EMF ENGINEERING

WILDEN

KSB
Our technology. Your success.
Pumps . Valves . Services

BUSCH

TURBOWIN
Blower & Compressor Technology

Roto pumps
Since 1968

EMF ENGINEERING BD

www.emfengineeringbd.com

CONTACT +88 1947 345033

About Us

Innovation Infra-Tech Ltd. is a growing multidisciplinary industrial business house in Bangladesh, has a long successful history. We keep pride in providing high quality service throughout Bangladesh. Our affordable services include customized design, installation, customized preventative maintenance and service for our clients in numerous industries.

Mission

Commitment to achieve customer satisfaction through continuous improvement in technical support with the latest technology. Maintain excellent reputation & expand our business on supplies & water management works.

Vision

To become a professional leading pump & accessories supplier & water management service providing organization.

Value

Hello to all the tenants of earth. . .
We are continuously using water and other natural resources in an undefined way, but what will happen, when there will be no water.
So, come and join together to take an oath that we'll save water and hence OUR MOTHER EARTH.

OUR SCOPE OF SUPPLY

Centrifugal Pump

Submersible Pump

Progressive Cavity Pump

Vacuum Pump

(AODD) Pump

Turbo Blower & Compressor

FIELD OF EXPERTISE

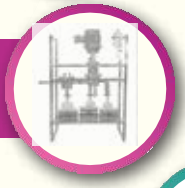
Deep Tube Well

Fire Fighting System (Protection & Detection)

Auto Pressurized Water Supply (Booster) System

Water Treatment Plant (IRF, SF, ACF, RO, DM)

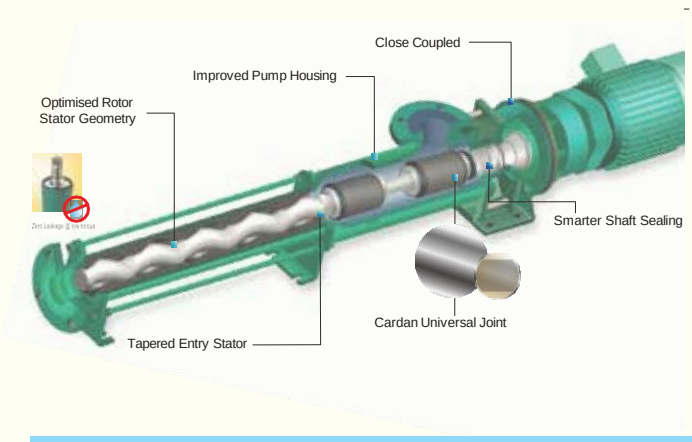
Process Solutions



Material Handling System

Solar System

Progressive Cavity Pump



RM/RD/RL

One of the most dynamic designs for driving the flow of variety of liquids, Progressive Cavity Pumps can be customized to efficiently handle liquids with different viscosity levels and chemical properties. The Progressive Cavity Pumps comprise of a precision mechanized single external helix metallic rotor and double internal helix elastomer stator. As the rotor turns within stators, the cavity progresses from suction to discharge along with fluid. Due to the special profile of the rotor and stator set, a sealing line is formed along the axis of the rotor which is maintained at both static and dynamic conditions. As the rotor turns within the stator, these cavities progress from the suction to the discharge end of the pump carrying the fluid. So that it can transfer high viscous liquid with solid particle up to 3,000,000 cST.

Technical Data

Single Stage		Multistage	
Capacity	up to 500 m3/hr	Capacity	up to 200 m3/hr
Pressure	up to 6 bar	Pressure	up to 48 bar

Standard PC Pump

Wide Throat PC Pump

Vertical PC Pump

Food Graded Pump

Dosing Pump

Design Features

Positive Displacement
Because of single rotating element, progressive cavities are generated which deliver a uniform, metered and Positive Displacement flow.

Low Internal Velocity
Minimum degradation of shear-sensitive media, and can also handle highly viscous materials having pseudo-plastic characteristics.

Self Priming
Inherently self-priming, the pumps can work on snore and do not require a foot valve.

Reversible
Due to the reversible rotation capabilities, Progressive Cavity Pumps can perform with equal efficiency in either direction.

Non-Clogging
Can handle solid in suspension or media containing a high percentage of solids.

Silent Running
Rotors turn inside a resilient stator and thus generate little noise.

Low NPSH Requirement
Suction lift capabilities of up to 9.5 mwc and effective in high vacuum conditions.

Separate Bearing Housing
Fluids can be pumped without no contamination.

Material Composition

Wettable Housing Components	Cast Iron / Cast Stainless Steel / Fabricated Steel / Fabricated Stainless Steel	Rotor Surface Coatings	Ceramic Coatings / Tungsten Carbide / Hard Chrome Plating
Stator	Nitrile / High Nitrile / EPDM / Chloro-Sulphonated Rubber / Fluoroelastomer / Natural Black	Shaft	Alloy Steel HCP/ Stainless Steel UP/HCP
Rotor	Case Hardened Steel / Alloy Steel HCP/ Stainless Steel UP/HCP	Other Exotic Materials	Duplex / Super Duplex / Alloy 20 / Haste Alloy
Coupling Rod:	Alloy Steel / Stainless Steel	Protective Coatings	Rubber Lining / Epoxy Coatings

Vacuum Pumps

Technical Data

Oil Lubricated Rotary Vane Vacuum Pump

Ultimate Pressure:
0.05-20 hPa (mbar)

Nominal pumping speed 50 Hz:
4-1600 m3/hr

Liquid Ring Vacuum Pumps and Compressors

Ultimate Pressure :
33-130 hpa (mbar)

