

TURBOFLUID



PRODUCT BROCHURE

EAGLE

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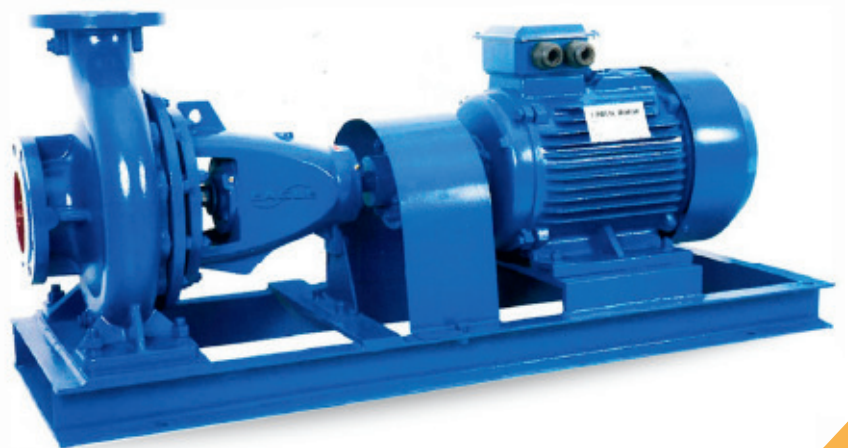
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Why **EAGLE** pumps?



EAGLE PUMPS are a proudly South African brand, manufacturing pumps that are cast, machined, assembled as well as tested in South Africa. There is a pump for every solution ranging from:

- | | |
|---|---|
| <ul style="list-style-type: none">• Eagle Submersible slurry series• Eagle Waste water submersible series• Eagle Sewage submersible series• Eagle Diesel Mobile Pumps• Eagle Self-Priming solids handling pumps• All new Eagle pumps come with a full-1 year manufacture guarantee against defective parts and Workmanship (2 year warrantee optional extra)• Pumps are assembled and can be performance tested before dispatch and may be certified. | <ul style="list-style-type: none">• DIN End Suction• Eagle Horizontal slurry pump EJC Series• Eagle Vertical slurry pump EVJC series• Eagle EHS horizontal vortex recessed slurry pump and EVHS• Eagle Horizontal split case pump• Eagle Horizontal axial flow pump• Eagle Vertical axial flow pump• Eagle heavy duty slurry pump - BW series. |
|---|---|

EA SERIES

DESCRIPTION

EA pump complies fully with the European standard BS EN733 / DIN 24255 of performance and dimensions. They are used for pumping clean water or liquids similar to water, achieving wide application in plants, mines, city water supplies, air-conditioning coolers, fire-fighting systems and irrigation.

Pumps of the same model have different performance levels based on different diameter after impeller trimming. Overall the whole series, there are only five sizes of shafts and five bearing housings. As long as their bearing housings are of the same size, different pumps can interchange spare parts such as shafts, shaft sleeves, shaft seal, impeller nut, etc.

EA pump is also very easy to be installed and maintained. Back pull-out design, driven through flexible coupling, so that the pump casing and motor can remain in position while other spare parts are moved.



Design: Performance and dimensions referring to the European standard BS EN733/DIN24255.

Structure: Horizontal , Axial end-suction, single stage , single suction , volute casing, back pull-out. Centrifugal pump DIN2501 (ISO7005.2 or GB/T17241.6 PN1.6) standard. ANSI B16.5 Class 150lb optional

Rotation: Clockwise viewing from the drive side

Material

Casing: Cast iron standard. Ductile iron. Stainless steel optional

Impeller: Bronze. Cast iron. Standard stainless steel optional

Shaft: ASTM420 standard. Stainless steel optional

Shaft seal: Mechanical seal. Gland packing standard.

Operating range:

Flow Rate(Q): 2 - 1100m³/h

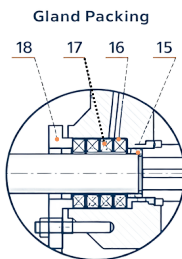
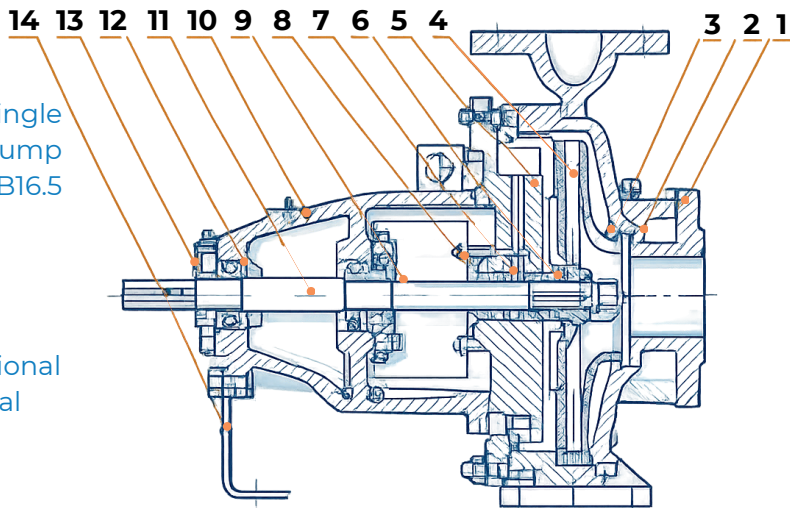
Head(H): 2 - 150m

Speed: 1450 or 2900rpm (50Hz)

1750 or 3500 rpm (60Hz)

Temperature: -10·c to 105·c

Working pressure: 10 bar standard. 16 bar on request.



