

For all your metal recycling needs



JMC Recycling Systems

Pegasus Heavy Duty Ingot Casting Machine

For fast, high-quality cube production



The PEGASUS 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 bowl, 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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Data and Specification

Mould type	Cubes
Number of moulds	138
Number of impressions per mould	6 or 8 (non standard)
Mould material	Hermitite cast iron, material spec 420/12 to BS2789:1985
Production rate	5000kg/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 bowl, drive off 40:1 ratio Bonfiglioli gearbox
Drive motor and gearbox	Bonfiglioli gearbox VF 185N worn gear unit, ration 40:1 including a single output shaft. Complete with VAR-SPE variator (MKFS) and 3kw 950RPM, 60Hz or 50Hz, 220-440V, or 380-415.
Conveyor chain	130mm pitch bolted assemblies
Machine construction	Robust frame, fully welded construction (vented to induce natural and equal expansion during machine operation) 25,20,10 and 5 thick plates throughout All materials grade 43C to BS4360
Safety features	Emergency stop/grab wire switches (sited both sides of machine)



Pegasus is just one of a range of quality ingot casting machines supplied by JMC. For further information, please contact us.

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