Nominal pumping speed 50 Hz:
25-10,900 m3/hr

Two stage oil lubricated Rotary vane Vacuum Pumps

Ultimate Pressure :
$6.7\text{-}10^{-3}$ hPa (mbar)

Nominal pumping speed 50 Hz:
2.9-90 m3/hr

Technical Data

Dry Claw Vacuum Pumps and Compressors

Ultimate Pressure:
20 – 200 hPa (mbar)
Nominal pumping speed 50 Hz:
40-950 m3/hr

Dry Screw Vacuum Pumps

Ultimate Pressure:
0.01 – 1 hPa (mbar)

Nominal pumping speed 50 Hz:
110-2000 m3/hr

Dry-Running Rotary Vane Vacuum Pumps and Compressors

Ultimate Pressure:
100 – 150 hPa (mbar)
Nominal pumping speed 50 Hz:
3 -140 m3/hr

Technical Data

Scroll Vacuum Pumps

Ultimate Pressure:
0.01 – 0.025 hPa (mbar)
Nominal pumping speed 50 Hz:
15-35 m3/hr

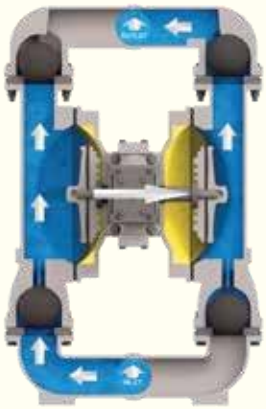
Vacuum Booster

Pressure: Differential :
Δp max. 100 hPa (mbar)
Nominal pumping speed 50 Hz:
230-9535 m3/hr

Side Channel Blower / Ring Blower

Pressure: Differential :Δp max.
Vacuum: -500 hPa (mbar)
Nominal pumping speed 50 Hz:
40 -2,640 m3/hr

Air Operated Double Diaphragm (AODD) Pumps



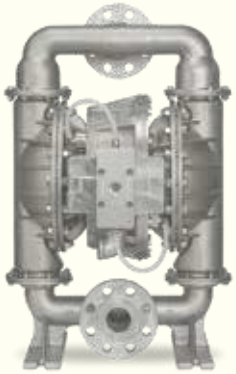
AODD

Air-Operated Double-Diaphragm (AODD) pumps are classified as reciprocating, positive-displacement-style pumps. They operate by displacing fluid from one of its two liquid chambers upon each stroke completion. To operate, the diaphragm pumps require a given amount of pressure and air volume to deliver the proper amount of fluid. The simple genius of the AODD pump design means that there are only a few wetted parts that are dynamic: the two diaphragms, which are connected by a common shaft, the two inlet valve balls and the two outlet valve balls. These pumps widely confirm to API 676, 3rd edition and are ATEX and CE certified.

Technical Data

Flow Rate	Up to 60 m3/h	Pressure	Up to 10 Bar
Viscosity	Up to 10,000 cST	Temperature	Up to 80˚C

Aluminium Body



Stainless Steel Body

PP or PVDF Body

Design Features

Dry-run without damaging the pump or system	Submersible, can be submerged completely without safety or performance issues
Self-priming, works in suction lift applications	Sealless design, no expensive mechanical seals or packing are required
Deadheads safely, with no pump or product damage	Variable flow and head pressures, without sophisticated controls
Shear sensitive, does not shear or separate product being pumped	Optional bottom discharge porting depending on fluid characteristics

Material Composition

Housing Components : Aluminium, Stainless Steel, Polypropylene, PVDF
Diaphragm : Nitrile, EPDM, PTFE, Teflon
Valve Balls : Stainless Steel, PTFE, Santoprene
Valve Seats : Rubber, PVDF, Polypropylene

Centrifugal Pump

Etanorm

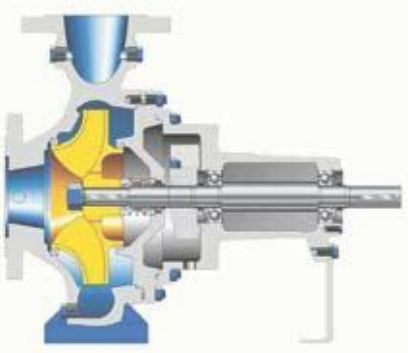
Horizontal volute casing pump, single stage with power ratings and main dimensions to EN 733 up to DN 200 with bearing bracket, in back pull out design. Back pull-out design helps to dismantle the pump keeping the casing in the pipe line. Shaft with replaceable shaft sleeve / shaft protecting sleeve in the shaft seal area. Volute casing and impeller with replaceable wear rings. Volute casing with integrally cast pump feet. Pump is incorporated with grease lubricated robust deep-groove ball bearing and mechanical seal to EN 12756 or gland packing. The efficient operation of a centrifugal pump relies on the constant, high speed rotation of its impeller. With high viscosity feeds, centrifugal pumps become increasingly inefficient: there is greater resistance and a higher pressure is needed to maintain a specific flow rate. In general, centrifugal pumps are therefore suited to high capacity pumping applications of liquids with viscosities between 0.1 and 200 cP. This pump is suitable for Handling clean and clear fluids not chemically and mechanically aggressive to the pump materials.

