EBARA

EBARA PUMPS AUSTRALIA

GENERAL CATALOGUE

Aiming for Further Evolution to the Next Level

as a “Globally Excellent Company”

Top Message

Since its founding in 1912, the EBARA Group has supported social and industrial infrastructure as a leading manufacturer of machinery centred around pumps. Over the years, we have steadily expanded our expertise to include chillers, fans, compressors & turbines, construction & operation management of waste treatment plants and equipments for semiconductor manufacturing. Furthermore, we are venturing into new fields such as hydrogen-related businesses, aerospace, marine, and bio, building on our core technologies.

Corporate Philosophy

We contribute to society through high quality technologies and services relating to water, air and the environment. It is the mission of the EBARA Group to develop our core competencies, products and services to create solutions for the issues facing the world today. By supporting the global community through our core competencies and business dealings and focusing on the environment and sustainability, we hope to improve the world for future generations.

History

EBARA was founded by Issey Hatakeyama in 1912. Driven by a strong desire to contribute to nation-building by ensuring the safe and stable supply of water, EBARA developed Japan’s first domestically produced pumps and other hydraulic machinery, responding to the needs of society. Since then, we have continued to grow by sincerely addressing the social challenges, industrial demands, and everyday lives of people across each era.

Technology

Powerful Enough to Drain a 25 m Pool in Just 1 Second

EBARA's pumps leverage advanced fluid control technology to efficiently discharge large volumes of rainwater into rivers. Widely deployed in drainage pump stations around the world, they demonstrate exceptional performance. For example, at one of Japan's largest floodwater diversion facilities, our four pumps, equipped with 3.8-metre-diameter impellers, can drain the equivalent of a 25-metre swimming pool in just one second. By mitigating increasing flood risks, our reliable pumps and services help ensure the safety of critical infrastructure.

Drainage Capacity: 50 Tons/s

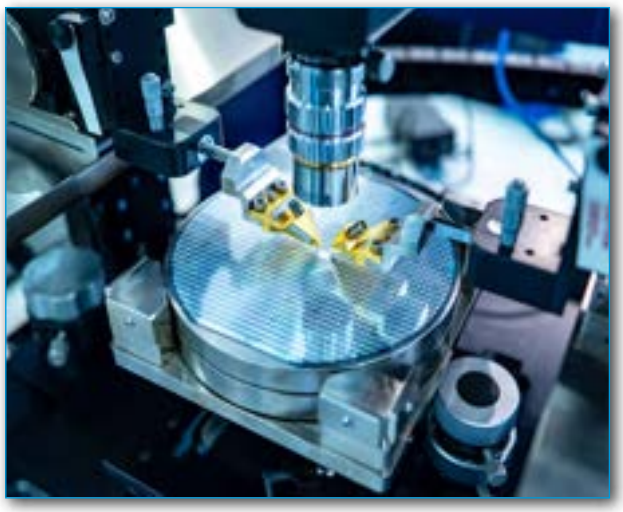
Operating Temperature: -253°C

Reliable Performance in Extreme Temperature Conditions

EBARA's pumps are designed to operate across a wide range of fluid temperatures, from the cryogenic extreme of −253 °C liquefied hydrogen to high-temperature applications. With advanced thermal design, carefully selected heat and cold resistant materials, and precision manufacturing, our pumps deliver stable and energy-efficient performance even under the most demanding conditions. By applying our expertise in cryogenic technology, essential for the liquefied hydrogen supply chain, we contribute to building a sustainable hydrogen society for the future.

Nanometre-Scale Planarisation for Semiconductors

EBARA possesses polishing technology, equivalent to two nanometre. Semiconductor wafers, which form the foundation for electronic components, require extremely flat surfaces, as even slight unevenness can affect circuit formation. Our Chemical Mechanical Polishing (CMP) systems achieve perfectly smooth surfaces with nanometre-level precision, contributing to the manufacture of high-quality semiconductors. We continue to advance our polishing technology to support the development of cutting-edge semiconductor innovations.



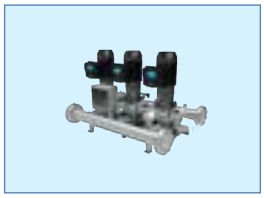
Precision Machining: 2 nm
(1nm=1/1,000,000 mm)

SOLUTIONS

Creating a new kind of comfort in the world and empowering industry to expand its horizons by mastering water, air and heat, we will become leaders in establishing firsts in industry and around the world. Centred on our flagship pumps, we support society, industry and daily life worldwide with a diverse range of products, including blowers, chillers, mixers and semiconductor manufacturing equipments.

Building Service & Industry

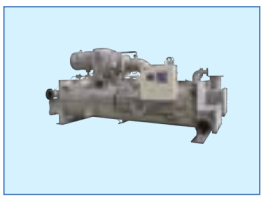
1 Water pump unit



2 Cooling tower

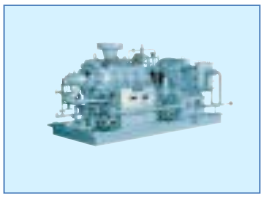
3 Sea water circulation pump

4 Chiller



5 Boiler feed pump

6 Descaling pump



7 Fan & blower

8 Top entry mixer

9 Attrition scrubber

Energy

10 Cryogenic pump

11 Compressor & turbine

Infrastructure

12 Agricultural pump

13 Jet fan

14 Drainage pump

Environmental Solutions

15 Waste incineration plant

16 Biogas power generation plant

Precision Machinery

17 CMP system

18 Dry vacuum pump

19 Gas abatement system


LNG plant
10 Cryogenic pump
11 Compressor & turbine
Steel mill
5 Boiler feed pump
6 Descaling pump
7 Fan & blower
Field
12 Agricultural pump
Building
1 Water pump unit
2 Cooling tower
Aquarium
3 Sea water circulation pump
Waste to energy plant
15 Waste incineration plant
16 Biogas power generation plant
Tunnel
13 Jet fan
Pump station
14 Drainage pump
Semicoductor plant
17 CMP system
18 Dry vacuum pump
19 Gas abatement system
Stadium
4 Chiller
Mining
8 Top entry mixer
9 Attrition scrubber

GLOBAL CASE STUDIES

- The Ancient Roman Colosseum, Italy -

The Roman Colosseum, a UNESCO World Heritage Site in Italy, is renowned for its monumental architecture and gladiatorial games. Built nearly 2,000 years ago, it could accommodate tens of thousands of spectators and remains a lasting symbol of Roman engineering and history.

During the 2013 restoration of the historic site, EBARA's vertical multi-stage pump, model EVMG, played a crucial role in preserving the structure. The years of accumulated dirt was safely and efficiently removed from the walls using high-pressure water, ensuring the delicate stone surfaces were not damaged during the cleaning process. Following the Colosseum restoration, this pump has continued to be employed in cleaning various World Heritage Sites across Italy.

- Data Centre, China -

A data centre is located in Sichuan Province, one of China's fastest-growing regions. Recognised as a prime destination for next-generation digital infrastructure, Sichuan offers abundant clean energy and advanced infrastructure, perfectly aligned with the country's national digital strategy.

As the country strengthens its commitment to cleaner energy policies, demand is increasing for more sustainable cooling solutions. EBARA addresses this need with a Combined Cooling, Heating, and Power (CCHP) system that utilises high-temperature flue gas from micro gas turbines to drive absorption chillers, eliminating the need for additional electricity. By recycling waste heat for cooling, the system enables near-zero power consumption during operation and helps customers meet stringent efficiency targets while supporting sustainable energy use.

- Merlion Fountain, Singapore -

The Merlion is a world-renowned statue in Singapore, recognised not only as a major tourist attraction but also as a symbol of the city's humble beginnings as a small fishing village.

To allow the Merlion to majestically spray water, the fountain project incorporated two specially designed vertical high-pressure pumps from EBARA, specifically engineered for seawater intake. The fountain officially began its operation in 2003 and has since captivated countless visitors. Our pumps operate alternately, with one pump always kept on standby, ensuring stable, continuous, and reliable performance while maintaining the statue's iconic water display.

- Lake Mead, USA -

Las Vegas, the largest city in the US state of Nevada, also known as the "city in the desert," gets its drinking water from the Hoover Dam reservoir (Lake Mead), 48 km away.

Due to the challenging terrain, advanced pumping technology is essential. To meet this need, EBARA has supplied two pumps. The first is a vertical shaft mixed-flow pump that extends 88 metres below ground and draws water from 67 metres beneath the lake's surface. The second is the world's largest submersible motor pump, with an output of 3,351 HP (2,500 kW). Installed about 140 metres above ground, it uses a unique double-suction, single-stage impeller that enables high rotational speed, excellent suction performance, and high head.

EBARA PUMPS AUSTRALIA

Since our establishment in 2000, EBARA PUMPS AUSTRALIA has been dedicated to meeting the evolving needs of the market with an ever-expanding lineup of premium-quality pumps. Backed by a trusted network of over 700 customers across Oceania, we deliver exceptional products and services to the users of our products throughout the region.

Our Value Proposition: Make it Easy

Guided by our motto, “Make it Easy,” we are dedicated to streamlining the entire process, from consultation to delivery. Australia’s vast geography can create logistical challenges, but our comprehensive one-stop service ensures fast delivery, expert support, and seamless access to our sales and engineering teams. We offer a broad product lineup, clear technical information, and a responsive support structure to make your experience efficient and worry-free. With EBARA as your partner, you can focus on what matters most: growing your business.

Our Three Business Sectors

We operate our business in three key areas that are particularly important in the Oceania region.

Water

We support the creation of comfortable and secure living environments while promoting industrial development. We provide comprehensive solutions to meet a wide range of needs, from everyday water supply and drainage to air-conditioning systems and fluid-transfer pumps for commercial buildings and industrial facilities.

Commercial Building | Industry | Irrigation | Municipal Water & Wastewater | Residential

Energy

EBARA delivers trusted solutions worldwide, from cryogenic pumps for Liquefied Natural Gas (LNG) to compressors, turbines, and ammonia pumps for energy and industry. EBARA PUMPS AUSTRALIA supports customers with original equipment manufacturer (O.E.M.) spare parts and pump revamp services for both onshore and offshore sites.

Decarbonised Energy | Power | Fertiliser

Mining

We deliver high-quality, long-lasting, cost-effective, harsh-duty mixers and mixing systems for the most challenging fluid applications, including Gold Leach, Carbon-in-Leach (CIL) , Carbon-in-Pulp (CIP) solutions. We work closely with customers to assess your mining operation, identify the best process solution, and provide the exact equipment required.

Mining

WATER SECTOR

- Pumping Solutions for Everyday Needs to Industrial Liquids -

EBARA provides comprehensive services across a wide range of sectors, including industry, commercial building services, irrigation, municipal water and wastewater, and residential applications. Whether it's supplying drinking water or driving essential operations in factories, our pumps quietly perform the vital work that keeps life and business flowing.

Water supply for the Festival Plaza fountain system (SA)

The Festival Plaza is a unique, world-class hub for the arts, culture, tourism and entertainment in Adelaide. The EBARA GSD range of EN733 closed coupled motor pumps supply clean water to the fountain system to contribute to the development of the public community.

Water supply for the drip irrigation system (VIC)

In the Murray region, the second-largest almond-producing area after California, growers use water-efficient drip irrigation to maximise limited water resources. EBARA's high efficiency GS range of EN733 long-coupled motor pumps delivers only the water required, helping ensure sustainable water use in the region.

Water resource recovery facility (WA)

The Dissolved Air Flotation (DAF) process clarifies wastewater by removing oil and solids. EBARA's EVMS stainless steel vertical multistage pumps and 3LS stainless steel EN733 closed coupled motor pumps are installed in the DAF recycle skid at a WA facility, supporting a more sustainable society.

ENERGY SECTOR

- Solid Technologies and Performance for Stable Energy Supply and Industrial Operations -

EBARA has long supported essential industries, from power generation and food production to Australia's LNG exports. Our advanced pumping technologies ensure reliable performance, enhancing the safety, efficiency, and stability of critical infrastructure.

Power Stations

Power stations are the backbone of energy infrastructure, supplying the electricity that supports daily life and industry. Inside the boiler, high-temperature and high-pressure steam must be maintained, requiring a stable and continuous supply of water. EBARA's boiler feedwater pumps, specifically designed to withstand extreme heat and pressure, have earned a reputation for durability and performance. For over 50 years, our pumps have been operating continuously to support power stations across Oceania.

LNG Plants

LNG is one of Australia's key export commodities, playing a vital role in national and global energy markets. LNG plants require equipment capable of reliably handling ultra-low temperatures and high pressures while maintaining the highest safety and efficiency standards. EBARA's specialised solutions are used across LNG processes, including cooling, circulation, and transfer, ensuring smooth, continuous operations. Our technologies are trusted by industry leaders for their performance to meet the exacting challenges of LNG production.

Fertiliser Plants

Fertiliser plants are essential to modern agriculture, producing the products that sustain global food supply. In particular, ammonia production demands uninterrupted operation and precise control of both pressure and flow to ensure efficiency and safety. EBARA's custom pumps play a central role at the heart of these plants, reliably supporting fertiliser production day after day. With decades of proven performance, our pumps help maintain smooth operations and contribute to a sustainable global food supply.

MINING SECTOR

We deliver high-performance, durable, and cost-effective mixers and pumps tailored for demanding applications. Built for efficiency, safety, and reliability, our mixers serve industries such as mining, chemicals, food, and pharmaceuticals. Backed by expert support, our mixers facilitate responsible material extraction, playing a key role in driving progress in EVs and semiconductors—contributing to a more sustainable future and your continued success.

