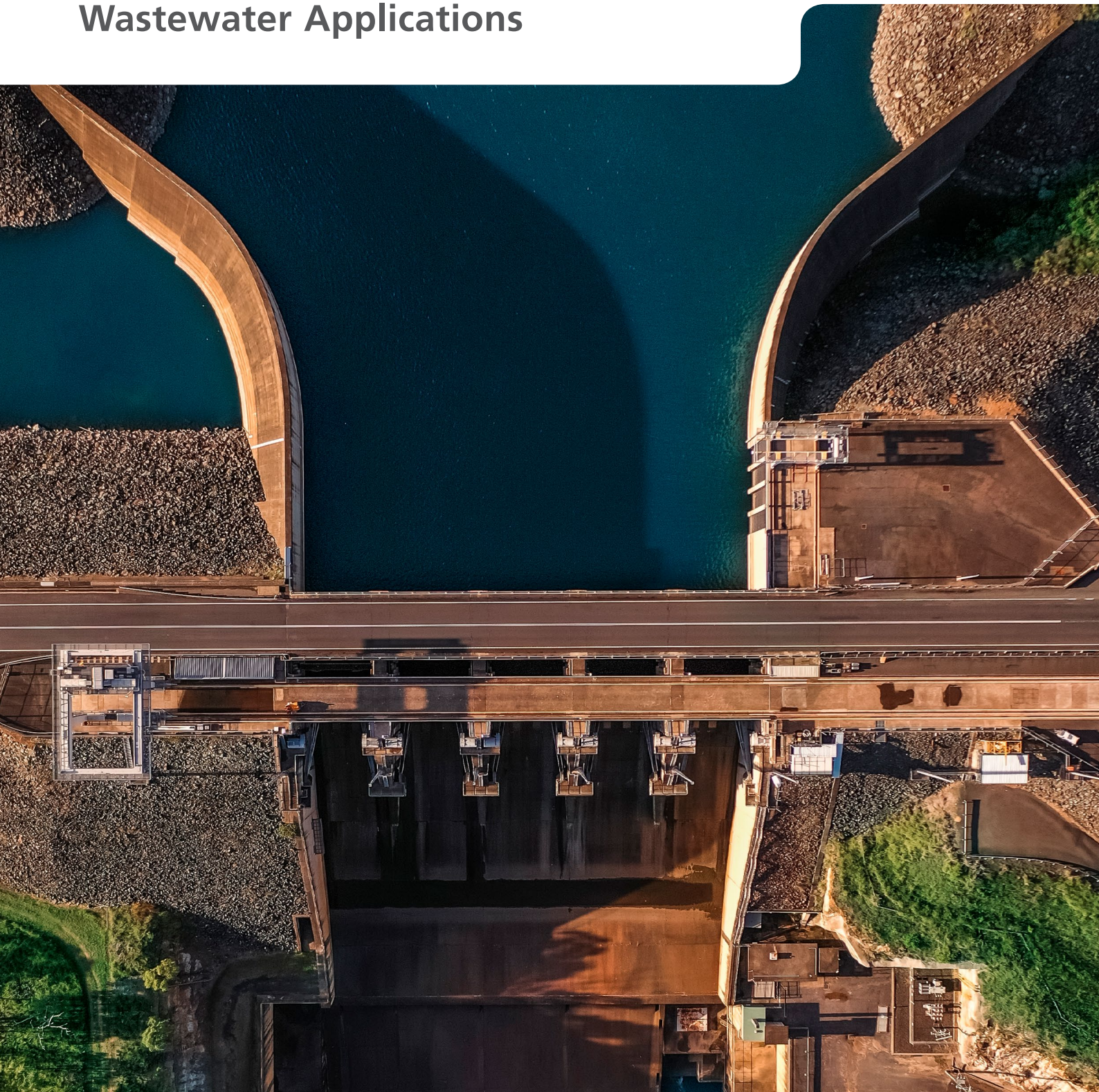
Product Portfolio

Australian Water & Wastewater Applications



WASTEWATER APPLICATIONS

Wherever people live or work, wastewater is produced, and reliable systems must be in place to ensure it is removed and cleaned. Only then can it be returned to the natural water cycle.

KSB submersible pumps: Highest efficiency and non-clogging operation

As one of the leading submersible pump manufacturers worldwide KSB is always there for you as a reliable partner, making sure to offer you the best possible energy efficiency and reliability.

Submersible Motor Pumps

Amarex

Scan to Learn More

Description:
Vertical single-stage submersible motor pump for wet installation, with vortex impeller (F-max) or open dual-vane impeller (D-max), stationary or transportable version. Single-stage, single-entry close-coupled pump sets which are not self-priming. ATEX-compliant version available.

Applications:
Wastewater transport, wastewater treatment plants, sludge treatment, wastewater management, stormwater transport, drainage systems and recirculation.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	50 - 150
Q m³/h	up to 330
H m	up to 42
T °C	up to 40°C

Impellers
F-Max, D-Max

Amarex KRT

Scan to Learn More

Description:
Horizontal or vertical single-stage submersible motor pump in close-coupled design, with various next-generation impeller types, for wet or dry installation, stationary or transportable version, with energy-saving motor and models for use in potentially explosive atmospheres.

Applications:
Wastewater management, disposal, sludge disposal, service water supply systems and wastewater treatment plants.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	up to 700
Q m³/h	up to 10,080
H m	up to 120
T °C	up to 60°C

Impellers
F/F-Max, D/D-Max, E/E-Max, K/K-Max, S/S-Max

Amarex NS

Scan to Learn More

Description:
Vertical single-stage submersible motor pump for wet installation, with cutter (S), stationary or transportable version. Amarex N pumps are floodable, single-stage, single-entry close-coupled pump sets which are not self-priming. ATEX-compliant version available.

Applications:
Wastewater management, sludge disposal, wastewater treatment plants, drainage systems and drainage of rooms and areas at risk of flooding on municipal, commercial and industrial premises.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	50
Q m³/h	up to 22
H m	up to 49
T °C	up to 40°C

Impellers
S

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Amarex		●	●	●		●	
Amarex KRT		●	●	●		●	
Amarex NS		●	●	●		●	

IMPELLERS & INSTALLATIONS →

Pump impellers: Type defines function

The impeller is the pump component which actually imparts energy to the fluid handled, making it the "heart" of the pump. However, the wastewater's composition varies greatly. It may contain solids, wet wipes, sludge or faeces as well as stringy materials or substances forming foam.

