# MOROS



# HIGGINS BALERS LTD RENEWING, REPAIRING, REPLACING

# HP Scrap Shears Total quality Engineering, Design and Manufacturing is our Trademark

**Industrias Hidráulicas, s.a.** designs and manufactures a wide range of balers, shears and rotary shears for processing scrap and other waste. Efficient, heavy duty and reliable machines for high productivity and minimum maintenance.

**Higgins Balers Ltd** and **Industrias Hidráulicas**, **s.a.** have been working together for many years. With the expertise of both companies you have the complete package for machine, installation and ongoing support.

### Industrias Hidráulicas, s.a.



### **OUR COMPANY**

Industrias Hidráulicas S.A. "MOROS" Industrias Hidráulicas S.A. "MOROS" has been designing and manufacturing machinery for more than 56 years. Our range includes high quality balers, shear-balers and rotary shears for working with ferrous and non-ferrous materials, in the following categories:

- Stationary balers: one, two or three compression balers, as well as high production and high density balers;
- Shear-balers with pre-compression wings, lateral compression shears, and lateral compression shears with adjustable angle system;



- Mobile and portable balers and shears; and
- Other machines such as paper balers, rotary shears and alligator shears.

Our machinery for recycling can be adapted to any customers need.

MOROS has agents worldwide, providing after sales service and maintenance.

Your UK agent is Higgins Balers Ltd: www.higginsbalers.com or email: info@higginsbalers.com



Agents worldwide: Argentina • The Benelux Countries • Bolivia • Brazil • Bulgaria • Chile • China • Ecuador • France • Germany • Greece • Italy • India • Kazakhstan • Kyrgyzstan • Mexico • Mongolia • Paraguay • Rumania • Russia • Saudi Arabia • South Africa • Tajikistan • Turkmenistan • Turkey • Ukraine • UK & Ireland • United Arab Emirates • USA & Canada • Uzbekistan

### DESIGN

Each of our models has been designed after reviewing case studies and carrying out extensive calculations, prior to modelling the information in CAD technology and applying the latest simulation techniques. The whole process is complemented by our vast experience in the design, manufacture and maintenance of machinery.



### **EVOLUTION AND FLEXIBILITY**

Our machinery constantly evolves. Through innovation, our constant review process, and our years of dedication to the scrap recycling market, allow MOROS to satisfy all our customer's needs.

With the design and manufacturing processes carried out 'in house' we have the capabilities and capacities to adapt our machinery to meet specific client requirements.





#### QUALITY

All our manufacturing methods follow our strict quality control standards, which are updated regularly, ensuring the quality of production you would expect from a successful, global manufacturer.



### QR Code

Scan the code with your phone to see the **MOROS** corporate video.



### **AFTER SALES**

MOROS customer service is well known worldwide and supported by Higgins Balers in the UK and Ireland. We now support customers and machines with new emonitoring devices, reducing unscheduled stops. Moreover, we ensure spare parts are available throughout the life of the machine, as we manufacture almost all of the components ourselves; those we don't, we generally carry in stock, so they are ready for delivery.

In addition we keep a record of all the machines we have manufactured in the last 56 years making spares tracking easier.



# **Performance**, Reliability

# and Productivity

### **SCRAP SHEAR H-P**

The system of lateral compression plates with angle adjustable is extremely effective at pre-compressing heavy and/or bulky scrap that no other shear on the market can process.

These gains during compression result in an increase of production rates. The latest trends in hydraulics and electronics allow the efficient use of power resources, making the H-P range in a very profitable and economic machine to run, per tonne of scrap produced.





### **Reinforced structure**

After years of production, the H-P is now well established in the market, thanks to its numerous technical advantages, as set out on these pages. It is the best example of structural construction that characterises MOROS.

It includes interchangeable, hiah strength steel wear plates, in all areas that are in contact with the scrap.

Loading boxes of up to 10 metres long (the material chamber is 11.5 metres long).

### **TECHNICAL FEATURES**

**ECHNICAL** EATURES

LOADING BOXES (metres)

CUTTING FORCES (tonnes)

BLADE WIDTHS (mm)

ENGINE POWER

AVAILABLE OPTIONS

H-P

900; 1100; 1400; 1750

6; 8 or 10

800; 1000 or 1500

### From 2 to 8, 125hp units

Pre-compression lid length increased including loading hopper, conveyor belt, antivibratory systems...we at MOROS can satisfy all your requirements

### **Technical innovations**

The exclusive MOROS system stops scrap jamming at the side of the material chamber box. When our innovative angle adjustable block (see below) is turned, it avoids the scrap jamming in the pre-compression process. This reduces costly unscheduled stops.

This model also includes state of the art oil filtering technologies, cylinder positioning control, double hydraulic circuits and system control monitoring.

# UROS

#### Head

The guillotine is made from a single piece of cast steel providing ultimate strength. It is also enclosed providing additional support. This also allows a tray to be placed in the scrap exit.

It has extended V-shaped prismatic guide ways, which are adjustable and are automatically greased during movement to reduce wear and increasing cutting accuracy.



Work in parallel or angular mode. With the powerful side compression block in the parallel position and the compression lid half closed, the scrap 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.



By reversing the angle of the block, the material is subjected to great forces, ensuring the whole is fully compressed. This will practically eliminate any resistance of the material on extrusion.



With the lid then closed, the scrap is then compressed downward beyond the final closed position of the lid. 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 without any fear of jams or blockages.







www.moros.com

In Association with



<u>www.higginsbalers.com</u>

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# For all your recycling needs



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