- Mixing Solutions Built for Demanding Mineral Processing and Beyond-

Tough mining environments require equipment that's reliable, durable, and performance driven. That's why EBARA CORPORATION expanded into the mineral processing space with the acquisition of Hayward Gordon ULC in October 2022. The move strengthened EBARA's global manufacturing capabilities and diversified its product portfolio.

Founded in Ontario, Canada in 1952, Hayward Gordon began as a regional supplier across the Americas. Today, it stands as a global leader in heavy-duty mixing solutions, particularly in the mineral sector.

In Australia, EBARA PUMPS AUSTRALIA has supported local industry since 2000 with dependable pump technologies. Strengthening its commitment in early 2024, EBARA PUMPS AUSTRALIA partnered closely with EBARA Hayward Gordon to bring the company's full mixer range and expertise to mining operations nationwide.

EBARA | EBARA HG

- Engineered for the Toughest Mineral Processing Tasks-

- **Gold Leach, CIL, CIP Mixers**
  Designed to maximise gold recovery, these mixers ensure consistent slurry agitation and optimal contact between ore and leaching solution.
- **Storage Tank Agitators**
  Built for abrasive slurries, these agitators prevent sediment buildup and maintain uniformity for stable downstream processing.
- **Conditioning Tank Mixers**
  Critical to flotation performance, these mixers guarantee precise blending of additives for better recovery rates.
- **Solvent Extraction**
  Pump mixers to generate head and dispersion of aqueous and organic phases.
- **Attrition Scrubbing Systems**
  Applying decades of mixing expertise, Hayward Gordon's scrubbers deliver reliable, high-performance scrubbing for a wide range of minerals.

- Reliable Service, Right Where You Need It-

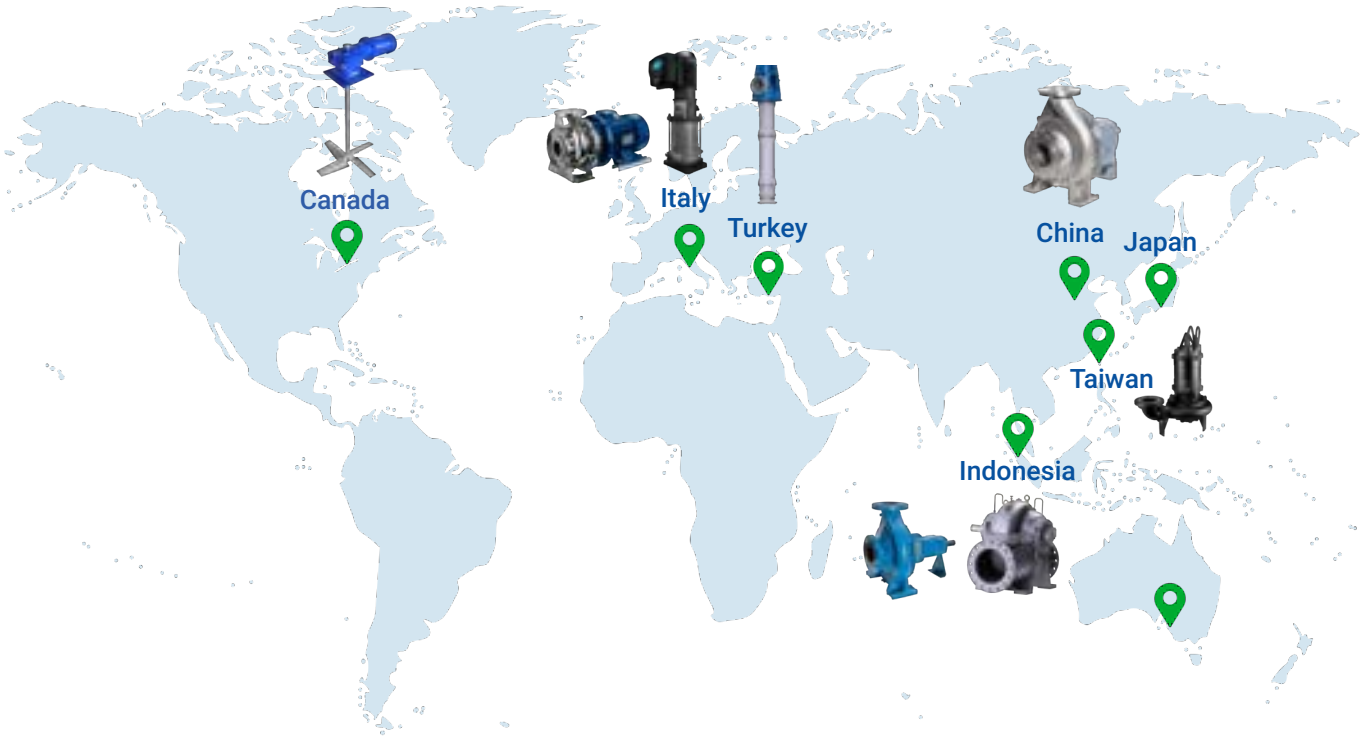
With a strong local footprint, EBARA PUMPS AUSTRALIA ensures responsive, hands on support from technical troubleshooting to maintenance advice. The result: reduced downtime, maximised uptime, and peace of mind.

- Proven Across Industries-

Mixers for other industries		Applications
	Water & Wastewater	Sludge blending, chemical dosing, flocculation
	Oil & Gas	Bottom Sludge & Water (BSW) tank blending, drilling mud, asphalt mixing
	Chemical Processing	Mixing high-viscosity fluids, heat transfer, reaction control
	Food & Beverage	Ingredient blending, texture maintenance, hygiene-sensitive mixing
	Pulp & Paper	Fibre suspension, chemical additive blending, stock conditioning
	Pharmaceutical & Biotech	Hygienic mixing, active ingredient dispersion, shear-sensitive formulations

GLOBAL NETWORK

EBARA has a global network of manufacturing and sales bases across Japan, Asia, North America, Europe, the Middle East, and South America. These multiple production and procurement sites ensure resilient supply chains and swift delivery of the most suitable products and services. Close collaboration between global R&D teams and local engineers provides advanced technical support and tailored solutions. We hold international certifications and strictly comply with global environmental and safety standards.



EBARA PUMPS AUSTRALIA

Headquarters & Main Production Facilities

Our production facilities integrate advanced technology with extensive expertise to maintain consistently high-quality manufacturing. Every process follows strict quality control standards supported by thorough inspections and ongoing improvement. Some products are assembled in Australia, allowing us to respond flexibly and accurately to our customers' needs. Building on the EBARA Group technical strength, we supply products known for their reliability and lasting value.

Headquarter
Japan

Fujisawa factory
(R&D Headquarter)
Japan

EBARA Hayward Gordon
Canada

EBARA Pumps Europe
Italy

Vansan Makina San
Turkey

PT. EBARA
Indonesia

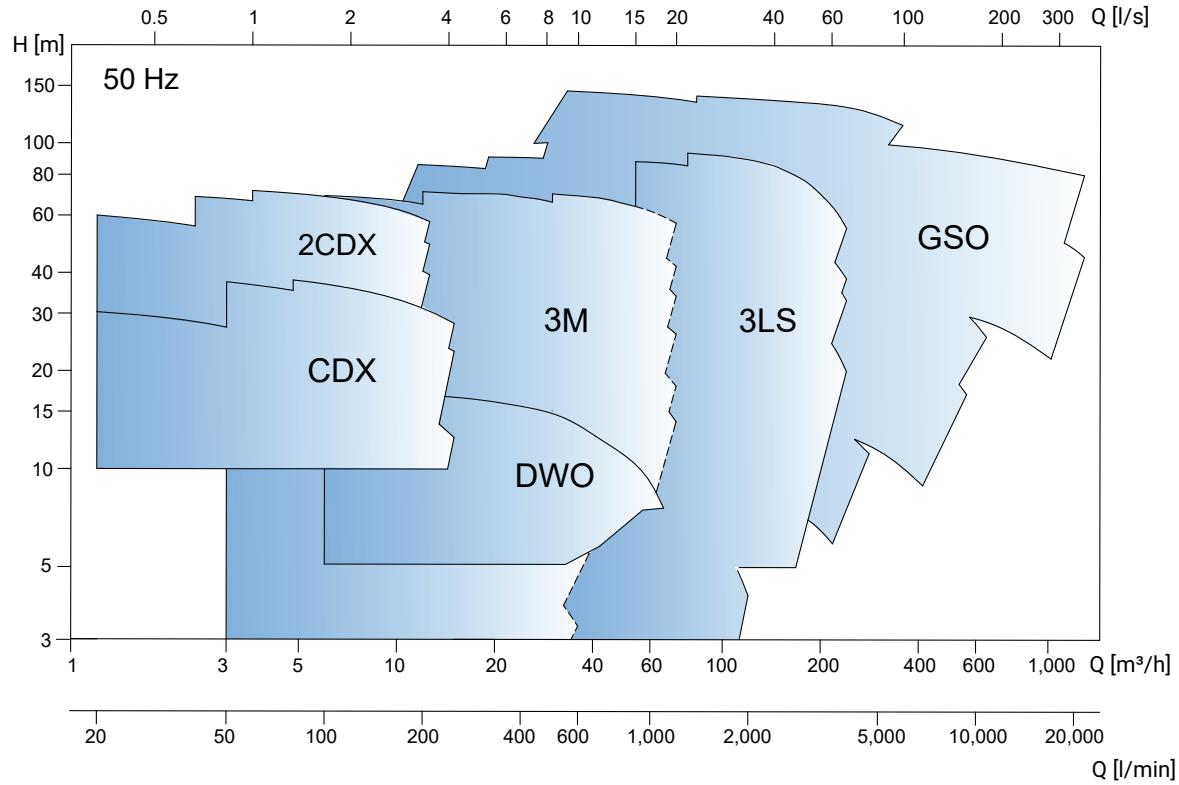
EBARA Machinery
China

EBARA-Densan Taiwan
Manufacturing

PRODUCT LINES AT EBARA PUMPS AUSTRALIA

Stainless steel end suction pumps

Selection Chart

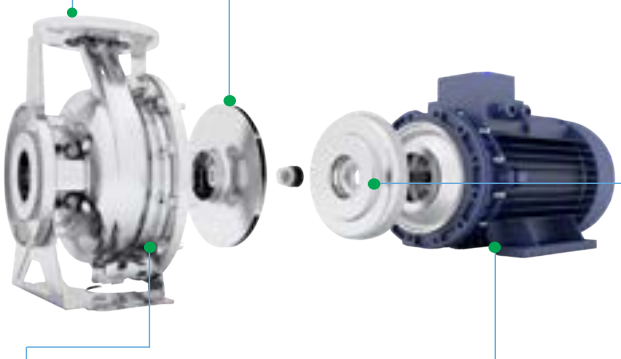


Featured Product

3 series - 3M/3LS

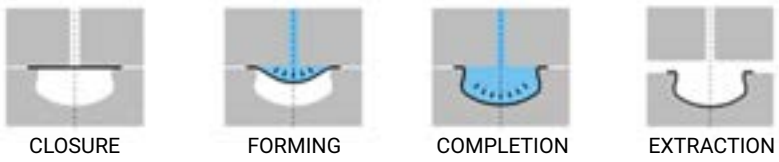
1 Pump dimensions compliant with EN733

European standard specifies the designations, nominal duty points and main dimensions of end-suction centrifugal pump rated at 10 bar



2 Hydroforming pump volute casing

The hydroforming process uses a high-pressure (up to 1,200 bar) fluid to form the metal. It enables achieving high pump efficiency (MEI > 0.7) and high quality without welding surface



3 FCM (Food Contact Materials) EN 1935/2004 as option

Hydraulic parts are pickled and passivated.
Hygienic piping designs available withTri-Clamp (DIN 32676) and Milk-pipe (DIN 11851) connections

4 Reinforced pump casing

Top centreline discharge and foot support under the casing to minimise misalignment from pipe loads

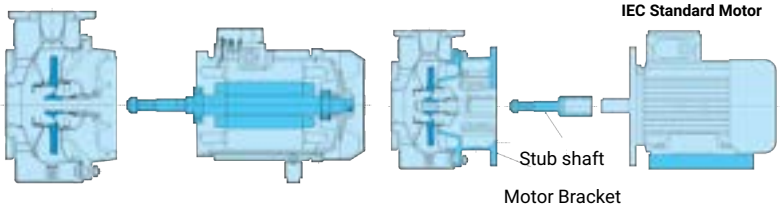
5 Versatile constructions

3M

Extended shaft motors for compact design

3LS

Flexible motor solutions equipped with stub shaft
WEG W21 as standard
WEG W22 as option



Stainless steel end suction pumps

3M

EN733 close coupled pump
with extended shaft motor

3LS

EN733 close coupled pump
in SS316L with standard motor

GSO/GSOF

ISO2858 / ISO5199 pump
with open impeller option

Applications

- Industrial parts washing
- Micro or Ultra-filtration
- Handling of refrigerant for cooling
- Cooling and air-conditioning

- Dissolved air flotation
- Micro or Ultra-filtration
- Filtration and transfer in commercial swimming pool
- Irrigation

- Brine liquid transfer in RO plants
- Paper making process (pulp pump 0.3% & below)
- Food industrial process
- Acid and alkali chemical industry

Key Features

- EN733 dimension
- Hydroforming pump volute casing for high efficiency and high quality
- Reinforced pump casing
- IE3 extended shaft motor for compact design and energy saving
- FCM (Food Contact Materials) EN 1935/2004 as option

