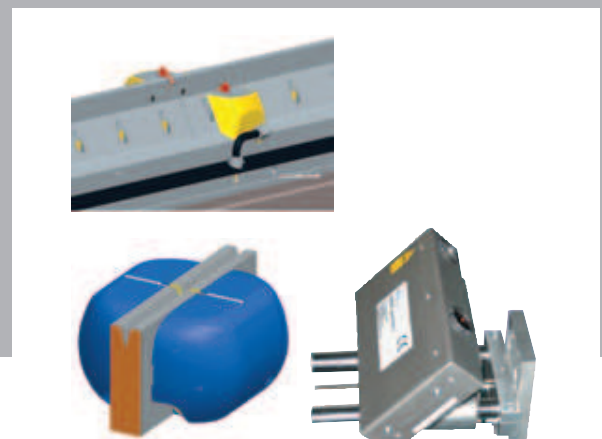
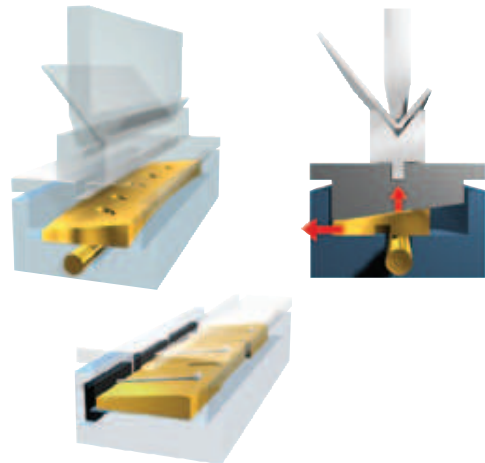
Back Gauges

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.

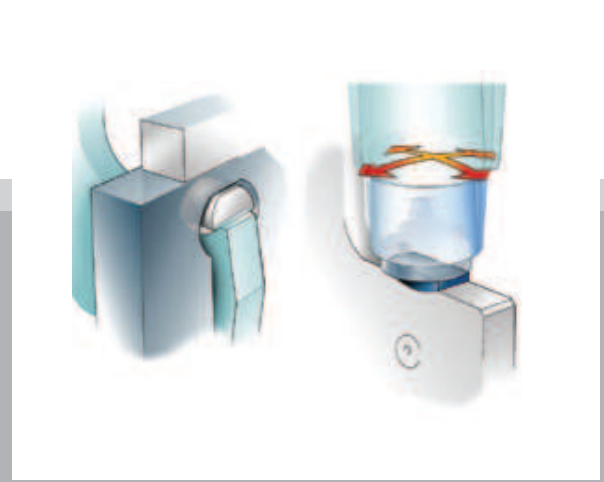
Extended Tool Space

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.

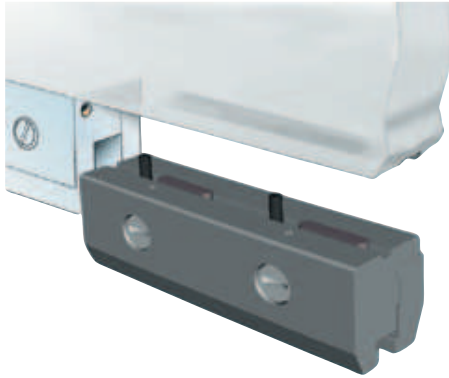


Control System

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.

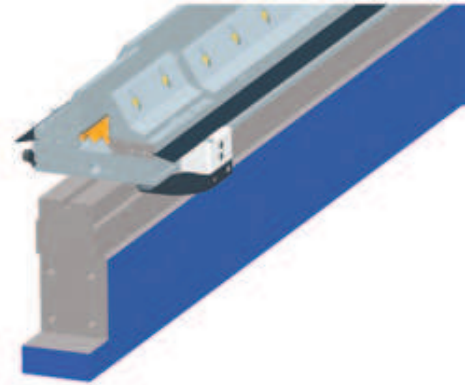
Power Clamping

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.



Ursviken Optima – advanced forming technology for plate fabrication

Ursviken is a leading manufacturer of CNC press brakes for sheet metal and plate, that has for more than 60 years continuously improved and developed press brake bending technology. With this extensive experience, the OPTIMA series has been developed to meet the demands of plate fabrication. With ongoing research and development Ursviken is uniquely qualified to deliver machines with accuracy, performance, efficiency and quality as their foundation

The Optima press brake has features that will optimize the bending result, regardless of material thickness and quality. These features reduce set

up time and eliminate trial and error bending thus increasing productivity.

The Optima press brake can be customized to suit individual applications with different daylight, stroke, throat depth and bend length. The Optima can be equipped with light guards or security by laser beams, to facilitate a safe bending environment. Of equal importance is to provide the operator(s) with an ergonomic working environment. The Optima can be fitted with material handling/supports. A comprehensive training program is included with each Optima.



