



P.N.V. INNOTECH CO.,LTD.

PUMP & VACUUM SPECIALIST

NEW!





P.N.V. INNOTECH CO.,LTD.

We are the authorized distributor and complete solution provider of the World leading Water pumps, Slurry pumps, Vacuum pumps and Air blower.

Currently, the company represent GD - Robuschi, GD - Elmo Rietschle, Weir warman, Weir floway, Torishima, SPXflow - Johnson, Orbit, Wilo and Duraflow.

Company mission is to provide total solutions which exceed our customers expectation with excellent services. The company offers wide-range of services such as designing, installation, commissioning and after sales services.

We would like to thank you all of you for your trust in our products and services, we are confident that you will be satisfied with the products and services forever.

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Rotary Lobe Blowers - From Italy

Pressure - Vacuum



RBS



ROBOX Evolution



CRBIO - GRBIO

MODEL	:	RBS	ROBOX Evolution	CRBIO - GRBIO
Type	:	Positive Displacement Air Blower	Reduce Sound Compact Blower	Blower packages on skid For BIO GAS
Pressure(Max.)	:	1,000 mbar(g)	1,000 mbar(g)	400 mbar(g)
Vacuum(Max.)	:	500 mbar(a)	500 mbar(a)	500 mbar(a)
Capacity(Max.)	:	25,000 m³/hr	10,400 m³/hr	3,850 m³/hr
Discharge size	:	50 - 500 mm	50 - 300 mm	50 - 200 mm
Material	:	Cast iron ,Stainless steel and Cast iron chemical coating		
Qualification	:	Robuschi provides premium rotary lobe blowers at varying pressures above atmospheric up to 1,000 mbar(g) and for vacuum duties up to 100 mbar(a) along with maximum air flow of 25,000 m³/hr. The large number of models, sizes, options, configurations available provides solutions for most industrial applications.		

Low Pressure Screw Compressors - From Italy

Pressure - Vacuum



RSW



ROBOX Screw Low - High Pressure



ROBOX Screw Vacuum



ROBOX energy

MODEL	:	RSW	ROBOX Screw Low - High Pressure	ROBOX Screw Vacuum	ROBOX energy
Type	:	Low pressure oil-free screw compressor	Highly efficient oil-free screw compressor unit	Highly efficient compressor unit in vacuum operation	Highly efficient screw compressor unit permanent magnet motor
Pressure(Max.)	:	2,500 mbar(g)	1,000 - 2,500 mbar(g)	N/A	1,000 mbar(g)
Vacuum(Max.)	:	N/A	N/A	300 mbar(a)	N/A
Capacity(Max.)	:	12,500 m³/hr	10,500 m³/hr	8,700 m³/hr	4,200 m³/hr
Discharge size	:	100 - 300 mm	100 - 300 mm	100 - 300 mm	100 - 200 mm
Material	:	Cast iron And Cast steel			
Qualification	:	Robuschi's latest product innovation is the Low Pressure Screw Compressor range, available in high pressure up to 2,500 mbar(g), low pressure up to 1,000 mbar(g) and vacuum up to 300 mbar(a) configurations with a maximum air flow of 10,500 m³/hr. The ROBOX energy RSW "core" (patent) with the innovative motor with Permanent Magnets and integrated electrical panel, offering maximum efficiency, compactness, simple maintenance.			

Rotary Lobe Blowers - From Italy

Vacuum



RB - DV



TRB - DV



MODEL	:	RB-DV	TRB-DV
Type	:	Vacuum PD Blower	Vacuum PD Blower Compact for Vacuum Truck
Vacuum(Max.)	:	100 mbar(a)	100 mbar(a)
Capacity(Max.)	:	10,500 m ³ /hr	550 - 1,000 m ³ /hr
Discharge size	:	80 - 300 mm	80 - 300 mm
Material	:	Cast iron	
Qualification	:	RB-DV series of rotary three lobe PD blowers can operate at high vacuum levels thanks to a Robuschi patented device that injects atmospheric air. TRB-DV are completely assembled compact group sets with noise enclosure developed for vacuum truck handling wet and /or dry waste. It is possible to install this group with up to 5° degree tilt. Power take off connection can be made by either hydraulic motor and or V- belt transmission.	