To achieve the best pumping results, the impeller should be ideally suited to the individual application. The aim is always to prevent clogging and to ensure a long service life and energy-efficient operation.

Free-flow impeller

Type F/F-Max

Centrifugal pumps with a free-flow impeller are preferably used for wastewater containing solid substances and long fibres, coarse solids as well as entrapped gas or air.

This is why they are a good match for wastewater with a large gas and sand content. The dry matter content (i.e. the solids content; DS content) should not exceed 7%; the impeller's optimum, i.e. its highest efficiency is 59%.

Single-vane impeller

Type E/E-Max

The single-vane impeller, in closed design, is used for raw wastewater containing solid substances and stringy fibres as well as for recirculated and heating sludge and combined sewage.

It is also suitable for handling raw, activated and digested sludge. The maximum dry solids content can be up to 6%. The best efficiency is 81%.

Diagonal single-vane impeller

Type D

The diagonal single-vane impeller – another open impeller design – serves to handle fluids containing solid substances and long fibres, coarse solids as well as entrapped gas or air. It is made to handle raw wastewater, combined sewage, recirculated and heating sludge as well as activated, raw and digested sludge with a solids content of up to 13% as well as high-viscosity fluids.

The best efficiency is 81%. Its free passage is large but slightly smaller than that of a free-flow impeller.

Radial multi-vane impeller

Type D-Max

The radial multi-vane impeller – another open impeller design – serves to handle fluids containing solid substances and long fibres, coarse solids as well as entrapped gas or air. It is specially suited to handling raw wastewater, combined sewage, recirculated and heating sludge as well as activated, raw and digested sludge with a solids content of up to 6% as well as high-viscosity fluids.

The Amarex achieves 78% efficiency and the Amarex KRT achieves 85 % efficiency. The free passage is up to 76 mm and thus meets local requirements.

Multi-channel impeller

Type K/K-Max

Opting for a multi-channel impeller makes sense when contaminated, solids-laden, muddy non-gaseous fluids which do not contain fibrous, stringy material are to be transported.

This impeller type is also suitable for pre-screened wastewater, mechanically treated wastewater, industrial effluent, landfill wastewater as well as stormwater and activated sludge. The maximum dry solids content is 5%. The best efficiency is 90%.

Depending on the size, impellers with free passages larger than 190mm are also available. The multi-channel impeller has the highest efficiency of the five impeller types featured. It is primarily used for wastewater with a low contamination load or for pre-treated wastewater.

Cutter

Type S-Max

Centrifugal pumps with a cutter are designed to handle wastewater containing coarse substances, and/or long fibres when the discharge line diameter is relatively small (DN 40 and DN 50). The best efficiency is 42%. The maximum free passage is 7mm.

The right impeller for every type of wastewater

Impeller Type		Fluid Handled	Free Passage	Best Efficiency	Gas Content [vol%]	Sand Content [g/l]	Dry Matter Content
F-Max	Free-flow impeller (vortex impeller)	▪ Raw wastewater ▪ Activated sludge ▪ Raw and digested sludge ▪ Combined sewage	●●●	●	●●●	●●●	●●
E-Max	Single-vane impeller	▪ Raw wastewater ▪ Activated sludge ▪ Raw and digested sludge ▪ Combined sewage ▪ Recirculated and heating sludge	●●	●●	●	●●	●●
D	Open diagonal single-vane impeller	▪ Raw wastewater ▪ Activated sludge ▪ Raw and digested sludge ▪ Combined sewage ▪ Recirculated and heating sludge	●●	●●	●●	●●	●●●
D-Max	Open radial multi-vane impeller	▪ Raw wastewater ▪ Activated sludge ▪ Raw and digested sludge ▪ Combined sewage ▪ Recirculated and heating sludge	●●	●●●	●●	●●	●●
K-Max	Multi-channel impeller	▪ Activated sludge ▪ Pre-screened wastewater ▪ Mechanically treated wastewater ▪ Industrial wastewater ▪ Landfill wastewater ▪ Stormwater	●●	●●●	●	●●●	●
S	Cutter	▪ Domestic wastewater ▪ Wastewater ▪ Faeces	●	●	●●	●	●

Amarex KRT Installation

Amarex has been specially developed to adapt to all environmental conditions. It can be integrated into all new or existing plants, both mechanically and electrically.

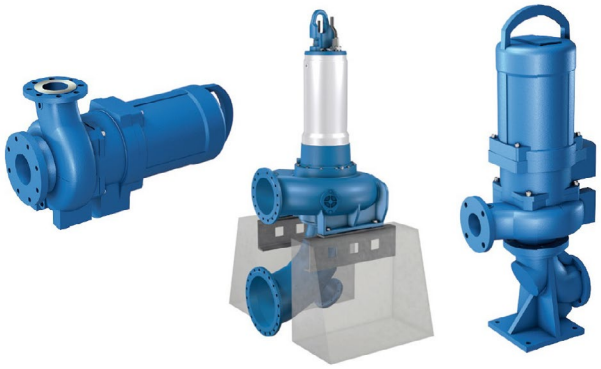
As the pump is easy to handle, it can be installed quickly and used to replace older pumps with far lower efficiencies. Increased efficiency, achieved easily and fast.

Wastewater pump in stationary wet installation

Wet installation with guide wire

Wet installation with guide rail(s)

