INTRODUCTION

**DMC Casting Supply & Services, LLC, a MCKeown’s Group company,** and its exclusive manufacturing partner Dalian Dashan Metallurgical Engineering Technology Co., Ltd is a leading design and manufacturing company that specializes in continuous casting Engineering, and crystallizer products, including billet and round copper tubes, bloom plates, mould assemblies, continuous casting machines and its spare parts.

Our products and services include:

- Total continuous casting engineering and design.
- Casting machine revamp
- All continuous casting component parts
- On site maintenance
- Parts fabrication and repair

In addition DMC Casting Supply & Services, LLC offers complete caster segment for casting machine.
Copper Mould Tube

DMC Casting Supply & Services, LLC offers billet, bloom, and round copper mould tubes with taper and design tailored to the specific casting operations.

Sizes
Billet/Bloom: 120mm x 850mm to 3600mm x 1000mm
Round:
Material: Cu-DHP, CuAg, CuCrZr.
Coating: Cr, NiCo, Alloy, Ceramic

<table>
<thead>
<tr>
<th>Material</th>
<th>Unit</th>
<th>Cu-DHP</th>
<th>Cu-Ag</th>
<th>CuCrZr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical analysis</td>
<td>%</td>
<td></td>
<td>99.90</td>
<td>0.30-1.20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ag 0.08-0.12</td>
<td>0.03-0.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.015-0.040</td>
<td>0.004-0.012</td>
<td></td>
</tr>
<tr>
<td>Physical properties</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electric Conductivity</td>
<td>%IACS</td>
<td>83</td>
<td>93</td>
<td>80</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>w/mk</td>
<td>340</td>
<td>377</td>
<td>330</td>
</tr>
<tr>
<td>coefficient of thermal expansion 20-300C</td>
<td>10-6/k</td>
<td>17.7</td>
<td>17.7</td>
<td>18</td>
</tr>
<tr>
<td>Temperature for recrystallization</td>
<td>ºC</td>
<td>350</td>
<td>370</td>
<td>700</td>
</tr>
<tr>
<td>Flexible modulus</td>
<td>103N/mm2</td>
<td>120</td>
<td>125</td>
<td>128</td>
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</table>

Mechanical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>AT20 ºC</th>
<th>295</th>
<th>285</th>
<th>425</th>
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<tbody>
<tr>
<td>Tensile strength</td>
<td>N/mm²</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Prolongation rate A5</td>
<td>%</td>
<td></td>
<td>20</td>
<td>17</td>
<td>20</td>
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<tr>
<td>Hardness</td>
<td>HB 20 ºC</td>
<td>90-105</td>
<td>85-100</td>
<td>130</td>
<td></td>
</tr>
</tbody>
</table>

Mould Assembly

To offer billet, round, slab and net shape mould assemblies in various variety.
**Other Components**

To offer comprehensive spare parts for all different design casters, including but not limited to:

![Typical Withdrawal and Straightening Machine](image)

**Quality Assurance**

As an international supplier of engineered products, DMC’s partner, Dalian Dashan Metallurgical Engineering Technology Co., Ltd, conforms to ISO 9001 Quality Assurance Standards.

The quality control process for copper moulds and related products includes every step in the process of continuous casting machine part manufacture. All aspects of the manufacturing process are subject to a quality control program to ensure the “Best Engineered Spare Parts” that are offered.

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