Depamu (Hangzhou) Pumps Technology Co., Ltd.

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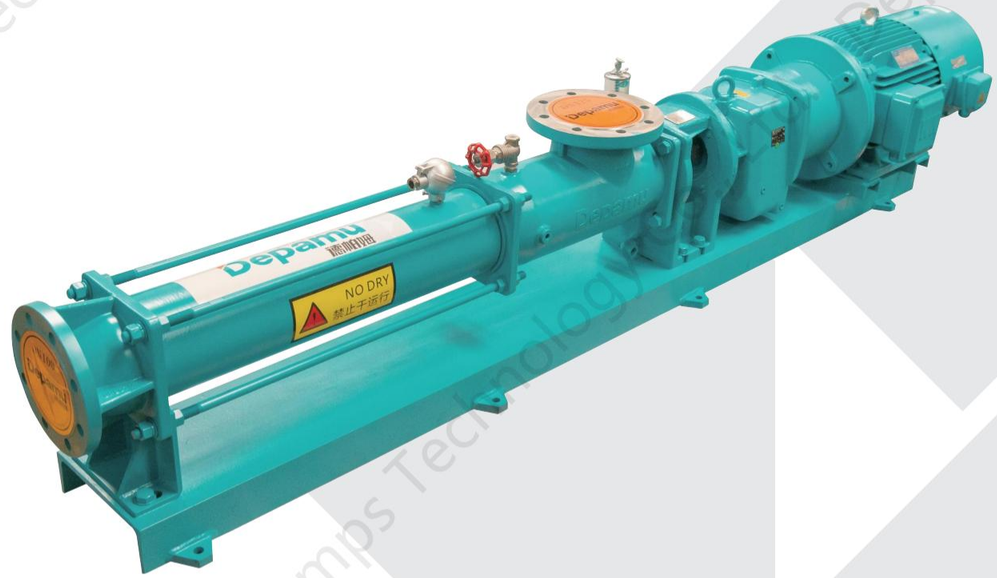
CONILOWA
克尼罗瓦

Single Screw Pump



Depamu (Hangzhou) Pumps Technology Co., Ltd.

PACESETTER OF FLUID EQUIPMENT IN THE WORLD

全球流体装备的领跑者

CONILOWA
克尼罗瓦

Contents

Enterprise Profile

Conilowa, a brand owned by Depamu (Hangzhou) Pumps Technology Co., Ltd., mainly produces lobe pumps (rubber/metal), homogenizing and emulsifying pumps, peristaltic pumps, gear pumps, self-priming firefighting water pumps, foam solution pumps, mobile pump trucks, integration modular equipment, (single/double/three) screw pumps, metering pumps, chemical process pumps, reciprocating pumps, chemical dosing packages, etc.

Through introduction of advanced technologies from Germany, the company has been devoted to research and development of fluid transfer equipment since establishment, and multiple patents held take a leading place globally. The company has passed API, CE and DNV certification; at the same time, it serves as a drafter of pump industry standards.

Presently, company products have been widely applied to oil & gas field exploitation, petroleum and gas refining and transportation as well as industries of nuclear power, military, chemical, electric power, pulp & paper, pharmaceutical, food, new energy, water treatment, etc. Based on establishment of long-term strategic partnerships with large-scale enterprises like CNPC, SINOPEC, CNOOC, CNNC, etc., products have been exported to over 50 countries and regions including the USA, the UK, France, Switzerland, Russia, India, Brazil, Iran, Sudan, Turkmenistan, Syria, etc. The company aims to be the most competitive fluid equipment manufacturer and service supplier in the world, and build Depamu into a century-old global brand.

Enterprise Qualification Certificates

Certificate of National High-tech Enterprise (P. R. C.)

“Little Giant” Honor for Specialized, Sophisticated, Distinctive and Innovative SMEs of the P. R. C.

China Pump Testing Center of Positive Displacement Pump

High-tech Enterprise R&D Center of Zhejiang Province

OHSAS 18001 Certificate

ISO 14001 Certificate

ISO 9001 Certificate

EAC Certificate

CE Certification

API Certificate

Certificate of CNNC Qualified Supplier

Invention Patent

Invention Patent

Permit for Industrial Pipe Installation

Permit for Pressure Pipe Component Manufacturing

Permit for Pressure Vessel Manufacturing

Delicacy Management

Depamu has sold its products worldwide and kept a leading role in the industry based on advanced German management technologies, excellent R&D personnel, advanced processing equipment, delicacy management process as well as perfect service system.

Office

Assembly Shop

Finished Product Workshop

Excellent Team

Intelligence Warehouse Management

Coordinate Measuring Inspection

Advanced Processing Equipment

Digital Processing Equipment

Advanced Testing Equipment

Digital Precision Processing

Acceptance Site

Application Fields

Depamu provides professional service for multiple key and high-end fields.

PetroChina

PetroChina Daqing Petrochemical Company
PetroChina Daqing Refining Chemical Company
PetroChina Lanzhou Petrochemical Company
PetroChina Dushanzi Petrochemical Company
PetroChina Urumqi Petrochemical Company
PetroChina Karamay Petrochemical Company
PetroChina Fushun Petrochemical Company
PetroChina Liaohe Petrochemical Company
PetroChina Qingyang Petrochemical Company
PetroChina Liaoyang Petrochemical Company
PetroChina Sichuan Petrochemical Company Limited
PetroChina North China Petrochemical Company
Golmud Refinery of Qinghai Oilfield
PetroChina Harbin Petrochemical Company
PetroChina Jinxi Petrochemical Company
PetroChina Dalian Petrochemical Company
...

Sinopec

Sinopec Zhenhai Refining & Chemical Company
Sinopec Shanghai Petrochemical Company Limited
Sinopec Shanghai Gaoqiao Company
Sinopec Qilu Company
Sinopec Tianjin Company
Sinopec Yangzi Petrochemical Company Limited
Sinopec Jiujiang Company
Sinopec North China Company
Sinopec Wuhan Company
Sinopec Changling Company
Sinopec Baling Company
Sinopec Jinmen Company
Sinopec Zhanjiang Dongxing Petrochemical Company Limited
Sinopec Hainan Refining& Chemical Company Limited
Sinopec Tahe Refining& Chemical Company Limited
Sinopec Beihai Company
Sinopec Anqing Company
Sinopec Wuhan Company
Sinopec Jinling Company
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CNOOC

CNOOC Huizhou Oil Refining Project
CNOOC Zhoushan Petrochemical Ltd.
CNOOC (Taizhou) Petrochemical Ltd.
Shandong Binzhou BEFAR Group
CNOOC Zhanjiang Fuel Oil Co., Ltd.
CNOOC New Energy (Hainan) Biological Energy Chemical Co., Ltd.
CNOOC Huahe Coal Chemical Co., Ltd.
CNOOC Tianye Petrochemical Ltd.
CNOOC Energy Technology & Services Limited, Oil Production Technical Service Branch
...

PetroChina Oil & Gas Fields

Daqing Oilfield Material Company
PetroChina Changqing Oilfield Company
PetroChina Jilin Oilfield Company
PetroChina Tarim Oilfield Company
PetroChina Qinghai Oilfield Company
PetroChina Yumen Oilfield Company
PetroChina Zhejiang Oilfield Company
...

