

**"MOROS" H-K-15 HYDRAULIC ALLIGATOR SHEAR
with inclined IN-FEED HOPPER**

PROPOSAL SPECIFICATION :

APPLICATION :

For high production cutting of different non-ferrous extrusion profiles, pipes, etc.

A. CAPACITY AND RATING :

A.1 Main Dimensions :

A.1.1	Blade length :	600 mm.	(23-½")
A.1.2	Max. blade opening :	300 mm.	(12")

A.2 Cutting Capacities :

A.2.1	Max. cutting force :	80 metric tons.
A.2.2	Cutting Capacities :	All width of the feeding hopper, full of medium size aluminium or copper extrusions.

A.3 Cuts per minute :
(at full stroke)

20 - 30

B. COMPONENTS :

B.1 Hydraulic System :

One 15 H.P. self-contained unit, placed at the side and below the cutting arm and frame.

B.1.1 Hydraulic Pump :

1 - double gear pump.

B.1.2 Valves :

Pump protected against overload by relief valve and a discharge security valve.

B.1.3 Directional valve :

Roquet, Vickers or Rexroth, One 24V. DC. electrically controlled, hydraulically operated double valve.

B.1.4 Cylinder :

MOROS design and manufacture.

B.2 Electrical System :

B.2.1 Electric motor :

One 15 H.P. 1500 RPM. dual voltage, 3 phase, 50 cycle.

B.2.2 Electric control :

One **SIEMENS** (Automatic starter for the motor; with main fuses and overloading protection).

B.2.3 Electrical cabinet :

One electrical cabinet including prewired, **Electromatic** control relays, start and emergency-stop button, and signal light.

B.2.4 Limit switches : Two **Telemecanique**, limit switches used to control positioning of the cutting arm.

B.3 Filtering System :

B.3.1 Filter : Hydraulic oil is filtered through a return filter with micron element and magnet. An oil dirt indicator is provided.

B.3.2 Tank : The hydraulic oil reservoir capacity is **450 l.** (approx. **2 1/4 x 200 l.** drums) and has complete clean-out accessibility. (Hydraulic oil is not included or supplied with the shear).

C. OPERATION.

Operation is quite simple. There are **two modes of operation**:

C.1 Manual Inching control.

When it is selected, the shear arm descends and returns under the direct control of the foot pedal switch.

C.2 Auto Cycling.

When this is selected, the shear arm descends and returns automatically as long as required. The shear stops automatically in case the foot pedal switch is pressed. The **Auto Cycling** starts again when foot pedal switch is pressed once more.

C.3 i IMPORTANT !

To ensure the safety of the operator, the shear is equipped with an automatic hydraulic clamp situated in front of the blade. It runs automatically and simultaneously with the shear arm.

**iii THERE IS ALSO AN OPERATOR PROTECTION GUARD.
THE SHEAR HAS NOT TO WORK WITH THIS GUARD REMOVED !!!**

D. CONSTRUCTION :

D.1 The model **H-K-15** is heavy duty design and manufactured in accordance with the latest technology in engineering and manufacturing standards as well as the most up-to-date scrap processing practices.

D.2 The anvil bed is machined to locate the plate which carries the fixed blade. This anvil is adjustable to enable the fixed blade to be set correctly to the moving blade.

D.3 Fitted into the arm is an adjustable resistance bronze pad which, on rubbing against the main frame, reduces side movement of the arm.

D.4 The **Shear** is fully assembled, operated and **tested at the factory** prior to shipment to the customers facility, which minimizes installation set-up time on the job site.

D.5 Standard paint is blue RAL-5015 or green RAL-6011 enamel over a primer coat of red oxide.

D.6 The entire assembled shear weighs approximately **2.000 kgs.** (4.400 lbs) without the hydraulic oil.

D.7 Standard paint is **blue RAL-5015** or **green RAL-6011** enamel over a primer coat of red oxide.
