



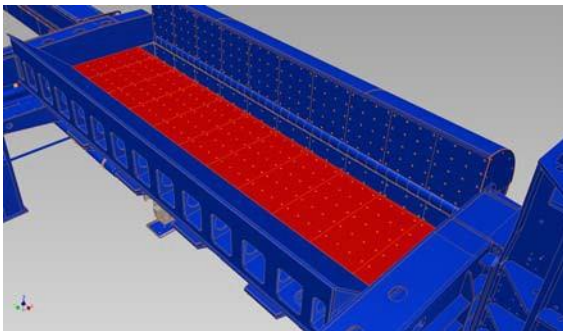
# HIGGINS BALERS LTD

RENEWING, REPAIRING, REPLACING

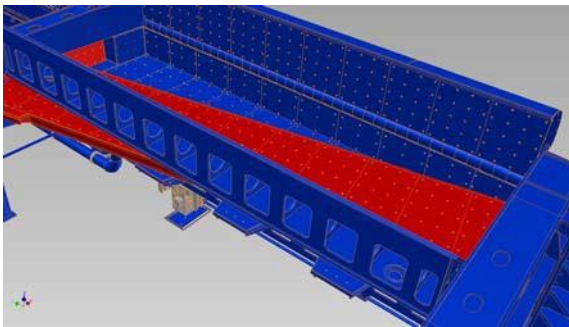
## MOROS H-P RANGE

The MOROS H-P range is a heavy duty scrap shear with side compression capable to compress very heavy scrap. The main technical advantage of the H-P shear is the “adjustable angle” lateral compression system. This system focuses all the strength of the cylinders on one point, therefore very heavy structural frameworks, tanks etc can be processed. Moreover, the exclusive MOROS system, with a lateral mobile wall in the pre-compression box, keeps this wall joined to the pre-compression block so the machine is impossible to be jammed. No material can get in between the block and the lateral wall in any case at all.

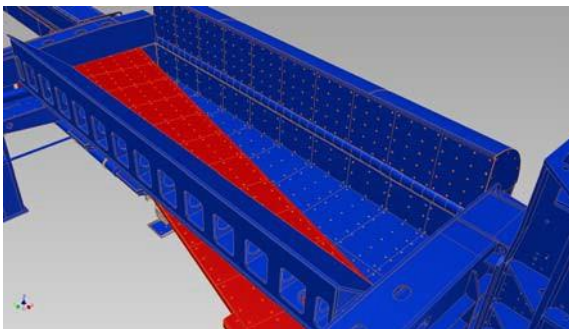
Besides, this system reduces the pre-compression time, increases production rates and reduces energy consumption, this is probably the most profitable shear per scrap ton produced in the market. The functioning of this exclusive system is as follows:



The shear lets you work in parallel or angular mode. With the powerful side compression block in the parallel position and the compression lid half closed, the scrap in the box is compressed as far as possible.



By selecting the angle adjustable mode the full compression force is exerted at one end of the piece of scrap providing immense crushing power.



By changing the angled force to the opposite end of the piece will practically eliminate any resistance thereby fully compressing the material. The lid goes down, compressing the scrap downward beyond the final closed position of the lid. Then the lid is raised slightly above its final closed position. The side compression block is fully extended and the lid is finally closed. The log is now ready to be fed to the shear head.





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In summary the HP advantages are:

- The “adjustable angle” system of the H-P, means the effective force of the lateral block is up to 600 Metric Tn. Moreover, you can focus this huge strength on one point.
- The HP has very reinforced closed guillotine. Extended V-shaped prismatic guide ways (adjustable and automatically greased). Thanks to the reinforced structure of the head and its innovative design, it can process very heavy scrap for years with minimum stoppages.
- Moros shears have been designed with the latest trends in hydraulics and electronics.
- Cylinder positioning control, double hydraulic circuits, etc allow reaching very high production rates with the minimum energy consumption.
- Every part in contact with another is machined to ensure a perfect fit. Every point in contact with the scrap includes interchangeable bolted HARDOX wear plates, including the lid and the upper part of the lateral block.
- Thanks to the exclusive Moros compression system of the H-P, the real loading length available is 11.2 metres, increasing dramatically the loading volume. Extra 1.2 metres are set to allow the angular movement of the lateral block.
- The Moros H-P shear includes a locking system that ensures the perfect position of the lateral block after compressing the material. This system increases the adjustment between the pusher and the lateral block, avoiding jamming and reducing wear in the compression box plates.
- Improved filtering system. All the oil returning to the tank is filtered before entering into the tank. In addition, a screw pump recirculates the oil continuously through a microfilter.
- Complete and automatic greasing system in the head and the loading box.
- Pump & cylinder test mode included: This system tests pumps and the main hydraulic cylinders during maintenance by using pressure transducers.
- General design to ease the general maintenance. For example a blade hydraulic tensioning system is included, there is a lot of space below the machine for cleaning labours, all the cylinders can be dismantled for easy maintenance,...
- Moros manufacture all the mechanical components of the machine and have a large stock of other commercial components. That is why they ensure spare parts throughout all the life of the machine and their after-sales service is well known worldwide. Moreover, all the commercial items used in the machine are first class to ensure the maximum quality. Including motors, pumps, electronics, hoses,...
- Teleassistance via internet included to avoid unscheduled stops and to improve customer service. Full data transfer in real time.