Sinopec Oil & Gas Fields

Sinopec Shengli Oilfield Company
Sinopec Southwest Petroleum & Natural Gas Company
Sinopec North China Petroleum Bureau
Sinopec Northeast Petroleum Bureau
Sinopec Zhongyuan Oilfield Company
Sinopec Henan Oilfield Company
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Chemical and Coal Chemical Industry

Zhejiang Petroleum& Chemical Co., Ltd.
China National Chemical Corporation
Shenhua Mengxi Huarui Chemical Co., Ltd.
Shenhua Ningxia Coal Industry Group Co., Ltd.
Zhongtian Hechuang Energy Co., Ltd.
Wanhua Polyurethane Co., Ltd.
Yunnan Yuntianhua Co., Ltd.
Guizhou Chitianhua Group Co., Ltd.
China National Bluestar (Group) Co., Ltd.
Shanxi Sanwei Group Co., Ltd.
Shandong Hualu Hengsheng Chemical Co., Ltd.
China Pingmei Shenma Group
Shanxi Weilai Energy Chemical Co., Ltd.
...

Nuclear Power, Military and Fluorine Chemical Industry

Arkema (Changshu) Fluorine Chemicals Co., Ltd.
Do-Fluoride Chemicals Co., Ltd.
The 404 Company Limited, China National Nuclear Corporation
Jiangsu Meilan Chemical Group
Zhejiang Quhua Chemical Group
Shandong Dongyue Chemical Group
Changshu 3F Fluorochemical Industry Co., Ltd.
China National Chemical Corporation Ltd.
Qinshan Nuclear Power Station
China Nuclear Industry Fifth Construction Co., Ltd.
...

Iron and Steel Industry

Wuhan Iron & Steel Co., Ltd.
Jilin Tongang Group
Jinan Iron & Steel Group
Laiwu Iron & Steel Group
Shougang Group
Shagang Group
Kungang Group
...

Electricity and Environmental Protection Industry

Huadian Water Engineering Co., Ltd.
China Huaneng Group Co., Ltd.
Dongfeng Motor Corporation, Thermal Power Plant
Linyi City Yangguang Heating Power Co., Ltd.
Shandong Luneng Electric Power Co., Ltd.
Dalian Thermal Power Company
Shaoguan Pingshi Power Generation Plant
Ningbo Zhenhai Thermal Power Plant
Changsha Waste Water Treatment Plant
Xi' an Waste Water Treatment Plant
Jiaxing Waste Water Treatment Plant
Jiangsu Yihuan Group Co., Ltd.
Guang' an Power Plant
Datang Environment Industry Group Co., Ltd.
Everbright Environmental Protection Technical Equipment (Changzhou) Limited
Cscec Scimee Sci.& Tech. Co., Ltd.
...

Design Institutes and University Science Research Institutions

China Huanqiu Contracting & Engineering Co., Ltd.
Sinopec Engineering Incorporation (SEI)
Sinopec Luoyang Petrochemical Engineering Corporation Ltd.
China Chengda Engineering Co., Ltd.
Hualu Engineering & Technology Co., Ltd.
Sinopec Ningbo Petrochemical Engineering Co., Ltd.
China Wuhuan Engineering Co., Ltd.
China Petroleum First Construction Corporation
China Petroleum Engineering & Construction Corporation, Huadong Design Branch
Zhejiang University
Xi' an Jiaotong University
Southeast University
China Jiliang University
Zhejiang Sci-Tech University
...

Food and Pharmacy Industry

Hangzhou Wahaha Group Co., Ltd.
China Resources Snowflake Brewery Co., Ltd.
Guangzhou Zhujiang Brewery Group Co., Ltd.
Northeast Pharm Group Co., Ltd.
Zhejiang NHU Company Ltd.
Fujian South Pharmaceutical Co., Ltd.
Wufangzhai Group
Zhejiang Medicine Co., Ltd., Changhai Biological Company
...

Mining, Metallurgy and Energy Industry

China ENFI Engineering Co., Ltd.
Zhejiang Huayou Chemical Co., Ltd.
GEM Co., Ltd.
Shanshan Energy (Ningxia) Co., Ltd.
Fujian Ningde Xinshidai New Energy Co., Ltd.
Shangluo BYD Industry Co., Ltd.
Qinghai Juzhiyuan New Material Co., Ltd.
Do-fluoride Chemicals Co., Ltd.
Jinchuan Group Co., Ltd.
Guangzhou Tinci Materials Technology Co., Ltd.
...

Export

CNPC (Turkmenistan) Amu Darya River Gas Company
(SSKOC) Syria Kaukab Oil Company
Open Joint Stock Company
400,000t/a Bleached Kraft Pulp Plant Project in Svetlogorsk, Belarus
Hong Kong Sha Tin Water Supplies Department
Venezuela Bisilliat Combined Cycle Power Plant Project
100*108m3/a Commodity Gas Construction Project, South Yolotan, Turkmenistan
Afghanistan Kashkari Oilfield Exploitation
Iraq Missan Water and Oil Waste Water Treatment Project
Sudan Area 37
Indian Oilfield
Lordegan Urea Fertilizer Project, Iran
Mis Fertilizer Project, Iran
...

Customers

SINOPEC 中国石化

CNPC

CNOOC

Shell

VEOLIA

浙江医药 ZHE JIANG MEDICINE

ENFI 中国恩菲

中国一重 CFHI

新宙邦 CAPCHEM

CATL solid power inside 可靠动力 源于内涵

中核集团 CNNC 中国原子能 CNEIC

BASF The Chemical Company

DY DONGYUE FEDERATION

ATAL

ZPC 浙石化

BYD

3F®

中国华电 CHD

NEC 中国核建

SEI 中国石化工程建设公司

博天环境 POTEN ENVIRO

中国神华 CHINA SHENHUA

HENGYI 恒逸集团

CNCEC 中国化学

华友钴业 HUAYOU COBALT

CAIRN

NHU 新和成

esco ESNAD

DESANO 迪赛诺

GE

娃哈哈

bp

BAYER

杉杉股份 Shanshan

中化蓝天 SINOCHEM LANTIAN

多氟多 DFD

巨化集团公司 JUHUA GROUP CORPORATION

GEM 格林美

BAKER HUGHES

TINCI 天赐

ALSTOM

HALLIBURTON 哈里伯顿

N.I.O.C

ARKEMA

vedanta transforming for good

suez environnement

新华制药 XINHUA PHARM.

