



# JMC RECYCLING SYSTEMS

For all your metal recycling needs

# Centaur

## Aluminium Granule Production Plant

Centaur is a unique metal casting system, which has been purpose designed and built in our own foundry for the production of high quality granules - without tails.

The system centres around a water cooled rotating casting table, onto which molten aluminium is poured in droplets from specially designed moulds. The droplets are subsequently rotated by 360° and blown from the table via a combustion air knife onto a steel conveyor.

Production rates vary depending on how many tables are incorporated into the system. With two tables, for example, can give up to 1000kg per hour of 10mm granule production.

Granule grading systems and sorter screens can also be incorporated to give the best quality granules possible.



Centaur Granule Plant



Pellet Mould and Hammer System

**Fast  
High-Quality  
Aluminium Granule  
Production**

**JMC Recycling Systems Ltd**

Harrimans Lane, Dunkirk, Nottingham. England NG7 2SD

Tel: +44 (0)115 9409630, Fax: +44 (0)115 9791478

email: [info@jmcrecycling.com](mailto:info@jmcrecycling.com) web site: [www.jmcrecycling.com](http://www.jmcrecycling.com)





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## Data and Specification

<b>Mould type</b>	6mm to 10mm diameter granules
<b>Mould material</b>	Hematite cast iron, material spec 420/12 to BS2789:1985
<b>Insert material</b>	Graphite
<b>Production rate - 1 x table</b>	Up to 400 - 500 Kg/hr
<b>Height of table</b>	660mm
<b>Width</b>	2400mm
<b><u>Motor ratings</u></b>	
<b>Table drive motor and gearbox</b>	3kW
<b>Hammer motor and gearbox</b>	0.75kW
<b>Two cascade starter motors</b>	1.1kW
<b>Combustion air fan for air knife</b>	2kW
<b>Combustion air fan for gas jets</b>	0.75kW
<b>Adaptor track motor</b>	1.5kW
<b>Water pumps</b>	1.5kW - 7.5kW
<b>Cooling tower fans</b>	2.2kW



3 Table Centaur system



3 Table system including conveyor and sorter

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**Pellet mould and hammer system**



**Air knife blower**



**Air knife for pellet removal**



**Air knife and collection hopper**



**water cooled Rotating table top**



**Pellet mould and hammer system**



**Pellet mould and hammer system**



**Collection hopper**



**Pellet mould and gas burner jets**



**Gas burner and safety valve**