



# JMC RECYCLING SYSTEMS

For all your metal recycling needs

## 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 specially designed pouring bowl, the system accurately controls the volume of metal poured into each mould, consistently producing ingots 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.



### JMC Recycling Systems Ltd

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## DATA & SPECIFICATION

<b>Mould Type:</b>	Aluminium Alloy or De-Ox Aluminium Shapes
<b>Mould Dimensions:</b>	TBC. On placement of order
<b>Number of Moulds:</b>	94 or 120
<b>Number of Impressions: (Per mould)</b>	TBC
<b>Mould Material:</b>	Ductile Cast Iron
<b>Production Rate:</b>	2 - 5 Tonnes - Dependant on Individual requirements
<b>Mould Pre-heat:</b>	Natural gas burners, total maximum heat output 80kw
<b>Required Gas Pressure:</b>	20 mbar Maximum
<b>Mould Cooling:</b>	Forced Air Cooling / Water Cooling
<b>Cooling Water Collection:</b>	Internal water collection tray
<b>Ingot Knockout:</b>	Automatic mechanical dual hammer
<b>Pour Mode:</b>	mechanical pouring bowl or pouring wheel
<b>Drive Motor:</b>	1.1kw / 380-415v / 50hz / 3ph + N + E Can be changed to suit local supply
<b>Speed Control:</b>	Electronic Inverter
<b>Conveyor Chain:</b>	160mm pitch bolted assemblies
<b>Machine Construction:</b>	Robust steel frame, fully welded construction
<b>Safety Features:</b>	Emergency stop/grab wire switches (Sited both sides of machine) All moving parts fully guarded
<b>Additional Extras:</b>	Oil pots for constant chain lubrication, water collection tray, pre-heat burners, flame failure device, pouring bowl refractories
<b>Dimensions:</b>	(TBC)
<b>Approx Weight:</b>	10,000kg (Approx)

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**Pouring Bowl -  
High Quality Refractory Lining**



**Robust Pouring Bowl Design**



**Internal Water-Catch Tray**



**Reliable Heavy-Duty Hammer  
Knock-Out System**



**Operator Remote Control Station**



**Pouring Wheel for Bar Ingots**