Wastewater pump in horizontal and vertical dry installation



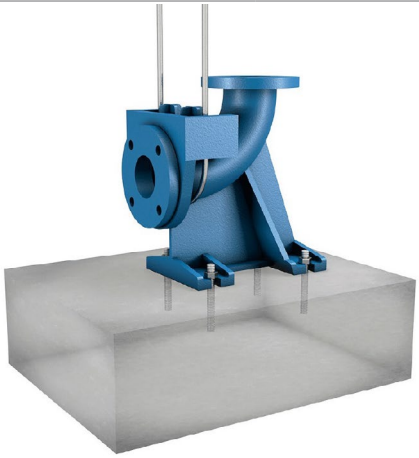
Single guide rail arrangement

Twin guide rail arrangement

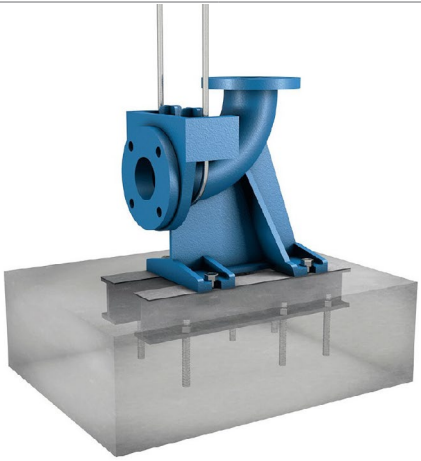
Guide wire arrangement

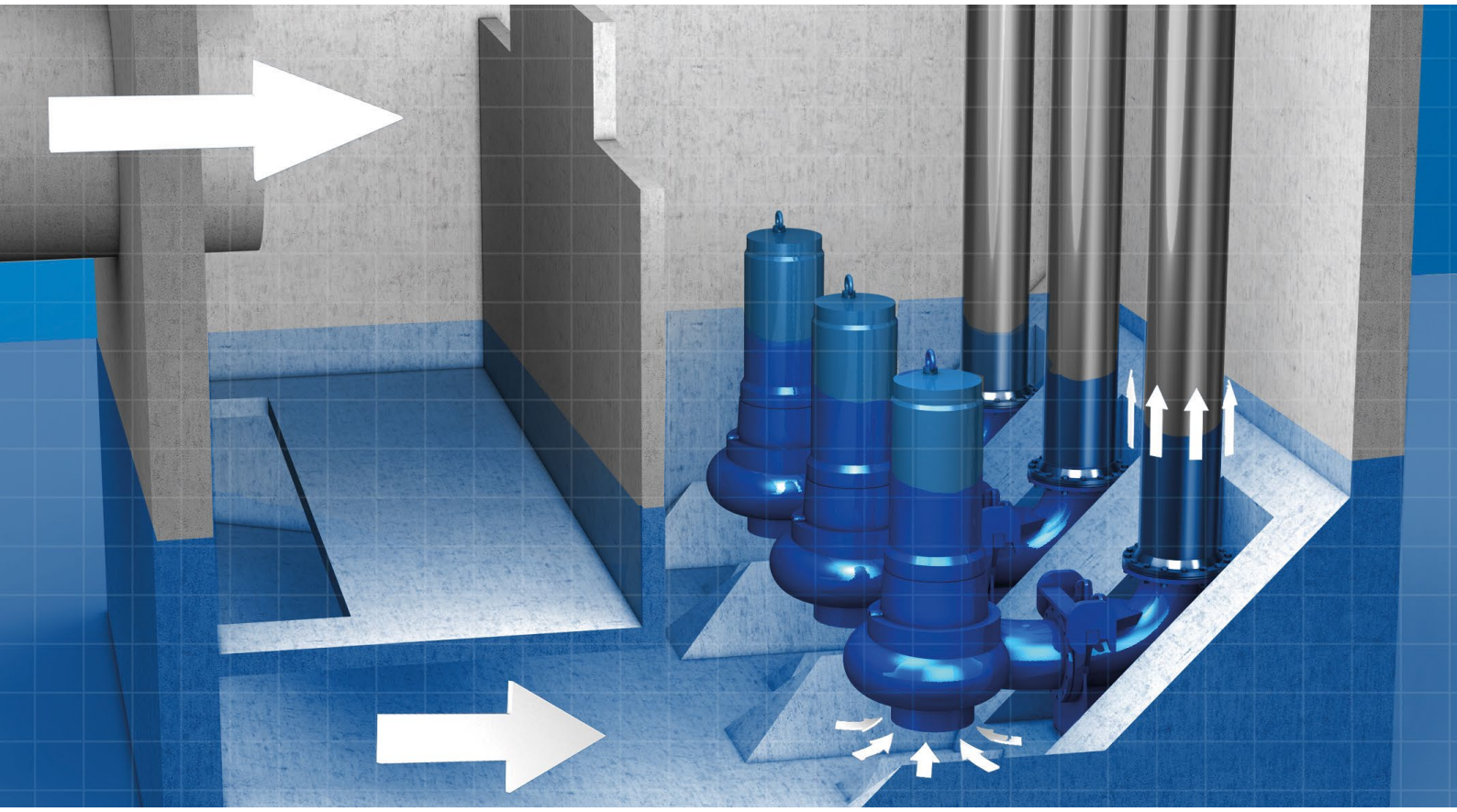
Guide hoop arrangement

Installation directly on the tank floor



Installation on foundation rails





Submersible Pumps in Discharge Tubes

Amacan P

Scan to Learn More

Description:
Wet-installed submersible motor pump for installation in discharge tubes, with axial propeller in ECB design, single-stage, single-entry. ATEX-compliant version available.

Applications:
Irrigation and drainage pumping stations, for stormwater transport in stormwater pumping stations, raw and clean water transport in water and wastewater treatment plants, cooling water transport in power stations and industrial plants, industrial water supply, water pollution control and flood control and aquaculture.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	up to 1,600
Q m³/h	up to 25,200
H m	up to 12
T °C	up to 40°C
n rpm	up to 1,450

AmaCan D

Scan to Learn More

Description:
Wet-installed submersible motor pump for installation in discharge tube, with open multi-vane impeller, single-stage, ATEX-compliant version available

Applications:
Irrigation and drainage pumping stations, rainwater transport in stormwater pumping stations, raw and clean water transport in waterworks and waste water treatment plants, cooling water transport in power stations and industrial plants, industrial water supply, mechanically treated waste water, water pollution and flood control, aquaculture.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	600 - 1,000
Q m³/h	up to 8,000
H m	up to 29
T °C	up to 40°C
n rpm	up to 1,450

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Amacan P		●	●	●			
AmaCan D		●	●	●			

Future-ready pumping stations: expert planning meets powerful mixers

When pumping stations and wastewater treatment plants have to handle heavy pollutant loads, from heavy rain to increased effluents or fibers, submersible mixers are a smart solution.

Mixers / Agitators / Tank Cleaning Units

Amamix

Scan to Learn More

Description:
Horizontal submersible mixer with self-cleaning ECB propeller, close-coupled design, direct drive. ATEX-compliant version available.

Applications:
Handling municipal and industrial wastewater and sludges as well as applications in environmental engineering.