Technical Data

Fluid to be Handled	Clean & Clear Water	Max. Flow rate	660 m3/h
Connection Type	Flange	Min. Flow rate	1.5 m3/h
Drive Connect with	Motor / Combustion Engine	Max Head	160 M
Casing Material	Grey cast iron JL 1040 / SS 316 (CF8M)	Min Head	2 M
Impeller Material	Grey cast iron JL 1040 / SS 316 (CF8M)	Max. Allowed Working Pressure	16 bar
Shaft Material	Tempering Steel C 45 / SS 1.4462	Max. Allowed Fluid Temperature	120 °C
Bearing Bracket	Grey cast iron JL 1040	Min. Allowed Fluid Temperature	-30 °C
Shaft Seal Type	Mechanical Seal / Gland Packing	Mains Frequency	50 Hz.
Suction Behavior	Non Self-Priming	Mains Voltage	220 V / 440 V

Main Applications

Water supply systems	Irrigation systems
Cooling circuits	Drainage systems
Swimming pools	Heating systems
Fire-fighting systems	Air-conditioning systems



Submersible Pump

CORA, BPD, BPHA, BPN

Submersible pump sets are Single stage or multi-stage single entry centrifugal pumps of ring section type with radial or mixed flow impellers connected by means of a sleeve coupling to a water filled, rewindable type AC induction motor. Pumps with radial flow impellers have renewable diffusers. Pumps with mixed flow impellers have guide vanes cast in the bowls. The different stages are connected by hook bolts in the case of radial flow pumps and bolted together in case of mixed flow pumps. The plain bearings are water lubricated. Suction casing between the pump and the motor is fitted with a suction strainer to prevent the ingress of coarse impurities. The motors are of water filled, rewindable type. The inside of the motor is sealed against the external medium by double oil seals (in back to back arrangement). The design is such as to facilitate easy dismantling and cleaning of parts.

Technical Data

Pump Type	Motor Type	Motor Rating		Well Dia	Cable Size	Supply Voltage	Rated Current	Delivery Dia		Discharge (m3/hr.)				
CORA	**UMAI / XUMA-VX**	**kW**	**HP**	**Inch.**	**Sq. mm**	**DOL**	**A**	**Inch.**		**1.1**	**1.6**	**2.0**	**2.5**	**2.8**
2c / 11	(S) 100-0.75/22	0.75	1	5	1.5	200	5.6	1.25		60	52	45	33	24
										2.0	3.0	4.0	5.0	6.0
4c / 17	(S) 100-2.2/22	2.2	3	5	2.5	200	15.5	1.5		101	94	84	70	53
										4.0	5.5	7.0	8.5	10
7c / 10	(S) 100-1.5/22	1.5	2	5	2.5	200	11.5	1.5		60	55	48	38	22
7c / 15	(S) 100-2.2/22	2.2	3	5	2.5	200	15.5	1.5	Head (M)	90	83	72	57	33
7c / 19	100-3.0/22	3	4	5	2.5	400	7.4	1.5		114	105	91	72	42
7c / 22	100-4.5/22	4.5	6	5	2.5	400	12.4	1.5		132	121	106	84	48
										6	8	10	12	14
12c / 10G	(S) 100-10/22	2.2	3	5	2.5	200	15.5	2		59	53	45	36	26
12c / 17	100-3.7/22	3.7	5	5	2.5	400	9.2	2	Head (M)	99	90	77	62	44
12c / 21	100-4.5/22	4.5	6	5	2.5	400	12.4	2		123	111	95	76	55
12c / 27	100-5.5/22	5.5	7.5	5	2.5	400	14.3	2		158	142	122	98	70
										9	12	16	20	24
18c / 5	100-1.5/22	1.5	2	5	2.5	200	11.5	2.5		25	22	19	14	8
18c / 7G	(S) 100-10/22	2.2	3	5	2.5	200	15.5	2.5		35	31	26	20	11
18c / 9	100-3.0/22	3	4	5	2.5	400	7.4	2.5	Head (M)	45	40	34	25	15
18c / 14	100-3.7/22	3.7	5	5	2.5	400	9.2	2.5		70	63	52	39	23
18c / 17	100-4.5/22	4.5	6	5	2.5	400	12.4	2.5		85	76	63	48	28
18c / 20	100-5.5/22	5.5	7.5	5	2.5	400	14.3	2.5		99	90	75	56	32

Pump Type	Motor Type	Motor Rating		Well Dia	Cable Size	Starting method	Rated Current	Delivery Dia		Discharge (m3/hr.)							
BPD	**UMA I/ H**	**kW**	**HP**	**Inch.**	**mm2**		**A**	**Inch**		**20**	**26**	**30**	**36**	**40**	**45**	**50**	
273 / 3	(S) 150 3/22	3.7	5	8	4	DOL	28	3		31	29	28	25	22	19	15	
273 / 4A	150 4/22	4.5	6	8	2.5	DOL	10	3		37	35	33	29	26	22	17	
273 / 4	150 6/22	5.5	7.5	8	2.5	DOL	11.8	3		41	39	37	33	30	25	20	
273 / 6	150 8/22	7.5	10	8	2.5	S/D	15.6	3	Head (M)	62	58	55	49	44	38	30	
273 / 8	150 13/22	11	15	8	4	S/D	22	3		83	78	73	65	59	51	40	
273 / 10	150 21/21	15	20	8	4	S/D	33	3		104	97	92	82	74	63	51	
273 / 12	150 24/21	18.5	25	8	6	S/D	40	3		124	116	110	98	89	76	61	

