

Guillotine Shears



Ursviken Quality Shears

Ursviken has become a familiar name within the plate working industry. Thanks to our knowledge and ability to constantly meet customers' demands we have reached a market leading position within the manufacture of plate working machines world wide. Our standard program includes CNC controlled hydraulic shears for cutting plates of thicknesses up to 45 mm. The machines are built with wellproven and reliable components, chosen to ensure the best possible cutting results and economical production.

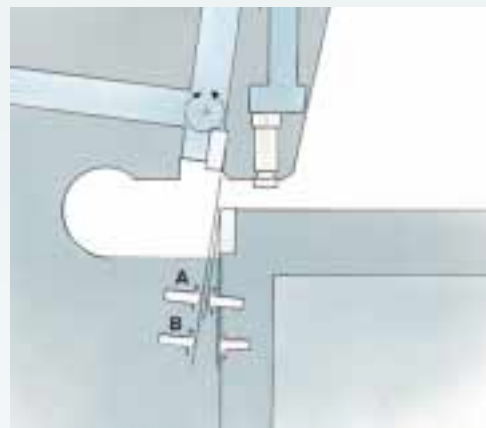
The control system is especially developed for Ursviken shears. In addition to an advanced control program it contains a unique function that interprets important machine information into written text. This increases the capacity of the operator and reduces the risk of wrong demands. The control system can be equipped with Remote Service Support (RSS) which makes it possible for Ursviken technicians to carry out trouble-shooting and updating of machine functions over a telephone modem.

Many of our machine deliveries include CNC controlled equipment for feeding in and out, conveying and stacking. Ursviken has a vast experience in the design and manufacture of CNC controlled cutting plants, where for example, cutting, material flow and intermediate stacking are optimized in respect of economy and production.



Automatic setting of blade clearance

By a patented design the upper guide of the cutting beam can be displaced forwards or backwards and thanks to the low location of the fulcrum increasing or reducing the cutting angle and the play between the shear blades. By programming the data of the material to cut into the control system, the blade clearance and the cutting angle will be automatically set so that the cut will always be square. A shear with correct adjustments always gives a better cutting result. Furthermore the shear blades will last longer than in shears with fixed cutting angle or in swing beam shears.



A = Blade clearance

B = Cutting angle



Steplessly variable cutting angle

The cutting angle is steplessly variable. The setting is done automatically or direct from the control panel and the angle set is displayed in writing on the panel. Thin plates can be cut with small angle which reduces the deformation, gives better cutting result and shorter cutting time. In order to further improve the cutting economy, the shears as standard have the possibility of automatic limitation of the cutting length.

Unlimited turnable shear blades

The shear blades can be turned and are the same in bed and beam. The blades have a rectangular cross section and thereby four cutting edges. A special attachment and design makes it simple to change and turn the shear blades.



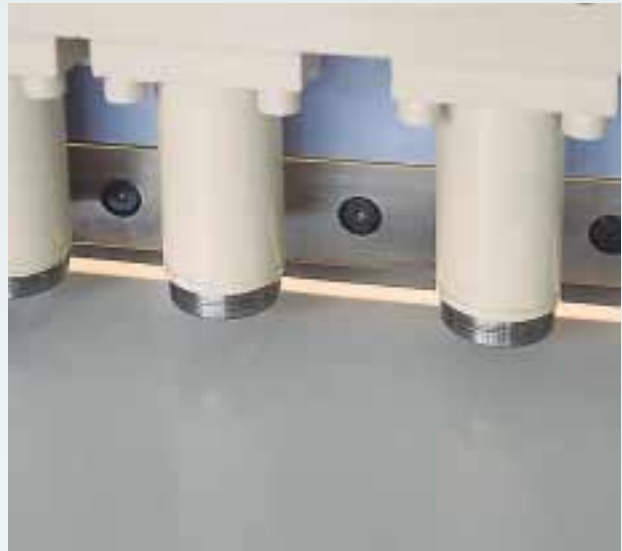


Plate holders increasing the power when needed

A large number of closely located, individually acting plate holders hold the plate during the cutting cycle. During the actual cut the plate holder power is automatically controlled by the cutting power. The plate thickness is also automatically considered so that the power is adjusted when cutting thick plate and different material qualities.