Technical Data:

Propeller Ø [mm]	200 - 600
T °C	up to 40°C
Installation Depth [mm]	up to 30

AmaProp

Scan to Learn More

Description:
Horizontal submersible mixer with self-cleaning ECB propeller, close-coupled design, with coaxial spur gear drive. Explosion-proof version available.

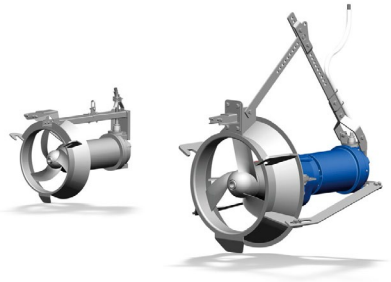
Applications:
In environmental engineering, particularly in municipal and industrial wastewater and sludge treatment, for circulating, keeping in suspension and inducing flow in nitrification tanks and denitrification tanks, activated sludge tanks, biological phosphate elimination tanks, flocculation tanks and sludge storage tanks.

Technical Data:

Propeller Ø [mm] - 2,500	1,000
T °C	up to 40°C
Installation Depth [mm]	up to 12

Amaline

Scan to Learn More



Description
Wet-installed horizontal propeller pump with submersible motor, equipped with direct drive or spur gear, ECB propeller with rigid, fibre-repellent blades, bolt-free connection to the discharge pipe. Explosion-proof version available.

Applications:
Recirculating activated sludge in wastewater treatment systems.

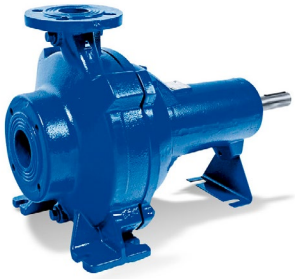
Technical Data:

DN	200 - 800
Q m³/h	up to 6,700
H m	up to 3,5
T °C	up to 40°C
n rpm	up to 1,450

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Amamix			●	●			
Amaprop			●	●			
Amaline			●	●			

Pump for Solids-Laden Fluids

Sewatec



Scan to Learn More

Description:
Volute casing pump for horizontal or vertical installation, with various next-generation impeller types, discharge flange to DIN and ANSI standards. Explosion-proof version available.

Applications:
Wastewater transport, wastewater disposal, wastewater management, transport of contaminated surface water and sludge processing.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	50 - 700
Q m³/h	up to 10,000
H m	up to 115
p bar	up to 10
T °C	up to 70°C
n rpm	up to 2,900

Sewabloc

Scan to Learn More

Description:
Close-coupled volute casing pump for horizontal or vertical installation, with various nextgeneration impeller types, discharge flange to DIN and ANSI standards. Explosion-proof version available.

Applications:
Waste water transport, waste water disposal, waste water management, transport of contaminated surface water, sludge treatment.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	50 - 200
Q m³/h	up to 1,000
H m	up to 90
p bar	up to 10
T °C	up to 70°C
n rpm	up to 2,900

Drainage Pump / Wastewater Pump

Ama-Porter F/S

Scan to Learn More

Description:
Vertical single-stage fully floodable submersible waste water pump in close-coupled design (grey cast iron variant), non-explosion-proof, stationary or transportable version.

Applications:
Handling grey water, especially wastewater containing long fibres and solid substances, liquids containing gas/air, removing wastewater from flooded rooms and surfaces.

Technical Data:
Data is for 50 Hz operation.

DN	50 - 80
Q m³/h	up to 127
H m	up to 36.9
T °C	up to 40°C

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Sewatec		●	●	●			
Sewabloc		●	●	●			
Ama-Porter F/S		●				●	

WATER APPLICATIONS

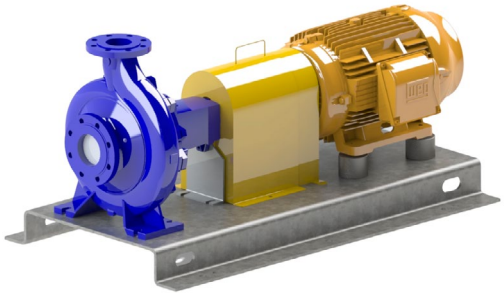
Reliable pumps and valves, innovative technology, comprehensive service: KSB is an expert in reliable and efficient water extraction, water treatment and water distribution.

KSB Eta: Keeps the world on the move

Eta is known for its excellent efficiencies. It also stands for high quality, enormous versatility and absolute reliability. This is why it has been chosen to ensure reliable processes in many applications.

Standardised / Close-Coupled Pumps In-line Pumps

Etanorm



Scan to Learn More

Description:
Horizontal volute casing pump, single-stage, with ratings and main dimensions to EN 733, longcoupled, back pull-out design, with replaceable shaft sleeves / shaft protecting sleeves and casing wear rings, with motor-mounted variable speed system. Coupled with WEG W22 IP66 IE3 Three phase induction motor. KSB SuPremE Motors, a magentless synchrounour reluctance motor (exception: motor sizes 0.55 kW/ 0.75 kW with 4 poles are designed with permanent magnets) of IE4/IE5 Efficiency Class available upon request.Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

Applications:
Pumping clean or aggressive liquids not chemically or mechanically aggressive to the pump materials in water supply systems, cooling circuits, swimming pools, fire-fighting systems, irrigation systems, drainage systems, heating systems, air-conditioning systems and spray irrigation systems.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	25 - 150
Q m³/h	up to 1,930
H m	up to 160
p bar	up to 16
T °C	-30°C - +140°C

Material Options:

1. Casing Cast Iron (G)
   Stainless Steel 316 (C)
2. Impellers Cast Iron (G)
   Stainless Steel 316 (C)
   Bronze (B)

Etanorm SYT

Scan to Learn More

Description:
Horizontal volute casing pump in back pull-out design, single-stage, with ratings and dimensions to EN 733, radially split volute casing with integrally cast pump feet, replaceable casing wear rings, closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756, double mechanical seal to EN 12756, drive-end bearings: rolling element bearings, pump-end bearings: plain bearings, with magnetless KSB SuPremE motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 and PumpDrive variable speed system; ATEX-compliant version available

Applications:
Heat transfer systems, hot water recirculation

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	32 - 100
Q m³/h	up to 316
H m	up to 69
p bar	up to 16
T °C	-30°C - +350°C