BPD	**UMA I/ H**	**kW**	**HP**	**Inch.**	**mm2**		**A**	**Inch**		**30**	**40**	**45**	**50**	**55**	**60**	**65**	**70**
302 / 4A	150 6/22	5.5	7.5	8	2.5	DOL	11.8	3		29	26	25	23	21	18	15	12
302 / 4	150 8/22	7.5	10	8	2.5	S/D	15.6	3		39	35	33	30	27	24	20	16
302 / 5	150 9/22	9.3	12.5	8	2.5	S/D	18.5	3		49	44	41	38	34	30	26	21
302 / 6	150 13/22	11	15	8	2.5	S/D	22	3	Head (M)	59	53	49	45	41	36	31	25
302 / 7	150 13/22	11	15	8	2.5	S/D	22	3		68	61	57	53	48	42	36	29
302 / 8	150 21/21	15	20	8	4	S/D	33	3		78	70	66	60	55	48	41	33
302 / 10	150 24/21	18.5	25	8	4	S/D	40	3		98	88	82	76	69	60	51	41

Submersible Pump

KSB

Main Applications	Special Features
Industrial Water Supply	High Efficiency
Domestic Water Supply	Lower Power Consumption
High Rise Building	Special Thrust Bearing Design
Fire Fighting	Water Cooled
Drip Sprinkler System	Noiseless
Irrigation	Easily Rewindable

Technical Data

Pump Type	Motor Type	Motor Rating		Well Dia	Cable Size	Starting method	Rated Current	Delivery Dia		Discharge (m3/hr.)								
BPHA	UMA I/H	Kw	HP	Inch.	mm²		A	Inch		30	40	50	60	70	80	90	100	110
333/2E	150-6/22	5.5	7.5	10	2.5	DOL	11.8	4	Head (M)	-	-	27	25	23	19	16	-	-
333/2D	150-8/22	7.5	10	10	2.5	S/D	15.6	4		-	-	35	33	31	29	25	-	-
333/2C	150-13/22	11	15	10	4	S/D	22	4		-	-	37	36	34	31	27	-	-
333/3C	150-21/22	15	20	10	4	S/D	33	4		-	60	58	56	52	48	42	35	-
333/3F	150-24/22	18.5	25	10	6	S/D	40	4		-	62	60	58	56	52	48	43	-
333/4C	HBC 303	22	30	10	6	S/D	43.5	4		-	80	77	75	69	64	56	47	40
333/5C	HBC 413	30	41	10	10	S/D	58.5	4		-	100	96	93	86	80	70	58	-
333/6C	HBC 523	38	52	10	16	S/D	74.5	4		-	120	116	112	104	96	84	70	-
BPH A	UMA I/H	Kw	HP	Inch.	mm²		A	Inch		50	60	70	80	90	100	110	120	130
384/2F	150-13/22	11	15	12	2.5	S/D	22	5	Head (M)	-	-	39	37	35	32	-	-	-
384/2D	150-21/21	15	20	12	4	S/D	33	5		48	47	46	44	41	38	35	-	-
384/2	150-24/21	18.5	25	12	6	S/D	40	5		52	51	49	46	43	41	32	-	-
384/3G	150-24/21	18.5	25	12	6	S/D	40	5		62	60	58	56	52	48	43	37	30
384/3D	HBC 303	22	30	12	6	S/D	43.5	6		72	70	69	66	63	60	55	48	41
384/4D	HBC 413	30	41	12	10	S/D	58.5	6		96	93	92	88	84	80	73	64	55
384/5D	HBC 523	38	52	12	16	S/D	74.5	6		113	110	106	103	98	90	84	-	-
384/6D	NB 623	46	62	12	16	S/D	88	6		135	129	123	118	111	103	94	-	-
384/7D	NB 753	55	75	12	25	S/D	106	6		145	137	130	124	118	110	100	-	-

Pump Type	Motor Type	Motor Rating		Well Dia	Cable Size	Starting method	Rated Current	Delivery Dia		Discharge (m3/hr.)								
		kW	HP	Inch.	mm²		A	Inch				100						
374/2	HBC 303	22	30	14	6	S/D	43.5	6	Head (M)	52	51	50	49	48	45	42	38	
374/3	HBC 523	37	52	14	16	S/D	74.5	6		80	79	78	75	71	66	60	55	
374/4	NB 623	46	62	14	16	S/D	88	6		100	99	98	94	90	85	78	75	
374/4	NB 753	55	75	14	25	S/D	106	6		105	104	103	100	95	90	81	78	
374/5	NB 853	63	85	14	25	S/D	120	6		135	132	128	125	120	110	100	92	
374/6	NB 1003	75	100	14	35	S/D	142	6		160	150	145	140	135	125	111	100	
		kW	HP	Inch.	mm²		A	Inch										
394/1	HBC 253	18.5	25	14	6	S/D	40	6	Head (M)	29	28	27	26	26	25	24	22	19
394/2	HBC 413	30	41	14	10	S/D	58.5	6		56	56	55	54	52	50	47	44	38
394/3	NB 623	46	62	14	16	S/D	88	6		82	81	81	80	80	78	75	70	55
394/4	NB 853	63	85	14	25	S/D	120	6		112	110	109	108	106	102	100	98	75
394/5	NB 1003	75	100	14	35	S/D	142	6		140	139	138	132	130	125	120	115	98
394/6	NB 1253	93	125	14	35	S/D	177	6		165	165	163	160	155	150	145	140	120
		kW	HP	Inch.	mm²		A	Inch										
425/1	HBC 303	22	30	16	6	S/D	43.5	6	Head (M)	30	30	30	29	28	27	25	22	18
425/2	NB 623	46	62	16	16	S/D	88	6		65	64	63	62	61	58	56	52	38
425/3	NB 853	63	85	16	25	S/D	120	6		90	90	88	84	80	78	74	70	50
425/3	NB 1003	75	100	16	35	S/D	142	6		95	94	92	90	87	85	80	75	55
425/4	NB 1003	75	100	16	35	S/D	142	6		125	124	122	119	115	109	105	95	78

