



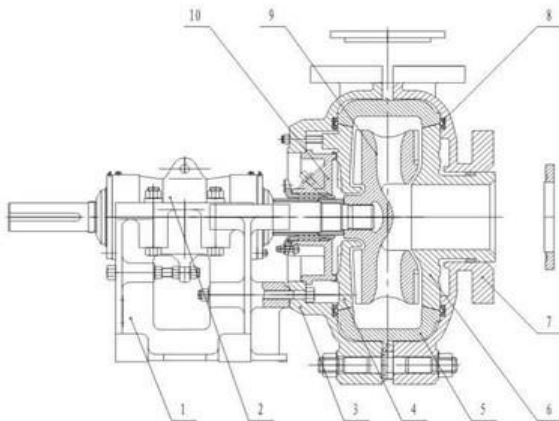
Designed for handling strong abrasive and high concentration slurries, EHM series slurry pumps are cantilevered heavy duty slurry pumps with metal liner. With thick wear parts and heavy duty support, EHM series could run in series in the allowable range of pump working pressure. This series have become the first choice of various working conditions and clients from home and abroad think highly of EHM series' excellent performance.



- 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;
- High efficiency, long lifetime and easy maintenance.

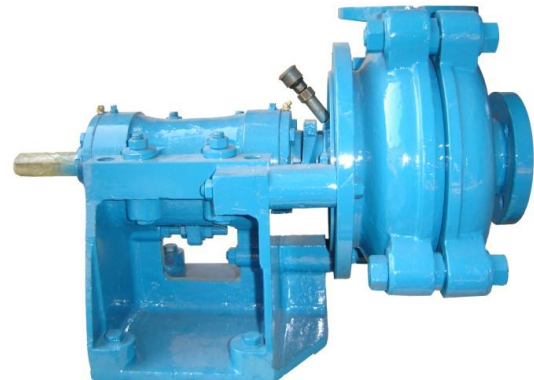
❖ Structure

Series EHM structural drawing:



- | | |
|-----------------------------|-------------------------|
| 1. Frame | 6. Throatbush |
| 2. Bearing assembly | 7. Cover plate |
| 3. Frame plate | 8. Volute liner sealing |
| 4. Frame plate liner insert | 9. Impeller |
| 5. Volute liner | 10. Stuffing box |

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



EHM-1B

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 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.

Material

The wet parts material for standard EHM 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.

❖ Performance Chart

| | Allowable Max. Power P(Kw) | Clear Water Performance | | | | | | Impeller |
|----------|----------------------------------|-------------------------|---------|--------------|-------------------|-------------------------|---------|-------------------------------|
| | | Capacity Q | | Head H(m) | Speed n(r/min) | Top Efficiency η% | NPSH(m) | Impeller Diameter D(mm) |
| | | m ³ /h | l/s | | | | | |
| EHM-1B | 15 | 12.6-28.8 | 3.5-8 | 6-68 | 1200-3800 | 40 | 2-4 | 152 |
| EHM-1.5B | 15 | 32.4-72 | 9-20 | 6-58 | 1200-3200 | 45 | 3.5-8 | 184 |
| EHM-2C | 30 | 39.6-86.4 | 11-24 | 12-64 | 1300-2700 | 55 | 4-6 | 214 |
| EHM-3C | 30 | 86.4-198 | 24-25 | 9-52 | 1000-2200 | 71 | 4-6 | 245 |
| EHM-3D | 60 | | | | | | | |
| EHM-4D | 60 | 162-360 | 45-100 | 12-56 | 800-1550 | 65 | 5-8 | 365 |
| EHM-4E | 120 | | | | | | | |
| EHM-6E | 120 | 360-828 | 100-230 | 10-61 | 500-1140 | 72 | 2-9 | 510 |
| EHM-6R | 300 | | | | | | | |
| EHM-8ST | 560 | 612-1368 | 170-380 | 11-61 | 400-850 | 71 | 4-10 | 686 |
| EHM-10ST | 560 | 936-1980 | 260-550 | 7-68 | 300-800 | 82 | 6 | 762 |
| EHM-12ST | 560 | 1260-2772 | 350-770 | 13-63 | 300-600 | 77 | 3-10 | 965 |
| EHM-14TU | 1200 | 1368-3060 | 380-850 | 11-63 | 250-550 | 79 | 4-10 | 1067 |

❖ Application

Series EHM 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



EHM-4D in Sand Excavation

In Europe



EHM-8ST in Mid-East



EHM-10ST in Gold Processing Plant in China



EHM-2C in Copper Concentration Plant in Africa

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