STRUCTURE DRAWING

- | | |
|--------------------|---------------------|
| 1. Volute Casing | 10. Bearing Housing |
| 2. Impeller | 11. Shaft |
| 3. Wearing Ring | 12. Bearing |
| 4. Impeller | 13. Bearing Cover |
| 5. Casing Cover | 14. Support Foot |
| 6. Shaft Spacer | 15. Shaft Sleeve |
| 7. Mechanical Seal | 16. Seal Cage |
| 8. Seal Cover | 17. Gland Packing |
| 9. Slinger | 18. Gland Cover |

EK SERIES

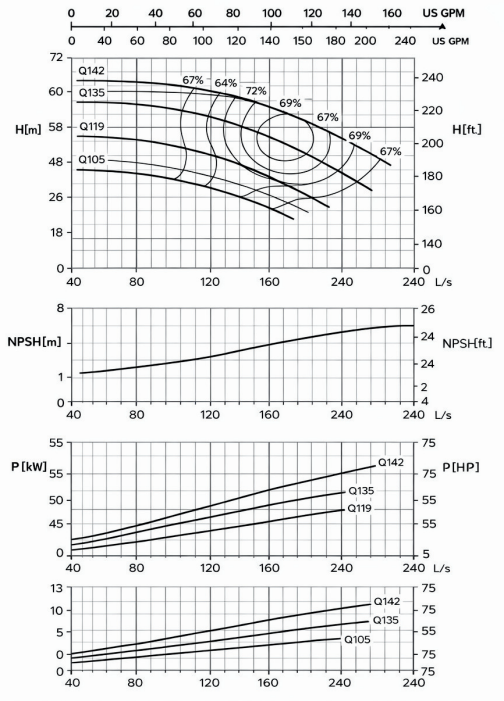
HORIZONTAL END SUCTION CENTRIFUGAL PUMP

DESCRIPTION

The pump range has been expanded to DN300, with flow capacities reaching up to 1,584 m³/h. Available in both PN10 and PN16 configurations, the pump casing and impeller can be manufactured in a variety of material combinations to suit different industrial applications. The pump offers multiple bearing and sealing options, along with specialized sealing and flushing solutions tailored to specific operating requirements. An optimized hydraulic design minimizes noise generated by water flow impact, ensuring quieter operation. The reinforced rotor design, with increased thickness, enhances durability and extends the overall service life of the pump. The pump casing is constructed from HT250 cast iron, providing improved structural strength and reliability.

Specification	Details
Product Series	EK Series
Applicable Standard	DIN 24255 and ISO 9908
Capacity Range	4 - 1,584 m3/h
Head Range	5 - 150 m
Inlet/Outlet Diameter	DN32 - 300 mm
Speed (r/min)	1450 rpm/ 2900 rpm; 1750 rpm/ 3500 rpm
Maximum Working Pressure	1.0 MPa (standard); 1.6 MPa (on special request)
Temperature Range	-10°C - 85°C - 105°C (on special request)

PUMP PERFORMANCE CURVE



EH SERIES

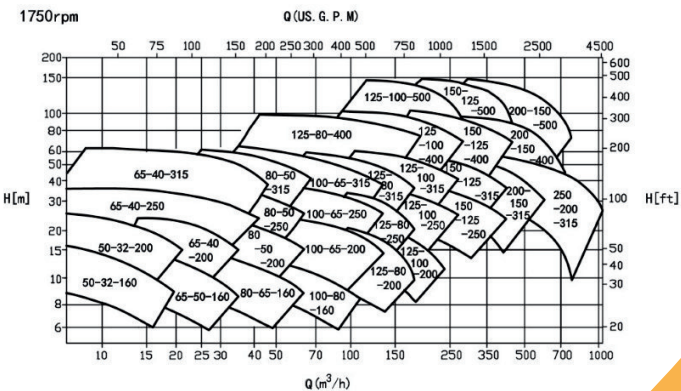
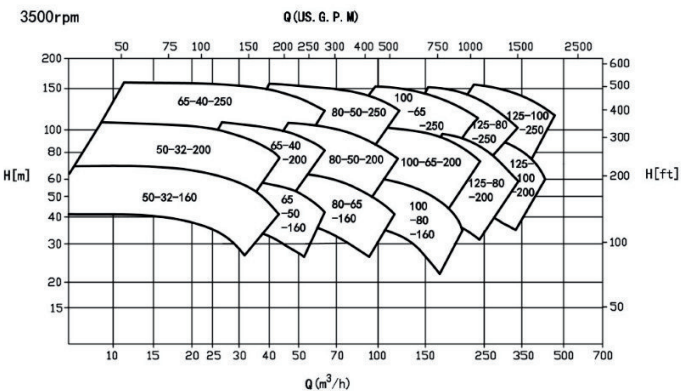
HORIZONTAL SINGLE STAGE CENTRIFUGAL WATER PUMP

DESCRIPTION

The EH Series pumps are designed in accordance with the ISO 2858 standard, offering performance that exceeds the requirements of the standard. Featuring an advanced hydraulic design, these pumps deliver higher efficiency and reduced power consumption. Compared with equivalent ISO 2858 models, the EH Series provides up to 1.6 times greater flow capacity and approximately 1.25 times higher head, making them ideal for demanding industrial applications.