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Etanorm	●	●	●	●	●	●	
Etanorm SYT	●	●		●		●	
Etabloc	●	●	●	●	●	●	
Etaline	●	●		●		●	

In-Line Pumps

Etabloc

Scan to Learn More

Description:
Single-stage close-coupled volute casing pump, with ratings to EN 733, with replaceable shaft sleeve and casing wear rings, with motor-mounted variable speed system. Coupled with WEG W22 IP66 IE3 Three phase induction motor. KSB SuPremE Motors, a magentless synchrounour reluctance motor (exception: motor sizes 0.55 kW/ 0.75 kW with 4 poles are designed with permanent magnets) of IE4/IE5 Efficiency Class available upon request. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

Applications:
Pumping clean or aggressive liquids not chemically or mechanically aggressive to the pump materials in water supply systems, cooling circuits, swimming pools, fire-fighting systems, irrigation systems, drainage systems, heating systems, air-conditioning systems and spray irrigation systems.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	25 - 150
Q m³/h	up to 660
H m	up to 160
p bar	up to 16
T ˚C	-30˚C - +140˚C

Material Options:
1. Casing Cast Iron (G) Stainless Steel 316 (C)
2. Impellers Cast Iron (G) Stainless Steel 316 (C) Bronze (B)

Etaline

Scan to Learn More

Description:
Single-stage volute casing pump in in-line design, with magnetless KSB SuPremE motor of fficiency class IE4/IE5 and PumpDrive variable speed system; pump shaft and motor shaft are rigidly connected. Coupled with WEG W22 IP66 IE3 Three phase induction motor. KSB SuPremE Motors, a magentless synchrounour reluctance motor (exception: motor sizes 0.55 kW/ 0.75 kW with 4 poles are designed with permanent magnets) of IE4/IE5 Efficiency Class available upon request. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEXcompliant version available.

Application:
Hot water heating, cooling circuits, air-conditioning, water supply systems, service water supply systems and industrial recirculation systems.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	up to 32 - 200
Q m³/h	up to 700
H m	up to 96
p bar	up to 16
T ˚C	-30˚C - +140˚C

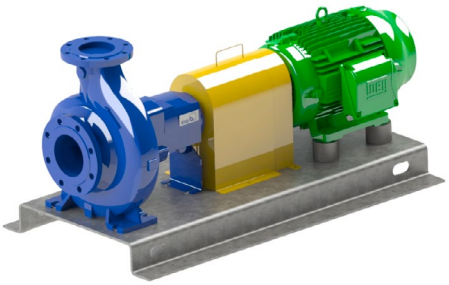
Material Options:
1. Casing Cast Iron (G) Stainless Steel 316 (C)
2. Impellers Cast Iron (G) Stainless Steel 316 (C) Bronze (B)

KSB high-pressure pumps: Top performance through technical innovation

Thanks to many years of tradition and innovation, KSB offers high-pressure pumps with the highest quality, optimum performance and continuous further development.

High-Pressure Pumps

MegaCPK



Scan to Learn More

Description:
Horizontal radially split volute casing pump in back pull-out design, with radial impeller, singleentry,single-stage, to DIN EN ISO 2858 / ISO 5199, in a large range of material and seal variants; also available as a variant with “wet” shaft and conical seal chamber. Coupled with WEG W22 IP66 IE3 Three phase induction motor. KSB SuPremE Motors, a magentless synchrounour reluctance motor (exception: motor sizes 0.55 kW/ 0.75 kW with 4 poles are designed with permanent magnets) of IE4/IE5 Efficiency Class available upon request. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

Applications:
Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical and petrochemical industries, in refineries, power stations and desalination plants as well as in the food industry and general industry.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	25 - 250
Q m³/h	up to 3,300
H m	up to 162
p bar	up to 25
T ˚C	-10˚C - +400˚C

Material Options:

1. Casing Cast Iron (G)
   Stainless Steel 316 (C)
   Carbon Steel (E)
2. Impellers Cast Iron (G)
   Stainless Steel 316 (C)
   Bronze (B)
   Carbon Steel (E)

Movitec

Scan to Learn More

Description:
Multistage vertical high-pressure centrifugal pump in ring-section design with suction and discharge nozzles of identical nominal diameters arranged opposite to each other (in-line design), close-coupled. Coupled with WEG W22 IP66 IE3 Three phase induction motor. KSB SuPremE Motors, a magentless synchrounour reluctance motor (exception: motor sizes 0.55 kW/ 0.75 kW with 4 poles are designed with permanent magnets) of IE4/IE5 Efficiency Class available upon request. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEXcompliant version available.

Applications:
Spray irrigation, general irrigation, washing, water treatment, fire-fighting and pressure booster systems, hot water and cooling water recirculation and boiler feed systems.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

RP	1 - 2
DN	up to 25 - 125
Q m³/h	up to 160
H m	up to 401
p bar	up to 40
T ˚C	-20˚C - +40˚C
n rpm	up to 2,900

Available Options:

1. Flanged Connection (ASME/DIN)
2. Oval Flanged with Internal Screwed Connection
3. Material Options
   Stainless Steel 304
   Stainless Steel 316

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
MegaCPK	●	●		●	●		
Movitec		●	●	●	●	●	

High-Pressure Pumps

Movitec VCI

Scan to Learn More

Description:
Multistage vertical high-pressure immersion pump for installation on tanks or platforms.

Applications:
Machine tools, industrial machine systems, condensate transport and paint shops.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

RP	1 1/4 - 2
Q m³/h	up to 22,5
H m	up to 249
p bar	up to 25
T °C	-10°C - +120°C
n rpm	up to 2,900