High Pressure Vertical Multistage Pump

DPV/DPVCF

A vertical multistage pump is a centrifugal pump containing two or more impellers. The fluid flows into the inlet of the pump casing where it flows into the eye of the impeller. The rotation of the impeller creates centrifugal force The diffusers are a type of cutwater which direct the fluid into the suction eye of the next impeller. This process continues until the fluid has passed through each impeller stage. The fluid is then directed out the pump casing through a final diffuser and into the pump discharge. Each stage that the fluid passes through increases the discharge pressure. Multistage pumps are used when higher pressures are required which single stage pumps of the same size are unable to attain. Vertical Multistage pumps are installed in applications where higher pressures are required including industrial, commercial, medical, industrial, high-rise buildings, municipal water supply. Its also used in Booster system as well as Boiler feed water transport.

Technical Data

Model	Size in mm		Motor Rating		Head	Discharge
DPV/DPVCF	Suc.	Del.	KW	HP	M	m3 / hr.
DPVCF 2/5B	25	25	0.37	0.5	40-10	0.5-3.5
DPVCF 2/8B			0.55	0.75	58-15	
DPVCF 2/18B			1.5	2	138-45	
DPVCF 2/24B			2.2	3	182-60	
DPVCF 4/4B	25	25	0.55	0.75	32-9	1-7
DPVCF 4/5B			0.75	1	42-15	
DPVCF 4/7B			1.1	1.5	50-22	
DPVCF 4/10B			1.5	2	88-35	
DPVCF 4/14 B			2.2	3	122-50	
DPVCF 4/20 B			3	4	180-88	
DPVCF 4/26 B			4	5.5	232-100	
DPVCF 6/5B	32	32	1.1	1.5	48-20	2-10
DPVCF 6/7B			1.5	2	68-40	
DPVCF 6/10B			2.2	3	95-45	
DPVCF 6/14B			3	4	135-68	
DPVCF 6/18 B			4	5.5	175-88	
DPVCF 10/4B	40	40	1.5	2	45-22	2.7-14
DPVCF 10/6B			2.2	3	65-32	
DPVCF 10/7B			3	4	80-42	
DPVCF 10/8B			3	4	88-48	
DPVCF 10/11B			4	5.5	125-65	
DPVCF 10/13B			5.5	7.5	148-82	

Model	Size in mm		Motor Rating		Head	Discharge
DPV/DPVCF	Suc.	Del.	KW	HP	M	m3 / hr.
DPVCF 15/2B	50	50	2.2	3	28-15	5-25
DPVCF 15/3B			3	4	42-25	
DPVCF 15/4B			4	5.5	57-32	
DPVCF 15/5B			5.5	7.5	72-42	
DPVCF 15/6B			5.5	7.5	50-88	
DPVCF 15/7B			7.5	10	102-60	
DPVCF 15/8B			7.5	10	118-70	
DPVCF 25/3B	65	65	5.5	7.5	62-38	7 - 35
DPVCF 25/4B			7.5	10	83-50	
DPVCF 25/5B			11	15	60-105	
DPVCF 40/2B	80	80	7.5	10	28-50	10-54
DPVCF 40/3B			11	15	42-78	
DPVCF 40/4B			15	20	100-58	
DPVCF 60/2	100	100	7.5	10	30-60	10-58
DPVCF 60/2-2B					40-15	19-80
DPVCF 60/2B			11	15	58-30	10-76
DPVCF 85/1B	100	100	7.5	10	28-18	8-112
DPVCF 85/2-1B			15	20	55-30	
DPVCF 85/2B			15	20	58-34	
DPVCF 85/6B			45	60	100-178	

Main Applications

- Water Supply Systems
- High Pressure Water Jet Making
- Pressure Boosting
- Condensate Transport
- Boiler Feed Applications
- Fire-Fighting Systems

Vertical Inline Pump

Etaline

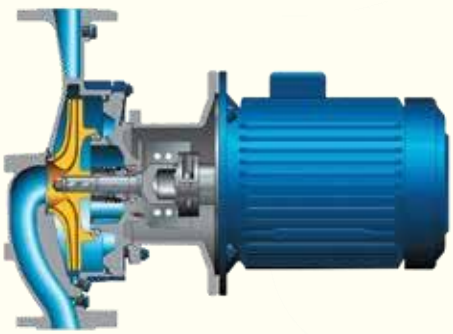
In the Vertical Inline Pumps, the inlet and outlet are inline. This arrangement is typically used where space is limited such as onboard a ship, Generator Jacket Cooling etc. This type of pumps can be made to various designs which include spacer couplings to enable maintenance to be carried out without removal of motors reducing downtime. In monobloc designs, an inline pump will usually have a single shaft connecting the motor to the pump head meaning the motor bearings bear the full rotary load of the shaft during operation. This design of pump is better suited for short duties at full motor speed, and light duties. During maintenance the motor and pump must be disassembled with the mechanical seal refitted at the same time as motor fitting.