Rotary Lobe Blowers - From Italy

Pressure-Vacuum



RBS/AV



BIOGAS (Blower package)



CRBS - GRBS

MODEL	:	RBS/AV	BIOGAS(Blower Package)	CRBS - GRBS
Type	:	High Vacuum Blowers	Compack Blower For BIO GAS	Complete Set Havy Duty Compack Blower
Pressure(Max.)	:	N/A	1,000 mbar(g)	1,000 mbar(g)
Vacuum(Max.)	:	0.001 mbar(a)	500 mbar(a)	500 mbar(a)
Capacity(Max.)	:	9,400 m ³ /hr	2,850 m ³ /hr	25,000 m ³ /hr
Discharge size	:	80 - 200 mm	50 - 200 mm	300 - 500 mm
Material	:	Cast iron ,Stainless steel and Cast iron chemical coating		
Qualification	:	Robuschi provides premium rotary lobe blowers at varying pressures above atmospheric up to 1,000 mbar(g) and for vacuum duties up to 100 mbar(a) along with maximum air flow of 25,000 m ³ /hr. The large number of models, sizes, options, configurations available provides solutions for most industrial applications.		

Chemical Process Pump (PROCHEM) [UNI EN 22858 STANDARD] - From Italy



RN - RNS



RKNS



E - LIQUIDS

MODEL	:	RN - RNS	RKNS	E-Liquids
Type	:	High fluid dynamics efficiency, Centrifugal pumps with closed impellers	Heavy duty solution, Centrifugal pumps with Semi opened	Clear water pumping centrifugal pumps with axial inlet.
Head(Max.)	:	140 m	60 m	95 m
Temp(Max)	:	280 °C	280 °C	90 °C
Capacity(Max.)	:	2,600 m ³ /hr	110m ³ /hr	110m ³ /hr
Discharge size	:	32 - 300 mm	32 - 50 mm	32 - 2000 mm
Material	:	Cast iron, 304 Stainless steel, 316 Stainless steel		
Qualification	:	The PROCHEM pumps are single-stage horizontal centrifugal pumps with axial inlet, designed in conformity with UNI EN 22858 standards.		

- RN - RNS : innovative components assure an high fluid dynamics efficiency.

- RKNS (Non clogging) : Heavy duty solution for suspended crystals, muddy and/or viscous liquids.

- E : pumps are single-stage horizontal centrifugal pumps for clear water pumping.

Process Pump For Slurry Application (PROMIX) - From Italy



RACN(S)



RCN(S)



RCPN(S)



RKC(S)

MODEL	:	RACN-RACNS	RCN-RCNS, RCPN-RCPNS	RKC-RKCS
Head(Max.)	:	80 m	75 m	75 m
Temp(Max.)	:	170 °C	170 °C	170 °C
Capacity(Max.)	:	2,000 m ³ /hr	1,000 m ³ /hr	700 m ³ /hr
Discharge size	:	80 - 300 mm	65 - 200 mm	65 - 200 mm
Material	:	Cast iron, Stainless Steel		
Qualification	:	The PROMIX pumps are single stage horizontal centrifugal pumps with axial inlet, designed to pump all types of chemically inert or aggressive liquid, also viscous liquid, and those containing high percentage of solid particles in suspension, and slurry.		

- RACN-RACNS centrifugal pumps open channel impeller.

- RCN-RCPN / RCNS-RCPNS series with closed channel impeller.

- RKC - RKCS series with open type installed in recessed position.

Liquid Ring Vacuum Pumps - From Italy

Pressure-Vacuum



RVS



ORVS



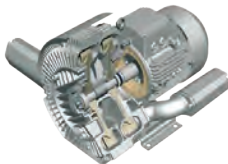
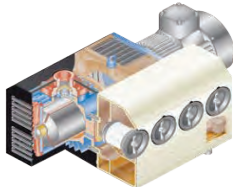
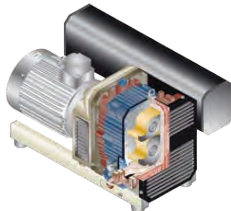
LRVS - CRVS



