







Progressive Cavity Pump

Progressive Cavity

-  Simple structure, easy maintenance and robust design allow for ease of maintenance.
-  Strong suction capability with suction lift reaching up to 8m. Our pump design has low NPSHr.
-  High efficiency with volumetric efficiency up to 96%. Mechanical efficiency 70 - 80%.
-  Able to handle abrasive liquid & viscosity up to 1,000,000 cPs .
-  Liquid with solid content up to 45% - 70% depending on type and size.
-  Pulsation free with low noise and continuous operation.



Industries



Rubber Industry



Sugar Industry



Palm Oil



Pulp & Paper



Oil & Gas



Power



Marine



Treatment Plant

and many others...

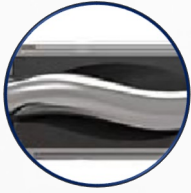


Standards And Certifications

pumps are designed and manufactured with the highest quality and international standards and are certified by ISO 9001:2015, OHSAS 18001:2007 and ISO 14001:2015 for design and manufacturing of single screw pump. Also our design and manufacturing facility have passed the CCS (China Classification Society) quality system certification, and is a member of screw pump professional drafting standards committee of JB/T8644-2007 as well as HJ2524- 2012 (technical requirement protection product of single screw pump) and has independent intellectual property rights to the core technology. We have an extensive research and testing facility and are constantly developing and improving the design and production of progressive cavity pumps.

Robust And Reliable

Our pump is designed with a robust structure, simple construction and ease of maintenance. Each part is carefully built with high grade and quality materials.



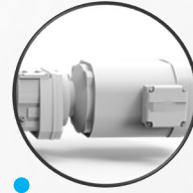
Stator

Various elastomer material; NBR, EPDM, Viton, PTFE etc



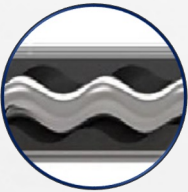
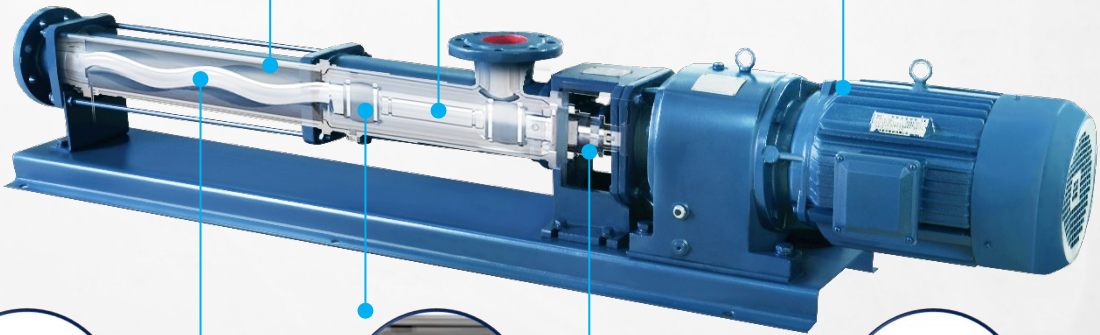
Joints

Universal cross joint for stronger and robust connection.



Driver

Proven quality of gearmotors manufacturers.



Rotor

Varying rotor geometries & surface material to suit each application needs.



Joint Seal

Reliable and robust design for longer lasting performance.



Shaft Seal

Wide list of seal selection from gland packing to mechanical seal with flushing plans etc.

Application

Viscosity

Suitable for liquids that are shear sensitive from low to high viscosity. Our pump is capable of transferring media with viscosity up to 1,000,000 cPS/mPas; E.g. water, emulsions, non-Newtonian fluids.

Abrasion

The design of our elastomers is abrasion resistant and can be used to pump liquids with solid content up to 45%. From small to relatively large solid particles, our pump is ideal for slurry, sandy and abrasive liquids.

Dilatant

Dilatant fluids, also known as shear thickening fluids, are liquids or solutions whose viscosity increases as stress is applied. PC pump, a low shear pump is perfect for this type of liquid. E.g. cornstarch, silica gel etc

Thixotropic

Thixotropic fluids are fluids when subjected to shear stress will have decreasing viscosity. Like dilatant fluids, they are both non-Newtonian in nature. They are the direct opposite to dilatant fluids. E.g. ketchup sauce, gypsum etc

Positive Displacement Pumps Comparison



Product Line Overview

Close Coupled



Pump shaft is directly driven, compact structure and shorter in length.