- EN733 dimension
- Hydroforming pump volute casing for high efficiency and high quality
- Reinforced pump casing
- WEG W21 motor as standard
- FCM (Food Contact Materials) EN 1935/2004 as option

- ISO2858 dimension
- ISO5199 design
- Open impeller (GSOF)
- Stainless steel 304,316,316L, Duplex stainless steel, Super duplex stainless steel
- Various sealing arrangement

Specifications

Operating range

Flow rate	up to 72 m³/h (2 pole) up to 39 m³/h (4 pole)
Total head	up to 71 m (2 pole) up to 17.7 m (4 pole)
Max. working pressure	10 bar
Max. liquid temperature *¹	-10 to 90ºC
Outlet size	32 to 50 mm

Flow rate	up to 240 m³/h (2 pole) up to 132 m³/h (4 pole)
Total head	up to 95 m (2 pole) up to 24 m (4 pole)
Max. working pressure	10 bar
Max. liquid temperature	-10 to 110ºC
Outlet size	32 to 80 mm

Flow rate	up to 1,250 m³/h (GSO) up to 210 m³/h (GSOF)
Total head	up to 150 m (GSO) up to 105 m (GSOF)
Max. working pressure	16 bar
Max. liquid temperature *¹	-30 to 150ºC
Outlet size	32 to 200 mm

Pump material

Casing	Stainless steel 304
Impeller	Stainless steel 304
Mechanical seal *¹	Carbon/Ceramic/NBR

*¹ High temperature seal (110ºC) and hard faced seal available on request

Casing	Stainless steel 316L
Impeller	Stainless steel 316L
Mechanical seal *¹	SiC/SiC/FPM

*¹ Standard seal is hard faced and suitable for 110ºC

Casing	Stainless steel 304, 316(L) & Duplex / Super duplex
Impeller	Stainless steel 304, 316(L) & Duplex / Super duplex
Mechanical seal*¹	SiC/Carbon/FKM as standard

*¹ Various seal options available on request

Motor

Power rating	1.1 to 15 kW (2 pole, 3 ph) 0.37 to 2.2 kW (4 pole, 3 ph)
Efficiency	IE2 (0.37 to 0.75 kW) IE3 (1.1 kW and above)

Power rating	1.1 to 55 kW (2 pole, 3 ph) 0.25 to 7.5 kW (4 pole, 3 ph)
Efficiency	IE3
Brand	WEG W21 as standard WEG W22 as option

Power rating	0.75 to 160 kW (2 pole, 3 ph) 0.55 to 400 kW (4 pole, 3 ph)
Efficiency	IE3
Brand	WEG W21 as standard WEG W22 as option

CDX
Single impeller close coupled pump with extended shaft motor

2CDX
Twin impeller close coupled pump with extended shaft motor

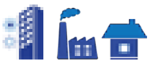
DWO
Open impeller close coupled pump with extended shaft motor

Applications

CDX

- Heating, ventilation, air-conditioning and cooling
- Washing plants
- Membrane filtration
- Domestic pressurisation

2CDX



- Heating, ventilation, air-conditioning and cooling
- Washing plants
- Membrane filtration
- Domestic pressurisation

DWO

- Clean-In-Place (CIP) in Food & beverage
- Parts/bottle washing
- Dirty liquid handling

Key Features

CDX

- Hydroforming pump volute casing for high efficiency and high quality
- IE3 extended shaft motors for compact design and energy saving
- FCM (Food Contact Materials) EN 1935/2004 as option

2CDX

- Hydroforming pump volute casing for high efficiency and high quality
- IE3 extended shaft motors for compact design and energy saving
- FCM (Food Contact Materials) EN 1935/2004 as option

DWO

- Hydroforming pump volute casing for high efficiency and high quality
- Solid free up to Φ19 mm
- IE3 extended shaft motors for compact design and energy saving

Specifications

Operating range

CDX

Flow rate	up to 15 m³/h
Total head	up to 41 m
Max. working pressure	8 bar
Max. Liquid temperature*¹	-5 to 90ºC
Outlet size	G 1”

2CDX

Flow rate	up to 12.6 m³/h
Total head	up to 75 m
Max. working pressure	8 bar
Max. Liquid temperature*¹	-5 to 90ºC
Outlet size	G 1”

DWO

Flow rate	up to 66 m³/h
Total head	up to 18 m
Max. working pressure	8 bar
Max. Liquid temperature*¹	-5°C to +90°C
Outlet size	G 2”
Solid handling	up to Φ19 mm

Pump material

CDX

Casing	Stainless Steel 304
Impeller	Stainless Steel 304
Mechanical seal*¹	Carbon/Ceramic/NBR

*¹ High temperature seal (110ºC) and hard faced seal available on request

2CDX

Casing	Stainless Steel 304
Impeller	Stainless Steel 304
Mechanical seal*¹	Carbon/Ceramic/NBR

*¹ High temperature seal (110ºC) and hard faced seal available on request

DWO

Casing	Stainless Steel 304
Impeller	Stainless Steel 304
Mechanical seal*¹	Carbon/Ceramic/NBR

*¹ High temperature seal (110ºC) and hard faced seal available on request

Motor

CDX

Power rating	0.37 to 1.5 kW (2 pole, 1ph) 0.37 to 1.8 kW (2 pole, 3ph)
Efficiency	IE2 (1 ph), IE3 (3 ph)

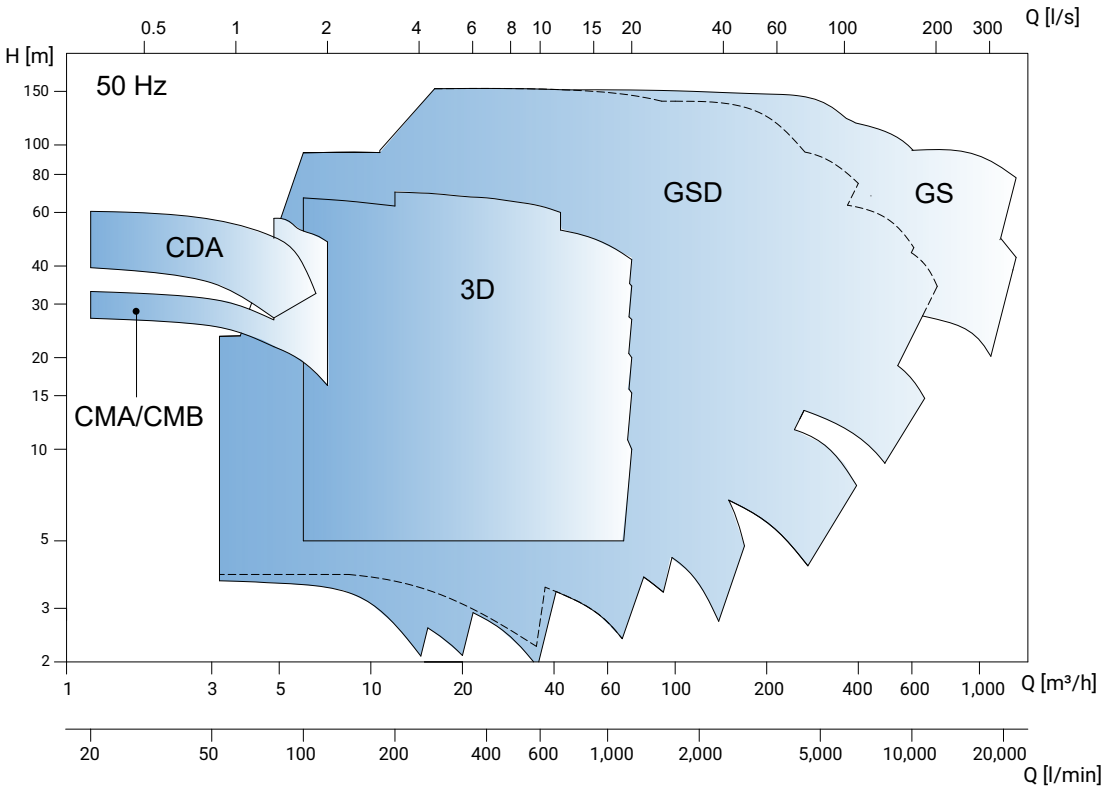
2CDX

Power rating	0.75 to 1.5 kW (2 pole, 1 ph) 0.75 to 3.7 kW (2 pole, 3 ph)
Efficiency	IE2 (1 ph), IE3 (3 ph)

DWO

Power rating	1.1 to 1.5 kW (2 pole, 1 ph) 1.1 to 3.0 kW (2 pole, 3 ph)
Efficiency	IE2 (1 ph), IE3 (3 ph)

Selection Chart



Featured Product

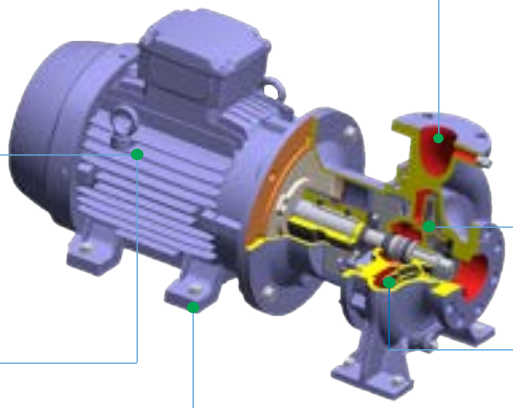
GS series - GS/GSD

1 EN733

European standard, EN733 specifies the designations, nominal duty points and main dimensions of end-suction centrifugal pumps

2 High working pressure

Max working pressure is 16 bar
(24 bar hydrostatic test pressure)



3 Motors options

WEG W21 as standard
WEG W22 as option

4 High pump efficiency

Thanks to the high skilled hydraulic design by using innovative computational fluid dynamics technology, GS pumps can achieve the high pump efficiency, MEI (minimum efficiency index) ≥0.6 for all models

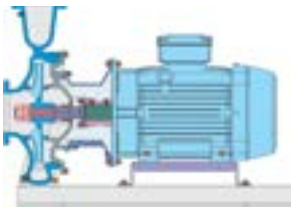
5 Versatile constructions

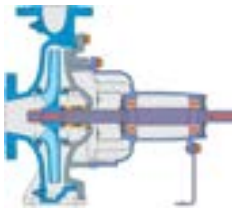
GSD
Close coupled pumps with standard motor

GS
Bare shaft pumps

6 High corrosion resistance

Pump casing and impeller are coated with cationic electrodeposition coating to keep the high corrosion resistance and also contribute to the high pump efficiency thanks to reduced surface roughness





7 Robust pump support

There are various combinations of spacers and baseplates depending on the model. Spacers and/or supports are available as standard. Galvanised steel baseplates are on requests

Fire protection system standard AS2941:2013

Cast iron end suction pumps

GSD

EN733 close coupled pump
with standard motor

GS

EN733 bare shaft pump

GS - AS2941

Fire protection system
compliant bare shaft pump

Applications

- Filtration in swimming pool
- Boiler feed and condensate
- HVAC
- Water circulation in cooling towers
- Irrigation

- Boiler feed and condensate
- HVAC
- Water circulation in cooling towers
- Irrigation

- Firefighting

Key Features

- Pump dimensions to EN733
- Max working pressure 16 bar
- High pump efficiency MEI ≥ 0.6
- Bronze or stainless steel impeller
- WEG W21 motor as standard
  WEG W22 motor as option

- Pump dimensions to EN733
- Max working pressure 16 bar
- Bronze or stainless steel impeller
- Long coupled types with standard
  motors as options

- Firefighting standard AS2941
- Reliable pump performance
- Hydrostatic test for 24 bar
- Long bearing life
  (not less than 5,000 h)
- R13 painting (signal red)

Specifications

Operating range

Flow rate	up to 800 m³/h (2 pole) up to 650 m³/h (4 pole)	Flow rate	up to 1,100 m³/h (2 pole) up to 1,300 m³/h (4 pole)	Flow rate	up to 1,100 m³/h (2 pole) up to 1,300 m³/h (4 pole)
Total head	up to 150 m (2 pole) up to 70 m (4 pole)	Total head	up to 150 m (2 pole) up to 95 m (4 pole)	Total head	up to 150 m (2 pole) up to 95 m (4 pole)
Max. working pressure	16 bar	Max. working pressure	16 bar	Max. working pressure	16 bar
Max. liquid temperature	-10 to 120°C	Max. liquid temperature	-10 to 120°C	Max. liquid temperature	-10 to 120°C
Outlet size	32 to 150 mm	Outlet size	32 to 200 mm	Outlet size	32 to 200 mm

Pump material

Casing	Cast iron	Casing	Cast iron	Casing	Cast iron
Impeller	Bronze, stainless steel 316	Impeller	Bronze, stainless steel 316	Impeller	Bronze, stainless steel 316
Mechanical seal	Carbon/SiC/EPDM	Mechanical seal	Carbon/SiC/EPDM	Mechanical seal	Carbon/SiC/EPDM

Motor

Power rating	1.5 to 110 kW (2 pole) 1.1 to 75 kW (4 pole)	Motor output	up to 220 kW (2 pole, 3 ph) up to 355 kW (4 pole, 3 ph)
Effciency	IE3	Efficiency	IE3
Brand	WEG W21 as standard WEG W22 as option		