KRVS

MODEL	:	RVS	ORVS	LRVS - CRVS	KRVS
Type	:	Water Recirculation	Oil Recirculation	Water Recirculation	Water Recirculation
Pressure(Max.)	:	2,000 mbar(g)	N/A	2,000 mbar(g)	2,000 mbar(g)
Vacuum(Max.)	:	33 mbar(a)	10 mbar(a)	33 mbar(a)	33 mbar(a)
Capacity(Max.)	:	4,200 m³/hr	800 m³/hr	4,200 m³/hr	4,200 m³/hr
Discharge size	:	25 - 200 mm	25 - 100 mm	100 - 200 mm	40 - 200 mm
Material	:	Cast iron, Stainless Steel, Bronze			
Qualification	:	Robuschi offers single stage liquid ring vacuum pumps, capable of achieving up to 33 mbar(a) and of sucking gas and vapor without contamination from lubricants and with nearly isothermal gas compression. Thanks to its construction features, the vacuum series assures reduced water consumption, low noise and vibrations, minimum maintenance. The range includes complete units (KRVS, CRVS, LRVS), especially developed for the vacuum generation in different sectors.			

Screw Vacuum Pumps - From Germany

				
Model :	Side Channel	Rotary Vane	Claw	Screw
Type :	Pressure & Vacuum	Pressure & Vacuum	Pressure & Vacuum	Vacuum
Capacity (Max.)	2,500 m³/hr	1,500 m³/hr	1,000 m³/hr	720 m³/hr
Pressure (Max.)	1 bar(g)	1.5 bar(g)	2.2 bar(g)	N/A
Vacuum(Max.)	350 mbar(a)	0.1 mbar(a)	50 mbar(a)	0.05 mbar(a)
Material	Cast iron, Ductile iron, Bronze, Stainless steel Special material (Duplex SS., Cast steel, Ni resist, Alloy steel)			
Qualification	Elmo Rietschle, are a recognized leader providing compressed air and gas, vacuum and fluid technologies to industries throughout the world. Offering an outstanding range of side channel blowers, dry running and oil lubricated rotary vane vacuum pumps and compressors, screw vacuum pumps and claw vacuum pumps and compressors.			

End Suction Centrifugal Pumps, Double Suction - From Japan



CAL,CAR



CAM,CAS



CPC



CDM

MODEL	:	CAL,CAR	CAM,CAS	CPC	CDM,CDMV
Application	:	Energy saving for general industries	High head	Chemical & petrochemical industries	High capacity for general industries circulation, Fire-fighting
Head(Max.)	:	100 m	160 m	150 m	300 m
Temp(Max.)	:	-80 to 100°C	-80 to 100°C	Up to 200°C	Up to 80°C
Capacity(Max.)	:	600 m ³ /hr	600 m ³ /hr	1,500m ³ /hr	33,000 m ³ /hr
Discharge size	:	32 - 200 mm	32 - 200 mm	32 - 250 mm	200 - 1,400 mm
Material Casing	:	Cast iron,304 Stainless steel,316 Stainless steel			
Impeller	:	Cast iron,Bronze,304 Stainless steel,316 Stainless steel			
Shaft	:	Stainless steel,Duplex Stainless steel			
Qualification	:	CAL,CAR,CAM,CAS series are high efficiency end-suction volute pump, called Torishima Eco Pump.			

CPC is an end-suction volute pump as per ISO 2858-1975, specially applied for chemical and petrochemical industries.

CDM,CDMV is a horizontal split case suitable for seawater desalination plants, power plants, water and wastewater, water transmission and irrigation etc.