Multitec

Scan to Learn More

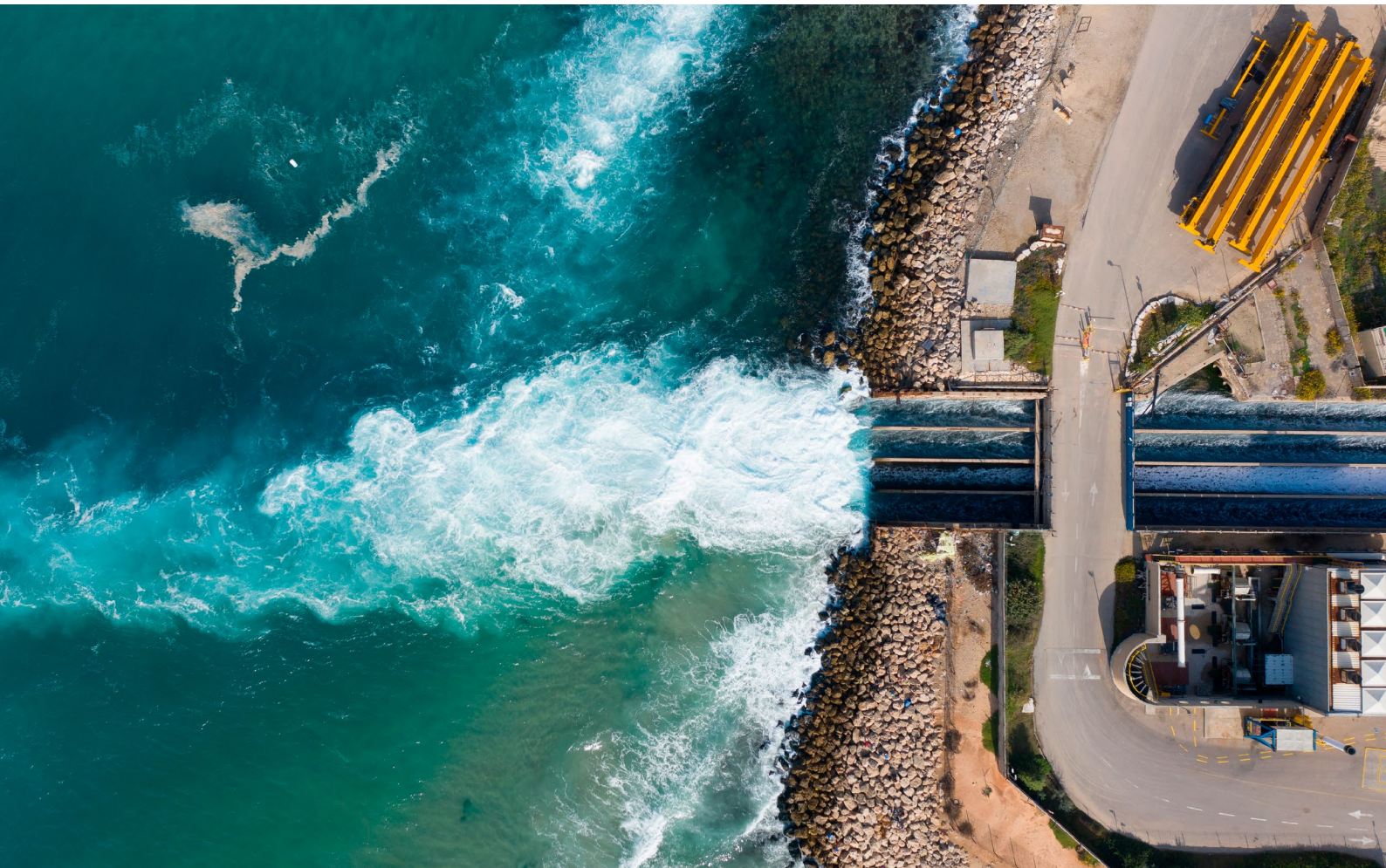
Description
Multistage horizontal or vertical centrifugal pump in ring-section design, long-coupled or closecoupled, with axial or radial suction nozzle, cast radial impellers and motor-mounted variable speed system. ATEX-compliant version available.

Applications:
Water supply, drinking water supply, industry, pressure boosting, irrigation, power stations, heating systems, filtering systems, fire-fighting systems, reverse osmosis systems, snow-making systems and washing plants, and geothermal systems (re-injection of geothermal water into the aquifer).

Technical Data:

DN	32 - 250
Q m³/h	up to 1,500
H m	up to 1,000
p bar	up to 100
T °C	-10°C - +200°C
n rpm	up to 3,500

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Movitec VCI		●	●	●			
Multitec		●	●	●	●	●	●



Water treatment: A complex task bearing great responsibility

Surging global demand for water – especially in industry and households – requires ever more and larger water treatment systems and plants which have to work efficiently. A further challenge is that in future more than 40% of drinking water will have to be produced via seawater desalination.

Pumps for desalination by reverse osmosis

Multitec-RO

Scan to Learn More

Description
Horizontal or vertical multistage centrifugal pump in ring-section design. Axial or radial suction nozzle. Discharge nozzle can be turned in steps of 90°. Closed radial impellers. Made of duplex or super duplex stainless steel.

Applications:
High-pressure pump for RO seawater desalination systems and geothermal systems (re-injection of geothermal water into the aquifer).

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	50 - 150
Q m³/h	up to 850
H m	up to 1,000
p bar	up to 100
T °C	-10°C - +45°C
n rpm	up to 3,500

RPH-RO

Scan to Learn More

Description
Horizontal radially split volute casing pump for dry installation, made of super-duplex stainless steel.

Applications:
Booster pump for RO seawater desalination systems.

Technical Data:

DN	100 - 350
Q m³/h	up to 2,500
H m	up to 110
p bar	up to 80
T °C	up to 40°C

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Multitec-RO		●	●	●			
RPH-RO			●				

Superior technology for down under: The Ravenswood drinking water pump station, Australia

The Ravenswood Pump Station near Perth, Western Australia is part of the Southern Seawater Desalination Plant.

It has the capacity to transfer several million litres of drinking water from the plant and the surrounding reservoirs to Perth's water supply system.

Read full story via www.ksb.com.au

Get your business flowing – with KSB volute casing pumps

For more than 150 years, we have been offering our customers all-in solutions which comprise a broad spectrum of pumps, valves, drive and automation solutions as well as tailored services. A good example of the extraordinary results are our axially split volute casing pumps: Omega, RDLO and RDLP operate reliably and durably in the most diverse of applications.

Our extensive hydraulic selection chart offers an optimum pump for every operating range:

- KSB's standardised high performers Omega and RDLO, single-stage volute casing pumps with double-entry impellers and a large range of options, cover all possible requirements.
- If even larger flow rates or heads are needed, our engineered RDLO and RDLP pump sets (with one, two or three stages, and double-entry impellers) are tailored precisely to the customer requirements and conditions at the site.