Specification	Details
Product Series	EH Series
Applicable Standard	ISO 2858
Capacity Range	4 - 1,000 m3/h
Head Range	2 - 160 m
Inlet/Outlet Diameter	32 - 200 mm
Speed (r/min)	1450 rpm/ 2900 rpm (50Hz) 1750 rpm/ 3500 rpm
Maximum Working Pressure	1.6 MPa (standard) Up to 2.4 MPa (optional)
Temperature Range	-15°C - 80°C (standard) up to 120°C (optional)



APPLICATIONS

- Water Supply and Drainage
- HVAC and Cooling Tower
- Fire Protection and Fire Fighting
- Marine-Ballasting & Bilge
- Booster and Pressurization Set
- Irrigation and Agriculture
- Food and Chemical Industry (with stainless steel material)



EAGLE D SERIES

ANSI PUMP

Turbofluid ANSI D-Range Pump Groups and Sizes

DESCRIPTION

The EAGLE D, is a premier ANSI/ASME B73.1 compliant chemical process pump, designed for handling corrosive, abrasive, and high-temperature fluids. Known for its robust, modular design, it features an overhung, end-suction configuration with a reverse vane impeller to reduce maintenance costs and improve seal life in demanding applications. The EAGLE D ensures high reliability, reduced downtime, and lower total cost of ownership in harsh industrial environments.



MATERIALS OF CONSTRUCTION

- 316 Stainless Steel
- 304 Stainless Steel
- CD4MCu
- Titanium
- Carbon Steel
- Hastellooy
- Ductile Iron
- Cast Iron

VERSATILE OPTIONS

- ASME B73.1 Low flow pumps
- ASME B73.2 vertical in-line pumps

SEALING METHODS

- Gland packed
- Single mechanical seal
- Double carytridge seal with external flash

OPERATING PERAMETERS

- Flows to 4500 m3/h
- Heads up to 215m
- Temperature -73 degrees celsius - 370 degrees celsius

Group	Stuffing Box Size in Inches	Pump Size
A	4"	1.5 X 1 LF
		1.5 X 1
		3 X 1.5
	6"	3 X 2
		1.5 X 1 LF
		1.5 X 1
B	8"	3 X 1.5
		4 X 3
	10"	2 X 1 LF
		2 X 1
		3 X 1.5
		3 X 2
		4 X 3
		4 X 3 H
		6 X 4
		6 X 4 H
	13"	3 X 1.5 LF
		3 X 1.5
		3 X 2
		4 X 3
		4 X 3 HH
		6 X 4 H
C	14"	8 X 6 A
		10 X 8
	16"	6 X 4
		8 X 6
		10 X 8
		10 X 8 H
	17"	10 X 8

EAZN SERIES

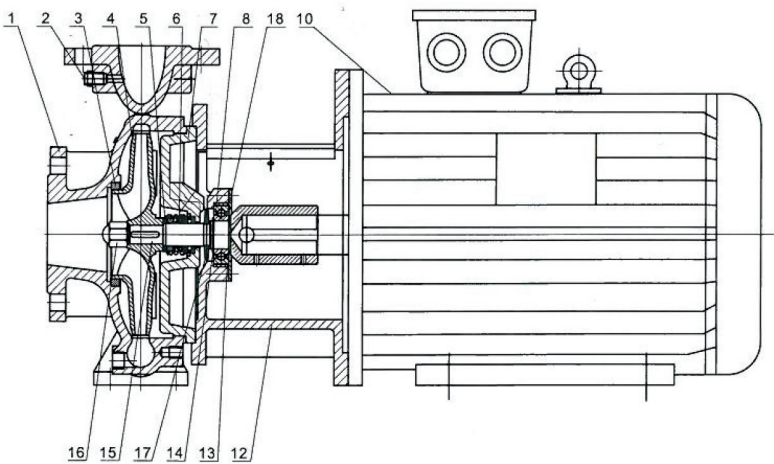


DESCRIPTION

EAZ series are derived from the EA series according to the European standard BSEN733/DIN24255 of performance.

Pump shaft and motor shaft are close couple designs. This way of coupling ensures the alignment of pump and motors pump impeller runs in good balance both dynamically and statically. Therefore pump would be kept very well when in operation. EAZ-S ,EAZ-B, EAZ-N are designed to be driven by IEC standard motors and EAZ-S and EAZ-B can be assembled separately without motors. EAZ-E requires a special motor with an extra long shaft.

Compared by EA pump direct-coupled with motor,EAZ series arte much shorter in length thus takes less space to install; and they can be adjusted into different performance levels through impeller trimming as EA. They are also used for pumping clean water or liquids similar to water, finding great application in tthe industries: city water supply, construction, long-distance transportation, air-conditioning and irrigation.



STRUCTURE DRAWING

- | | |
|-------------------|-----------------------|
| 1 Volute Casing | 10 IEC Standard Motor |
| 2 Screw Plug | 12 Adapter |
| 3 Wear ring | 13 Flexible Washer |
| 4 Impeller | 14 Circlip for Shaft |
| 5 Seal Seat | 15 Shaft |
| 6 Mechanical Seal | 16 Impeller Nut |
| 7 Casing Cover | 17 Slinger |
| 8 Bearing | 18 Bearing Cover |

Model Form

For example,

EAZ N 65 / 20-1850 2 - CI - BR - SS - MS - ANSI

- Flange
ANSI = American Standard Flange
Default: DIN Standard Flange
 - Seal Type
MS=Mechanical Seal
 - Shaft Material
SS= Stainless Steel ASTM420
S304=Stainless Steel ASTM304
S316=Stainless Steel ASTM316
45=Carbon Steel ASTM1045
 - Impeller Material
CI=Cast Iron
BR=Bronze
S304=Stainless Steel ASTM304
S316=Stainless Steel ASTM316
 - Casing Material
CI=Cast Iron
DI=Ductile Iron
S304=Stainless Steel ASTM304
S316=Stainless Steel ASTM316
 - Motor Pole Number (2, 4)
 - Motor Power 1/100KW
 - Impeller Nominal Size (cm)
 - Discharge Size (mm)
 - Adapter
B = Adapter for big bearing structure
S= Adapter for standard bearing structure
E= Adapter for prolonged motor shaft structure
N= Adapter for no bearing structure
- Close-coupled Centrifugal Pump



ESP-T SERIES

HEAVY DUTY SELF-PRIMING PUMPS

The ESP-T range eagle self priming centrifugal pumps are designed for industrial sewage use, offering various sizes and speeds to match system requirements like affluent transfer or greywater aeration. The large value design enables automatic re-priming and open systems without non-return valves, even with the dry suction line. A toll-free cleaning hatch allows easy removal of fibrous material.



