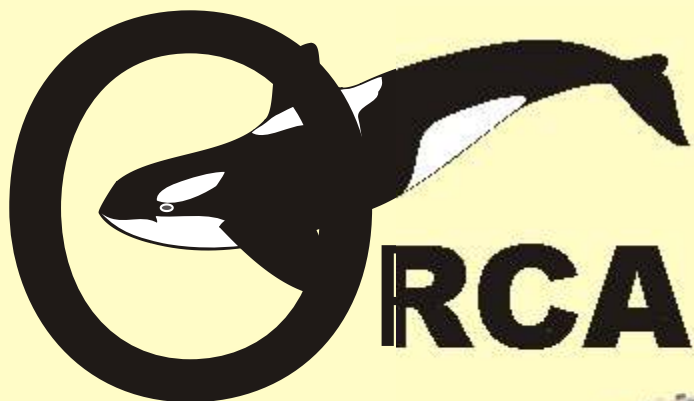


For all your metal recycling needs

JMC Recycling Systems



Heavy Duty Ingot Casting Machine



The ORCA Heavy Duty Ingot Casting Machine has been developed in our own foundry to give trouble-free alloy production. Metal is poured from the furnace into the casting wheel, and the system accurately controls the volume of metal poured into each mould, consistently producing moulds with minimum dross formation. The filled moulds travel up the incline, where they are water-cooled. As the moulds pass around the head sprockets they invert, allowing the ingots to fall by gravity - assisted by two hammers. As the empty moulds return to the pouring end, they are pre-heated to remove any moisture in the mould.



JMC RECYCLING SYSTEMS LTD

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Web site: www.jmcrecycling.com

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Data and Specification

Mould type	As per customer requirement
Mould dimensions	Dependent on above
Number of moulds	94
Number of impressions per mould	1
Mould material	Hermatite cast iron, material spec 420/12 to BS2789:1985
Production rate	3000kg/hr
Mould pre-heat	Natural gas atmospheric burners, 6off, total maximum heat input 80kW
Required gas pressure	17.5mb maximum
Mould cooling	Water spray, 9 spray heads, total water consumption at 2 bar pressure, 50 litres/hr
Ingot knockout	Automatic dual hammer
Pour mode	Casting wheel driven off main chain, or pour bowl to suit
Drive motor	3kW 380-400V 50hz 3ph + N + E, or to suit local supply
Gearbox	40:1 single reduction worm gear
Speed control	Carter hydraulic variator, or electrical inverter which includes independent operator stand
Conveyor chain	160mm pitch bolted assemblies
Machine construction	Robust frame, fully welded construction (vented to induce natural and equal expansion during machine operation) Section and plate sizes: Main frame 250x150x10RHS 70x70x5RHS 25,20,10 and 5 thick plates throughout
Safety features	All materials grade 43C to BS4360 Emergency stop/grab wire switches (sited both sides of machine)



Company Background

JMC Recycling Systems Ltd was formed from J.McIntyre Machinery Ltd in 2003 to manufacture the McIntyre range of Metal Recycling equipment. McIntyre machines have been sold worldwide since 1975, and many of the company's original units are still in constant daily use. So, by requesting this quotation, you have taken the first steps towards investing in a piece of machinery which will earn you money for many years.

J.McIntyre Machinery Ltd is still in operation today, but now concentrates on design and build of systems for aluminium dross processing. The formation of JMC has allowed us to improve customer service and equipment design, whilst still maintaining the McIntyre concept of quality and reliability at sensible prices.

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