

***HIGGINS BALERS LTD***  
*RENEWING, REPAIRING, REPLACING*

# Portable and Mobile Shears

## Total quality

Engineering, Design and  
Manufacturing is our Trademark

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**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 customer's need.



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

Your UK agent is **Higgins Balers Ltd**: [www.higginsbalers.com](http://www.higginsbalers.com) or email: [info@higginsbalers.com](mailto:info@higginsbalers.com)

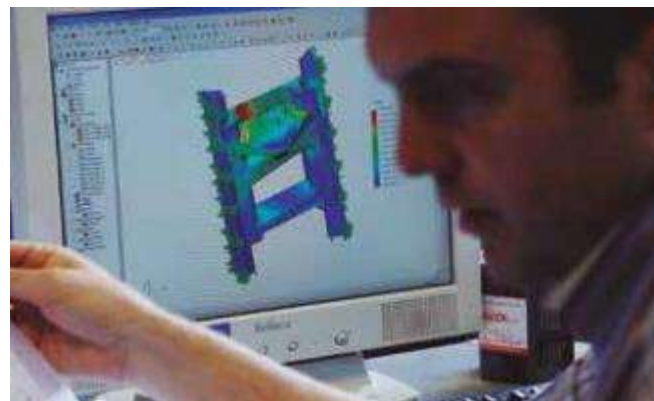


**Agents worldwide:** Argentina • The Benelux Countries • Bolivia • Brazil • Bulgaria • Chile • China • Ecuador • France • Germany • Greece • Italy • India • Kazakhstan • Kyrgyzstan • Mexico • Mongolia • Paraguay • Rumania • Russia • Saudi Arabia • South Africa • Tajikistan • Turkmenistan • Turkey • 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 e-monitoring 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.



*Industrias Hidráulicas, s.a.*



# Portability and Toughness

## H-A-B SCRAP SHEAR

MOROS has developed a machine with the structural design and features of the fixed range H-A, but the portability you need. This portable H-A-B model inherits all the state of the art hydraulics and electronics that have made the stationary H-A range a benchmark in the market for its reliability and efficiency.



### Fast and efficient hydraulics

Hydraulic fluid recirculation and the combined movements of the cylinders (with precise positioning control throughout the stroke) enables high efficiency and high production rates

TECHNICAL  
FEATURES

TECHNICAL FEATURES	H-A-B	H-S Mobile
CUTTING FORCE (tonnes)	550; 630; 900	550; 630
BLADE LENGTH (mm)	5; 5.5; 6	5; 5.5; 6
ENGINE POWER (hp)	300; 400; 530	300; 400; 530

ABS system, pneumatic suspension, also available. Also available as an electric version