Cast iron end suction pumps

3D

EN733 close coupled pump with extended shaft motor

CMA/CMB

Single impeller close coupled pump with extended shaft motor

CDA

Twin impeller close coupled pump with extended shaft motor

Applications

- HVAC
- Handling of clean, chemically non-aggressive liquids
- Irrigation

- HVAC
- Washing plants
- Membrane filtration
- Domestic pressurisation

- Parts/bottle washing
- Dirty liquid handling

Key Features

- Pump dimensions to EN733
- Max working pressure 10 bar
- Stainless steel impeller
- IE2/IE3 extended shaft motors for compact design

- Impellers in Noryl (CMA), Cast iron or Brass (CMB)
- IE2/IE3 extended shaft motors for compact design

- Impellers in plastic or brass
- IE2 extended shaft motors for compact design

Specifications

Operating range

Flow rate	up to 72 m³/h	Flow rate	up to 7.2 m³/h	Flow rate	up to 6.6 m³/h
Total head	up to 70 m	Total head	up to 57 m	Total head	up to 62 m
Max. working pressure	10 bar	Max. working pressure	6 bar	Max. working pressure	10 bar
Max. liquid temperature	-5 to 90°C	Max. liquid temperature	40°C (CMA) 90°C (CMB)	Max. liquid temperature	40°C (CDA 1.00) 90°C (CDA 1.50/2.00)
Outlet size	32 to 50 mm	Outlet size	G1" (CMA) G1¼" (CMB)	Outlet size	G1" (CDA 1.00) G1¼" (CDA 1.50/2.00)

Pump material

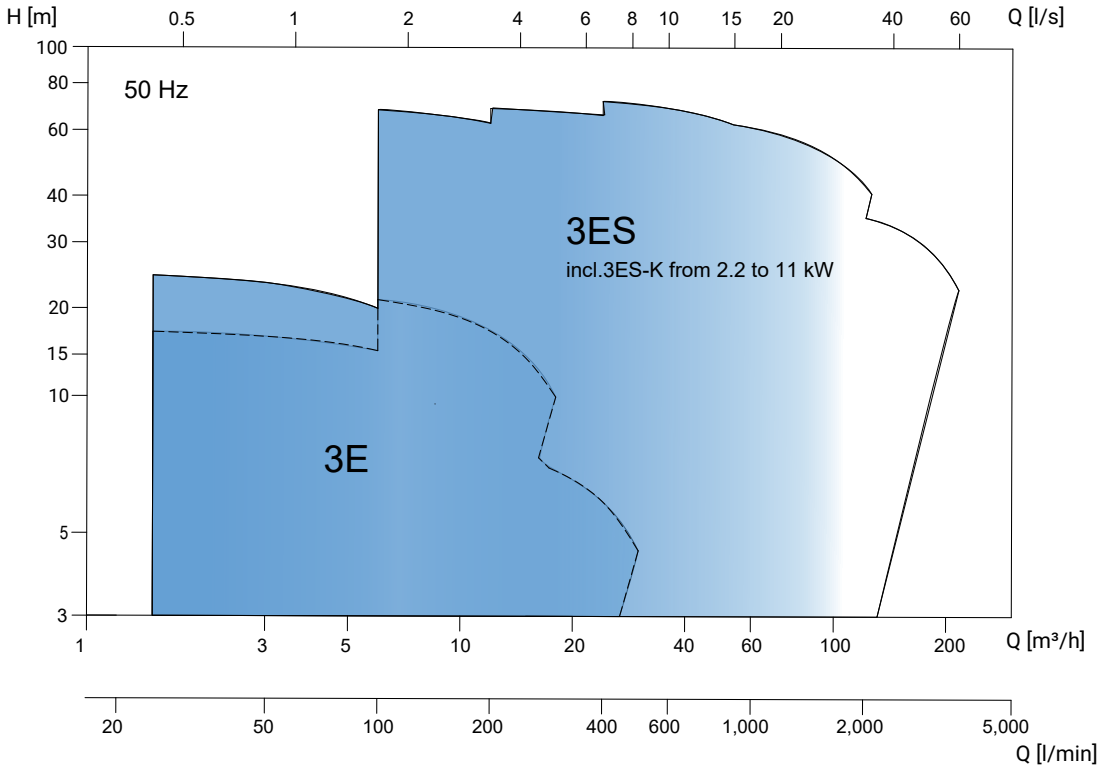
Casing	Cast iron	Casing	Cast iron	Casing	Cast iron
Impeller	Stainless steel 304	Impeller	Noryl (CMA) Cast iron (CMB1.50) Brass (CMB 2.00~5.50)	Impeller	PPE + PS Glass Fibre (CDA 1.00) Brass (CDA 1.50/2.00)
Mechanical seal *¹	Carbon/Ceramic/NBR	Mechanical seal	Carbon/Ceramic/NBR	Mechanical seal	Carbon/Ceramic/NBR

*¹ High temperature seal (110ºC) and hard faced seal available on request

Motor

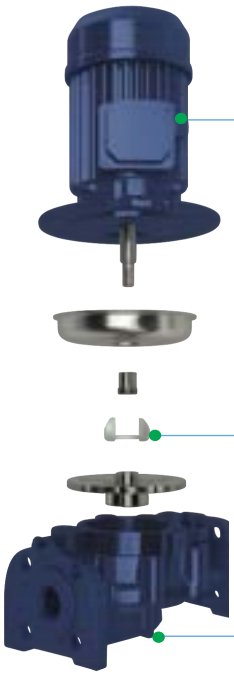
Power rating	1.1 to 2.2 kW (2 pole, 1 ph) 1.1 to 11 kW (2 pole, 3 ph)	Power rating	0.75 to 1.5 kW (2 pole, 1 ph) 2.2 to 4.0 kW (2 pole, 3 ph)	Power rating	0.75 to 1.5 kW (2 pole, 1 ph)
Effciency	IE2 (1 ph), IE3 (3 ph)	Effciency	IE2 (1 ph), IE3 (3 ph)	Effciency	IE2

Selection Chart



Featured Product

3 series - 3E, 3ES(-K)



1 Versatile constructions

3E

Extended shaft motors
for compact design

3ES

Standard motor solutions
equipped with rigid coupling
WEG W21 as standard

2 Patented air ventilation system

The rotating “Air-Vent” baffle is EBARA’s patented technology for a self-air ventilation system that lubricates the mechanical seal without the needs for an air-vent plug on the pump bracket

3 Durable hydraulic design

Impeller made of stainless steel 304 or 316L
Pump casing with CED (Cathodic Electro-Deposition)

4 Energy saving

3ES-K is equipped with E-SPD plus, an inverter that optimises operating points according to the system requirements for energy saving

Cast iron in-line pumps

3E

Close coupledin-line pump with extended shaft motor

3ES

Close coupled in-line pump with standard motor

3ES-K

Cast iron in-line pumps with inverter (E-SPD plus)

Applications

- HVAC
- Water supply
- Industrial cooling
- Hot water circulation
- Industrial process

- HVAC
- Water supply
- Industrial cooling
- Hot water circulation
- Industrial process

- HVAC
- Water supply
- Industrial cooling
- Hot water circulation
- Industrial process

Key Features

- Extended shaft motor for compact design
- Stainless steel 304 impeller
- Reinforced pump casing
- CED coating pump casing for high corrosion resistance
- Patented self-air ventilation

- Standard motor with rigid coupling
- Stainless steel 304 or 316L impeller
- Reinforced pump casing
- CED coating pump casing for high corrosion resistance
- Patented self-air ventilation

- User-friendly inverter
- Various pump operation modes for energy saving
- Motor thermistor PTC input
- Modbus connection

Specifications

Operating range

Flow rate	up to 30 m³/h (2 pole) up to 24 m³/h (4 pole)
Total head	up to 21.1 m (2 pole) up to 8.9 m (4 pole)
Max. working pressure	10 bar
Outlet size	32 to 65 mm (2 pole) 32 to 50 mm (4 pole)
Max.liquid temperature	-10 to 120°C

Flow rate	up to 216 m³/h (2 pole) up to 108 m³/h (4 pole)
Total head	up to 68.7 m (2 pole) up to 17.9 m (4 pole)
Max. working pressure	10 / 16 bar
Outlet size	32 to 100 mm
Max. liquid temperature	-10 to 120°C

Flow rate	up to 204 m³/h
Total head	up to 68.7 m
Max. working pressure	10 / 16 bar
Outlet size	32 to 50 mm
Max. liquid temperature	-10 to 120°C

Pump material

Bottom casing	Cast iron
Impeller	Stanless steel 304
Mechanical seal	SiC/SiC/FPM

Bottom casing	Cast iron
Impeller	Stanless steel 304, 316L
Mechanical seal	SiC/SiC/FPM

Bottom casing	Cast iron
Impeller	Stanless steel 304, 316L
Mechanical seal	SiC/SiC/FPM

Motor

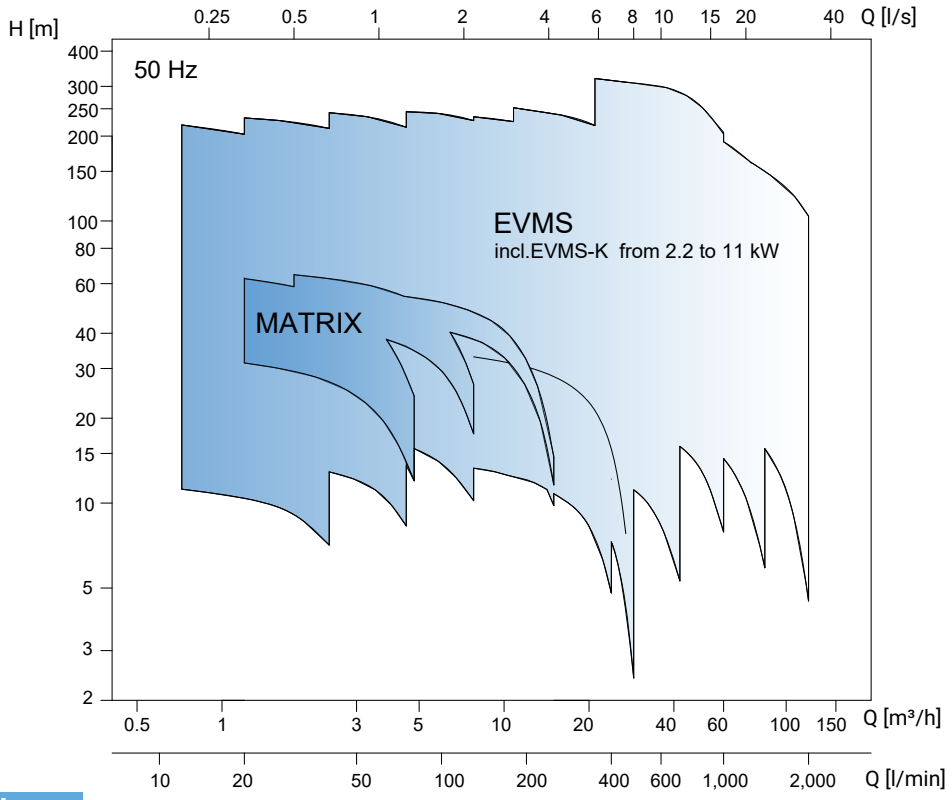
Power rating	0.37 to 1.1 kW (2 pole, 3 ph) 0.37 kW (4 pole, 3 ph)

Power rating	0.75 to 18.5 kW (2 pole, 3 ph) 0.55 to 3.0 kW (4 pole, 3 ph)

Motor and Inverter

Power rating	2.2 to 11 kW (2 pole, 3 ph)
Brand	ETM (EBARA IE3 Three Phase Motor)
Model	MT2200, TT4000, TT11000
Max power rating (Phase in/ out)	MT2200: 2.2 kW (1 ph / 3 ph) TT4000: 4.0 kW (3 ph / 3 ph) TT11000: 11 kW (3 ph / 3 ph)

Selection Chart



Featured Product

EVMS series - EVMSG/EVMS/EVMSL

1 Energy saving

- High pump efficiency with MEI (minimum efficiency index) > 0.7
- IE3 motors fitted as standard
- Suitable for use with inverter (ESPD+) for further energy savings

2 Easy maintenance

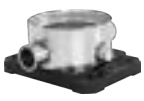
- The cartridge shaft seal enables easy replacement without disassembling the motor bracket
- The spacer coupling allows for easy maintenance without having to lift heavy motors 5.5 kW and above

3 Innovative hydraulic solutions

- Unique patented impeller design reduces axial thrust by max 90% without compromising pump efficiency
- Standard commercial motors can be fitted
- Long life of motor bearings by means of reducing axial thrust load by up to 90%

4 Various pipe connections

- Able to select the most suitable connections for an application or replacement in an existing installation

Material	Round flange DIN	Loose flange DIN	Oval flange	Victaulic®
AISI304 AISI316				
Cast SS ASTM CF8 ASTM CF8M				
Cast iron				

5 Drinking water approval

- AS/NZS4020 is the Australian/New zealand standard for products that come into contact with drinking water. Available mode range : EVMS(G,L) 1/3/5/10/15/20

Multistage pumps

EVMS

Vertical multistage in-line pump

MATRIX

Horizontal multistage pump

EVMS-K

Vertical multistage in-line pump with inverter (E-SPD plus)

Applications

- Pressure boosting
- Reverse osmosis
- Micro/Ultra-filtration
- Boiler feed and condensate
- Fire fighting (Jockey pumps)
- Municipal water supply
- Irrigation

- Handling of refrigerant for cooling
- Washing plants
- Membrane filtration
- Domestic pressurisation
- Rainwater harvesting