Large Pump, Multi - stage Pumps - From Japan



IS/ISV



SP/SPV



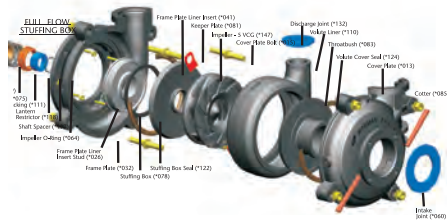
MMK



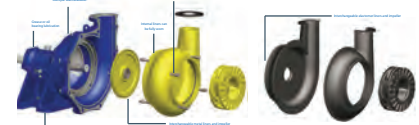
MMO

MODEL	:	IS/ISV	SP/SPV	MMK,MML	MMO
Application	:	Axial-flow flood control	Vertical, mixed-flow for any application	Boiler feed condensate	High pressure application
Head(Max.)	:	5 m	100 m	500 m	400 m
Temp(Max.)	:	40°C	80°C	250°C	110°C
Capacity(Max.)	:	186,000 m ³ /hr	81,600 m ³ /hr	1,800 m ³ /hr	130 m ³ /hr
Discharge size	:	400 - 4,600 mm	300 - 2,800 mm	40 - 350 mm	40 - 800 mm
Material Casing	:	Cast iron, Ductile cast iron, Stainless steel, Duplex SS.			
Impeller	:	Cast iron, Bronze, Stainless steel, Duplex SS.			
Shaft+Sleeve	:	Bronze, Stainless steel, Duplex SS.			
Qualification	:	IS/ISV are axial-flow propeller pumps, mainly applied for drainage pumps in case of low head and large capacity condition. SP/SPV is a vertical, mixed-flow pump suitable for a wide range of application, such as seawater intake pumps for desalination, cooling water pumps for power stations, and drainage pumps, etc. MMK, MML,MMO are horizontal, radially splitting section pumps, single flow.The casings are sealed by flat gasket and held together by the bolts. The stage casing and the tie bolts are encased in a steel cladding.The pump feet are arranged either below the pump or at centre line according to the number of stages and the temperature.			

Heavy Duty Slurry Pump - From Australia



AH



WBH

MODEL	:	AH	WBH
Application	:	Mill discharge, Process pumps, Low pressure tailings	Mill discharge, Process pumps, Low pressure tailing
Pressure(Max.)	:	20.6 bar	20.6 bar
Temp(Max)	:	280 °C	100°C
Capacity(Max)	:	18,000 m³/hr	3,000 m³/hr
Discharge size	:	25 - 1,200 mm	25 - 300 mm
Liner Material	:	Natural rubber, Synthetic rubber, Chrome, Alloy Etc.	
Qualification	:	- AH® pump provides excellent wear life while maintaining efficiency during the wear cycle providing the best total operating cost. - WBH® pump is the world's new standard for heavy duty.	

Axial Flow Pump, Slurry Pump - From Nederland, Australia



Q-Series



XU



TC

MODEL	:	Q-Series	XU	TC
Application	:	Salt & potash, Pulp & paper Chemicals, Metals and mining	General Purpose Slurry Pump	Vortex design to pass larger particles
Pressure(Max.)	:	69 bar	10.3 bar	6 bar
Temp(Max)	:	200 °C	100°C	100°C
Capacity(Max)	:	7,000 m³/hr	2,275 m³/hr	1600 m³/hr
Discharge size	:	700 - 2000 mm	75 - 300 mm	50 - 250 mm
Liner Material	:	Cast iron, Carbon steel Austenitic, Duplex or 6Mo ss., Nickel, Nickel-copper, Nickel-chrome, moly alloys, Titanium		
Qualification	:	- Q-Series Axial Flow Pumps model QCL model is a horizontal elbow design in fabricated construction with separate pump casing. The pump is designed for continuous circulation of fluids. - XU unlined pump is easy to maintain and offers the lowest cost of ownership in its class. - TC/C pump is an uncased design available in erosion resistant materials designed specifically for non-clog and gentle pumping applications.		

Heavy Duty Slurry Pump - From Australia



SP/SPR



WBV



SHW

MODEL	:	SP/SPR	WBV	SHW
Application	:	Slurry Sump Pump	Slurry Sump Pump	Mine dewatering, Mill scale Clean up sumps, Lime slurry
Pressure(Max.)	:	7.4 bar	7.4 bar	12 bar
Temp(Max)	:	100°C	100°C	80°C
Capacity(Max)	:	1,000 m³/hr	1,000 m³/hr	2,275 m³/hr
Discharge size	:	40 - 300 mm	40 - 150 mm	50 - 400 mm
Liner Material	:	Natural rubber, Synthetic rubber, Chrome, Alloy Etc.		
Qualification	:	- SP/SPR® heavy duty cantilever sump pump is designed for applications requiring greater reliability and durability than conventional vertical process pumps. - WBV ultra heavy-duty range of vertical cantilevered slurry pumps sets a new industry benchmark for general sump applications. - SHW Heavy duty all chrome wet end coupled with a submersible motor designed and built by Weir for the most demanding app.		

Vertical Turbine Pump for AWWA, API - 610 & UL/FM Fire Pump - From USA.



