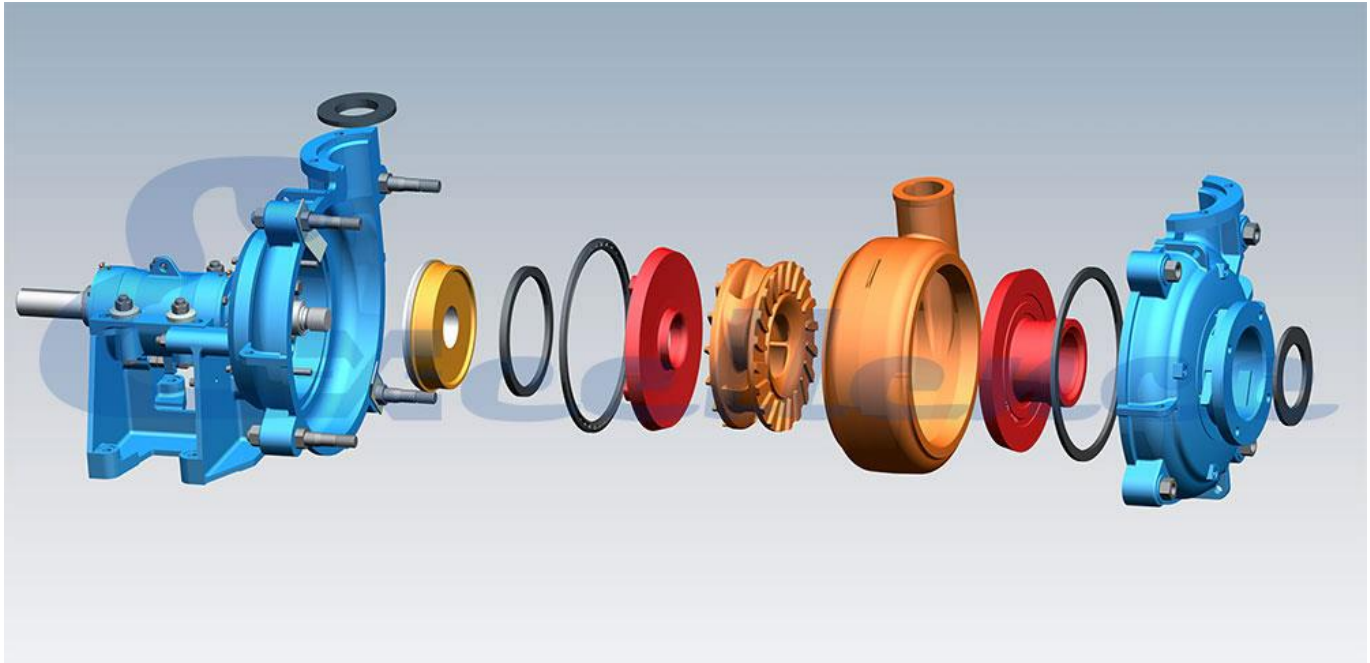




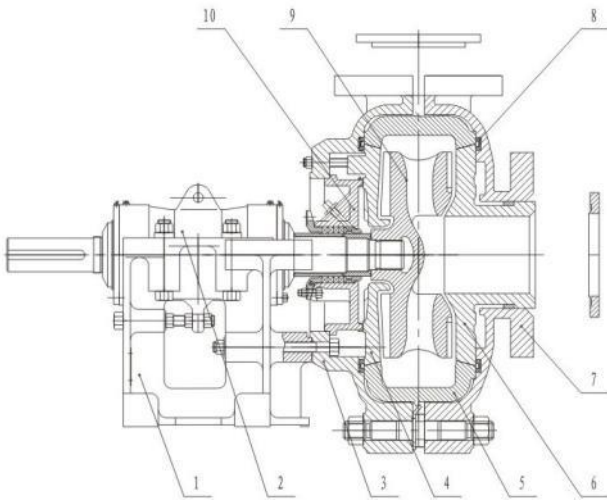
EGM series slurry pumps are heavy duty slurry pumps and have outstanding performance in high head applications. This series are suitable for handling low corrosive slurries of various concentrations.



- Superb performance in high head application;
- Cylindrical structure of bearing assembly: convenient to adjust the space between impeller and Throatbush and can be removed completely;
- Interchangeable anti-abrasive wet parts made of high-chrome alloys;
- 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;

## ❖ Structure

### Series EGM structural drawing:



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

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 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.



## ❖ 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 <sup>3</sup> /h	l/s					
EGM-1C	30	16.2-34.2	4.9-9.5	25-92	1400-2200	20	2-2.5	330
EGM-2D	60	68.4-136.8	19-38	25-87	850-1400	47	3-7.5	457
EGM-3E	120	126-252	35-70	12-97	600-1400	50	2-5	508
EGM-4S	560	324-720	90-200	30-118	600-1000	64	3-8	711
EGM-6S	560	468-1008	130-280	20-94	500-1000	65	4-12	711

## ❖ Application

Series EGM 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
- Chemical Industry
- Other industries



*EGM-6S Coal Washery in Australia*



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