Technical Data

Fluid to be Handled	Clean & Clear Water	Max. Flow Rate	400 m3/h
Connection Type	Flange	Min. Flow Rate	2 m3/h
Drive Connect with	Electric Motor	Max. Head	102 M
Casing Material	Grey Cast Iron	Min. Head	2 M
Shaft Material	Tempering Steel C 45 / SS 1.4462	Max. Casing Pressure	16 bar
Impeller Material	Grey Cast Iron	Max. Allowed Fluid Temperature	140 °C
Shaft Seal Type	Mechanical Seal	Min. Allowed Fluid Temperature	-30 °C
Suction Behavior	Non Self-Priming	Mains Frequency	50 Hz.
Pump Type	Monobloc	Mains Voltage	220 V / 440 V

Main Applications

Generator Coolant Circulation	Water Supply
Air-Conditioning Systems	Industrial Recirculation Systems
Cooling Circuits	Heat Recovery Systems
Heating Systems	Service Water Supply Systems



Thermal Oil Transfer Pump

Etanorm SYT

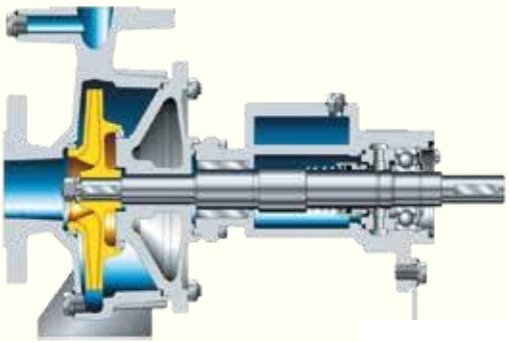
Horizontal volute casing pump in back pull-out design, single-stage, with ratings and dimensions to EN 733, radially split volute casing with integrally cast pump feet, replaceable casing wear rings, closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756, double mechanical seal to EN 12756, drive-end bearings. The Etanorm SYT single-stage volute casing pumps from KSB now include a stable rib design and reinforced bearings which makes them resistant to external forces, making them suitable for the transfer of efficient synthetic oils. The Etanorm SYT range now also features a new vent design through which gases can be removed during operation. For very critical fluids a variant with double mechanical seal has been introduced. The Etanorm SYT single-stage volute casing pumps from KSB are suitable for applications in modern heat transfer systems and hot water circulation and are suitable for the transfer of hot water as well as mineral oil based thermal fluids and synthetic thermal oils at temper-tures of up to 350°C.

Technical Data

Fluid to be Handled	Mineral and Synthetic Thermal Oil	Allowed Fluid Temperature	For Thermal Oil up to 350°C
Connection Type	Flange	Allowed Fluid Temperature	For Hot Water up to 180°C
Drive Connect with	Motor / Combustion Engine	Min. Allowed Fluid Temperature	-30°C
Casing Material	EN-GJS-400-15 / A 536 GR 60-40-18	Max. Flow Rate	754 m3/h
Impeller Material	EN-GJL-250 / A 48 CL 35B	Min. Flow Rate	1.5 m3/h
Shaft Material	1.4021 + QTHRC55	Max Head	102 M
Shaft Seal Type	Mechanical Seal	Max. Pressure	16 Bar
Suction Behavior	Non Self-Priming	Mains Frequency	50 Hz.
Pump Type	Bare Shaft Pump	Mains Voltage	220 V / 440 V

Main Applications

Thermal Oil Transfer
Hot Water Transfer
Thermal Boiler
High Temperature Liquid Transfer



Horizontal Multistage Pump

WK / WL / MOVI / MULTITEC

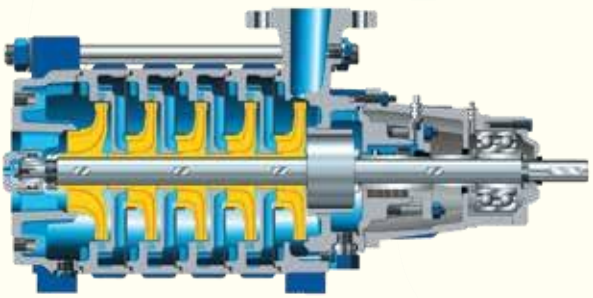
Horizontal Multistage Centrifugal Pump in ring-section design, long-coupled or close-coupled, with axial or radial suction nozzle, cast radial impellers and motor-mounted variable speed system. Multistage pumps are defined as pumps in which the fluid flows through several impellers fitted in series. The head of a single-stage centrifugal pump is largely governed by the type of impeller and the circumferential speed. If the rotational speed cannot be increased due to other operating conditions and a larger impeller diameter would lead to very low specific speeds resulting in uneconomical efficiencies, fitting several stages in series can be an economic option of increasing the head. If the number of stages is altered at unchanged dimensions and speeds, the flow rate of such a multistage pump remains constant while the power input and head increase proportionally to the number of stages. This type of pump is often used in power station applications, e.g. as a boiler feed pump and in industrial applications requiring high pressures.

Technical Data

Fluid to be Handled	Clean & Clear Water	Max. Flow Rate	630 m3/h
Connection Type	Flange	Min. Flow Rate	1.5 m3/h
Connection Type	Motor / Combustion Engine	Max Head	800 M
Casing Material	Grey Cast Iron	Min. Head	2 Bar
Impeller Material	Grey Cast Iron	Max. Working Pressure	63 Bar
Shaft Material	1.4408 / A743 Gr. CF8 M	Max. Allowed Fluid Temperature	230 °C
Shaft Seal Type	Mechanical Seal	Min. Allowed Fluid Temperature	-10°C
Suction Behavior	Non Self-Priming	Mains Frequency	50 Hz.
Pump Type	Bare Shaft Pump	Mains Voltage	220 V / 440 V

Main Applications

Water Supply Systems	Condensate Transport
High Pressure Water Jet Making	Boiler Feed Application
Pressure Boosting System	Fire-Fighting System
Sprinkler Irrigation System	High-Rise Building



Turbo Blower & Compressor

TURBOWIN - WH SERIES : Air-Bearing Turbo Compressor

WH Series is based on air foil bearing technology covering pressure range from 1.5kgf/m² to 9.0kgf/m²

Features:

1. Energy Saving

Traditional piston and screw compressors come with steep expenses for installation, maintenance, and energy usage. In contrast, the WH series compressors need only filters as consumables and boast an impressive 57.5% energy-saving efficiency.