VF&VFR

F&FR

VU

VC

Lowlift

A&AF

MODEL	Capacity(Max.)	Temp.	Pressure(Max.)
VC	7,950 m³/hr	- 145 to 450 °C	207 bar
Low-lift	7,950 m³/hr	N/A	2.41 bar
A&AF	1,140 m³/hr	N/A	20.7 bar
VF&VFR	7,950 m³/hr	- 145 to 450 °C	103 bar
F&FR	8,000 m³/hr	- 145 to 450 °C	103 bar
VU	8,000 m³/hr	N/A	13.8 bar



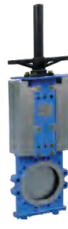
Typical options of construction

- Semi-open or enclosed impellers.
- Bowl and impeller wear rings.
- Thrust balanced impellers (Reduced downthrust on motor bearings)
- Flanged or threaded column pipe.
- Product lubricated, water flush or oil lubricated shafting.

ISOGate Valve & Cavex Hydrocyclone



WS knife gate valves



Isogate® MP CB



Isogate® MP OB



Isogate® AutoBall



Cavex Hydrocyclone

MODEL	:	WS knife gate valves	Isogate® MP CB,OB	Isogate® AutoBall	Cavex Hydrocyclone
Application	:	On/Off Isolation of low pressure slurry to 10 bar, Cyclone Feed, Flotation, Thickener, Underflow.	On/off or throttling control of slurry.	3 way Check valves for slurry dyties	Classification and separation
Pressure(Max.)	:	10.3 bar	10.3 bar	10.3 bar	0.25 bar
Temp(Max.)	:	120°C	100°C	120°C	80°C
Size	:	50 - 600 mm	15 - 600 mm	80 - 600 mm	40 - 1,200 mm
Material	:	Ductile iron	Mild Steel	Mild Steel	Metal rubber lined

Lightnin Mixers



MODEL : Portable and Fixed Mount
The Enhanced Classic Line (ECL) are fixed mount and portable mixers that offer the highest performance and quality, giving our customers an even stronger and more versatile product.



MODEL : Series 10
Durable, versatile, cost-effective, the field proven series 10 unit was designed with minimal maintenance in mind. The largest taper roller bearings in a mixer of this class help produce a B10 life of 100,000 hrs. or greater, the integrated "drywell" and casing design eliminate the risk of oil leakage over the tank or into the product.



MODEL : Series 70 / 80
The workhorse of the Lightnin mixer drive range with over 40,000 placed in service since its introduction in 1970, the 70 series mechanical design technology is the industry's most proven agitator drive technology.



MODEL : A310/A510

Applications

- Varying tip chord angle allows for further optimization of mixer selection
- Maximizes flow generation while minimizing fluid shear
- The A310 is standard for all Lightnin gear drive portable mixers



MODEL : A320/A315

Applications

- High efficiency wide bladed impeller design with high flow/power ratio
- Has also been successfully used for gas handling applications
- Operates at lower torque than a conventional radial flow impeller, thus reducing capital costs



MODEL : A130

Applications

- Half pipe shaped blades improves gas handling over R100 impeller while reducing torque requirements by up to 40%
- Radial design provides shear to achieve good contacting for liquid-liquid and gas-liquid dispersions and emulsions

Centrifugal Pumps : Self-priming, Multistage Pump



MODEL	: FreFlow
Application	: Horizontal, handles gas and particle content
Capacity(Max.)	: 350 m³/hr
Head(Max.)	: 80 m
Pressure(Max.)	: 9 bar
Temp(Max.)	: 95 °C
Materials	: Cast iron, Bronze, Stainless steel



MODEL	: MCH & MCV
Application	: Horizontal & Vertical
Capacity(Max.)	: 100 m³/hr
Head(Max.)	: 340 m
Pressure(Max.)	: 40 bar
Temp(Max.)	: 150 °C (MCH) : 120 °C (MCV)
Materials	: Cast iron, Bronze



MODEL	: MCHZ
Application	: Horizontal, Self-priming
Capacity(Max.)	: 100 m³/hr
Head(Max.)	: 340 m
Pressure(Max.)	: 40 bar
Temp(Max.)	: 120 °C
Materials	: Cast iron