FEATURES:

Long Life: Thanks to nature of the design and the ease of maintenance the pumps, the product has long service life.

Scalability: Self-priming pump is designed to be adjusted to whatever conditions you need.

Solids Handling: Any wastewater pump can clog, but a self-priming pump is designed to handle solids up to 75mm in diameter.

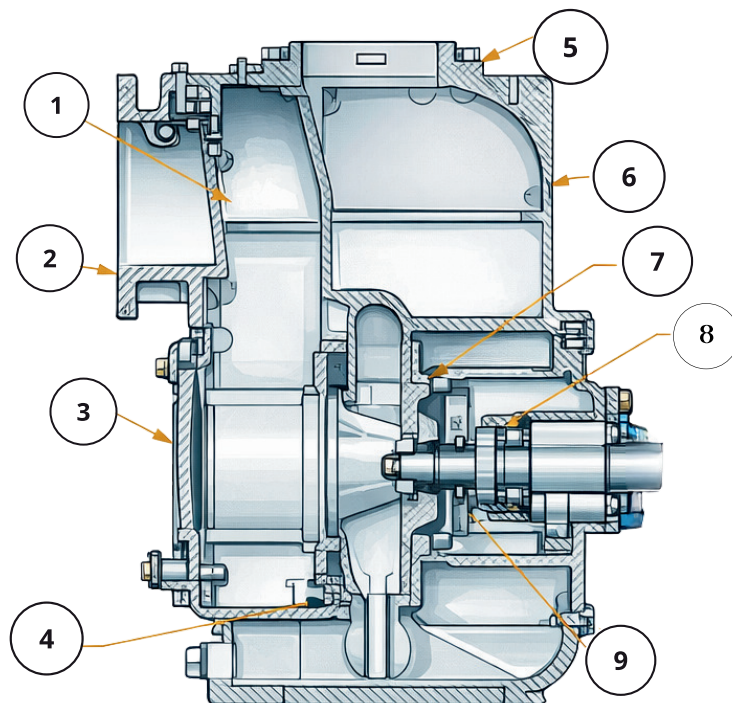
Easy Repairs: Self-priming pumps are designed for indefinite service, they are built with sacrificial parts that protect the pump's vital components from damage and wear.

Shim less adjustment: Can be adjusted on the run with no shims involved by means of Allen Key or Allen Socket the pump is Adjustable and back into service much faster than conventional models.



CROSS SECTIONAL VIEW

- 1 - CHECK VALVE
- 2 - SUCTION FLANGE
- 3 - COVER PLATE
- 4 - WEAR PLATE
- 5 - DISCHARGE FLANGE
- 6 - CASING
- 7 - SEAL PLATE
- 8 - BALL BEARINGS
- 9 - SHAFT



ES SERIES

DESCRIPTION

ES Series split casing pumps are engineered with a double-suction design, delivering high flow rates and exceptional efficiency. These pumps offer stable performance, low noise operation, and extended service life. Designed for ease of installation and maintenance, they are widely used in plants, mining operations, municipal water supply, irrigation systems, HVAC applications, and marine industries.



MATERIAL CODE

C: Cast Iron S304: ASTM 304
Q: Ductile Iron S316: ASTM 316
B: Brass Seal Type
S: ASTM 420 M: Mechanical Seal
45: ASTM 1045 P: Gland Packing

APPLICATION

- HVAC and Cooling Tower
- Municipal Water Supply
- Pump Station
- Marine and Ship Building
- Power Plant / Water Plant
- Industrial Water Supply System
- Fire Fighting System

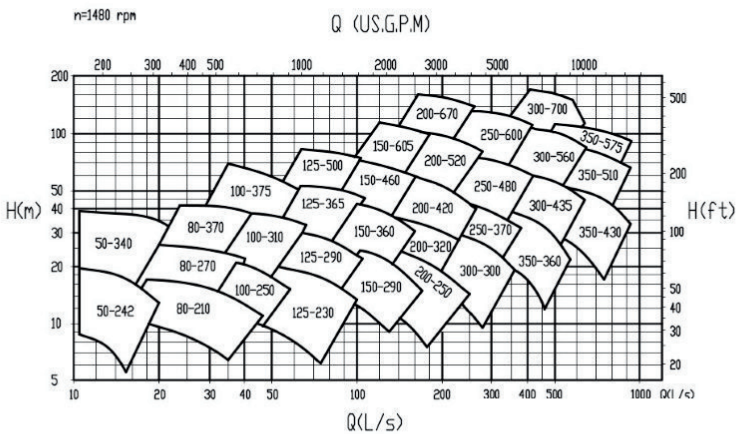
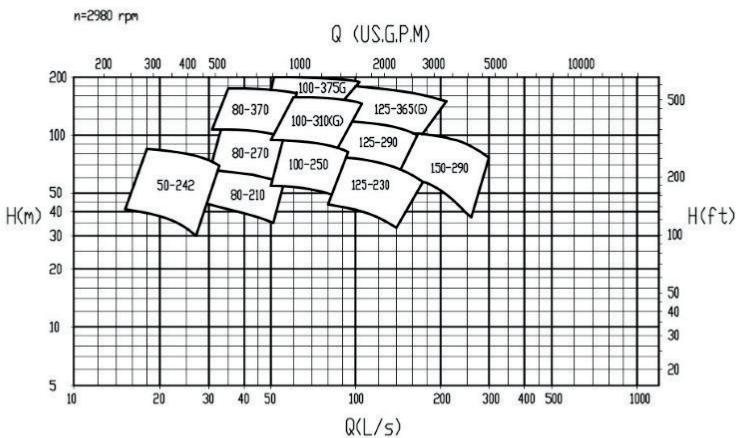
DESIGN AND STRUCTURE

