EGM series slurry pumps are heavy duty slurry pumps and have outstanding performance in high head applications. This series are suitable for handling low corrosive slurries of various concentrations.

- Superb performance in high head application
- Cylindrical structure of bearing assembly: convenient to adjust the space between impeller and front liner and can be removed completely;
- Interchangeable anti-abrasive wet parts made of high-chrome alloys;
- The discharge branch can be oriented to any eight positions at the interval of 45 degrees;
- It can be installed in multistage series to meet the delivery for long distance;
- Various drive types: DC(direct connection), V-belt drive, gear box reducer, hydraulic couplings, VFD, SCR control, etc;
- The shaft seal uses the packing seal, expeller seal and mechanical seal;
**Structure**

![Structure Diagram]

1. Throatbush
2. Impeller
3. Volute liner
4. Support
5. Shaft
6. Adjusting screw II
7. Adjusting screw I
8. Adjusting hole cover
9. Expeller ring
10. Expeller
11. Frame plate liner insert
12. Frame plate
13. Cover plate

Note: this is the basic structural drawing. There is a little difference up to the varied discharge sizes.

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**Material**

The wet parts material for standard EGM series pump is high-chrome alloy. This kind of material is wear resistant and has excellent performance under erosive conditions.

- KmTBCr27: hard carbides within its microstructure provides strong wear resistance
- KmTBCr28: its hardness is 430 in Brinell and suitable for corrosive applications where pH is below 4.
- KmTBCr35: its hardness is 450 in Brinell and has much improved corrosion resistance.

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**Shaft Seal**

There are three standard shaft seal methods:

- Packing seal: it is the lowest in cost.
- Expeller seal with packing seal: it is most commonly used.
- Mechanical seal: it has best seal effect, but high in cost and has strict requirement of flush water.

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**Bearing Assembly**

Convenient to adjust the space between impeller and front liner and can be removed completely;

- Lubricated by grease;
- Easy maintenance.
## Performance Chart

<table>
<thead>
<tr>
<th>Allowable Max. Power P(Kw)</th>
<th>Clear Water Performance</th>
<th>Impeller</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Capacity Q</td>
<td>Head H(m)</td>
</tr>
<tr>
<td></td>
<td>m³/h</td>
<td>l/s</td>
</tr>
<tr>
<td>EGM-1C 30</td>
<td>16.2-34.2</td>
<td>4.9-9.5</td>
</tr>
<tr>
<td>EGM-2D 60</td>
<td>68.4-136.8</td>
<td>19-38</td>
</tr>
<tr>
<td>EGM-3E 120</td>
<td>126-252</td>
<td>35-70</td>
</tr>
<tr>
<td>EGM-4S 560</td>
<td>324-720</td>
<td>90-200</td>
</tr>
<tr>
<td>EGM-6S 560</td>
<td>468-1008</td>
<td>130-280</td>
</tr>
</tbody>
</table>

## Application

Series EGM slurry pumps are widely used in the mining, coal washing, power plant, metallurgy, petrochemical, building material, dredging, and other industrial departments, etc.

**Typical Application:**
- Iron Ore Dressing Plant
- Copper Concentration Plant
- Gold Mine Concentration Plant
- Molybdenum Concentration Plant
- Potash Fertilizer Plant
- Other Mineral Processing Plants
- Alumina Industry
- Coal Washery
- Power Plant
- Sand Excavation
- Building Material Industry
- Chemical Industry
- Other industries
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