东北制药 NORTHEAST PHARM

南方制药 South Pharmaceutical

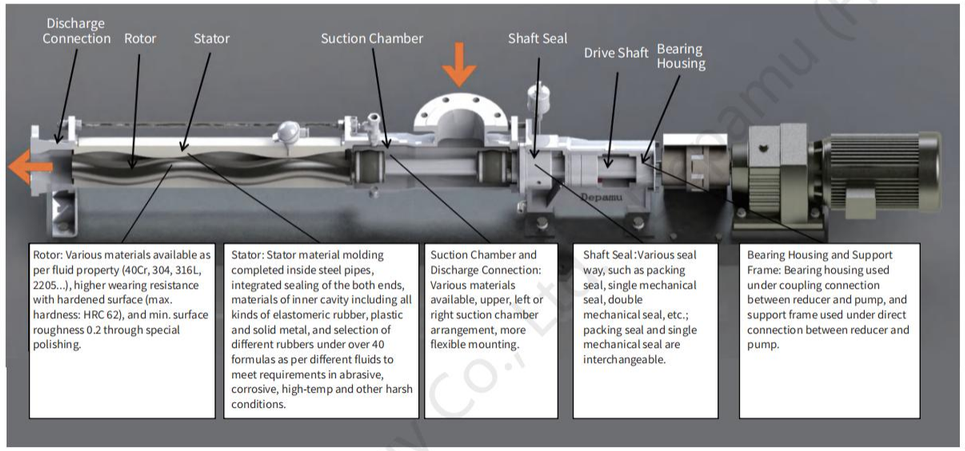
华东医药 HUADONG MEDICINE

Product Introduction

Based on advanced German technologies and professional technology certification, Conilowa single screw pumps show obvious superiority in terms of special working conditions like fluids with a high viscosity, containing hard suspended particles, etc. featuring a long service life and reliable operation with many patents held of the first-rank international level. No shearing or mixing during transfer ensures no damage to molecular chain structure and specific fluid properties formed during process. Products have won praise from users at home and abroad.

Working Principle

As a rotary positive displacement pump, a single screw pump transfers liquids mainly based on volumetric change generated in suction chamber and discharge chamber from intermeshing of screw and lining. As an internally engaged and enclosed positive displacement pump, its main working components are rubber lining (stator) with spiral empty chamber, and spiral screw (rotor) engaging with lining in chamber. When input shaft drives rotor to make planetary rotations around stator center through universal joint, stator and rotor continuously mesh to form enclosed cavities, which make uniform axial motions in a constant volume and transfer fluids from suction end to discharge end via stator and rotor.



Product Advantages

- Multiple modular structural combinations;
- The best suction capacity of 8m water column;
- Able to rotate and transport fluids in both directions;
- Flexible mounting types;
- Temperature range of pumped fluids: -12°C~+150°C

Transportable Media

Screw pumps are suitable for transport of media below: media with a big content of solids (max. particle size 30mm); media of different viscosities (1mpas~1,000,000 mpas); media with thixotropy and expansibility; media with shear sensitivity; corrosive media (pH=0~14); media with/without self-lubricity; abrasive media; cohesive media; toxic media; mixed media containing gas, solid or fiber.

Application Scope

Petroleum and Petrochemical

Light and heavy oil, acid, alkali and salt solution, viscous chemical paste, emulsion and slurry, oil-water separation and waste oil recovery system, polymer transfer.

Environmental Protection

Industrial and domestic sewage treatment, oily water treatment, transfer of sludge and muddy water with solid particle and short fiber, oil-water separation and waste gas engineering, metering and dosing of flocculant and chemical agent.

Exploitation and Mining

Transfer of drilling mud, mining water supply and drainage, mining duster water supply, preparation, loading and grouting of mortar, concrete, titanium dioxide and kaolin sprayed on mine laneway wall.

Medicine and Food

Transfer of medical ointment, syrup, jam, fermentation broth, honey, cream, starch paste, toothpaste, etc.

Shipping Industry

Bilge cleaning pump, marine incinerator transfer pump, oil-water separator pump, transfer of engine room oily water, etc.

Energy Industry

Transfer of fuel oil, coal water slurry, resin and additive.

Paper-making Industry

Transfer of paper pulp and short fiber slurry, slurry and waste water treatment, chemical metering, raw material preparation, coating and coloring process.

Building Industry

Paste transfer like cement mortar, painting, lime milk, etc.

Electrolyte Treatment

Transfer of paste, emulsion, suspension as well as fluid requiring no stirring or shearing.

Mechanical Engineering

Oil-water mixture, sludge with metal, metallurgy slurry and waste tank emptying.

Single Screw Pump Model

CL G 050 B 02 Z E P □

- Others
- Material or Characteristic
- Stator Material
- Construction
- Number of Stages (Number of Leads)
- Mounting Type
- Specification Code
- Series
- Brand Code

Model Description

Series Description

Code	Description
G-1/2	Standard Lead Series
L-1/2	Long Lead Series
D-2/3	Standard Lead Series
P-2/3	Long Lead Series

Specification Code

015	020
025	035
040	050
070	085
105	135
150	170
	220

Mounting Type

Code	Description
B	Horizontal
L	Vertical
N	With Feed
C	Inclined
W	Food Grade

Number of Pump Stages (Number of Leads)

01	02	03
04	05	06

Construction

Code	Description
Z	Bearing Housing
J	Direct Connection

Stator Material

Code	Description
B	NBR
N	Foodstuff Rubber
E	EPR
R	Natural Rubber
F	FKM
Q	Hydrogenated Rubber
C	CSM

Material or Characteristic

Code	Description
P	General (Carbon Steel)
F	304
M	316L
D	38CrMoAl
T	Cr12MoV
X	Others

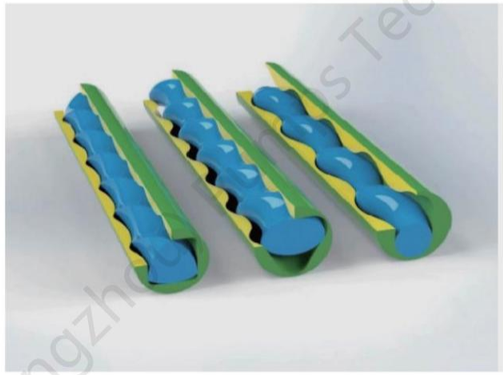
Seal Type

Code	Description
S	Single Seal
D	Double Seal
P	Packing Seal
W	External Type
N	No Seal

Equipment Products

Complete Series

Spare Parts



Multiple Profile Design

Principles and Characteristics of Stators and Rotors under Different Working Conditions

A Conilowa single screw pump is a rotary positive displacement pump with the rotary rotor in the stator as the transfer element. The four geometrical shapes of a single screw pump share the same outline dimensions, so a standard structure is adopted; except rotor and stator, all the rest parts are the same for the four shapes. In case of demand in change of flow or pressure, mere change in rotor and stator of a single screw pump can make it suitable for operation under new conditions.

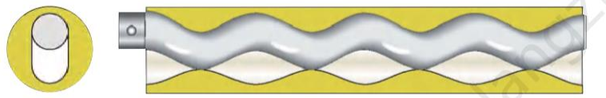
G/L Shape

Single-thread screw/rotor with circular cross-section, long screw pitch and long thread depth; the thread depth changes continuously when the rotor rotates in the stator. The cross-section area of the stator is the same with that of the rotor, and the stator has double internal threads separated by 180°; so, when the rotor and the stator mesh, a cavity is formed in-between with an area of 1/2 stator. When the rotor rotates, the progressive cavity between the rotor and the stator stably and continuously transfers fluid inside the cavity from suction end to discharge end. Flow depends on rotor/stator screw pitch, diameter and eccentricity as well as pump speed. Discharge pressure depends on number of stages and max. 6bar (85psi) differential pressure for each stage.