#### QR Code

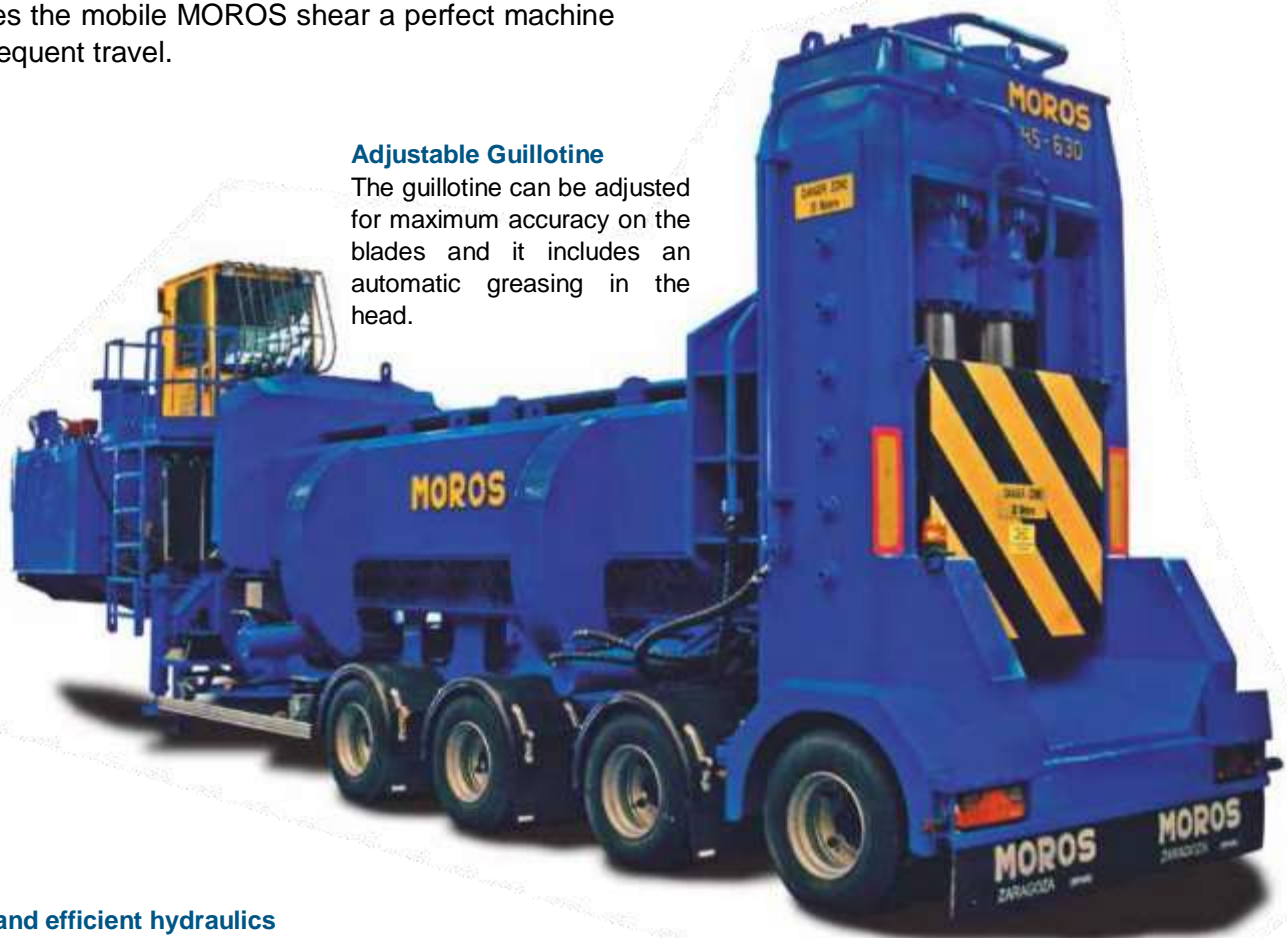
Scan the code with your phone and see the **Mobile Scrap Shear** video.

## H-S SCRAP SHEAR

The main feature of the MOROS mobile range is that the machine is self-supporting: the strength comes from the chassis structure. A trailer is not needed as this is integrated into the machine chassis. This makes the mobile MOROS shear a perfect machine for frequent travel.

### Adjustable Guillotine

The guillotine can be adjusted for maximum accuracy on the blades and it includes an automatic greasing in the head.



### Fast and efficient hydraulics

State of the art hydraulic technology allows for greater efficiency and productivity



### The exclusive MOROS design of the wings

This innovative design lets you close the machine fast when working with light scrap. With its curved and flat portions on the wings, this machine can also work with heavy scrap as the two wings fit neatly together. Furthermore, the over compression mode allows scrap to be compressed in the pre-compression box.

# Fully Autonomous

## GC-L MOBILE SCRAP LOGGER BALERS

MOROS GC-L mobile balers have been designed with two opposite compression cylinders. It includes a trailer, diesel engine and a crane so it is a fully mobile and autonomous machine.

**Built in Crane**  
The crane has a soft stop function for smooth operation and allows simultaneous movements to reduce loading and unloading times. The crane and the baler can work simultaneously and when the crane stops, all the power is used in the baler to reduce the cycle time by accelerating the compression.



**Cars**  
Oil collection system as standard for processing cars and it can bale on average 35 cars an hour (that's a car every 90 seconds).

**Wings**  
The exclusive MOROS wing shape of the stationary MOROS shears could be incorporated.



**Options**  
It can be modified to meet any international transport laws. Other brands than the Volvo 300hp engine are available.

TECHNICAL  
FEATURES

TECHNICAL FEATURES	GC-L	GC-M
BALING FORCES tonnes)	110 to 165	165
LOADING BOXES (m)	5; 5.5; 6	4.2; 5
ENGINE POWER (hp)	300	175
BALE SIZES (mm)	1000x600	600x500

## MOBILE PRESS GC-M

It combines the experience and manufacturing quality of MOROS with efficiency and versatility.



### Options

Loading crane and diesel engine included, but it can be supplied with an optional trailer



Standard diesel engine 175 hp

Covers reinforced with two cylinders each (110 and 165 tonnes), with the last compression cylinder being 165 Tons.

### Compression System

Asymmetric tops opposite are designed to reduce cycle times with light scrap.







[www.moros.com](http://www.moros.com)

In Association with

**HB**  
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**For all your recycling needs**

*Industrias Hidráulicas, s.a.*

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