- Pressure boosting
- Reverse osmosis
- Micro/Ultra-filtration
- Municipal water supply
- Irrigation

Key Features

- Low axial thrust impellers for standard motor solutions
- Cartridge mechanical seal and spacer coupling for easy assembly
- Various piping connections
- AS/NZS 4020 compliant

- AS/NZS 4020 compliant
- Soundproof outer casing
- IE2 extended shaft motors for compact design (single phase)

- User-friendly inverter
- Various pump operation modes for energy saving
- Max eight pumps parallel operations
- Motor thermistor PTC input
- Modbus connection
- AS/NZS 4020 compliant

Specifications

Operating range

Model	EVMSG, EVMS, EVMSL
Nominal flow rate	1 / 3 / 5 / 10 / 15 / 20 / 32 / 45 / 64 / 90
Flow rate	up to 120 m³/h
Total head	up to 342 m
Max. working pressure	16 / 25 / 30 / 35 bar
Max.liquid temperature	-30 to 140ºC
Outlet size	32 to 100 mm

Nominal flow rate	3 / 5 / 10 / 15
Flow rate	up to 27 m³/h
Total head	up to 64.5 m
Max. working pressure	10 bar
Max. liquid temperature	-5 to 85ºC
Outlet size	G 1” to G 1 1/2”

Model	EVMS, EVMSG
Nominal flow rate	3 / 5 / 10 / 15 / 20
Flow rate	up to 57.6 m³/h
Total head	up to 256 m
Max. working pressure	16/25 bar
Max.liquid temperature	125ºC
Outlet size	32 to 50 mm

Pump material

Bottom casing	Cast iron (EVMSG) Stanless steel 304 (EVMS) Stanless steel 316L (EVMSL)
Impeller	Stanless steel 304 (EVMSG/EVMS) Stanless steel 316L (EVMSL)
Mechanical seal *¹	SiC/Carbon/EPDM

*¹ Various seal options available on request

Bottom casing	Stainless steel 304
Impeller	Stainless steel 304
Mechanical seal	Carbon/Ceramic/NBR

Bottom casing	Cast iron (EVMSG) Stanless steel 304 (EVMS)
Impeller	Stanless steel 304
Mechanical seal *¹	SiC/Carbon/EPDM

*¹ Various seal options available on request

Motor

Power rating	0.37 to 45 kW (2 pole, 3 ph) 0.37 to 3 kW for (2 pole, 1 ph)
Effciency	IE3
Brand	WEG W21 as standard WEG W22 as option

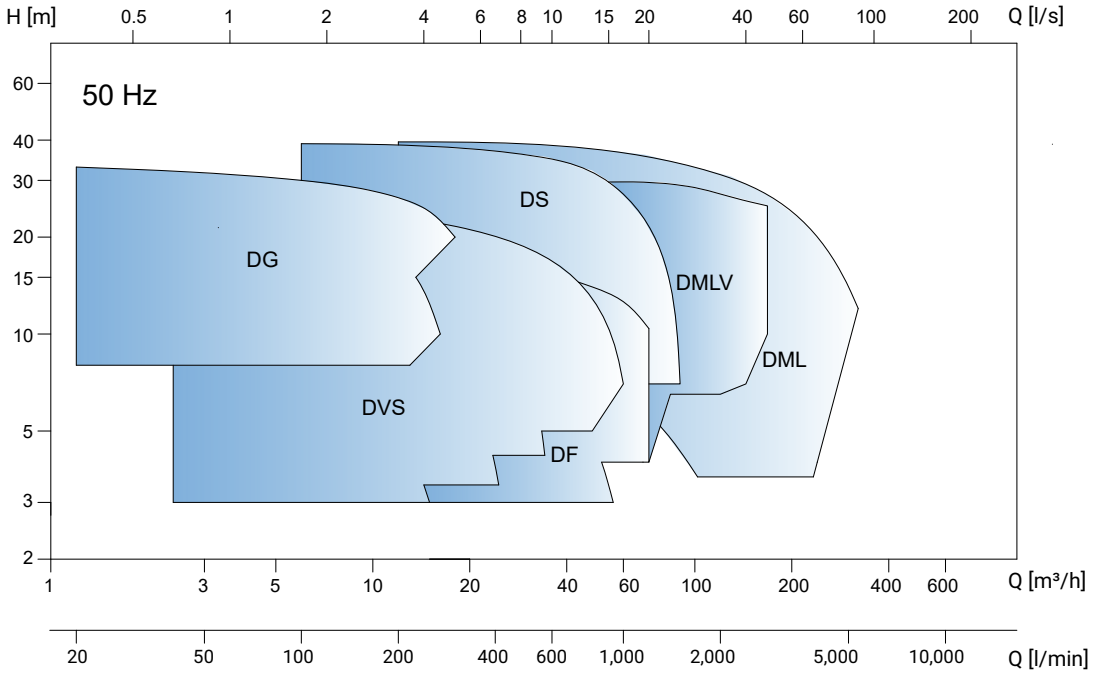
Power rating	0.65 to 2.2 kW (2 pole, 1 ph)
Effciency	IE2

Motor and Inverter

Power rating	0.75 to 7.5 kW (2 pole, 3 ph)
Brand	ETM (EBARA IE3 Three Phase Motor)
Inverter model	MT2200, TT4000, TT11000
Max power rating (Phase in / out)	MT2200: 2.2 kW (1 ph / 3 ph) TT4000: 4.0 kW (3 ph / 3 ph) TT11000: 11 kW (3 ph / 3 ph)

Cast iron submersible pumps

Selection Chart



Featured Product

D series – DML / DMLV / DS / DVS / DF / DG

1 Reliable cable entry design

A unique vulcanised three-way sealing cable entry prevents water entry

2 Long product life

Short overhung shaft, large bearings and double mechanical seal in oil chamber increase the product life and prevent damage from dry running

3 Dry running protection

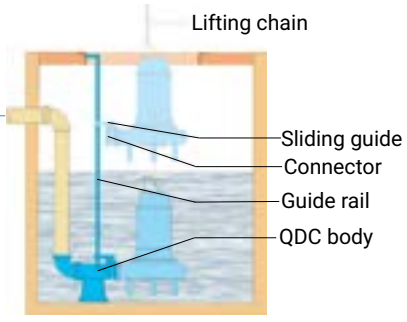
In-built auto-cut overload protection or miniature thermal protectors

4 Easy installation and maintenance

The optional quick discharge connector allows for the replacement of the pumps without entering the sump

5 Solids handling impellers

Various types of impellers available



DML

Single channel impeller

DMLV

Vortex impeller

DS

Semi-open impeller

DVS

Semi-vortex impeller

DF

Semi-open impeller with cutting effect

DG

Vortex impeller with grinder

Cast iron submersible pumps

DML

Cast iron submersible pump with single channel impeller

DMLV

Cast iron submersible pump with vortex impeller

DS

Cast iron submersible pump with semi-open impeller

Applications

- Evacuation of civil and industrial wastewater
- Slurry treatment
- Handling of sanitary services
- Emptying of cesspits and seepage water

- Evacuation of civil and industrial wastewater
- Slurry treatment
- Handling of sanitary services
- Emptying of cesspits and seepage water

- Evacuation of civil and industrial wastewater
- Slurry treatment
- Handling of sanitary services
- Emptying of cesspits and seepage water

Key Features

- Single channel impeller
- A unique vulcanised three-way sealing cable entry
- Dry running protection
- Double mechanical seal
- Easy installation with quick discharge chamber

- Vortex impeller
- A unique vulcanised three-way sealing cable entry
- Dry running protection
- Double mechanical seal
- Easy installation with quick discharge chamber

- Semi-open impeller
- A unique vulcanised three-way sealing cable entry
- Dry running protection
- Double mechanical seal
- Easy installation with quick discharge chamber

Specifications

Operating range

Flow rate	up to 321 m³/h
Total head	up to 40 m
Max. liquid temperature	40°C
Max. submergence	8 m
Outlet size	80 to 150 mm
Max. solid diameter	76 mm

Flow rate	up to 168 m³/h
Total head	up to 32 m
Max. liquid temperature	40°C
Max. submergence	8 m
Outlet size	80 to 100 mm
Max. solid diameter *¹	100 mm
Max. fibres length *¹	500 mm

*¹ Depending on outlet size

Flow rate	up to 90 m³/h
Total head	up to 39 m
Max. liquid temperature	40°C
Max. submergence	8 m
Outlet size	50 to 100 mm
Max. solid diameter *¹	8 mm
Max. fibers length *¹	50 mm

*¹ Depending on outlet size

Pump material

Casing	Cast iron
Impeller	Cast iron
Mechanical seal	SiC/SiC/NBR (Lower) Carbon/Ceramic/NBR (Upper)

Casing	Cast iron
Impeller	Cast iron
Mechanical seal	SiC/SiC/NBR (Lower) Carbon/Ceramic/NBR (Upper)

Casing	Cast iron
Impeller	Cast Iron
Mechanical seal	SiC/SiC/NBR (Lower) Carbon/Ceramic/NBR (Upper)

Motor

Power rating	2.2 to 22 kW (4 pole, 3 ph)

Power rating	2.2 to 22 kW (4 pole, 3 ph)

Power rating	3.7 to 7.5 kW (2 pole, 3 ph)

Cast iron submersible pumps

DVS

Cast iron submersible pump with semi-vortex impeller

DF

Cast iron submersible pump with semi-open impeller and cutting effect

DG

Cast iron submersible pump with vortex impeller and grinder

Applications

- Pumping of industrial wastewater
- Pumping of wastewater with solids or fibrous materials

- Evacuation of civil and industrial wastewater
- Slurry treatment
- Handling of sanitary services
- Emptying of cesspits and seepage water
- Stormwater drainage

- Evacuation of civil and industrial wastewater
- Slurry treatment
- Handling of sanitary services
- Emptying of cesspits and seepage water
- Stormwater drainage

Key Features

- Semi-vortex impeller
- A unique vulcanised three-way sealing cable entry
- Dry running protection
- Double mechanical seal
- Easy installation with quick discharge chamber

- Semi-open impeller with cutting effect
- A unique vulcanised three-way sealing cable entry
- Dry running protection
- Double mechanical seal
- Easy installation with quick discharge chamber

- Non-clog operation with grinder mechanism
- A unique vulcanised three-way sealing cable entry
- Dry running protection
- Double mechanical seal
- Easy installation with quick discharge chamber

Specifications

Operating range

Flow rate	up to 54 m³/h
Total head	up to 24 m
Max. liquid temperature	40°C
Max. submergence	8 m (2.2 to 3.7 kW) 4m (0.4 to 1.5 kW)
Outlet size	50 to 80 mm
Max. solid diameter *¹	56 mm
Max. fibres length *¹	245 to 350 mm

*¹ Depending on outlet size and motor size

Flow rate	up to 72 m³/h
Total head	up to 18 m
Max. liquid temperature	40°C
Max. submergence	8 m
Outlet size	65 to 80 mm
Max. solid diameter *¹	46 mm
Max. fibres length *¹	240 mm

*¹ Depending on outlet size and motor size

Flow rate	up to 18 m³/h
Total head	up to 33 m
Max. liquid temperature	40°C
Max. submergence	8 m
Outlet size	40 to 50 mm

Pump material

Casing	Cast iron
Impeller	Cast iron
Mechanical seal	SiC/SiC/NBR (Lower) Carbon/Ceramic/NBR (Upper)

Casing	Cast iron
Impeller	Cast iron
Mechanical seal	SiC/SiC/NBR (Lower) Carbon/Ceramic/NBR (Upper)

Casing	Cast iron
Impeller	Cast iron
Mechanical seal	SiC/SiC/NBR (Lower) Carbon/Ceramic/NBR (Upper)

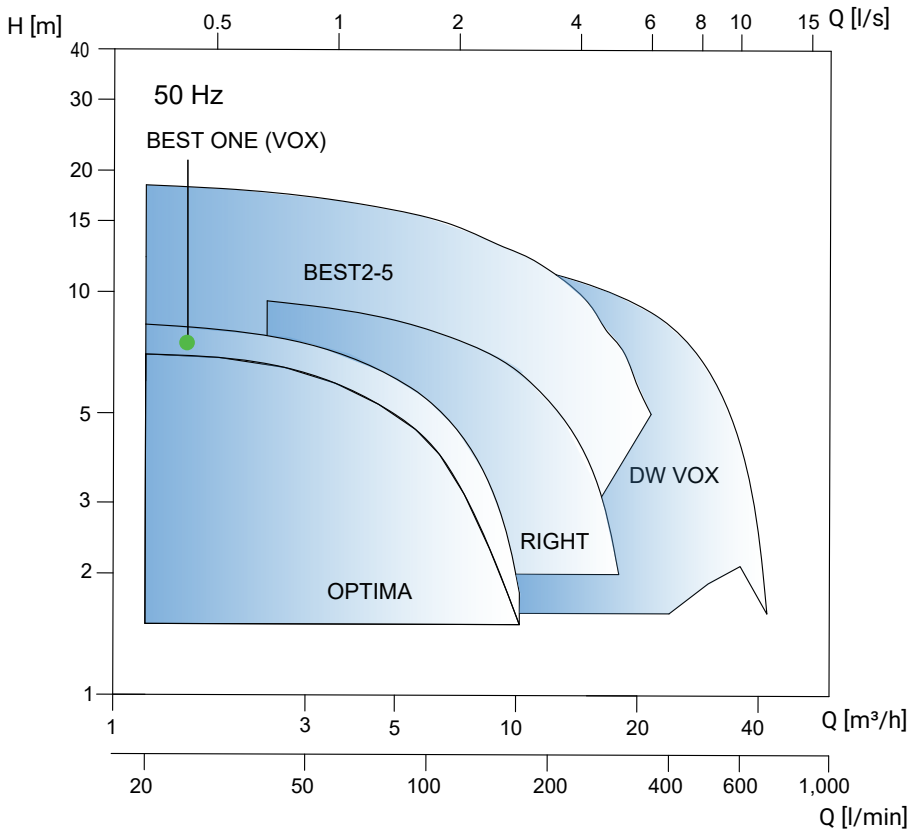
Motor

Power rating	0.4 to 0.75 kW (2 pole, 1 ph) 0.75 to 3.7 kW (2 pole, 3 ph)