Design: Performance referring to GB/T5657-95, Q/ FZEF 01-214 Standard
Structure: Single-Stage, Double-Suction, Split-Casing
DN (mm): 50~350
Flange: DIN2501 PN16 GB / T17241.6 PN1.6

High-Flow Double Suction Split Casing Water Pump

The ES Series split casing pumps are designed with a double-suction configuration to deliver reliable performance in demanding environments. Built for high flow rates and outstanding efficiency, these pumps provide smooth, stable operation with low noise levels and long service life. Their practical design ensures easy installation and simplified maintenance. Suitable for a wide range of applications, the ES Series is widely used in power generation, mining, municipal water supply, large-scale irrigation, HVAC systems, and marine operations.

ES Series-50HZ Performance



Product Series	ES Series
Applicable Standard	GB/T5657-95, QT/FZEF 001-2014 Standard
Capacities	36 ~ 3400 m ³ /h
Heads	8 ~ 190 m
Inlet & Outlet Diameter	50 ~ 350 mm
Speed (r/min)	1480 or 2980 rpm (50Hz) / 1780 or 3580 rpm (60Hz)
Max Working Pressure	1.6 MPa (standard); 2.5 MPa (on request)
Temperature	85 ~ 105°C

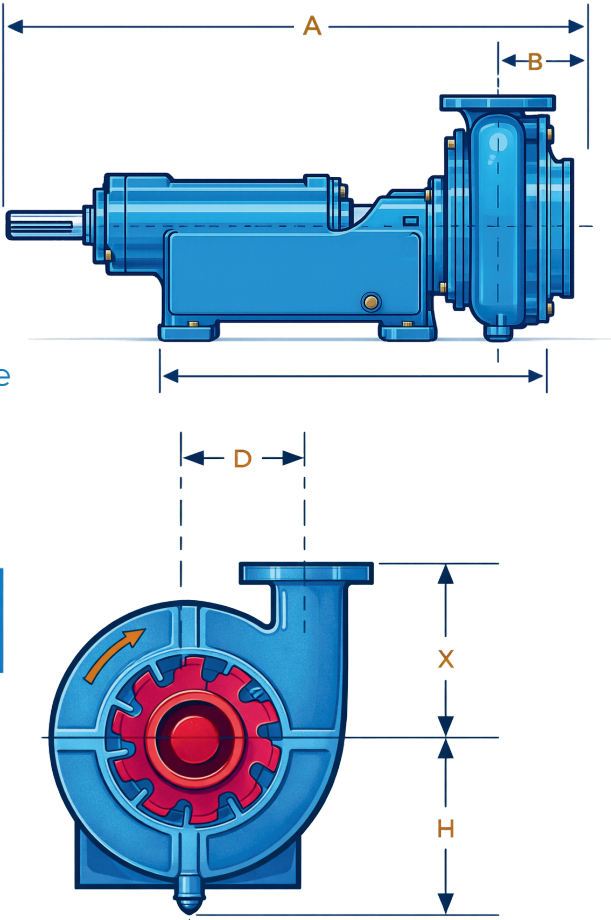
EJC SERIES

SLURRY PUMP

DESCRIPTION

The versatile eagle EJC slurry pump is designed and engineered to pump abrasive and corrosive slurries. Features such as replaceable wear liner, shaft sleeve, extra thick casing walls and the heavy duty bearing frame assembly make the eagle EJC a robust slurry pump.

Vaious materials of construction 28% chrome iron cast-iron stainless steel and CD4MCU



SERVICES



- BACK FILL
- CLAY & SAND SLURRIES
- 70% KAOLIN CLAY LIME MUD



- WET SCRUBBER SYSTEMS
- DIRTY WATER
- FRACING SLURRIES
- PAPER MILL WASTES & LIQUORS



- WASTE SLUDGE
- CARBON SLURRY
- WET SCRUBBER SYSTEMS
- PRECIPITATED CaCO₃

DIMENSIONS

PUMP SIZE	FRAME	A	B	D	H	X	SHAFT CE	WEIGH T (Kg)
1 EJC 11	1X1.5-11	1J	787	76	149	159	178	100
1.5 EJC 14	1.5X2-14	2J	800	89	200	238	210	144
2 EJC 14	2X3-14	2J	813	102	205	210	229	150
3 EJC 14	3X4-14	3J	933	121	213	270	235	200
4 EJC 14	4X6-14	3J	946	133	232	295	267	216
6 EJC 14	6X6-14	4J	1070	143	241	346	318	323
8 EJC 14	8X6-14	4J	1070	143	241	346	318	323
8 EJC 14	8X10-18	4J	1070	143	232	457	318	323
8 EJC 18	8X10-18	4J	1178	245	330	457	419	323
10 EJC 22	10X12-22	5J	1286	245	432	556	508	819

To maximise pump efficiency and compensate for where the EJC wet end has been designed to allow the impeller to be adjusted externally. Wear parts can be ordered in a selection of materials including stainless steel, cast-iron, chrome 28, duplex stainless steel and other materials by arrangement. Standard wet en material is 28% chrome hardened to 600 Brinell. Spherical solids of up to 57 mm can be pumped.