2. Effective Cooling System

Thanks to Turbowin's patented dual cooling system, there's no need for an extra cooling system, and even the inverter operates with air cooling. Compressors exceeding 4 bars in high pressure come equipped with an inter/after cooling system.

3. Simplified Structure

Turbowin's turbo compressor products were conceived by a pioneer in the turbo industry, known for introducing the world's first air-bearing-based turbo blower and turbo-compressor. These products boast an optimized structure and design.

TURBOWIN - WL SERIES : Air Bearing Turbo Blower

WL Series stands out as an exceptionally efficient zero-oil turbo blower, boasting a remarkable efficiency of up to 57.5%. With a power range spanning from 10 to 1,200 HP, it establishes itself as the most dependable turbo blower in its class. This extensive range provides a unique and unparalleled solution, setting it apart from other alternatives.

Features:

Energy Saving

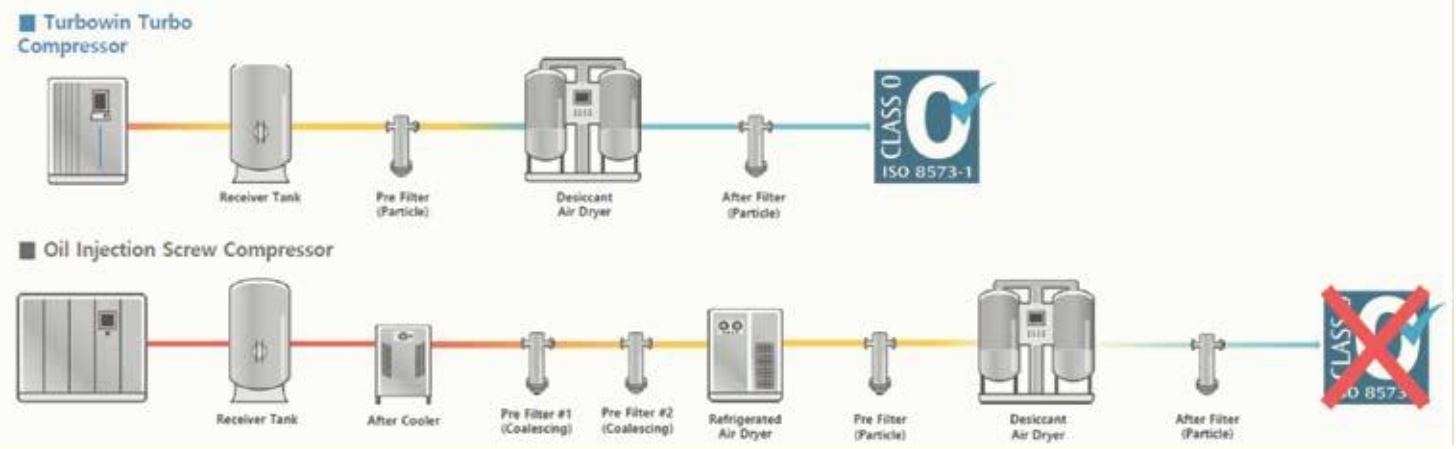
In contrast to competitors, Turbowin's equipment provides a turndown ratio of 40~100%, a range approximately 30% broader than that of our rivals. This expanded range not only significantly diminishes energy consumption during partial loads but also enhances user convenience, reduces costs, and maximizes overall efficiency.

Low Vibration & Soft Noise

Characterized by minimal vibration at just 1mm/s and a low noise level of 75±5 dB, this system ensures a quiet and smooth operational experience.

Explosion Proof Certified

Air Quality: WH Series vs Oil Injection Screw Compressor· ISO 8573 - Air Quality Class



Deep Tube-well & Recharge Well

We offer a wide range of machine made bore well drilling for domestic, institutional, organizational and industrial requirements.

We also offer

- Removal & Lowering of Submersible Pump.
- De-silting, flushing and cleaning of existing bore wells by Jet wash or Chemical wash.

Fire Fighting System (Protection & Detection)

We are committed to providing the most comprehensive and reliable fire fighting equipment and services to protect lives and properties. Our customers can be assured by the best design, manufacturing to delivery, installation, training and support services to ensure optimum performance of the systems.

Auto Pressurized Water Supply (Booster) System

Fully automatic pressure boosting package unit with horizontal / vertical high pressure pumps, with continuously variable speed adjustment of any pump for fully electronic control to ensure the required supply pressure.

Capacity (Q)	: Up to 650 m3/hr.
Head (H)	: Up to 250 M
Pump Brand	: DP, Holland

Customised Vacuum System Solutions

Service – Tailored to Your Needs

- Customize Vacuum System for Pharma, Chemical Industrial and Process applications.
- Medical Vacuum Systems
- Medical Air Systems
- Anaesthetic and others gases
- Vacuum degassing systems
- Medical vacuum filters
- Field Service
- Rental Service
- Vacuum Consultancy
- Annual Service Contact
- Genuine Spare Parts

Water Treatment Plant

Water Treatment Plant is a process that makes water more acceptable for a specific end-use. The end used may be drinking water, industrial water or others supply.

- RO
- DM Plant
- Sand Filter

Solar System

We are a professional green energy solution provider, who are committed to providing renewable energy service for customers in Residential, Government and Industrial sectors. Our business covers project development, design, installation, operation and maintenance of Solar Power System.