Power rating	1.5 to 3.7 kW (4 pole, 3 ph)

Power rating	1.5 to 3.7 kW (2 pole, 3 ph)

Selection Chart



Featured Product

BEST series - BEST ONE (vox)/BEST 2-5

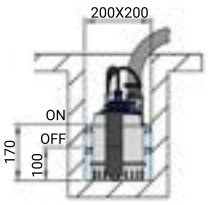
1 Robust design and high corrosion resistance

Stainless steel 304 with mechanical seal in Ceramic/Carbon/NBR and oversized oil chamber that increase the life and reliability

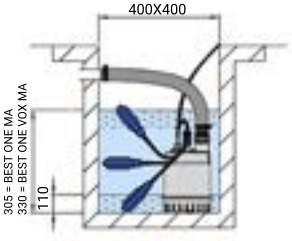
2 Versatility

Great installation versatility (fixed or mobile), with the choice between a vertical magnetic float switch or a float switch, depending on the available space

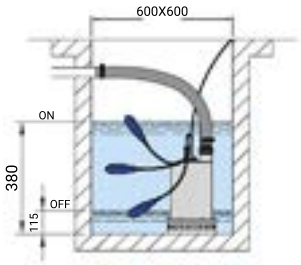
BEST ONE MS



BEST ONE MA



BEST 2-5



3 Solids handling

- BEST ONE with a semi-open impeller: max 10 mm
- BEST ONE VOX with vortex impeller: max 20 mm
- BEST 2-5 with semi-open impeller: max 10 mm

Stainless steel submersible pumps

BEST ONE

Submersible pump with semi-open impeller

BEST ONE VOX

Submersible pump with vortex impeller

BEST 2-5

Submersible pump with semi-open impeller

Applications

- Emptying of basements, garages, cellars or rooms subject to flooding
- Emptying of tanks and reservoirs
- Supply of garden fountains

- Emptying of basements, garages, cellars or rooms subject to flooding
- Emptying of tanks and reservoirs
- Supply of garden fountains

- Drainage of small and medium-sized construction sites
- Emptying of basements, garages, cellars
- Handling of seepage water

Key Features

- Semi-open impeller
- Oversized oil chamber for long product life and reliability
- Installation versatility
- Float switch (MA), Magnetic (MS)

- Vortex impeller
- Oversized oil chamber for long product life and reliability
- Installation versatility
- Float switch (MA), Magnetic (MS)

- Semi-open impeller
- Oversized oil chamber for long product life and reliability
- Double mechanical seal
- Installation versatility

Specifications

Operating range

Flow rate	up to 10.2 m³/h	Flow rate	up to 10.2 m³/h	Flow rate	up to 21.6 m³/h
Total head	up to 8.5 m	Total head	up to 6 m	Total head	up to 18.4 m
Max. liquid temperature	50°C	Max. liquid temperature	50°C	Max. liquid temperature	35°C
Max. solid size	10 mm	Max. solid size	20 mm	Max. solid size	10 mm
Max. immersion	5 m	Max. immersion	5 m	Max. immersion	10 m
Outlet size	G1¼"	Outlet size	G1¼"	Outlet size	G1½"

Pump material

Casing	Stainless steel 304	Casing	Stainless steel 304	Casing	Stainless steel 304
Impeller	Stainless steel 304	Impeller	Stainless steel 304	Impeller	Stainless steel 304
Mechanical seal	Ceramic/Carbon/NBR	Mechanical seal	Ceramic/Carbon/NBR	Mechanical seal	SiC/SiC/NBR (Lower) Carbon/Ceramic/NBR (Upper)

Motor

Power rating	0.25 kW (2 pole, 1 ph)	Power rating	0.25 kW (2 pole, 1 ph)	Power rating	0.55 to 1.1 kW (2 pole, 1 ph) 0.55 to 1.5 kW (2 pole, 3 ph)
Switch	Float switch (MA version) Magnetic switch (MS version)	Switch	Float switch (MA version) Magnetic switch (MA version)	Float switch	Optional (1 ph) N/A (3 ph)

Stainless steel submersible pumps

OPTIMA

Submersible pump with semi-open impeller

RIGHT

Submersible pump with vortex impeller

DW VOX

Submersible pump with vortex impeller

Applications

- Emptying of wells, cellars, or basements, tanks or reservoirs
- Irrigating gardens and vegetable plots and garden fountains

- Evacuation of civil and industrial wastewater
- Handling of sanitary services
- Emptying of cesspits and seepage water

- Evacuation of civil and industrial wastewater
- Handling of sanitary services
- Emptying of cesspits and seepage water

Key Features

- Semi-open impeller
- Oversized oil chamber for long product life and reliability
- Robust design
- Installation versatility
- Min.3 mm water level

- Vortex impeller
- Oversized oil chamber for long product life and reliability
- Double mechanical seal
- Installation versatility

- Vortex impeller
- Oversized oil chamber for long product life and reliability
- Double mechanical seal
- Installation versatility

Specifications

Operating range

Flow rate	up to 9 m³/h
Total head	up to 7.6 m
Max. liquid temperature	50°C
Max. solid size	10 mm
Max. immersion	5 m
Outlet size	G1¼”

Flow rate	up to 18 m³/h
Total head	up to 10.5 m
Max. liquid temperature	50°C
Max solid size	35 mm
Max immersion	10 m
Outlet size	G1½”

Flow rate	up to 42 m³/h
Total head	up to 13.8 m
Max. liquid temperature	40°C
Max. solid size	50 mm
Max. immersion	10 m
Outlet size	G2”

Pump material

Casing	Stainless steel 304
Impeller	PPE + PS reinforced with glass fibres
Mechanical seal	Ceramic/Carbon/NBR

Casing	Stainless steel 304
Impeller	Stainless steel 304
Mechanical seal	SiC/SiC/NBR (Lower) Carbon/Ceramic/NBR (Upper)

Casing	Stainless steel 304
Impeller	Stainless steel 304
Mechanical seal	SiC/SiC/NBR (Lower) Carbon/Ceramic/NBR (Upper)

Motor

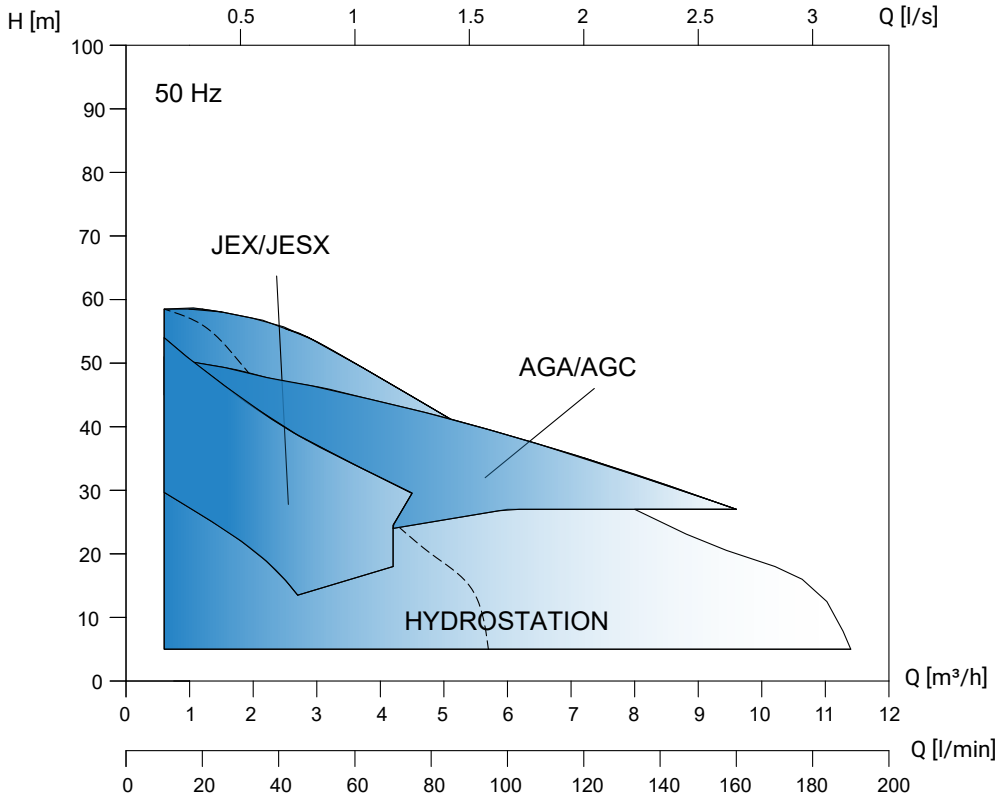
Power rating	0.25 kW (2 pole, 1 ph)
Switch	Float switch (MA version) Magnetic switch (MS version)

Power rating	0.55 to 0.75 kW (2 pole, 1 ph) 0.55 to 0.75 kW (2 pole, 3 ph)
Float switch	Optional (1 ph) N/A (3 ph)

Power rating	0.55 to 1.1 kW (2 pole, 1 ph) 0.55 to 1.5 kW (2 pole, 3 ph)
Float switch	Option (1 ph) N/A (3 ph)

Self-priming pumps

Selection Chart

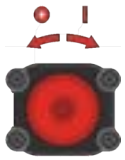


Featured Product

HYDROSTATION

1 Self-priming mode

The operation mode can be selected as self-priming or non-self-priming, depending on the installation (positive or negative suction head)



2 Plug-and-play piping connections

Our quick, tool-free pipe fittings allow fast and reliable connections, saving you time and effort on every installation

3 Unique anti-water hammer devices

Hydrostation eliminates the need for a conventional expansion tank with its unique anti-water hammer system, featuring spring-ram mechanisms for completely maintenance-free operation

4 IE5 motor efficiency

Equipped with an IE5 permanent magnet motor, Hydrostation delivers maximum efficiency and lower energy bills for reliable water supply

5 User-friendly app with Bluetooth

A free, user-friendly app available for iOS and Android, no login or password required

6 Twin pumps option

Twin pump units configured for duty/standby or duty/assist operation, featuring built-in valves and identical suction and discharge piping

Self-priming pumps

HYDROSTATION

Self-priming pump with IE5 motor and integrated inverter

JESX/JEX

Self-priming water jet pump with stainless steel casing

AGA/AGC

Self-priming water jet pump with cast iron casing

Applications

- Drinking water supply
- Domestic pressurisation
- Emptying of tanks
- Small scale irrigation

- Drinking water supply
- Domestic pressurisation
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- Drinking water supply
- Domestic pressurisation
- Emptying of tanks
- Small scale irrigation

Key Features

- IE5 motor efficiency
- Plug-and-play piping connections
- Unique anti-water hammer devices
- User-friendly app
- Twin pumps option
- Self-priming or non-self-priming mode

- Self-priming for easy installation
- Noryl impeller (JESX)
- Stainless steel impeller (JEX)

- Self-priming for easy installation
- Noryl impeller (AGA 1.00M)
- Brass impeller
- (AGA 1.50M, AGC 2.00M)

Specifications

Operating range

Flow rate	up to 5.6 m³/h
Total head	up to 60 m
Max. working pressure	10 bar
Max. liquid temperature	+5 ÷ +45°C
Max. suction depth	6 m
Outlet size	GF 1"

Flow rate	up to 2.7 m³/h (JESX) up to 4.5 m³/h (JEX)
Total head	up to 36 m (JESX) up to 59 m (JEX)
Max. working pressure	6 bar
Max. liquid temperature	45°C
Outlet size	G 1”

Flow rate	up to 6 m³/h (AGA) up to 9.6 m³/h (AGC)
Total Head	up to 48 m (AGA) up to 51 m (AGC)
Max. working pressure	6 bar (AGA) 10 bar (AGC)
Max. liquid temperature	45°C
Max. suction depth	8 m
Outlet size	G 1" (AGA1.00M) G 1½" (AGA1.50M, AGC2.00M)

Pump material

Pump body	Nylon PA6 GF 30%
Impeller	PPO + GF 20%
Mechanical seal *1	Graphite/Silicon Carbide/EPDM

Casing	Stainless steel 304
Impeller	PPO mod. glass fibre reinforced (JESX) Stainless Steel 304 (JEX)
Diffuser/ Ejector	PPO mod. glass fibre reinforced
Mechanical seal	Carbon/Ceramic/NBR

Casing	Cast iron
Impeller	PPE+PS glass fibre reinforced (AGA1.00M) Brass (AGA1.50M, AGC2.00M)
Diffuser / Ejector	PPE+PS glass fibre reinforced
Mechanical Seal	Carbon graphite/Ceramic/NBR (AGA1.00M) Ceramic/Carbon Graphite/NBR (AGA1.50M, AGC2.00M)

