

For all your metal recycling needs

# JMC Recycling Systems



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## McIntyre Mantis Metal Baler

McIntyre Mantis is the only metal baler of its kind, a semi-automatic baling and sorting centre designed to give maximum throughput of ferrous and non ferrous metals with one operator

### Metal Processing Times

The times following are approximate:

- Bright copper wire - 2 tonnes per hour
- Copper radiators - 1.5 to 2 tonnes per hour
- Litho plates - 1.5 tonnes per hour
- Copper water cylinders - 1-1.5 tonnes per hour
- Light old rolled aluminium - 1 tonne per hour

### JMC RECYCLING SYSTEMS LTD

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# The McIntyre Mantis Metal Baler

## Improving Efficiency

Ten years ago, a non-ferrous metal merchant asked us to provide him with a machine which could maximise throughput of material with only one operator. In addition he wanted us to speed up baling rates, give him the ability to sort material into the machine, and to feed a machine from both sides. The result was Mantis, a semi-automatic metal baling and sorting centre, which was produced ahead of its time, but which is now a popular choice amongst metal merchants, many of whom have been forced to improve efficiency in order to stay in business.

## Fast and Easy to Use

Using Mantis, metal can be sorted onto the surrounding table and subsequently pushed into the bale box for processing. The operator then starts the operating sequence from a pendant control arm. Oversized material is sheared by the lid, but stays on the table allowing it to be pushed into the box during the next cycle. Once the lid is down, the baling sequence is automatic, freeing the operator to sort another load. The metal bale is ejected onto a bale track automatically.

## Built to Last

McIntyre metal balers are built to last, and Mantis is not exception. Mantis is fitted with a manganese steel bale box liner plates, reversible shearing blades, large capacity return line oil filters with clogging indicators, large suction filters, adjustable conical bronze bearings on the three main pivot points of the lid and lid ram, bearing housings with a large capacity for grease, replaceable liners and a slide cleaner on the exit door slides. Hydraulic rams are fitted with hard chrome piston rods equipped with self-adjusting cylinder end bearings to extend the life of piston seals. An over-centre valve prevents the lid falling forward in the even of a burst hydraulic hose, or sudden loss of hydraulic oil. Emergency stops are fitted to both the machine and the pendant control.

Vertrieb in Deutschland:

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### Technical Data

Dry Cycle	45 seconds
Bale Size	500mm x 250mm (20" x 10") x variable
Compression Force	
- Shear Lid	123 tonnes
- Horizontal ram	80 tonnes
Twin Motors	15Hp, 11kW
Weight	6000kg
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Loading Box	
- Length	1220mm (48")
- Width	500mm (20")
- Depth	380mm (15")
Overall	
-Length	4007mm
-Height	2330mm
-Width	2130mm

Hydraulic Oil

ISO46

### Other Models



**Ecobaler**

5025



**Terminator**

2035