Common options available with the Ursviken Optima CNC Press brake

- Lift/Swing (material support/follower)
- Programmable lower dies (VDT)
- Angle control with automatic compensation
- Application driven tooling packages
- Tool magazine
- CNC-crowning (deflection compensation)
- Tandem operation

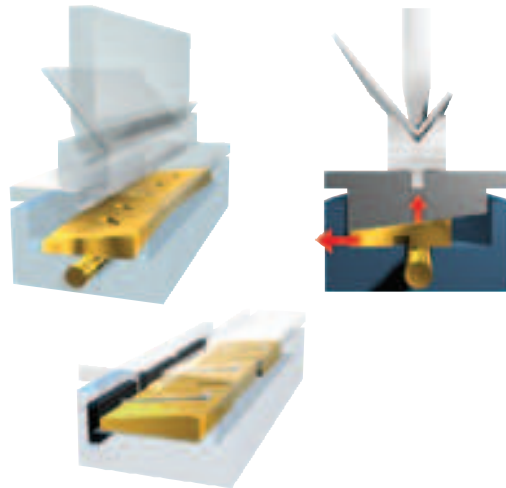
Lift/Swing

CNC-controlled lift, electrically driven in vertical direction. The programmable table bracket can be equipped with a pivoting front bracket. This allows for material support during the entire bending cycle. This contributes to improved ergonomics, increased part accuracy and reduced set up time.



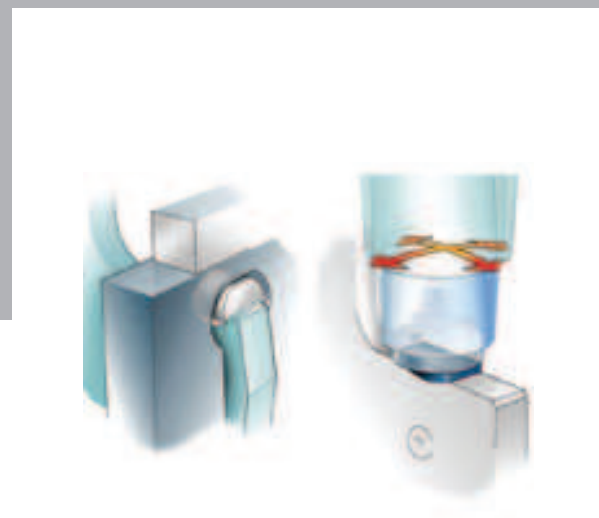
Crowning

CNC controlled crowning, eliminates the need for shimming dies. With high repeatable accuracy of the crowning system consistent bends are achieved. For special requirements the Optima can be equipped with an advanced crowning with localized adjustment, FlexiCrown.



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.



Attachment of table and ram

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

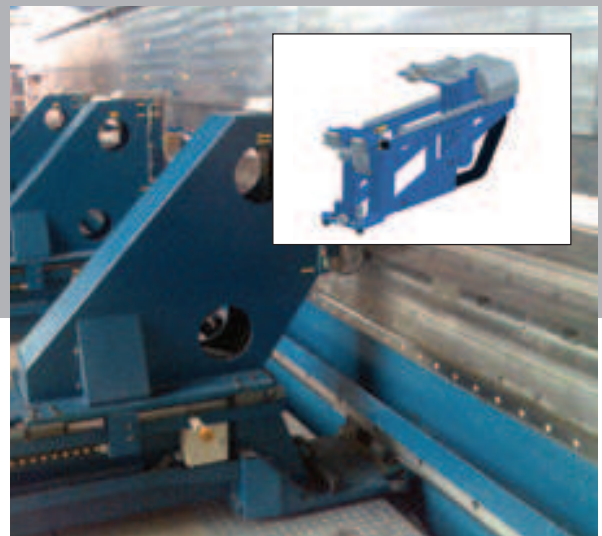
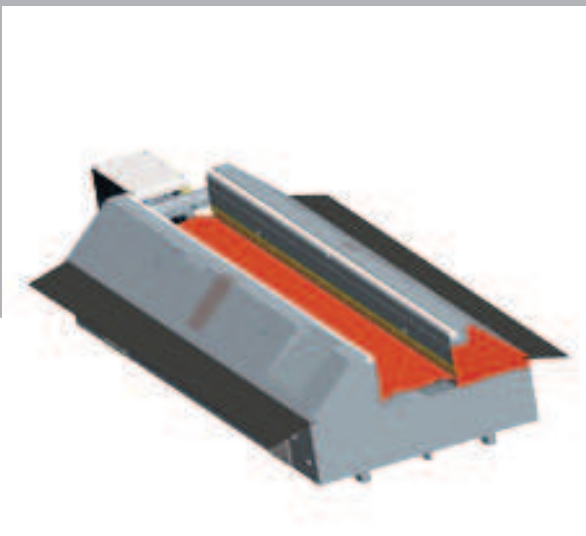
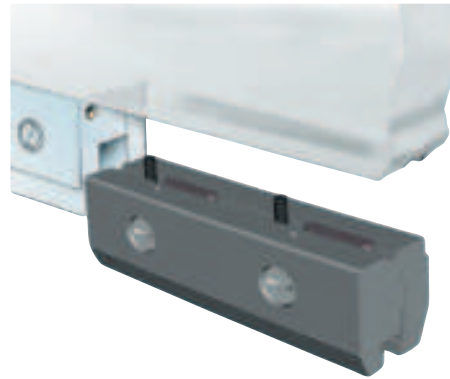
Tandem operation

For applications where additional bend length is required, all Optima's can be placed in tandem. Forming can then be done in tandem or as two stand alone machines.



Tool attachment

Choose between several alternative upper tool attachments with manual or hydraulic clamping.



VDT and angle control system

The programmable lower tool, VDT and Ursviken angle control system combines accuracy with fast set up tooling. These two options increase productivity dramatically.

Back gauge

The heavy duty stroke back gauge allows a greater gauging depth with material support. This increases gauging flexibility and significantly improves accuracy while reducing part handling. Back ganges are available in different models and sizes.