EVJC SERIES

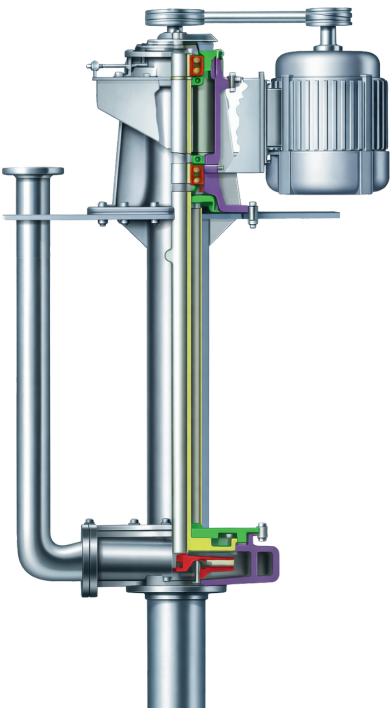
SLURRY PUMP

DESIGN FEATURES:

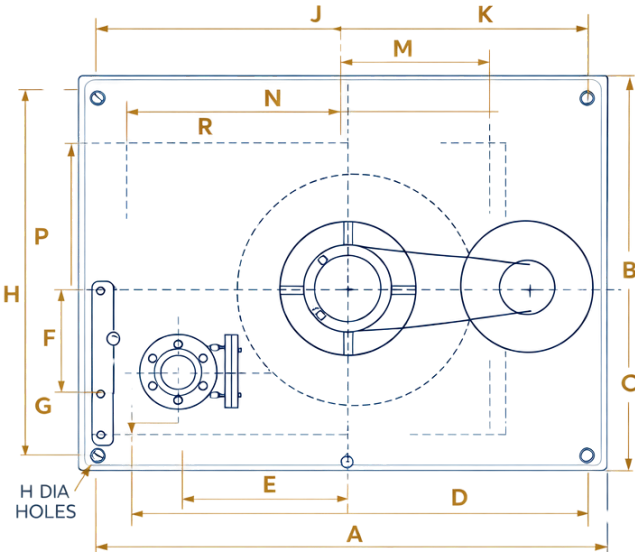
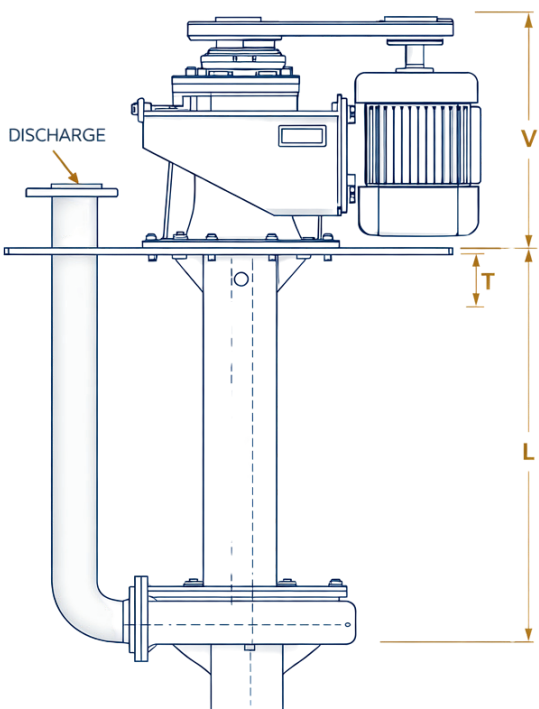
The diagram to the right shows the Eagle EVJC in a vertical cantilever configuration. In these applications, run dry capability is achieved by the absence of a throttle bush at the base of the pump.

This pump configuration has been successfully installed at a number of sugar mills throughout Southern Africa, pumping a variety of products ranging from diffuser juice, chain wash and boiler ash.

The standard EVJC pump can handle PH ranges from PH5-10. For environments outside of the normal operating range, contact your representative for assistance.