Shadow light increases the precision

Ursviken shears are equipped with a shadow light for cutting to a scribed line. The upper shear blade gives a distinct borderline between shadow and light and marks out where the cut will be. The shadow light follows the setting of the blade clearance, thereby always securing an exact cut.



Rigid motorized back gauge

The back gauge has servo operation and ball screws. Desired setting and cutting cycle is programmed into the control system with an interval of 0.1 mm. In order to allow best possible accuracy stopping is always in minus direction (towards the operator). The cutting movement of the shear is blocked until the back gauge stops at the programmed measure. The feed-in is therefore quick and effective, without risk of miscutting. The gauge reverses automatically during the cutting movement.



A feed-out conveyor that increases the productivity

By adding a feed-out conveyor to the shear the handling time for stacking of cut plates and removal of trim cuts can be considerably shortened. Ursviken has feed-out conveyors of different executions and with different functions depending on type of production and demand of productivity. There are for example conveyors with pneumatically controlled plate holders, scrap separation and adjustable stacking function.

Feed-out conveyors are optional equipment.

Unique finger guard with self detecting safety setting

The GSA shears have an electrical and hinged finger guard. The guard can easily be completely turned up for checking the position of the plate when cutting to a scribed line at which time it is not possible to operate the shear. The finger guard is so designed that from a safety point of view the correct distance between the height of the opening and the distance to the plate holders is automatically set.

The GSB is equipped as standard with a light curtain. It is also available on the GSA shears.



With QBC the shear blades can be exchanged at least 20 times faster

Sharp shear blades always give a better cutting result. By using the Ursviken QBC – the patented quick blade change for shear blades – the time for changing or turning shear blades can be considerably reduced. In a three metre shear one man can change or turn the shear blades in 15 minutes. Thanks to the extremely short handling time you can always choose the right shear blade for every plate quality.

QBC is optional equipment.



Ursviken Guillotine shear GSA - reliable production machine for plate thicknesses 8 to 25 mm and cutting lengths 3 to 6.5 m

The Ursviken GSA is one of the most well known hydraulic shears in the world. The GSA shears are the base of the heavy program, made for cutting heavy plate with relatively small cutting angles (adjustable between 0.5 to 4°) but the shears also function perfectly for cutting of thin plate.

GSA is equipped as standard with openings in the frame to make it possible to cut plates longer than the nominal length of the machine. The hydraulic system is built up by modern block hydraulics with logic elements to enable an even and shock-free operation. The GSA shear is available in 16 models.

Short facts about the GSA

- Electro-hydraulic setting of the blade clearance
- Steplessly variable cutting angle
- Automatic limitation of the cutting length
- Reversible, divided shear blades
- Hydraulic synchronisation of the cylinders
- Shadow light
- Individually acting plate holders with separate control
- Powerful plate holders
- Hinged finger guard
- Modern block hydraulic with logic elements
- Rigid motorised back gauge
- Automatic withdrawal of gauge bar when cutting
- Lifting of back gauge bar



Ursviken Guillotine Shear GSB - powerful shear for cutting of high tensile material in thicknesses 14 - 45 mm and cutting lengths 5 - 8 metres

The Ursviken GSB is the shear for heavy material. Thanks to the setting range of the cutting angles, 0.5 to 5°, the GSB shear has the capacity and the setting range to accommodate cutting of both traditional and modern high tensile material.

The rigid design and the very tight tolerances in the manufacture makes it possible to also cut thin plate. For even bigger jobs there is a larger model, the GSC shear.

The GSB shear is available in 15 models.

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GSC delivered to SSAB in Oxelösund. Cutting capacity corresponding to about 70 mm, cutting length 3.5 metres in material with tensile strength 500 N/mm².



GSB model 965 delivered to Smidesbolaget in Degerfors. Cutting capacity 45 mm, cutting length 6.5 metres.



Shear model GSA 440. Cutting capacity 10 mm, cutting length 4 metres in material with tensile strength 500 N/mm².



Shear model GSA 440 delivered to Dalian Locomotive, China.

Ursviken specialise in the manufacture of shears and press brakes for shearing and bending of plate in thin and heavy gauge. We pride ourselves on being at the forefront of technology, a position we intend to maintain and strengthen. We have an international user base supported by a network of agents and representatives worldwide.

Our machines are reliable, but when you need help our service technicians are always prepared to assist you over the telephone or in your factory. From our large supply of spares we can quickly deliver parts for new as well as old machines.



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