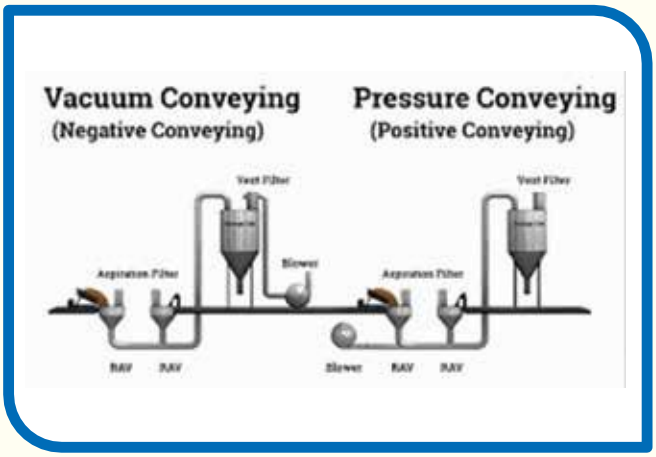
We are Supplying

- On-Grid Solar System
- Off-Grid Solar System
- Irrigation Pump with Solar System
- Street Light with Solar System

Material Handling Systems

Our Solutions Includes:

- Pneumatic Conveying
- Powder Handling Systems
- Dust Collecting Systems
- Seabulk Container loading / unloading process
- Dense Phase Conveying Systems
- Bulk Bag Unloading Systems
- Silo Storage
- Closeloop Nitrogen Conveying Systems
- Weighing & Batching
- Packing & Palletizing



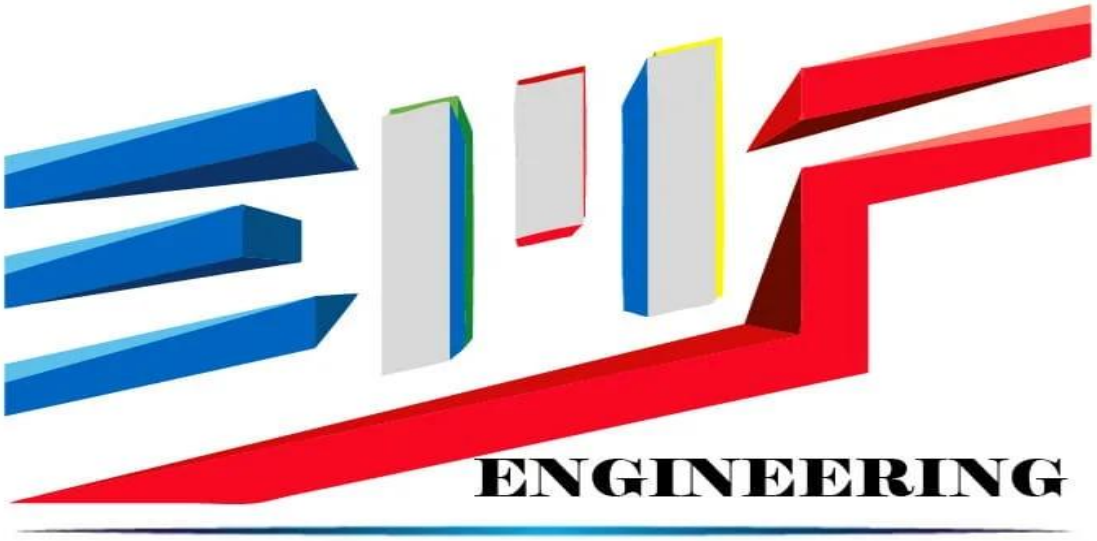
Process Solutions

Our Solutions Includes:

- Dryer
- Evaporator
- Heat Exchangers
- Distillation Columns
- Short Path Distillation Unit
- Skids / Pilot Units
- Extraction Units
- Zero Discharge System
- Filters
- Freeze Dryer

Our Major Clients

- Public Works Department
- Department of Public Health Engineering
- Bangabandhu Sheikh Mujibur Rahman Aviation and Aerospace University
- Dhaka Mass Transit Company Limited
- Essential Drugs Company Limited
- Bangladesh Agriculter Development Corporation
- Italian Thai Development Ltd.
- Bangladesh Edible Oil Limited
- Berger Paints Bangladesh Ltd.
- icddr,b
- ACI Godrej Agrovet Private Ltd.
- Social Marketing Company
- LafargeHolcim Bangladesh PLC
- DHL Global Forwarding Bangladesh
- PRAN-RFL Group
- Dhaka Bank PLC.
- Eskayef Pharmaceuticals Limited
- Naafco Pharma Ltd.
- Akij Group
- United Group
- S. Alam Group
- M&J Group
- Ispahani Group
- Abdul Monem Group
- AJI Group
- ACI Group
- BHL Ceramic
- BRAC University
- PHP Group
- Abul Khayer Group
- Noman Group
- Thermax Group
- Saiham Group
- Standard Group
- Younus Group
- Rashid Group
- SIM Group
- Doreen Group
- Confidence Infrastructure Ltd.
- Duncan Brothers Bangladesh Ltd.
- Youth Group
- Masood & Company Limited
- The Engineers & Architech Ltd.
- Innstar Ltd.
- Suvastu Properties Ltd.
- Sena Kalyan Sangstha
- Dhaly Construction Ltd.
- Max Group
- Pacific Jeans
- MBM Group
- AKH Group
- Ananta Group
- Union Group
- Charu Ceramic Industries Ltd.
- Dhaka-Shanghai Ceramics Ltd.
- Star Ceramics Ltd.


ENGINEERING