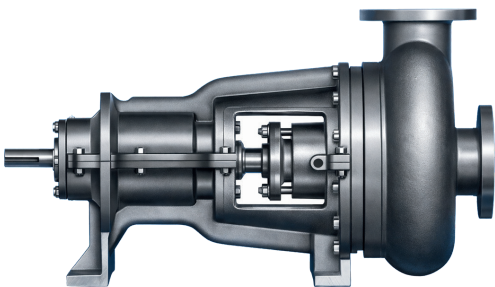


DIMENSIONS ARE NOT FOR CONSTRUCTION PURPOSES
DIMENSIONS SUBJECT TO CHANGE WITH OUT NOTICE



EHS SERIES

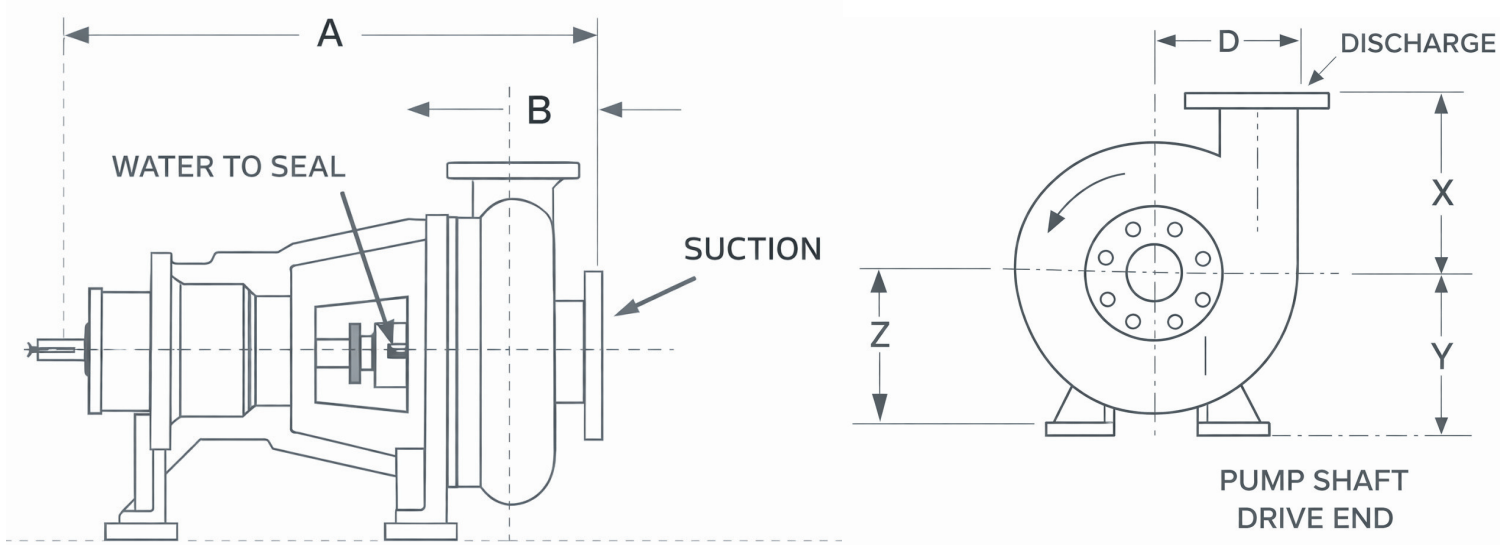
HANDLING PUMP



SOLVES MATERIAL TRANSFER

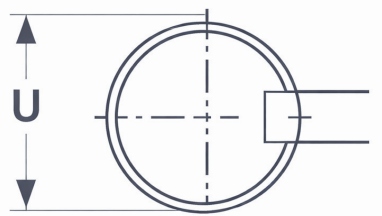
The Eagle EHS recessed impeller solids handling pump has a unique ability to handle large particles and fibrous solids. The full recessed impeller and extra wide casing allows any solid size entering the suction inlet to pass through the discharge nozzle. Materials of construction 28% chrome iron cast-iron and stainless steel. Also available vertical Canti lever arrangement. Available in five sizes up to 200 mm discharge. EVHS is also available upon request.

All Dimensions in millimeters. Not to be used for contruction.



DIMENSIONS

PUMP SIZE	FRAME	A	B	D	X	Y	Z	U	WEIGHT (Kg)
2 EHS 8	3H	751	76	111	197	200	146	45	130
3 EHS 10	3H	819	114	140	244	200	189	45	160
4 EHS 12	3H	949	140	165	292	250	203	45	195
6 EHS 18	3H	1064	191	244	406	250	337	45	320
8 EHS 22	5H	1276	229	305	521	430	425	90	465



EBW SERIES



EAGLE EBW RUBBER

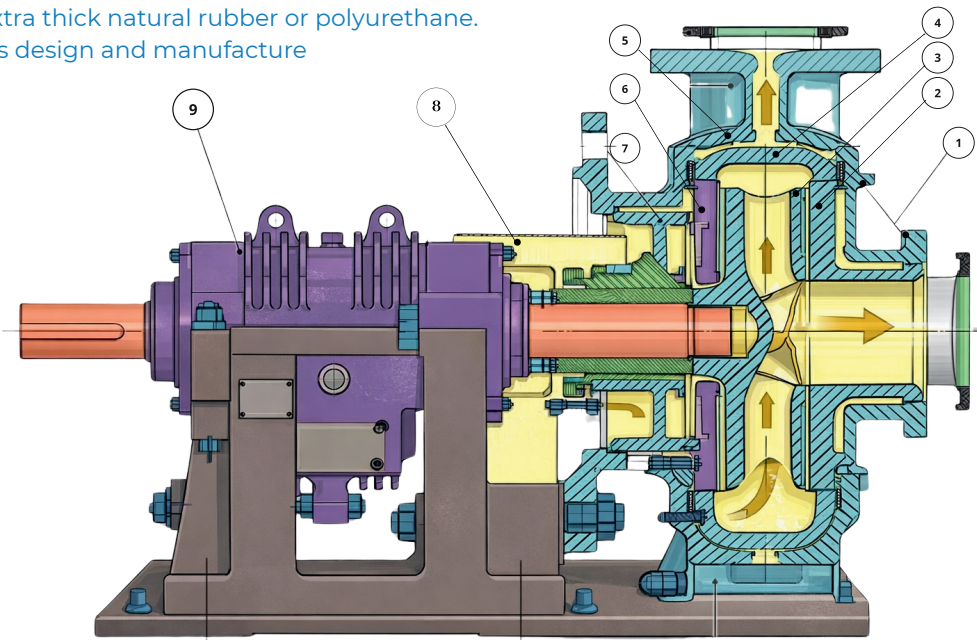
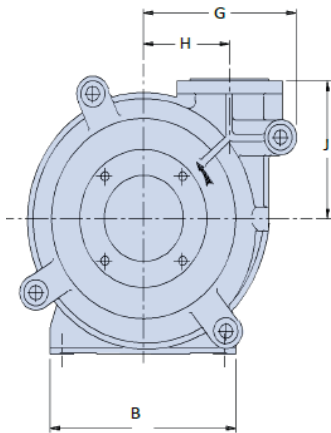
This Range of Eagle® slurry pumps are manufactured to continuously pump a very wide range of abrasive and corrosive slurries. The pump design incorporates a number of very aggressive mining and metal production environments , where a need to maintain efficiencies and minimal maintenance requirements. The pump has a number of interchangeable liners of steel , rubber or polyurethane.

APPLICATIONS

Mining and mineral processing: Mill discharge, tailings, spiral, raw water extraction, reclaim and backfill.
Sugar process: Diffuser juices, boiler ash, lime transfer, mixed juice, falling film, mill press water extraction and transfer.
Steel production: Mill scale, cooling water, raw water, ash.

