# MOROS *GC-G-200 AUTOMATIC SCRAP BALING PRESS*
# *Bale Size 500 x 400 mm. ( 20" x 16" )*

## *PROPOSAL SPECIFICATION :*

**APPLICATION :** Long bars of profiles such as aluminium extrussions, or pipes. Steel off-cuts, Industrial clips and skeletons, Loose sheet, Trim stock, Wire and miscellanous shapes.

**A CAPACITY AND RATING:**

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| A.1 | Precompression Box dimensions : | Length | 2.000 mm. | ( 79" ) |
| | | Width | 1.500 mm. | ( 59" ) |
| | | Depth | 900 mm. | ( 36" ) |
| A.2 | Second Compression Box Dimensions : | Length | 2.000 mm. | ( 79" ) |
| | | Width | 1.500 mm. | ( 59" ) |
| | | Depth | 400 mm. | ( 16" ) |
| A.3 | Final Compression Box Dimensions : | Length | 1.500 mm. | ( 59" ) |
| | | Width | 500 mm. | ( 20" ) |
| | | Depth | 400 mm. | ( 16" ) |
| A.4 | Bale Size :<br>(depending on loading ) | 500 x 400 x 500 / 1.000 mm.<br>( 20" x 16" x 20" / 40" ) | | |
| A.5 | Bale Weight :<br>( depending on bale length ) | 120 - 440 kg. for ferrous scrap<br>( 264 - 968 pounds ) | | |
| A.6 | Average Bale Weight and Size : | 250 kg. ( 500 x 400 x 500 mm.)<br>550 pounds ( 20" x 16" x 20") | | |
| A.7 | Average Baling Cycle Time : | 50-55 seconds | | |
| A.8 | Average Bales Production : | 40 / 70 bales / hour | | |
| A.9 | Average hourly Production : | 10 - 15 tons / hour | | |

**B COMPONENTS:**

**B.1 Hydraulic System :** One **75 kW ( 100 H.P.)** electric motor self-contained unit, placed at side of the main press frame.

B.1.1 Hydraulic Pumps : **One - "Hydromatik-Rexroth"** or equivalent high pressure piston pumps. Variable flow. Constant horsepower regulator.
**One -** Double **"Vickers"** vane pumps, medium pressure, for faster approaching strokes of cylinders.

B.1.2 Valves : Pumps are protected against overload by logic cartridge valves **piloted by D.C. servo-controlled** electrical valves and electronic printed cards. Pressure in each part of the circuit is fully controlled by regulating the voltage. ( 0 - 10 volts.)

B.1. 3 Directional Valves : **Rexroth,** 24V. DC electrically controlled, hydraulically operated double valve.

B.1.4 Cylinders : **MOROS** design and manufacture.

B.1.4.1 **Lid Cover Ram Cylinder:**
1 - 250 mm ( 10" ) dia. bore; 180 mm ( 7" ) dia. solid steel chromed rod. 165 tons. force exerted.

B.1.4.2 **Longitudinal Ram ( 2nd. compression) :**
1 **-** 250 mm ( 10" ) dia. bore; 180 mm ( 7" ) dia. solid steel chromed rod. 165 tons. total force exerted.

B.1.4.3 **Main Compression Ram:**
1 - 300mm ( 12" ) dia. bore; 220 mm (8-1/2" ) dia. solid steel chromed rod. 220 tons. force exerted.

B.1.4.4 **Bale Ejection Door:**
Two - 80 mm ( 3" ) dia. bore; 63 mm (2-1/2" ) dia. solid steel chromed rod. 55 tons. force exerted.

**B.2 Electrical System :**

B.2.1 Electric Motor : **1 - 75 kW ( 100 H.P.)** 1.800 RPM. dual voltage, 3 phase, 60 cycle

B.2.2 Electric Control : **Siemens or Telemecanique.** Automatic star-delta starter for the motor; with main fuses, timer, and overloading protection.

B.2.3 Electrical Cabinet : One electrical cabinet including prewiring **Telemecanique or Siemens,** P.L.C. programmer, relays, timers, control push buttons, and signal lights.

B.2.4 Limit Switches : **Telemecanique**, limit switches are oil tight, and are used to control positioning of all moving parts.

B.2.5 Pressure Switches : **Telemecanique,** switches are adjustable (factory set) piston type in oil tight enclosures.

**B.3 Filtering system :**

B.3.1 Filter : Auxiliary gear pumps recirculate oil through return line filters with micronic elements and magnets. A dirt indicator is provided as standard equipment.

B.3.2 Air Cooling : Auxiliary gear pumps recirculate oil through fan air-coolers.

B.3.3 Tank : The hydraulic oil reservoir capacity is **2.500 l.** (**13 x 200 l.** drums); and has complete clean-out accessibility. (Hydraulic oil is not included or supplied with the press).

**D. CONSTRUCTION.**

**D.1** The model **GC-G-200** is heavy duty design and manufactured in accordance with the latest technology in engineering and manufacturing standars as well as the most up-to-date scrap processing practices.

**D.2** The precompression charging box, baling chamber, rams, and all other surfaces subject to wear are fully lined with heat treated **alloy steel liner plates**. The bottom and side liner plates of both boxes are slotted to prevent flat and thin material entering between the surface of the rams and boxes.

**D.3** All liner plates (heat treated alloy steel) are bolted into place with specially designed "liner thru-bolts" or "Allen socket liner screws" for **ease** in relining and **service maintenance.**

**D.4** All heat treated alloy steel **liner plates are in sections** for ease in handling when relining and also to allow for partial reline jobs in areas of high wear, so the entire box does not have to be relined each time.

**D.5** All pipe is electrically welded and securely anchored to the machine.

**D.6** The press 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.7** Standard **paint** is **blue RAL-5015 or green RAL-6011** enamel over a primer coat of red oxide.

**D.8** The entire assembled machine weighs approximately **110.000 pounds** ( 50.000 kgs. ) without the hydraulic oil, which is not included or supplied with the press.

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