A G-shape 2-stage Conilowa pump can realize a differential pressure at 12bar (170psi) and a flow at 100%. A L-shape 1-stage pump shares the same appearance, diameter and eccentricity with a G-shape 2-stage pump, and its screw pitch is twice of rotor/stator screw pitch of a G-shape 2-stage pump; therefore, L-shape 1-stage pump can realize a flow twice of a G-shape 2-stage pump with max. 6bar (85psi) differential pressure.

G Shape

- ★ Very stable transfer;
- ★ Compact structure;
- ★ Large cross-section area of rotor feed;
- ★ Small flow velocity/NPSH;
- ★ Able to transfer viscous materials;
- ★ Able to transfer materials containing large-particle solids.



1/2 Stator Cavity
2-stage
Flow: 100%
Differential Pressure: 12bar (170psi)

L Shape

- ★ A high volumetric efficiency and a long service life due to a long sealing line between rotor and stator;
- ★ Compact structure and big flow.

1/2 Stator Cavity
1-stage
Flow: 200%
Differential Pressure: 6bar (85psi)

Principles and Characteristics of Stators and Rotors under Different Working Conditions

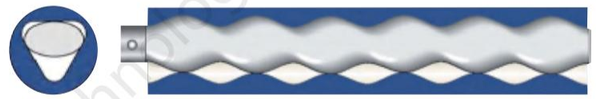
D/P Shape

Double-thread rotor with elliptical cross-section, long screw pitch and long thread depth; the rotor makes eccentric circular rotations in the stator. The stator has the same shape with that of the rotor, and the stator has three internal threads with every two separated by 120°; so, when the rotor and the stator mesh, a cavity is formed in-between with an area of 2/3. When the rotor rotates, the progressive cavity between the rotor and the stator stably and continuously transfers fluid from suction end to discharge end. Flow depends on rotor/stator screw pitch, oval diameter and eccentricity as well as pump speed. Pressure performance depends on number of stages and max. 6bar (85psi) differential pressure of each stage.

D/P-shape cavity has a size about 75% of G/L-shape, opens twice every rotation while G/L-shape cavity only opens once every rotation. So, D/P-shape rotor/stator has a flow 50% more than that of G/L-shape in every rotation. D-shape 2-stage pump can realize a max. differential pressure 12bar (170psi) under a flow 150% of G-shape 1-stage pump flow. P-shape Conilowa 1-stage pump shares the same appearance, elliptical diameter and eccentricity with D-shape 2-stage pump, and its screw pitch is twice of rotor/stator screw pitch of a D-shape 2-stage pump; therefore, it can realize a flow 300% of G-shape pump under the max. differential pressure 6bar (85psi).

D Shape

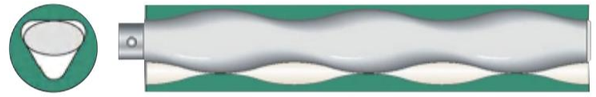
- ★ Compact structure regardless of pressure or flow;
- ★ Nearly no pulsation during transfer;
- ★ A high metering accuracy.



2/3 Stator Cavity
2-stage
Flow: 150%
Differential Pressure: 12bar (170psi)

P Shape

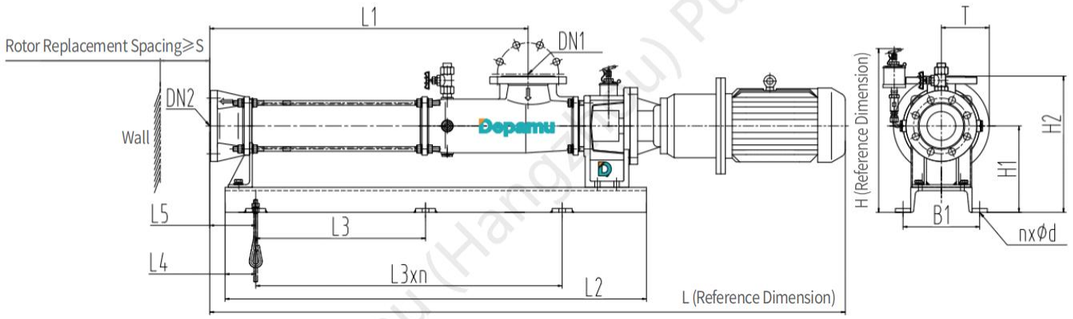
- ★ Compact structure regardless of flow and nearly no pulsation during transfer;
- ★ A high metering accuracy;
- ★ A high volumetric efficiency and a long service life due to a long sealing line between rotor and stator.



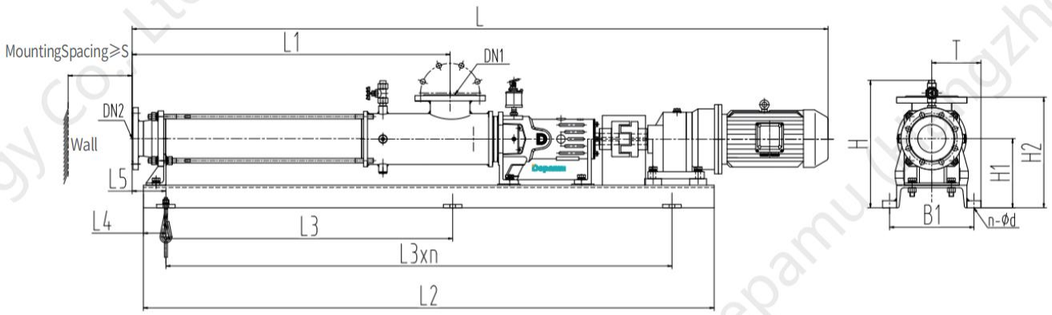
2/3 Stator Cavity
1-stage
Flow: 300%
Differential Pressure: 6bar (85psi)