Positive Displacement Pumps : Flexible Impeller, Rotary Lobe Pump



MODEL	: FIP&FB
Application	: Self-priming pumps, industry hygienic stainless steel and bronze versions
Capacity(Max.)	: 37.5 m³/hr
Pressure(Max.)	: 4 bar
Temp(Max.)	: 55°C
Materials	: Bronze, Stainless steel, Polished stainless steel



MODEL	: TopWing
Application	: High hygienic bi-wing & multilobe rotors
Capacity(Max.)	: 156 m³/hr
Pressure(Max.)	: 15 bar
Temp(Max.)	: 150°C (Thermal oil)
Viscosity(Max.)	: 80,000 mPas / cP
Materials	: Stainless steel (316L), Duplex



MODEL	: TopLobe, TopLobePlus
Application	: Hygienic tri-lobe rotors
Capacity(Max.)	: 125 m³/hr, 124 m³/hr
Pressure(Max.)	: 22 bar, 10 bar
Temp(Max.)	: 70°C, 100°C (Thermal oil)
Viscosity(Max.)	: 100,000 mPas / cP
Materials	: Stainless steel (316L), Duplex

Positive Displacement Pumps : Internal Gear pumps, self-priming Pump



MODEL	: TopGear TG L, TG G
Application	: Low viscosity, general purpose heavy duty
Capacity(Max.)	: 8 m³/hr, 250 m³/hr
Pressure(Max.)	: 30 bar, 16 bar
Temp(Max.)	: 250°C, 300 °C
Viscosity(Max.)	: 60,000 mPas / cP, 80,000 mPas / cP
Materials	: Nodular cast iron, Cast iron



MODEL	: TopGear TG H
Application	: High demanding heavy duty
Capacity(Max.)	: 130 m³/hr
Pressure(Max.)	: 16 bar
Temp(Max.)	: 300 °C
Viscosity(Max.)	: 80,000 mPas / cP
Materials	: Stainless steel, Cast steel, Ductile iron

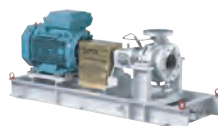


MODEL	: TopGear MAG
Application	: Seal-less, with magnetic - drive duty
Capacity(Max.)	: 80 m³/hr
Pressure(Max.)	: 16 bar
Temp (Max.)	: 250°C
Viscosity(Max.)	: 10,000 mPas / cP
Materials(Max.)	: Cast iron, Stainless steel

Centrifugal Pumps : Standardized pumps



MODEL : CombiNorm
 Application : Utility or general purpose pump
 according to EN 733
 Capacity(Max.) : 1500 m³/hr
 Head(Max.) : 100 m
 Pressure(Max.) : 10 bar
 Temp(Max.) : 200 °C
 Materials : Cast iron, Nodular cast iron, Bronze



MODEL : CombiPro
 Application : Heavy duty process pump
 according to API610,682,685
 Capacity(Max.) : 350 m³/hr
 Head(Max.) : 160 m
 Pressure(Max.) : 35 bar
 Temp(Max.) : 350 °C
 Materials : Carbon steel, 13% Cr-steel,
 Stainless steel (316)



MODEL : CombiChem
 Application : Heavy duty chemical pump
 according to ISO 5199 and EN 22858
 Capacity(Max.) : 800 m³/hr
 Head(Max.) : 160 m
 Pressure(Max.) : 16 bar
 Temp(Max.) : 200 °C
 Materials : Cast iron, Nodular cast iron,
 Bronze, Stainless steel

Centrifugal Pumps : Magnetic Drive, InLine Pump



MODEL : CombiMag
 Application : Heavy duty seal-less pump
 according to ISO 5199 and EN 22858
 Capacity(Max.) : 550 m³/hr
 Head(Max.) : 160 m
 Pressure(Max.) : 16 bar
 Temp(Max.) : 300 °C
 Materials : Cast iron, Nodular cast iron,
 Stainless steel, Duplex, Alloy 20, Hastelloy C



MODEL : CombiLine, CombiLineBloc
 Application : Close-coupled circulation pump
 on extended shaft motor
 Capacity(Max.) : 500 m³/hr
 Head(Max.) : 100 m
 Pressure(Max.) : 10 bar
 Temp(Max.) : 140 °C
 Materials : Cast iron, Bronze