Motor

Motor output	0.8 kW (6 pole, 3 ph)
Efficiency	IE5

Power rating	0.44 kW (JESX: 2 pole, 1 ph) 0.6 to 1.1 kW (JEX: 2 pole, 1 ph)
Effciency	IE2

Power rating	0.44 to 1.5 kW (2 pole, 1 ph)
Efficiency	IE2




Featured Product

2GPE/3GPE with E-SPD plus

1 Energy saving

It's capable of varying the speed of pumps continuously and operating on any working points, consequently optimising performances and energy consumption according to the system's requirement

- Fixed speed mode
- Contact pressure mode for pressure boosting systems
- Differential pressure mode for circulation systems

2 User-friendly software

Easy installation and programming, thanks to the highly intuitive and user-friendly software

3 Connectivity

- Four configurable digital inputs
- Two ports for configurable digital outputs
- Two ports for analogue 4-20 mA inputs
- One port for 0-10 V input
- One port for a motor thermistor PTC input
- Two RS485 ports for communication and parallel operation of up to eight pumps
- Connectivity to monitoring systems with Modbus

4 Safety system protection

System protection against overcurrent, input voltage fluctuations, dry running and losses in the system

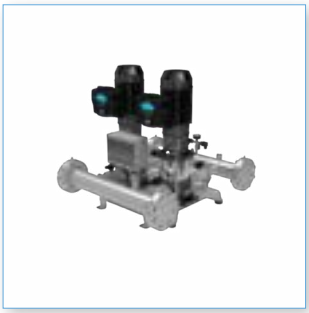
5 Pressure booster units

2GPE/3GPE with E-SPD+, pressure booster units equipped with two or three pumps

Pump controller and pressure booster units

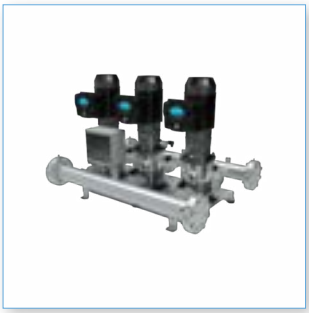
E-SPD plus

Inverter
(Variable frequency driver)



2GPE

2 sets of EVMS pumps with
E-SPD plus



3GPE

3 sets of EVMS pumps with
E-SPD plus

Applications

- Pressure boosting
- Reverse osmosis
- Micro/Ultra-filtration
- Municipal water supply
- Irrigation

- Pressure boosting for industries
- Pressure boosting for commercial buildings sectors
- Municipal water supply
- Irrigation

- Pressure boosting for industries
- Pressure boosting for commercial buildings sectors
- Municipal water supply
- Irrigation

Key Features

- Digital inputs and output ports
- 4-20 mA inputs, 0-10 V input
- Motor thermistor PTC input
- RS485 ports for max eight pumps parallel operations
- Modbus connection

- AS/NZS 3000:2018 standard for electrical installation
- Constant pressure control
- 230V single-phase and 400V three-phase available
- Manifolds in stainless steel 304

- AS/NZS 3000:2018 standard for electrical installation
- Constant pressure control
- 230V single-phase and 400V three-phase available
- Manifolds in stainless steel 304

Specifications

Inverter

Model	MT2200, TT4000, TT11000
Max. power rating (Phase in/out)	MT2200: 2.2 kW (1 ph / 3 ph) TT4000: 4.0 kW (3 ph / 3 ph) TT11000: 11 kW (3 ph / 3 ph)
Max. current in/out	MT2200: 20 A / 11 A TT4000: 12 A / 11 A TT11000: 31 A / 30 A
Protection rating	IP55
Analog ports	2 ports for 4-20 mA 1 port for 0 -10 V 1 port for motor thermistor
Digital inputs	4 ports for: All or single pump stop In setpoint Flow sensor Slave 0 -10 V
Digital outputs	2 ports for: Off alarm, Start clock Dry running external stop Overpressure
Communication	Two RS485 ports

Operating range

Model	EVMS, EVMSG
Nominal flow rate	3 / 5 / 10 / 15 / 20
Flow rate	up to 57.6 m³/h
Total head	up to 95.5 m
Max.working pressure	16 bar
Max.liquid temperature	0 to 80°C

Material

Pump bottom casing	Cast iron (EVMSG) Stainless steel 304 (EVMS)
Impeller	Stainless steel 304 (EVMS(G))
Base plate	Galvanised steel
Manifold	Stainless steel 304

Inverter

Model	E-SPD plus
Max. power rating (Phase in / out)	2.2 kW (1 ph in / 3 ph out) 7.5 kW (1 ph in / 3 ph out)

Operating range

Model	EVMS, EVMSG
Nominal flow rate	3 / 5 / 10 / 15 / 20
Flow rate	up to 86.4 m³/h
Total head	up to 95.5 m
Max. working pressure	16 bar
Max.liquid temperature	0 to 80°C

Material

Pump bottom casing	Cast iron (EVMSG) Stainless steel 304 (EVMS)
Impeller	Stainless steel 304 (EVMS(G))
Base plate	Galvanised steel
Manifold	Stainless steel 304

Inverter

Model	E-SPD plus
Max. power rating (Phase in / out)	2.2 kW (1 ph in / 3 ph out) 7.5 kW (1 ph in / 3 ph out)

Pump controller and pressure booster units

Presscontrol®
Masscontrol ®

Automatic pressure controller

JESX/JEX

Self-priming pump with automatic pressure controller

MATRIX

Horizontal multistage pump with automatic pressure controller

Applications

- Drinking water supply
- Domestic pressurisation
- Emptying of tanks
- Small scale irrigation

- Drinking water supply
- Domestic pressurisation
- Emptying of tanks
- Small scale irrigation

- Drinking water supply
- Domestic pressurisation
- Emptying of tanks
- Small scale irrigation

Key Features

- Compact design
- Plug-and-play installation
- User-friendly

- AS/NZS 4020 compliant
- Automatic controllers option
- Pressure switch & tanks option also available

- AS/NZS 4020 compliant
- Automatic controllers option
- Pressure switch & tanks option also available

Specifications

Presscontrol®

Model	PC15, PC22
Restart pressure	1.5 bar (PC15) 2.2 bar (PC22)
Min. pump head req'd	30 m hd (PC15) 35 m hd (PC22)
Max. height of tap above controller	15 m (PC15) 22 m (PC22)
Inlet & Outlet	1" male threaded
Max. pressure	10 bar
Max. current	8 Amps

Mascontrol®

Model	MC22
Restart pressure	2.2 bar
Min.pump head req'd	35 m hd
Max. height of tap above controller	22 m
Inlet & Outlet	1¼" male threaded
Max. pressure	10 bar
Max. current	16 Amps

Operating range

Flow rate	up to 2.7 m³/h (JESX) up to 4.2 m³/h (JEXM)
Total head	up to 13.5 m (JESX) up to 45 m (JEXM)
Outlet size	G 1"

Motor

Motor output	0.44 kW (JESX: 2 pole, 1ph) 0.6 to 1.1 kW (JEXM: 2 pole, 1ph)

Pressure controller

Model	PC15, PC22
Max. pressure	10 bar
Max. current	8 Amps (PC15, PC22)

Flow rate	up to 5.4 m³/h
Total head	up to 58 m
Outlet size	G 1"

Motor output	0.65 to 1.3 kW (2 pole, 1ph)

Model	PC15, PC22, MC22
Max. pressure	10 bar
Max. current	8 Amps (PC15, PC22) 16 Amps (MC22)

Split case pumps, CNA for HVAC system

Axial flow vertical turbine pumps, VMF for municipal water supply

Double case high pressure multistage pumps, HXB for descaling process in steel mill

Split case pumps

CNA/CSA

Horizontal split case pump

CB

Horizontal split case pump

CN

Horizontal split case pump

Applications

- HVAC
- Municipal water supply
- Irrigation
- Pressure boosting

- HVAC
- Municipal water supply
- Irrigation
- Pressure boosting

- HVAC
- Municipal water supply
- Irrigation
- Pressure boosting

Key Features

- Double-entry impeller (CNA), Single-entry impeller (CSA)
- Compact design
- Axial split casing for easy maintenance
- 25 bar working pressure with ductile cast iron is available
- Vertical constructions available on request

- High pump efficiency for energy saving
- Compact design
- Axial split casing for easy maintenance
- 16 bar working pressure

- Engineered wider product range than CNA/CSA
- Double-entry impeller
- Axial split casing for easy maintenance

Specifications

Operating range

Model	CNA : a double-suction impeller CSA : a single-suction impeller
Flow rate	up to 9.5 m³/min (2 pole) up to 34 m³/min (4 pole)
Total head	up to 160 m (2 pole) up to 150 m (4 pole)
Max. working pressure	16 bar as standard 25 bar as options
Max. liquid temperature	80°C as standard 120°C as option
Flange	JIS as standard DIN, ANSI as options
Outlet size	80 to 350 mm

Flow rate	up to 6.8 m³/min (2 pole) up to 40 m³/min (4 pole) up to 53 m³/min (6 pole)
Total head	up to 110 m (2 pole) up to 135 m (4 pole) up to 90 m (6 pole)
Max. working pressure	16 bar
Max. liquid temperature	80°C
Flange	JIS as standard DIN as options
Outlet size	80 to 400 mm

Flow rate	up to approx.210 m³/min
Total head	up to approx.135 m
Max.working pressure	Contact us
Max.liquid temperature	80°C as standard 120°C as option
Flange	JIS
Outlet size	200 to 1,000 mm

Pump material

Casing	Cast iron as standard Ductile cast iron as options
Impeller	Bronze as standard Stainless steel 304, 316 as options
Mechanical seal	Ceramic/Carbon/EPDM as standard SiC/SiC/EPDM, SiC/Carbon/EPDM as options

Casing	Cast iron or Ductile cast iron depending on model
Impeller	Bronze or Stainless steel 304 depending on model
Mechanical seal	Ceramic/Carbon/NBR or SiC/Carbon/FPM depending on model

*¹ Casting stainless steel SCS 13, 14, 16A and duplex stainless steel available on request

Casing	Cast iron, Ductile cast iron
Impeller	Cast iron, Bronze, Casting stainless steel 304
Shaft sealing	Contact us

Accessories

Standard	Air vent piping, Flushing water piping, and Lifting bolt
Option	Anchor bolt, Pressure gauge

Standard	Contact us
Option	Contact us

VDP
Vertical turbine pump

VMF
Axial flow vertical turbine pump

VPS SS
Stainless steel deepwell pump

Applications

- Municipal water supply
- Irrigation
- Mining
- Stormwater
- Flood control
- Oil & gas and power generation

- Municipal water supply
- Irrigation
- Mining
- Stormwater
- Flood control
- Oil & gas and power generation

- Irrigation
- Mining dewatering

Key Features

- Enclosed impeller
- High pump efficiencies up to 93%
- Various material options to best fit application
- Column pipes can be threaded or flanged on request
- Water/Grease/Oil lubrication for column assembly

- Semi-open impeller
- Various material options to best fit application
- Column pipes can be threaded or flanged on request
- Water/Grease/Oil lubrication for column assembly

- Duplex stainless steel available on request
- Flange with NEMA standards
- Built-in check valve to prevent back flow
- Water-lubricated rubber bearings with sand channel for particle discharge
- Sleeve jacket for high pressure with high pump efficiency

Specifications

Operating range

Flow rate *¹	up to 30,000 m³/h
Total head*¹	up to 600 m
Max.liquid temperature	Contact us

*¹ Sizes above this range available on request

Flow rate*¹	up to 30,000 m³/h
Total head*¹	up to 8 m
Max.liquid temperature	Contact us

*¹ Sizes above this range are available on request

Flow rate	up to 290 m³/h
Total head	up to 700 m
Max.working pressure	Contact us
Max. liquid temperature	50°C
Max. sand content	50 g/m³
Borehole sizes	6”-7”-8”-10”

Pump material

Various material options are available on request incl.cast iron, cast steel, non-alloyed and low alloy steel grades, stainless CrNi Steel grades, duplex and super duplex steel grades, Bronze, Ni-Al Bronze and others.

Various material options are available on request incl.cast iron, cast steel, non-alloyed and low alloy steel grades, stainless CrNi Steel grades, duplex and super duplex steel grades, Bronze, Ni-Al Bronze and others.

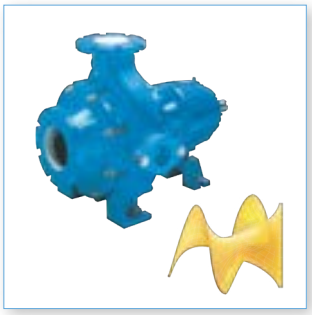
Casing*¹	Stainless steel 304L
Impeller*¹	Stainless steel 304L

*¹ Duplex stainless steel available on request

Motor

Power rating	0.55 to 220 kW

Solids handling pumps



XCS

Screw centrifugal pump with single vane impeller

CHOPX

Chopper pump with open impeller and cutting effect

TORUS

Solids handling pump with semi-open recessed impeller

Applications

- Live fish, fruits, vegetables
- Waste treatment, sludges, sewage, flocculants
- Pulp & paper
- Chemical/petrochemical

- Food processing and rendering
- Waste treatment, sludges, sewage, flocculants
- Pulp & paper
- Chemical processing

- Pulp & paper
- Mining processing
- Chemical processing
- Food processing
- Waste treatment, sludges, sewage, flocculants

Key Features

- Various abrasive resistant materials for wet-end parts
- Non-clog operation with screw impeller
- Low NPSH design

- Various abrasive resistant materials for wet-end parts
- Primary chopping with impeller's leading edge
- Secondary cutting with sharpened rear cutter
- Vertical configuration available for sump application

- Various abrasive resistant materials for wet-end parts
- Solid handling with recessed impeller design
- Stuffing box for easy adjustment and maintenance

Specifications

Operating range

Flow rate	up to 3,406 m³/h
Total head	up to 62 m
Max. solid diameter	187 mm sphere
Max. submergence	8 m
Outlet size	100 to 400 mm

Flow rate	up to 1,400 m³/h
Total head	up to 38 m
Outlet size	80 to 300 mm

Flow rate	up to 600 m³/h
Total head	up to 66.5 m
Outlet size	50 to 200 mm

Pump material

Pump end *1	High Chrome Iron, Ni-Hard, Cast Iron, Ductile iron, 316SS,and other alloys

*1 Various material options are available. Please contact our sales team for pump sizing.