Single Screw Pump Model Selection

Direct-connection Single Screw Pump

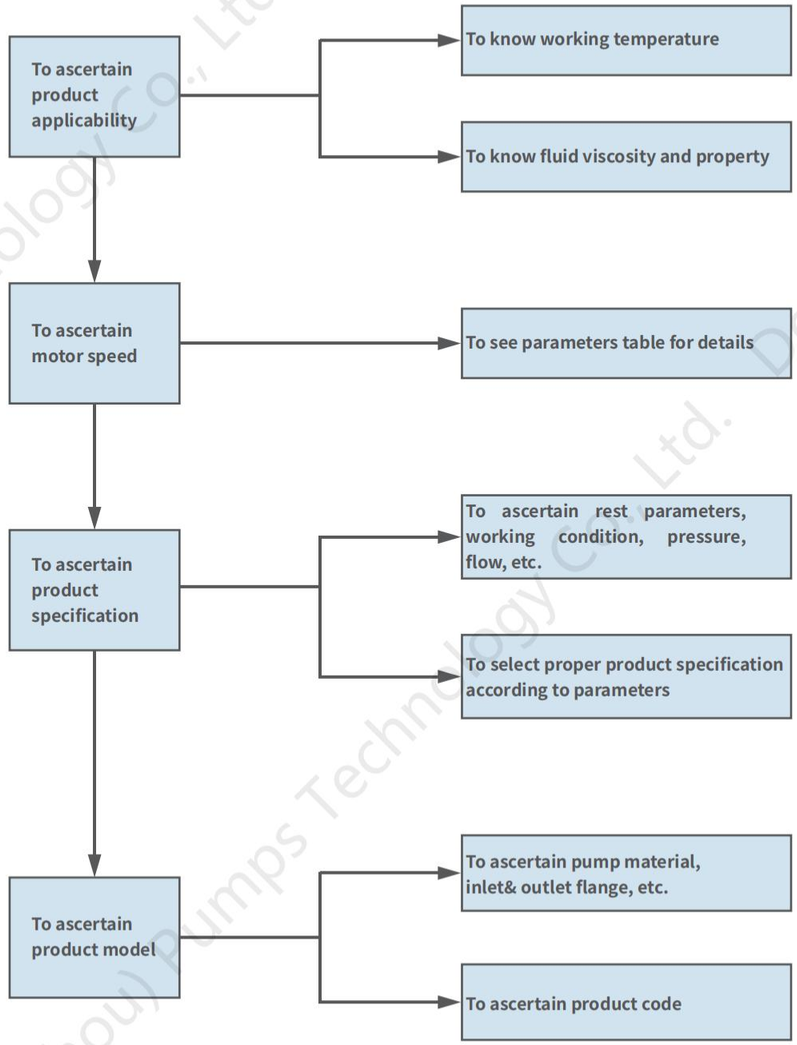


Bearing-type Single Screw Pump



At single screw pump model selection, it' s necessary that a customer shall provide detailed data and corresponding information in the following Data Sheet for Pump Model Selection, which are crucial to economic and proper model selection.

Steps for Pump Model Selection



Notes for Pump Model Selection

1. At product model selection, attention is required for inlet flow (including inlet pipeline flow). Generally, inlet flow shall not exceed 1m/s, 1~1.3m/s inlet flow shall be selected under certain conditions, and inlet flow over 1.3m/s shall be selected with caution or not be selected.

2. When fluid viscosity increases, fluid enters seal chamber more difficultly and mechanical loss becomes more; therefore, a lower vgm shall be selected under a larger fluid viscosity and recommendation is below:

Kinematic Viscosity (cst)	1~1000	1000~10000	10000~100000	100000~1000000
Vgm	<2.5	<2.0	<1.0	<0.5

3. When fluid abrasiveness increases, rotor and stator inevitably wear more easily, and more rapidly under a larger pump speed; therefore, pump speed selection also requires consideration for fluid abrasiveness, a lower vgm shall be selected under a higher abrasiveness and recommendation is below:

Abrasiveness	Slight	Common	Severe
Fluid	Water, oil, juice, liquid soap, painting	Industrial effluent, pigment, mud, suspension, mortar	CWS, pottery clay, lime slurry, clay
Vgm	<2.5	<2.0	<1.0

4. When fluid transferred by a single screw pump is allowed to contain solid particles and fibers, requirements in the table shall be met, attention is required that pump speed shall be decreased under increase in particle size and solid content in fluid, and recommendation is below:

Pump Model	015	021	025	031	035	038	045	053	063	070	076	085	095	105	135	170
Max. Allowable Particle Size	2.5	3	4	4.5	5.5	7	7	8.5	10	11	12	14	15	17.5	22.5	28
Max. Allowable Fiber Length	16	20	25	32	32	40	45	50	60	64	80	80	90	100	128	160

G/L Shape Single Screw Pump

Fluid								
Viscosity	mm^2/s	Max.		Min.		Normal		
Density	kg/m^3	Max.		Min.		Normal		
Temperature	°C	Max.		Min.		Normal		
Characteristics		Corrosive ☐		Toxic ☐		Sanitary ☐		
Shaft Material		40Cr ☐	2Cr13 ☐	304 ☐	316 ☐	Other _____		
Wetted Parts Material		Cast Iron ☐	CS ☐	304 ☐	316 ☐	Other _____		
Stator Material		NBR ☐	EPR ☐	FKM ☐	Foodstuff Rubber ☐	Other _____		
Rotor Material		40Cr ☐	45 ☐	304 ☐	316 ☐	Other _____		
Particle	mm	Yes ☐		No ☐		Size _____		
Seal Type		Packing Seal ☐		Mechanical Seal ☐		Other _____		
Solid Content	%	Max.		Min.		Normal		
Capacity	m3/h	Max.		Min.		Normal		
Suction Pressure	Mpa	Max.		Min.		Normal		
Discharge Pressure	Mpa	Max.		Min.		Normal		
Pressure Difference	Mpa	Max.		Min.		Normal		
NPSHa	m							
Ambient Temperature	°C	Max.		Min.		Normal		
Ph		Max.		Min.		Normal		
Driver Type								
Motor		Explosion-proof _____		IP _____		Variable Frequency ☐		
Location		Indoor ☐			Outdoor ☐			
Operation		Continuous ☐			Intermittent ☐			
Mounting		Horizontal ☐		Vertical ☐		Other _____		

L-Series Single Screw Pump Parameters Table

Model	Speed r/min	Flow m3/h 0.6MPa	Vgm	Motor	Inlet Flange	Outlet Flange
CLL015B01J	496	0.45	0.47	Y80M2-4/0.75	DN32	DN25
	326	0.15	0.37	Y80M2-4/0.75		
CLL020B01J	500	0.91	0.91	Y8090S/1.1	DN32	DN25
	320	0.31	0.63	Y80M2-4/0.75		
CLL025B01J	402	1.51	1.03	Y90L-4/1.5	DN50	DN40
	241	0.39	0.59	Y80M2-4/0.75		
CLL035B01J	504	5.49	1.42	Y100L2-4/3	DN65	DN50
	333	3.04	1.02	Y100L1-4/2.2		
CLL040B01J	511	11.4	1.65	Y132S-4/5.5	DN80	DN65
	414	8.67	1.51	Y112M-4/4		
CLL050B01J	414	18.3	1.81	Y132M-4/7.5	DN100	DN80
	250	9.31	1.25	Y132S-4/5.5		
CLL070B01J	330	30.5	1.98	Y160L-4/15	DN125	DN100
	243	20.5	1.50	Y160M-4/11		
CLL085B01J	274	49.4	2.14	Y180M-4/18.5	DN150	DN125
	195	31.9	1.41	Y160L-4/15		
CLL105B02Z	238	86.9	2.31	Y200L-4/30	DN200	DN200
	158	51.8	1.51	Y180L-4/22		
CLL135B02Z	173	64.8	2.35	Y225M-4/45	DN200	DN200
	128	44.2	1.80	Y225S-4/37		