MODEL : CombiTherm
 Application : Specially developed for thermal
 oil (DIN 4754) and hot water applications
 (ratings and dimensions to EN 733)
 Capacity(Max.) : 400 m³/hr
 Head(Max.) : 160 m
 Pressure(Max.) : 16 bar
 Temp(Max.) : 350°C (Thermal oil)
 : 190°C (Hot water)
 Materials : Nodular cast iron

Centrifugal Pumps : Self-priming, Multistage Pump



MODEL : CombiPrime H & V
 Application : Horizontal & Vertical (variable
 position suction bend), Hydraulics according to EN733
 Capacity(Max.) : 500 m³/hr [H]
 : 800 m³/hr [V]
 Head(Max.) : 100 m
 Pressure(Max.) : 10 bar
 Temp(Max.) : 80 °C
 Materials : Cast iron, Bronze



MODEL : CombiBloc
 Application : Compact close-coupled pump
 Capacity(Max.) : 850 m³/hr
 Head(Max.) : 105 m
 Pressure(Max.) : 10 bar
 Temp(Max.) : 120 °C
 Materials : Cast iron, Bronze, Stainless steel



MODEL : CombiSump
 Application : Vertical pump with dry
 motor EN 733, EN 22858 and API 610
 Capacity(Max.) : 1,500 m³/hr
 Head(Max.) : 160 m
 Pressure(Max.) : 16 bar
 Temp(Max.) : 160 °C
 Materials : Cast iron, Nodular cast iron,
 Bronze, Stainless steel, Carbon steel,
 13% Cr-steel

End Suction Horizontal Pump



Model	:	EH
Capacity (Max.)	:	1,660 m³/hr
Head(Max.)	:	150 m
Temp.	:	-10°C - 105°C
Discharge size	:	32 - 300 mm
Material	:	Cast iron, Cast steel, 316 Stainless steel, Duplex SS., Ni - Resist
Qualification	:	Use in air - condition system, Boiler water supplying, Cool water circulation, Water supplying for pressure - booster, Fire protection sprinkling system, Circulation of industrial water, carry the liquids which is similar to clean water, Manufacturing process area.

Split Casing Pump



Model	:	SC
Capacity (Max.)	:	12,600 m³/hr
Head(Max.)	:	220 m
Temp.	:	-10 °C - 105 °C
Discharge size	:	80 - 350 mm
Material	:	Cast iron, Cast steel, 316 Stainless steel, Duplex SS., Ni - Resist
Qualification	:	Waterworks, Irrigation, Drainage pumping stations, Power stations, Industrial water supply systems & fire fighting applications in refineries.

Self-Priming Centrifugal Pump



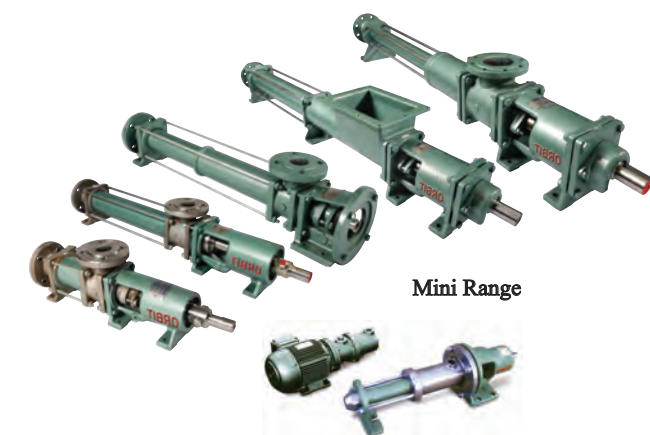
Model	:	ST, SU
Capacity (Max.)	:	1,250 m³/hr
Head(Max.)	:	40 m
Temp.	:	-10 °C - 105 °C
Discharge size	:	50 - 300 mm
Material	:	Cast iron, Ductile cast iron, Stainless steel, Duplex SS.
Qualification	:	Self-priming pump are designed for rugged and dependable solid handling application. The heavy duty and easy to maintain design provide economical and non clog operation in handling solid-laden liquids and slurries.

