EHR series slurry pumps are similar to EHM series in structure. The main difference between EHM and EHR is the material of wet parts, which are natural rubber, chloroprene rubber or other wear-resistant rubbers. EHR are more suitable in delivering strong corrosive or abrasive slurries of small particle size without sharp edges.

- Frame Plate and Cover Plate: The outer casing is made of grey cast iron or ductile cast iron according to the working pressure, with split with split structure and blots connected, which ensuring security and easy replacement of the wet parts;
- Interchangeable anti-corrosive wet parts made of natural rubber or other customized elastomer materials;
- The discharge direction 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 can be packing seal, expeller seal or mechanical seal;
- High efficiency, long lifetime and easy maintenance.
Structure

Series EHR structural drawing:

1. Frame
2. Bearing assembly
3. Frame plate
4. Stuffing box
5. Frame plate liner
6. Cover plate liner
7. Throatbush
8. Cover plate
9. Impeller
10. Adjusting bolt

Note: this is the basic drawing of structure. There would be some differences up to varied discharge size.

Bearing Assembly
Convenient to adjust the space between impeller and front liner and can be removed completely;
- Lubricated by grease;
- Easy maintenance;

Shaft Seal
There are three standard shaft seal methods:
- Packing seal: it is the lowest in cost.
- Expeller seal: it is most commonly used.
- Mechanical seal: it has best seal effect, but high in cost and has strict requirement of flush water.

Material
The wet parts material for standard EHR series pump is natural rubber. With superb anti-corrosive performance, it is ideal for the delivery of strong corrosive slurry without sharp edge.
- Natural rubber ER01: it is more resistant to both chunking wear and dilation (ie, expansion caused by centrifugal force) than ER02.
- Natural rubber ER02: antioxidants and anti-aging agents are added to prolong the storage and usage life of ER02.
### 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>------------</td>
<td>-----------</td>
</tr>
<tr>
<td>EHR-1B</td>
<td>15</td>
<td>10.8-25.2</td>
</tr>
<tr>
<td>EHR-1.5B</td>
<td>15</td>
<td>25.2-54</td>
</tr>
<tr>
<td>EHR-2C</td>
<td>30</td>
<td>36-75.6</td>
</tr>
<tr>
<td>EHR-3C</td>
<td>30</td>
<td>79.2-187.2</td>
</tr>
<tr>
<td>EHR-3D</td>
<td>60</td>
<td>144-313</td>
</tr>
<tr>
<td>EHR-4D</td>
<td>60</td>
<td>324-713</td>
</tr>
<tr>
<td>EHR-4E</td>
<td>120</td>
<td>540-1188</td>
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<tr>
<td>EHR-6E</td>
<td>120</td>
<td>720-1620</td>
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<tr>
<td>EHR-8ST</td>
<td>560</td>
<td>1156-2520</td>
</tr>
<tr>
<td>EHR-10ST</td>
<td>560</td>
<td>1379-3060</td>
</tr>
</tbody>
</table>

### Application

Series EHR slurry pumps are widely used in mining, coal washing, power plant, metallurgy, petrochemical, building material, dredging, and other industrial fields, 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
- Other industries
EHR-4D in the calcium carbonate factory in Asia

EHR-3C Copper-molybdenum Plant
In Mid-East

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In Mid-East
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