G-Series Single Screw Pump Parameters Table

Model	Speed r/min	Flow m3/h 0.6MPa	1.2MPa	1.8MPa	2.4MPa	3.0MPa	3.6MPa	vgm	Motor	Inlet Flange	Outlet Flange
CLG015B02J	496	0.23	0.23	0.23	0.23	0.23	0.23	0.46	Y80M2-4/0.75	DN32	DN25
	326	0.20	0.20	0.20	0.20	0.20	0.20	0.38	Y80M2-4/0.75		
	193	0.18	0.18	0.18	0.18	0.18	0.18	0.29	Y80M2-4/0.75		
CLG020B02J	500	0.45	0.45	0.45	0.45	0.45	0.45	0.20	Y90S-4/1.1	DN32	DN23
	320	0.15	0.15	0.15	0.15	0.15	0.15	0.31	Y80M2-4/0.75		
	198	0.12	0.12	0.12	0.12	0.12	0.12	0.44	Y80M2-4/0.75		
CLG025B02J	402	0.75	0.75	0.75	0.75	0.75	0.75	1.05	Y90L-4/1.5	DN50	DN40
	241	0.19	0.55	0.19	0.19	0.19	0.19	0.58	Y80M2-4/0.75		
	196	0.04	0.04	0.04	0.04	0.04	0.04	0.52	Y90S -4/1.1		
CLG035B02J	504	2.74	2.74	2.74	2.74	2.74	2.74	1.41	Y100L2-4/3	DN65	DN50
	333	1.52	3.35	1.52	2.74	2.74	2.74	1.02	Y100L1-4/2.2		
	194	0.53	0.8	0.53	0.53	0.53	0.53	0.61	Y90S -4/1.1		
CLG040B02J	511	5.68	5.67	5.67	5.67	5.67	5.67	1.92	Y132S-4/5.5	DN80	DN65
	414	4.34	4.33	4.33	4.33	4.33	4.33	1.80	Y112M-4/4		
	246	2.02	2.02	2.02	2.02	2.02	2.02	0.93	Y100L2-4/3		
CLG050B02J	414	9.15	9.16	9.15	9.15	9.15	9.15	1.93	Y132M-4/7.5	DN100	DN80
	250	4.66	4.66	4.66	4.66	4.66	4.66	1.14	Y132S -4/5.5		
	200	3.28	3.28	3.28	3.28	3.28	3.28	0.96	Y112M-4/4		
CLG070B02J	330	15.22	15.2	15.22	15.22	15.22	15.22	1.84	Y160L-4/15	DN125	DN100
	243	10.24	10.2	10.24	10.24	10.24	10.24	1.45	Y160M-4/11		
	200	7.78	7.8	7.78	7.78	7.78	7.78	1.23	Y132M-4/7.5		
CLG085B02J	274	24.7	24.69	24.69	24.69	24.69	24.69	2.13	Y180M-4/18.5	DN150	DN125
	243	21.3	21.27	21.27	21.27	21.27	21.27	1.82	Y132S -4/18.5		
	195	16	15.97	15.97	15.97	15.97	15.97	1.49	Y160L-4/15		
CLG105B02Z	238	43.45	43.4	43.45	43.45	43.45	43.45	2.08	Y200L-4/30	DN200	DN200
	208	36.87	36.9	36.87	36.87	6.87	6.87	1.85	Y200L-4/30		
	158	25.91	25.9	25.91	25.91	25.91	25.91	1.40	Y180L-4/22		
CLG135B02Z	173	64.76	64.8	64.76	64.76	64.76	64.76	2.10	Y225M-4/45	DN200	DN200
	146	52.42	52.4	52.42	52.42	52.42	52.42	1.73	Y225S-4/37		
	128	44.20	44.2	44.20	44.20	44.20	44.20	1.44	Y225S-4/37		

Detailed Parameters Table

Model	Speed r/min	Reducer Model	Motor	Flow	Pressure	DN1	DN2	L	L1	L2	L3Xn	L4	L5	n-Φd	B1	H	H1	H2	T	S
CLG015B01J	496	G811F	Y80M2-4/0.75	0.45	0.6	32	25	1076	369	850	600X1	125	128	4-Φ19	240	320	212	302	155	200
				0.71	0.3															
	326	G811F	Y80M2-4/0.75	0.15	0.6															
				0.39	0.3															
	193	G811F	Y80M2-4/0.55	0.14	0.3															
CLG015B02J	496	G811F	Y80M2-4/0.75	0.23	1.2	32	25	1076	369	850	600X1	125	128	4-Φ19	240	320	212	302	155	200
				0.35	0.8															
	326	G811F	Y80M2-4/0.75	0.07	1.2															
				0.19	0.8															
	193	G811F	Y80M2-4/0.55	0.29	0.8															
CLG020B01J	500	G811F	Y8090S/1.1	0.91	0.6	32	25	1140	415	850	600X1	125	128	4-Φ19	240	340	320	302	165	200
			Y80M2-4/0.75	1.39	0.3											320			155	
	326	G811F	Y80M2-4/0.75	0.31	0.6															
				0.76	0.3															
	193	G811F	Y80M2-4/0.75	0.29	0.3															
CLG020B02J	500	G811F	Y90S-4/1.1	0.45	1.2	32	25	1140	415	850	600X1	125	128	4-Φ19	240	340	320	302	165	200
			Y80M2-4/0.75	0.7	0.8											320			155	
	326	G811F	Y80M2-4/0.75	0.15	1.2															
				0.38	0.8															
	194	G811F	Y80M2-4/0.55	0.15	0.8															
CLG025B01J	402	G811F	Y90L-4/1.5	1.51	0.6	50	40	1250	492	850	600X1	125	133	4-Φ19	240	340	212	312	165	350
			Y90S-4/1.1	2.26	0.3			1220												
	243	G811F	Y90S -4/1.1	0.39	0.6															
	241		Y80M2-4/0.75	1.1	0.3			1200								320			155	
	194	G811F	Y90S -4/1.1	0.07	0.6			1220								340			165	
			Y80M2-4/0.75	0.75	0.3			1200								320			155	
CLG025B02J	402	G811F	Y90L-4/1.5	1.51	0.6	50	40	1250	492	850	600X1	125	133	4-Φ19	240	340	212	312	165	350
			Y90S-4/1.1	2.26	0.3			1220												
	243	G811F	Y90S-4/1.1	0.39	0.6															
	241		Y80M2-4/0.75	1.1	0.3			1200								320			155	
	194	G811F	Y90S -4/1.1	0.07	0.6			1220								340			165	
			Y80M2-4/0.75	0.7	0.3			1200								320			155	
CLG035B01J	504	G813F	Y100L2-4/3	5.49	0.6	65	50	1510	678	1050	400X2	125	128	6-Φ19	240	360	212	312	185	350
		G811F	Y100L1-4/2.2	6.7	0.3															
	333	G811F	Y100L1-4/2.2	3.04	0.6			1480								340			165	
			Y90L-4/1.5	4.13	0.3															
	194	G811F	Y90L-4/1.5	1.05	0.6			1450												
			Y90S-4/1.1	2.05	0.3															