Pump end *1	Cast iron, Ductile iron, Cast steel, 316SS, 410SS, CD4MCu, High Chrome, Ni-Hard, Super Ni-Hard

*1 Various material options are available. Please contact our sales team for pump sizing.

Pump end *1	Cast Iron, 316 SS, Alloy 20, CD-4MCu, 28% Chrome Iron, NiHard, Super NiHard, 28% Chrome

*1 Various material options are available. Please contact our sales team for pump sizing.

VERTICAL CHOPX / TORUS

Vertical cantilever pump

A(R)-VCJ / A-VBJ

Molten sulfur pumps

Applications

- Power generation
- Wastewater treatment
- Mining
- Pulp & paper
- Food & beverage

- Molten sulfur handling in mining

Key Features

- Multiple choices of wet-ends of CHOPX and TORUS
- Slurry design with high efficiency
- Cantilever shaft with heavy duty bearings
- Adjustable impeller clearance
- Non-contacting labyrinth seals
- Direct of V-Belt drive

- A-VCJ and R-VCJ are jacketed vertical cantilever pumps for contaminated molten sulfur
- A-VBJ is jacketed vertical line shaft pumps for clean molten sulfur

Specifications

Operating range

Flow rate *1	up to 1,000 m³/h
Total head *1	up to 46 m
Max. solid diameter	refer to CHOPX or TORUS pumps
Outlet size	refer to CHOPX or TORUS pumps

*1 Various material options and beyond above pump performance ranges are available.
Please contact our sales team for pump sizing.

Flow rate *1	up to approx. 908 m³/h
Total head *1	up to approx. 76 m
Max. solid diameter	Contact us
Outlet size	Contact us

*1 Various material options are available.
Please contact our sales team for pump sizing.

Pump material

Pump end *1	High Chrome Iron, Ni-Hard, Cast Iron, Ductile iron, 316SS,and other alloys

Pump end *1	High Chrome Iron, Ni-Hard, Cast Iron, Ductile iron, 316SS,and other alloys

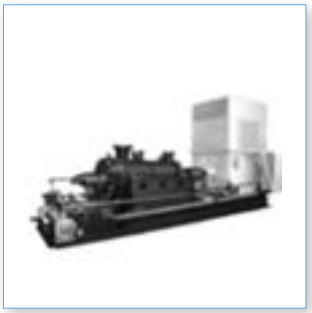
API 610 pumps

HSB/HDB

API 610 Double case
high-pressure multistage pump

SP/SPD

API 610 Horizontal split
high-pressure multistage pump



DCS/DCD

API 610 Double case
high-pressure multistage pump

Applications

- Descaling for steel mills
- Petroleum refining
- Petrochemical industry
- Various chemical industries
- Boiler feed water
- Ammonia feed

- Descaling for steel mills
- Petroleum refining
- Petrochemical industry
- Various chemical industries
- Pipeline, crude oil transfer
- Desalination

- Water injection
- Petroleum refining
- Petrochemical industry
- Various chemical industries
- Boiler feed water

Key Features

- High pressure
- Horizontally split inner casing for easy maintenance
- Compatible with variable speed operation
- Back-to-back impeller arrangement for low axial thrust
- Complies with API 610

- Highly efficient across a wide operating range
- Horizontally split inner casing for easy maintenance
- Capable of operating with low NPSH
- Back-to-back impeller arrangement for low axial thrust

- High pressure
- Barrel-type inner casing
- Proven track record in CO_2 injection applications
- In-line impeller arrangement
- Complies with API 610

Specifications

Operating range

Flow rate	up to 3,700 m³/h
Total head	up to 5,000 m
Max. liquid temperature	-45 to 400°C
Outlet size	50 to 300 mm
Flange rating	up to ASME Class 2500 lb Other options available on request

Flow rate	up to 3,000 m³/h
Total head	up to 1,500 m
Max. liquid temperature	up to 200°C
Outlet size	80 to 600 mm
Flange rating	up to ASME Class 2500 lb Other options available on request

Flow rate	up to 1,300 m³/h
Total head	up to 2,000 m
Max.liquid temperature	-45 to 400°C
Outlet size	50 to 350 mm
Flange rating	up to ASME Class 2500 lb Other options available on request

API 610 pumps

UCW

API 610 Single suction centrifugal pump

KS

API 610 Double suction centrifugal pump

VPCS / VPCH

API 610 Vertical multistage pump

Applications

- Petroleum refining
- Petrochemical industry
- Various chemical industries
- General high pressure boosting

- Petroleum refining
- Petrochemical industry
- Various chemical industries

- Petroleum refining
- Petrochemical industry
- Various chemical industries

Key Features

- Enter support design suitable for heavy-duty applications
- Single-stage, single-suction
- High efficiency with low NPSH requirement
- Capable of handling high-temperature service
- Complies with API 610

- Centre-support design suitable for heavy-duty applications
- Single-stage, double-suction
- Double-bearing shaft design
- High efficiency with low NPSH requirement
- Capable of handling high-temperature service
- Complies with API 610

- Vertical, canned, radial split
- Multistage, diffuser type casing
- Full compliance with API 610
- Small installation area
- Low NPSH performance
- Volute casing for 1st stage and diffuser casing for other stages (VPCS-VOL)

Specifications

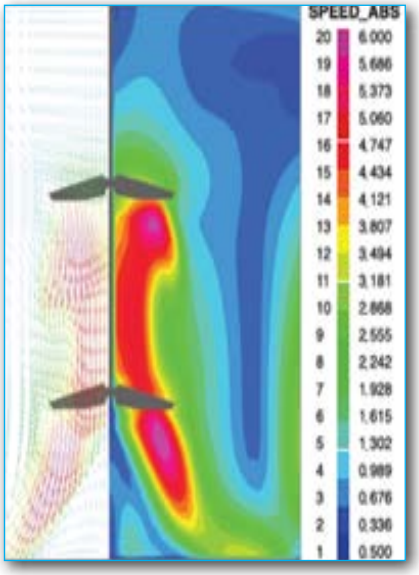
Operating range

Flow rate	up to 1,920 m³/h
Total head	up to 380 m
Max.liquid temperature	-100 to 450°C
Outlet size	40 to 450 mm
Flange rating	ASME Class 300 lb Other options as available on request

Flow rate	up to 5,500 m³/h
Total head	up to 550 m
Max. liquid temperature	-100 to 450°C
Outlet size	150 to 700 mm
Flange rating	up to ASME Class 300 lb Other options as available on request

Flow rate	up to 800 m³/h (VPCH) up to 2,600 m³/h (VPCS-VOL) up to 5,500 m³/h (VPCS)
Total head	up to 1,600 m (VPCH) up to 550 m (VPCS-VOL) up to 800 m (VPCS)
Max.liquid temperature	-105 to 340°C (VPCS/VPCH)
Flange rating	ASME Class 300 lb Other options availale on request

Top entry mixers for mining

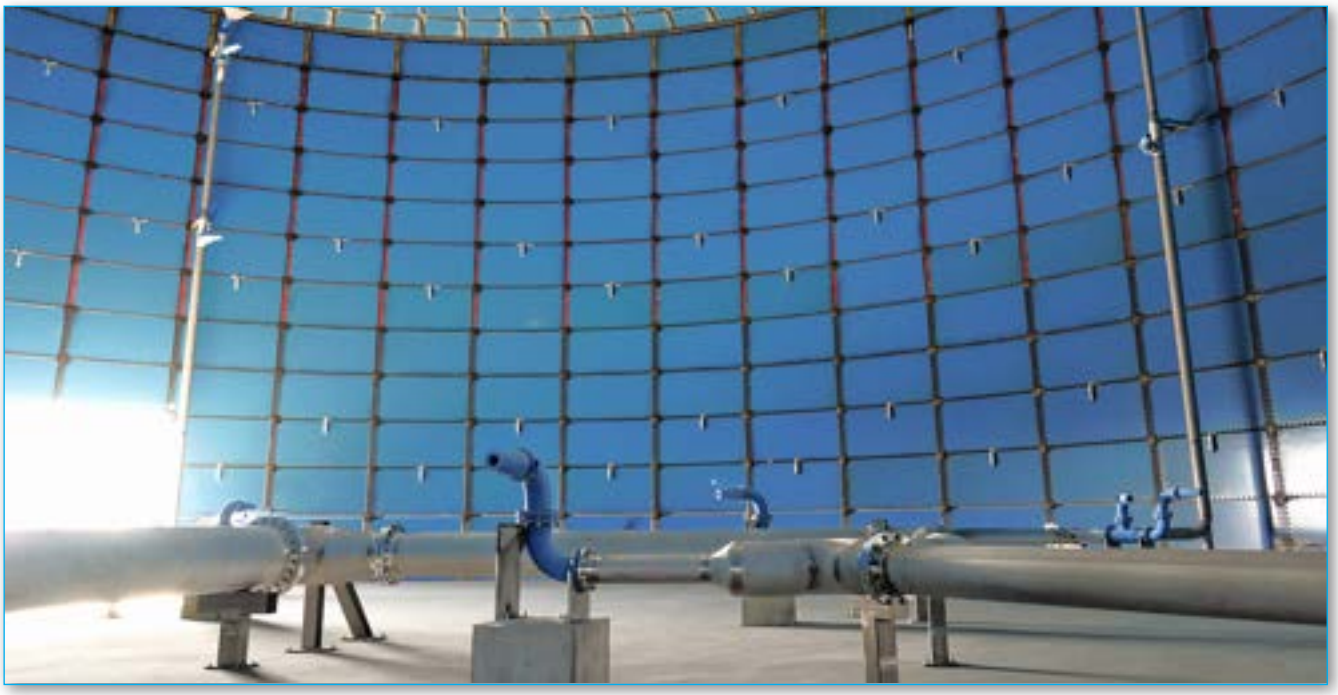


2 large agitators are used for surge storage tanks, and 16 smaller agitators are used for filter feed duties in the Iron ore (Magnetite) plant in Western Australia

Computational fluid dynamics to guarantee mixing solutions for clients

- LHX-160/185 kW x 2 sets
- MBX-57/30 kW x 8 sets
- MBX-56/18.5 kW x 8 sets

HydroMix® system for wastewater treatment



The HydroMix® system, powered by solids handling pumps with no rotating parts inside the tank for trouble-free maintenance, offers multiple choices of our solids handling pumps (XCS, CHOPX, and TORUS) and configurations for large tanks with multiple nozzles

Single Nozzle

Dual Nozzle

Mixers

Top entry mixers

Attrition scrubbers

HydroMix®system

Applications

- Leach, CIL & CIP
- Cyanided destruction
- Conditioning
- Filter feed
- Slurry and pipeline
- Solvent extraction
- Lime and chemical makeup

- Lithium extraction
- Nickel, copper and cobalt processing
- Kaolin clay dispersion
- Potash processing
- Pretreatment for flotation

- Anaerobic digesters
- Sludge storage tanks
- Equalisation basins
- Anoxic zones
- Thermal slurry
- Agricultural waste storage
- Crude oil storage
- Tank blending for uniformity

Key Features

- Rugged design
- Easy maintenance
- High efficiency Impellers
- Tailored solutions

- Compact design
- Easy maintenance
- Abrasion resistant coatings
- Efficient design

- No in tank moving parts
- Energy-efficient operation
- Low maintenance operation
- 90% active tank volume or greater
- Wear resistant components

Specifications

Operating range

Model	HRF, N, ST, MB, LH, HVP Series
Motor sizes	0.37kW to 300kW
Tank volumes	500 Litres to 6,000 m³
Wet end materials	Carbon steel, SS316, SS304, Duplex, Super duplex, Titanium, Hastelloy, and more
Wear protection	Natural rubber, Nitrile, Neoprene, Chlorobutyl rubbers, Polyurethane, ceramic and more

Model	AS050/100/200/300/ 500/750/1000/1560/2000
Motor sizes	4kW to 225kW
Tank cell volumes	Supplied as dual tanks 500 litre to 10 m³ with 20 m³ supplied as separate units
Wet end materials	Carbon steel Stainless steel Hard metal high chrome (600+ Brinell Hardness Number)
Wear protection	Natural rubber, Nitrile rubber Neoprene rubber Urethane ceramic Hard metal options

Model	Single and Dual Nozzle designs
Motor sizes	4kW to 150kW
Tank volumes	from 250m³ to 300,000m³
Wet end materials	Cast iron, Ductile iron, Cast steel, 316SS, 410SS, CD4MCu, High chrome, Ni-Hard, Super Ni-Hard, Super Ni -Hard
Nozzle material	304SS with glass lining for abrasion. Custom materials are available

Looking ahead,
going beyond expectations

Ahead > Beyond

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