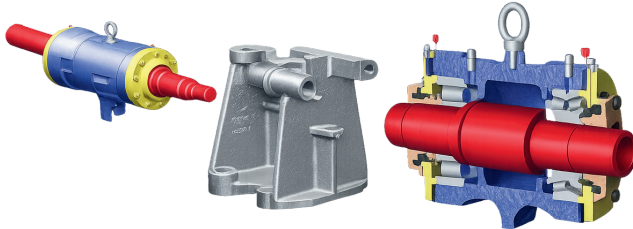
BENEFITS

Multiple configurations allow the EBW to be utilised any applications ranging from the aggressive mill discharge environment to the simple raw water extraction. The choice of different construction materials as well as the choice of different ceiling methods. Spare parts are variably interchangeable. Maintenance is simple and very cost-effective with the spares having a long service life due to the castings being manufactured in an extra thick natural rubber or polyurethane. Reduced operating costs due to the components design and manufacture and hyaluronic selection process.



POWER END ASSEMBLY

The EBW range has multiple bearing housings to suit almost every application .The power end as-semblies are totally interchangeable along a broad scope of power ranges with the Assemblies frame being suited to more than one wet end .The power ends are designed to cope with motor sizes from 30-900 kw and from speeds of 100-4400 revolutions per minute.

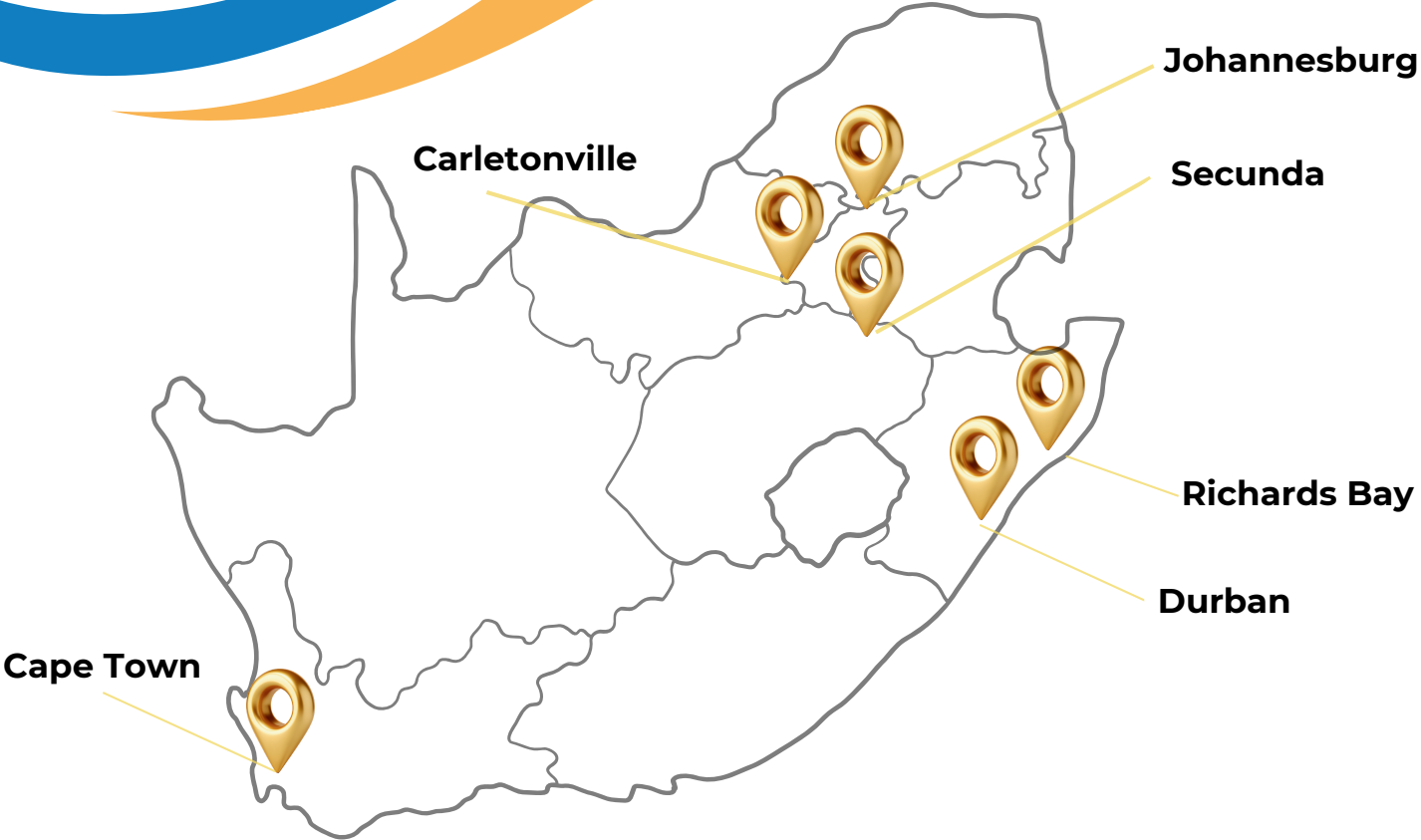


METAL LINED PUMP COMPONENT DESCRIPTION

DESCRIPTION	MATERIAL	ASTM CODE
1 FRONT COVER	QT 500-7	70-50-05
2 COVER PLATE	KB04	25% CROME
3 IMPELLER	KB04	25% CROME
4 COVER PLATE LINER	KB04	25% CROME
5 CASING	KB04	25% CROME
6 FRAME PLATE LINER	QT 500-7	70-50-05
7 SEAL CHAMBER	KB04	25% CROME
8 WATER PROOF COVER	—	—
9 BEARING ASSEMBLY	KB04	25% CROME
	—	—



OUR BRANCHES



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