Model	Speed r/min	Reducer Model	Motor	Flow	Pressure	DN1	DN2	L	L1	L2	L3Xn	L4	L5	n-Φd	B1	H	H1	H2	T	S
CLG035B02J	504	G813F	Y100L2-4/3	2.74	1.2	65	50	1510	678	1050	400X2	125	128	6-Φ19	240	360	212	312	185	350
		G811F	Y100L1-4/2.2	3.35	0.8															
	333	G811F	Y100L1-4/2.2	1.52	1.2															
			Y90L-4/1.5	2.07	1.2			1480												
	194	G811F	Y90L-4/1.5	0.53	0.8											340			165	
			Y90S-4/1.1	1.02	0.3			1450												
CLG040B01J	511	G813F	Y132S-4/5.5	11.4	0.6	65	80	1780	831	1350	550X2	125	144	6-Φ19	270	420	240	360	215	450
	504		Y112M-4/4	13.2	0.3			1720								390			195	
	414	G813F	Y112M-4/4	8.67	0.6															
	408		Y100L2-4/3	10.4	0.3			1700								360			185	
	246	G813F	Y100L2-4/3	4.03	0.6															
		G811F	Y100L1-4/2.2	5.74	0.3															
CLG040B02J	511	G813F	Y132S-4/5.5	5.67	1.2	65	80	1780	831	1350	550X2	125	144	6-Φ19	270	420	240	360	215	450
	504		Y112M-4/4	6.7	0.8			1720								390			195	
	414	G813F	Y112M-4/4	4.33	1.2															
	408		Y100L2-4/3	5.21	0.8			1700								360			185	
	246	G813F	Y100L2-4/3	2.02	1.2															
		G811F	Y100L1-4/2.2	2.87	0.8															
CLG050B01J	414	G813F	Y132M-4/7.5	18.3	0.6	80	100	2000	989	1350	550X2	125	143	6-Φ19	270	420	240	360	215	550
			Y132S -4/5.5	21.6	0.3			1950												
	250	G813F	Y132S -4/5.5	9.31	0.6															
			Y112M-4/4	12.2	0.3			1900											195	
	200	G813F	Y112M-4/4	6.57	0.6															
	197		Y100L2-4/3	9.12	0.3			1880												
CLG050B02J	414	G813F	Y132M-4/7.5	9.16	1.2	80	100	2000	989	1350	550X2	125	143	6-Φ19	270	420	240	360	215	550
			Y132S -4/5.5 1	10.8	0.8			1950												
	250	G813F	Y132S -4/5.5 1	4.66	1.2															
			Y112M-4/4	6.1	0.8			1900											195	
	200	G813F	Y112M-4/4	3.28	1.2															
	197		Y100L2-4/3	4.57	0.8			1880												
CLG070B01J	330	G815F	Y160L-4/15	15.2	1.2	100	125	2400	1123	1700	700X2	150	173	6-Φ19	270	460	240	390	255	700
			Y160M-4/11	17.7	0.8			2350												
	243	G815F	Y160M-4/11	10.2	1.2															
	250	G813F	Y132M-4/7.5	13.1	0.8			2300								420			215	
	200	G815F	Y132M-4/7.5	7.8	1.2															
		G813F	Y132S-4/5.5	10	0.8			2260												
CLG070B02J	330	G815F	Y160L-4/15	15.2	1.2	100	125	2400	1123	1700	700X2	150	173	6-Φ19	270	460	240	390	255	700
			Y160M-4/11	17.7	0.8			2350												
	243	G815F	Y160M-4/11	10.2	1.2															
	250	G813F	Y132M-4/7.5	13.1	0.8			2300								420			215	
	200	G815F	Y132M-4/7.5	7.8	1.2															
		G813F	Y132S-4/5.5	10	0.8			2260												

Model	Speed r/min	Reducer Model	Motor	Flow	Pressure	DN1	DN2	L	L1	L2	L3Xn	L4	L5	n-Φd	B1	H	H1	H2	T	S
CLG085B01J	274	G815F	Y180M-4/18.5	49.4	0.6	125	150	2750	1324	1900	750X2	190	282	6-Φ19	310	520	286	486	280	1200
			Y160L-4/15	57.8	0.3			2600								500			255	
	243	G815F	Y132S-4/18.5	42.5	0.6			2750								520			280	
			Y160M-4/11	50.7	0.3			2550												
	195	G815F	Y160L-4/15	31.9	0.6			2600								500			255	
			Y160M-4/11	39.6	0.3			2550												
CLG085B02J	274	G815F	Y180M-4/18.5	24.7	0.6	125	150	2750	1324	1900	750X2	190	282	6-Φ19	310	520	286	486	280	1200
			Y160L-4/15	28.5	0.3			2600								500			255	
	243	G815F	Y132S-4/18.5	21.3	0.6			2750								520			280	
			Y160M-4/11	24.9	0.3			2550												
	195	G815F	Y160L-4/15	16	0.6			2600								500			255	
			Y160M-4/11	19.4	0.3			2550												
CLG105B02Z	238	Er97	Y200L-4/30	86.9	0.6	200	200	3916	1775	3150	700X4	180	195	10-Φ19	360	595	355	550	315	1200
	237		Y180L-4/22	99.2	0.3			3870								580			280	
	208	Er97	Y200L-4/30	73.8	0.6			3916								595			315	
	206		Y180L-4/22	85.1	0.3			3870												
	158	Er97	Y180L-4/22	51.8	0.6			3870								280			280	
	157		Y180M-4/18.5	62.7	0.3			3820												
CLG0105B02J	238	Er97	Y200L-4/30	43.4	1.2	200	200	3916	1775	3150	700X4	180	198	10-Φ19	360	595	355	550	315	1200
	237		Y180L-4/22	49	0.8			3870								580			280	
	208	Er97	Y200L-4/30	36.9	1.2			3916								595			315	
	206		Y180L-4/22	42.5	0.8			3820												
	158	Er97	Y180L-4/22	25.9	1.2			3870								280			280	
	157		Y180M-4/18.5	31	0.8			3820												
CLG135B02Z	173	Er107	Y225M-4/45	129.6	0.6	200	200	4560	2146	3740	850X4	170	191	10-Φ24	380	730	436	656	335	2500
			Y225S-4/37	149.4	0.3			4520												
	146	Er107	Y225S-4/37	104.8	0.6			4520								730			335	
			Y200L-4/30	123.6	0.3			4460								720			305	
	128	Er107	Y225S-4/37	88.4	0.6			4520								730			335	
			Y200L-4/30	106.4	0.3			4460								720			305	
CLG135B02Z	173	Er107	Y225M-4/45	64.8	1.2	200	200	4560	2146	3740	850X4	170	191	10-Φ24	380	730	436	656	335	2500
			Y225S-4/37	74.7	0.8			4520												
	146	Er107	Y225S-4/37	52.4	1.2			4520								730			335	
			Y200L-4/30	61.8	0.8			4460								720			305	
	128	Er107	Y225S-4/37	44.2	1.2			4520								730			335	
			Y200L-4/30	53.2	0.8			4460								720			305	

Notes

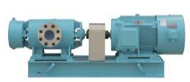
1.Data in the table is based on test medium of water and may differ under different test media;

2.If parameters of product performance, motor speed, etc. are beyond range in performance parameters table, please contact the technical department of our company for satisfactory service;