Axially Split Pumps

Omega

Scan to Learn More

Description:
Single-stage axially split volute casing pump for horizontal or vertical installation, with doubleentry radial impeller, mating flanges to DIN, EN or ASME

Applications:
Pumping water with a low solids content, e.g. in waterworks, irrigation and drainage pumping stations, extraction duties in desalination systems, power stations, fire-fighting systems, shipbuilding and district heating or cooling.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	80 - 400
Q m^3/h	up to 4,400
H m	up to 210
p bar	up to 25
T °C	up to 140°C
n rpm	up to 2,900

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Omega		●	●	●	●	●	
RDLO		●	●	●	●	●	
RDLP		●	●				

Axially split pumps

RDLO

Scan to Learn More

Description:
Single-stage axially split volute casing pump for horizontal or vertical installation, with doubleentry radial impeller, mating flanges to DIN, EN or ASME.

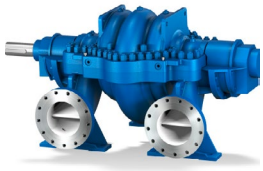
Applications:
Pumping water with a low solids content, e.g. in waterworks, irrigation and drainage pumping stations, extraction duties in desalination systems, power stations, fire-fighting systems, shipbuilding and district heating or cooling.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	350 - 700
Q m³/h	up to 10,000
H m	up to 290
p bar	up to 30
T °C	up to 140°C
n rpm	up to 1,450

RDLP

Scan to Learn More



Description:
Axially split volute casing pump for horizontal installation, with one, two or three stages and double-entry radial impeller, mating flanges to DIN, ISO or ANSI.

Applications:
Pumping water with a low solids content, e.g. in waterworks and long-distance water supply.

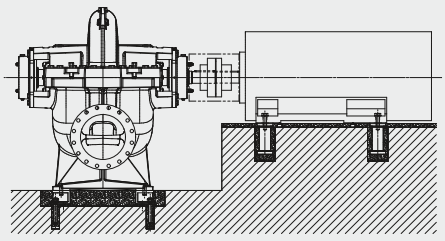
Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	350 - 1,200
Q m³/h	up to 18,000
H m	up to 550
p bar	up to 64
T °C	up to 80°C
n rpm	up to 1,450

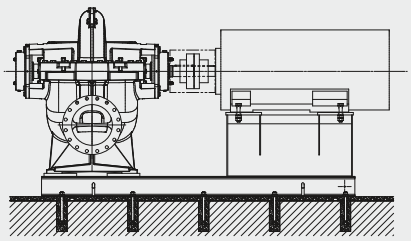
With KSB, everywhere is pole position

Our comprehensive and diverse product range is tailored to our customers' particular requirements. This is why we offer the most diverse of installation types, ensuring maximum flexibility and providing the right product for each application:

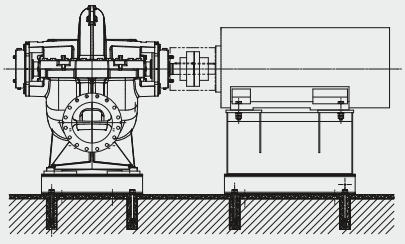
Horizontal installation types



Pump and motor on foundation rails



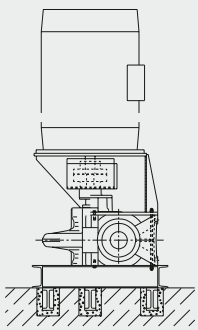
Pump and motor on common baseplate



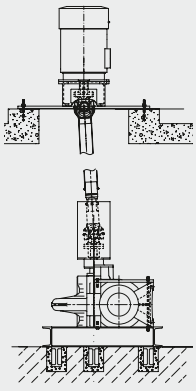
Pump and motor on separate baseplates

Vertical installation types

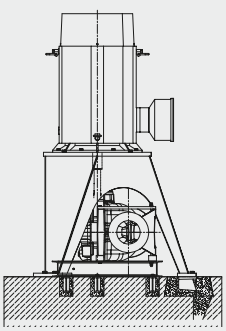
Pump with motor stool mounted on top



Pump and motor on separate levels



Pump with motor stool mounted separately



KSB B Pump: Vertical turbine pumps

KSB B Pumps are multistage vertical turbine pumps with a submerged hydraulic system. The pump sets comprise a discharge casing assembly, a column pipe and a pump bowl assembly. In total, 17 sizes with three different impeller types are available.

Vertical Turbine Pump

B Pump

Scan to Learn More

Description:
Vertical turbine pump conforming to AWWA E101-88 and designed with radially split interchangeable pump bowls, wearings and impellers; column assembly with interchangeable column bearings and lengths of column pipes for variable immersion depths.

Applications:
Pumping clean water in agriculture, collection and irrigation, public water supply, industry and firefighting systems.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz. Higher ratings also possible upon request.

DN	80 - 500
Q m³/h	up to 2,600
H m	up to 160
p bar	up to 16
T °C	-10°C - + 105°C
n rpm	up to 3,000

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
B Pump			●	●	●		

KSB tubular casing pumps.
The modular design system for more efficiency.

Tubular casing pumps from KSB are modular in design. This means that we can select the hydraulic system, design, materials, types of installation and control system to exactly meet your requirements. And an optimally designed pump will reduce the life cycle costs of your installation.

Tubular Casing Pumps

SEZ

Scan to Learn More

Description:
Vertical tubular casing pump with open mixed flow impeller, pump intake with inlet nozzle or suction elbow, pull-out design available, discharge nozzle arranged above- or underfloor, flanges to DIN or ANSI standards available.

Applications:
Pumping raw water, pure water, service water and cooling water in industry, water supply systems, power stations and seawater desalination plants.

Technical Data:
Data is for 50 Hz operation. Also available for 60 Hz. Higher ratings possible upon request.

Q m³/h	up to 65,000
H m	up to 33
T °C	up to 40°C
n rpm	up to 990

SNW

Scan to Learn More

Description:
Vertical tubular casing pump with mixed flow impeller, single-stage, with maintenance-free Residur bearings, discharge nozzle arranged above- or underfloor.

Applications:
Irrigation and drainage, stormwater pumping stations, for raw water and pure water, water supply and cooling water.

Technical Data:
Data is for 50 Hz operation. Also available for 60 Hz. Higher ratings possible upon request.

DN	350 - 800
Q m³/h	up to 6,500
H m	up to 60
p bar	up to 10
T °C	up to 60°C
n rpm	up to 1,500

PNW

Scan to Learn More

Description:
Vertical tubular casing pump with axial propeller, single-stage, with maintenance-free Residur bearings, discharge nozzle arranged above or below floor level.