Vertical Multistage Centrifugal Pump



Model	:	VM, VMS
Capacity (Max.)	:	110 m³/hr
Head(Max.)	:	300 m
Temp.	:	-15 °C - 120 °C
Discharge size	:	25 - 100 mm
Material	:	Cast iron, Ductile cast iron, Stainless steel, Duplex SS.
Qualification	:	VM/VMS is a kind of vertical non-self priming multistage centrifugal pump, which is driven by a standard electric motor. The motor output shaft directly connects with the pump shaft through a coupling. The pressure-resistant cylinder and flow passage components are fixed between pump head and inlet and outlet section with tie-bar bolts. The inlet and outlet are located at the pump bottom as inlined.

Positive Displacement Helical Rotor Pump - From South Africa



Mini Range



B / D Range

Model	:	B, D Range	Mini Range
Capacity (Max.)	:	138 m ³ /hr	210m ³ /hr
Head (Max.)	:	40 bar	18 bar
SUC./DIS. Size	:	40 - 200 mm (PN - 16, DIN - Std. or BS4504)	
Passed Size(Max.)	:	75 A(Soft & Compressible), 19 mm (Hard angular, Random solids)	

Material

Casing	:	Gray cast iron, 316 Stainless steel
Rotor	:	EN8, Tool steel, 316 Stainless steel / HCP*
Stator	:	Natural, Nitrile, EPDM, Hypalon, Viton

Qualification : Suitable for liquid pumps. Such as wastewater
Sludge, sludge in the treatment ponds of viscous Wastewater, etc.

Use a variety of materials to be suitable for chemicals, acid, alkali, diesel oil,
lubricated oil for no leakage application.

Pump seals include Packed gland seal or Mechanical seal.

*HCP = Hard Chrome - Plated

Water pumps, Economical price

				
Model :	SK, SW, KN, MFV	RN, HS, PB, FG	ST, SN, LE, ME, GST, GSN, GME, SCP	VMF, CNE
Type :	Non - clog pump & Mixed flow pump	Multi - stage pump ISO 2858	Split casing pump	Vertical turbine pump
Capacity (Max.)	8,000 m ³ /hr	1,500 m ³ /hr	17,000 m ³ /hr	25,000 m ³ /hr
Head (Max.)	70 m	1,400 m	250 m	450 m
Temp.(Max.)	50 °C	150 °C	135 °C	105 °C
Discharge size	50 - 800 mm	25 - 300 mm	50 - 1,200 mm	100 - 1,800 mm
Material	Cast iron, Ductile iron, Bronze, Stainless steel Special material (Duplex SS., Cast steel, Ni resist, Alloy steel)			
Qualification	Suitable for pumping Raw water, Wastewater that use for agriculture, industries and general application. For chemical liquid such as Seawater, Acid, Alkali, etc., the pump materials can be selected for the application. Pump seals can be selected as Gland packing seal or Mechanical seal. Pumps also can be driven by Engine.			

AFTER SALES & ENGINEERING SERVICES



Pump's training service



Shaft alignment service



Site test & commissioning work



Site maintenance service



Pump installation service



Pump installation service



Site maintenance service



Blower overhuling



Modify & Fabrication Blower



Belts tensioning set up



Site inspection service



Site inspection service



Site maintenance service



Installation Supervision



Site test & commissioning service



Pump overhuling



Electrical testing work



Pump's inspection Service



Site test & commissioning service



Pump's installation service

CUSTOMER REFERENCES

- ★ Electricity Generating Authority Thailand
- ★ Royal Irrigation Department
- ★ Metropolitan Waterworks Authority
- ★ Provincial Waterworks Authority
- ★ IRPC Public Company Limited
- ★ PTT Group
- ★ Thaioil PCL.
- ★ Bangchak Corporation PCL.
- ★ Bridgestone Group(Thailand) Co.,Ltd.
- ★ Mitsubishi Motors(Thailand) Co.,Ltd.
- ★ AutoAlliance(Thailand) Co., Ltd.
- ★ Siam Cement Group (SCG)
- ★ Siam City Cement PCL.
- ★ Asia Cement PCL.
- ★ Rojana Industrial Park PCL.
- ★ Gulf Group
- ★ Betagro Group
- ★ Sun Food International Co.,Ltd
- ★ Charoen Pokphand Group (CP)
- ★ Thai Airways International PCL.
- ★ General Motors (Thailand) Co.,Ltd.
- ★ Double A (1991) PCL.

REFERENCES BY P.N.V. INNOTECH CO., LTD.



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