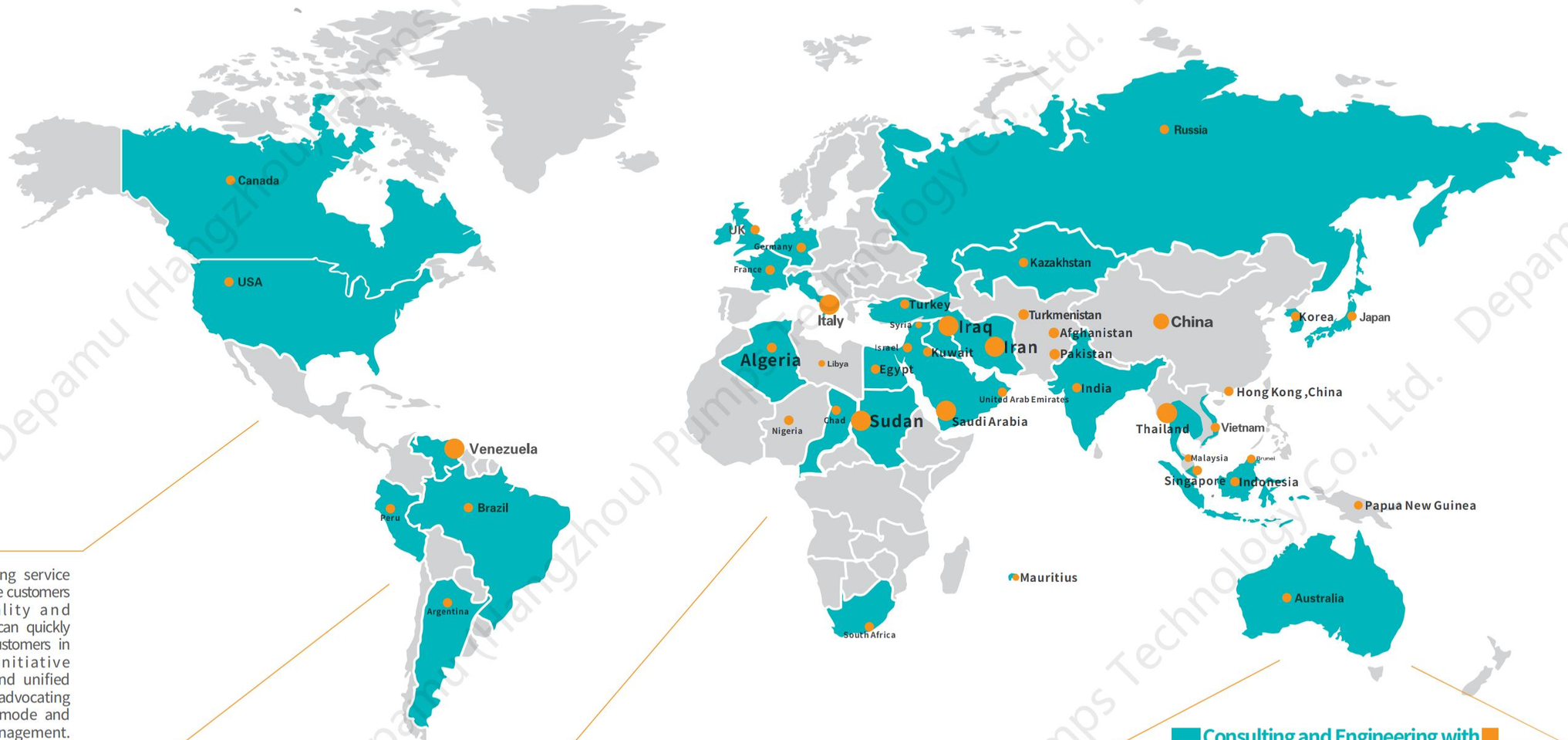
3. Motor model can be adjusted as per requirements to improved type (Y2, Y3), explosion-proof (YB2, YB3) or variable frequency (YVF, YVP), etc.;

4. If a variable-frequency motor will be used to drive product, please contact the technical department of our company for selection of proper control system model.

Conilowa Pump Categories

CONILOWA 德帕姆旗下高端品牌 克尼罗瓦	Single Screw Pump	Double Screw Pump	Three Screw Pump	Lobe Pump
Product Categories				
Product Series	CLGA/CLL CLD/CLP	CL2G/CL2GRN/ CL2GS/CL2Gap	CLSNH/CLSM CLSNJ/CL3G	CLB/CLPL CLZ/CLJ
Fluid Viscosity	1~1000000Cst	0.5~1000000Cst	2~1500Cst	0~1000000Cst
Capacity	0.2-400m³/h	0.5-2000m³/h	0.5-300m³/h	0.2-3000m³/h
Max. Pressure	4.8Mpa	6.3Mpa	16.0Mpa	3.0Mpa
Max. Fluid Temperature	150°C	350°C	200°C	240°C
Fluids	Industrial and household sewage, pulp, acid-base solution, coal water slurry, dry sludge, jam, toothpaste, medical toothpaste…	Crude oil, fuel oil, asphalt, hyper-viscous polymer, tar, coal water slurry, lubrication oil, syrup, animal and vegetable oil…	Light diesel oil, heavy fuel oil, crude oil, lubrication oil, hydraulic oil, anhydrous ethanol, gear oil, coolant…	Acid, alkali, salt, latex solution, resin, pigment, ink, painting, glycerol, paraffin, cosmetics…
Main Application Fields	Industries of environmental protection, paper-making, food, medicine, petrochemical, architecture…	Petroleum, chemical, building material, power generation, shipbuilding, food…	Metallurgy, electricity, petrochemical, shipbuilding, building material, hydraulic, machine tool, highway…	Environmental protection, chemical, vehicle-mounting, mining, agriculture, daily necessity, fire prevention, chemical fiber, coating…

Global Service System



Sales Network

The professional engineering service teams of the company can provide customers with whole-process quality and efficient service. The company can quickly meet demands of multi-level customers in multiple fields through initiative construction of an efficient and unified global sales service network, advocating of a global localization sales mode and implementation of brand management. Due to supply of value-added service, the company is highly praised by its customers.

Customer Orientation

The company has built a global technical service network sincerely offering pre-sales and after-sales service.

Integrated Service

- Vibration Analysis
- Medium Assessment
- Site Commissioning
- System Testing
- Service and Repairing Contract
- Global Service
- Diagnosis of Change in Operation Conditions
- Extension and Modification of Running Pump and System

Solution for Extensible System

- Pump Instrument
- Flow Adjustment via Frequency Converter
- Operation Interface for Guidance System
- Electronic Control of System Monitoring Online and Offline

Consulting and Engineering with Special Requirements

Conilowa products are widely applied all over the world, which brings lots of experience where the company can learn and benefit. As a supplier of solutions and systems for liquid transfer, metering and mixed application, we can provide personalized solutions from the smallest independent unit to the biggest multi-link installation; at the same time, we can provide technical engineering consulting service for complex processes as well as solutions meeting the needs of special processes.

- Fluid Evaluation
- Independent Design Concept
- Cost Calculation for Installation Project
- Commissioning and Service
- Seminars and Site Training