Applications:
Irrigation and drainage, stormwater pumping stations, for raw water and pure water, water supply and cooling water.

Technical Data:
Data is for 50 Hz operation. Also available for 60 Hz. Higher ratings possible upon request.

DN	350 - 800
Q m³/h	up to 9,000
H m	up to 10
p bar	up to 10
T °C	up to 60°C
n rpm	up to 1,500

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
SEZ			●	●	●		
SNW			●	●	●		
PNW			●	●	●		

Variants: pull-out or non-pull-out.

KSB's tubular casing pumps can be supplied in two design variants.

The pull-out design is easier to service and maintain: During dismantling and re-assembly, thae entire rotor can be withdrawn for inspection and maintenance. This minimises downtime for maintenance work and reduces life cycle costs (LCC).

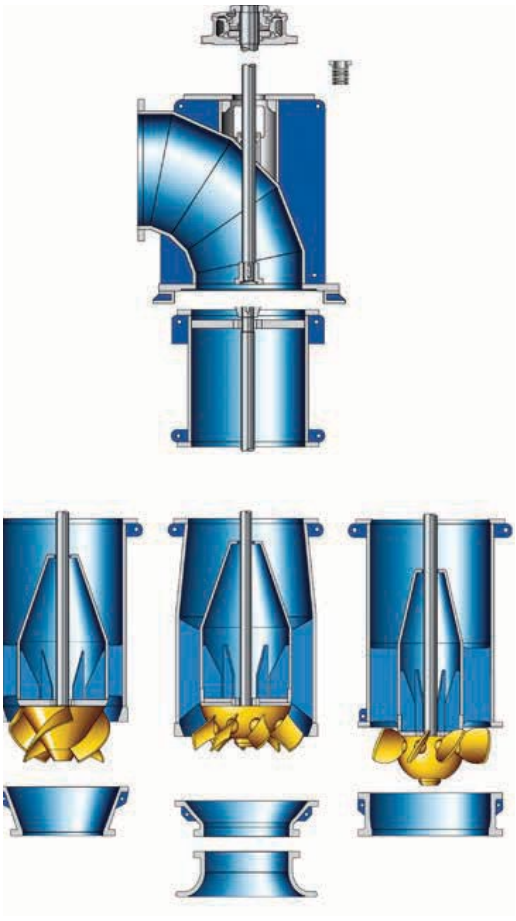
By contrast, the investment for non-pull-out type pumps is considerably lower because a number of components can be dispensed with. This reduces both the weight of the pump and the initial costs.

Pull-out type pump

Hydraulic system: three different impellers to choose from.

We offer three types of impeller designed to meet the specific performance data of your system. The pump will come equipped with the hydraulic system to match your application.

In addition, our casting quality standards are exceptionally high. This enables us to guarantee a high-grade surface finish and a high-precision geometry – prerequisites for a constantly high efficiency.



Non-pull-out type pump

KSB UPA: Taking reliability to a whole new level

KSB offers you a comprehensive range of reliable submersible borehole pumps and high-performance motors designed to ensure a dependable and cost-effective water supply. We place top priority on making our products reliable and dependable. This is why we continuously optimise our submersible borehole pumps in all stages.

Submersible Borehole Pumps

UPA C 150

Scan to Learn More

Description:
All-stainless steel single-stage or multistage centrifugal pump in ring-section design, suitable for vertical or horizontal installation, for well diameters of 150 mm (6 inches) and above.

Applications:
Spray irrigation systems, general irrigation systems, drawdown of groundwater levels, domestic water supply, fountains, heat pump systems, Data for 50 Hz operation water supply systems

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	150
Q m³/h	up to 79
H m	up to 440
T °C	up to 50°C

UPA 200, UPA 250

Scan to Learn More

(UPA 200) (UPA 250)

Description:
Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Optionally available with lift check valve or connection branch. For well diameters of 8 inches and above.

Applications:
Pumping clean or slightly contaminated water in general water supply, spray irrigation and eneral irrigation, drawdown and maintenance of groundwater levels, fountains and pressure booster systems, mining, fire-fighting systems and emergency water supply.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	200 - 250
Q m³/h	up to 330
H m	up to 460
T °C	up to 50°C

UPA 300, UPA 350

Scan to Learn More

(UPA 300) (UPA 350)

Description:
Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Mixed flow hydraulic systems with trimmable impellers. Optionally available with lift check valve or connection branch. For well diameters of 12 inches and above.

Applications:
Pumping clean or slightly contaminated water in general water supply, spray irrigation and general irrigation, drawdown and maintenance of groundwater levels, fountains and pressure booster systems, mining, fire-fighting systems and emergency water supply.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	300 - 350
Q m³/h	up to 840
H m	up to 480
T °C	up to 50°C

UPA S 200, UPA S 250

Scan to Learn More

(UPA S 200) (UPA S 250)

Description:
Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Optionally available with lift check valve or connection branch. For well diameters of 8 inches and above.

Applications:
For pumping clean or slightly contaminated water in general water supply, spray irrigation and general irrigation, drawdown and maintenance of groundwater levels, fountains and pressure booster systems, mining, fire-fighting systems and emergency water supply.

Technical Data:
Data is for 50 Hz operation.
Also available for 60 Hz.

DN	200 - 250
Q m³/h	up to 310
H m	up to 380
T °C	up to 50°C

Pumps	Factory-Automated	Automation Available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
UPA C 150		●	●	●		●	
UPA 200 / 250		●	●	●			
UPA 300 / 350		●	●	●			
UPA S 200 / 250		●	●	●			

KSB Australia Locations

KSB BUNDAMBA, QLD

13 HAWKINS CRESCENT,
BUNDAMBA QLD 4300

KSB HOPE VALLEY, WA

13 INVESTIGATOR DRIVE,
HOPE VALLEY WA 6165

KSB NETLEY, SA

4/348 RICHMOND ROAD
NETLEY SA 5037

KSB ESSENDON FIELDS, VIC

BELL BUSINESS CENTRE,
G18, 72 HARGRAVE AVENUE
ESSENDON FIELDS VIC 3041

KSB NEWCASTLE, NSW

14/50 RIVERSIDE DRIVE
MAYFIELD WEST NSW 2304

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