Capacity (max) : 600 m³/hr Pressure (max) : 24 bar or higher

Compact



Motor is installed above the pump and is driven via belt and pulley, hence shorter structure.

Capacity (max) : 200 m³/hr Pressure (max) : 24 bar or higher

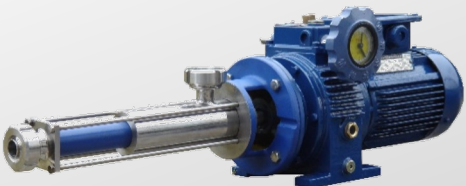
Bearing Pedestal



Pump is driven through bearing pedestal; strong load-bearing ability, good rigidity.

Capacity (max) : 600 m³/hr
Pressure (max) : 48 bar or higher

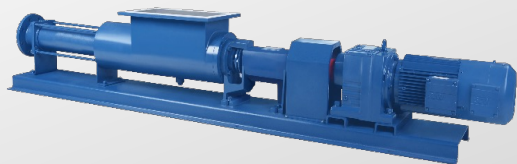
Metering



Dosing chemical or liquid with adjustable speed and high accuracy.

Capacity (min) : 0.03 L/min Pressure (max) : 24 bar or higher
Metering Accuracy : $\pm 1\%$

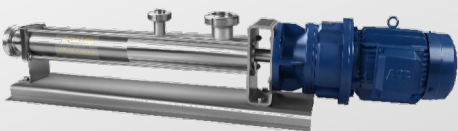
Hopper



Pump housing with hopper design suitable for high viscosity and high solid content medium.

Capacity (max) : 100 m³/hr
Pressure (max) : 48 bar or higher

Hygienic



Designed for food & pharmaceutical application with surface polishing.

Capacity (max) : 200 m³/hr
Pressure (max) : 24 bar or higher

Product Line Variation

Vertical



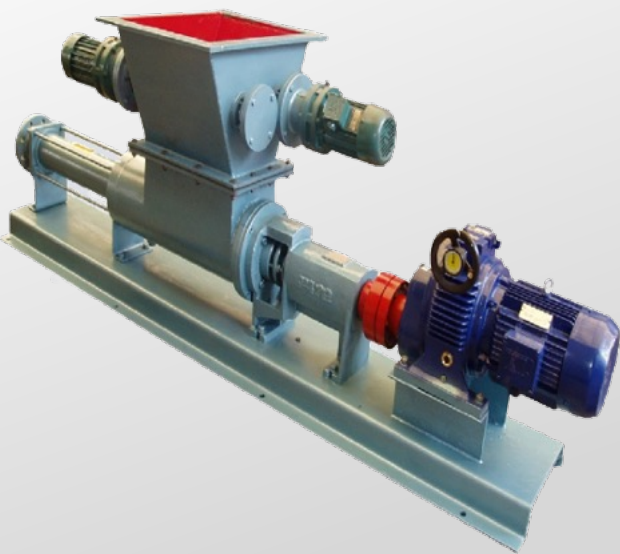
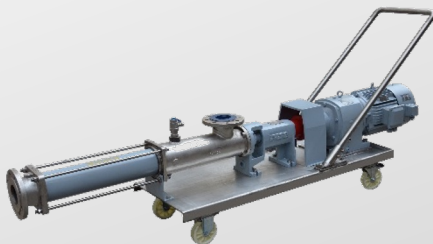
Designed with bracket hoist or mounting plate for vertical installations. Ideal for high negative suction applications.

Capacity (max) : 200 m³/hr Pressure (max) : 24 bar or higher

Vertical length of installation can be designed according to requirement

Customized Designs

We can incorporate any customized design according to your application needs.



Hopper with Bridge-Breaker



Barrel System

Nomenclature

Code

Pump Series
P : Progressive
Cavity Pump

Size

<u>G</u>	<u>L</u>	<u>P</u>	<u>T</u>	<u>C</u>
501	001	030	070	070
502	002	035	085	085
503	005	040	105	105
504	008	050	135	135
505	014	060		
515	024	070		
520	041	085		
	047			
030	069			
034	115			
040	168			
050				
060				
070				
085				
105				
135				
150				
170				
220				

Pressure Stage

<u>G</u>	<u>L</u>	<u>P</u>	<u>T</u>	<u>C</u>
01	06	05	06	05
02	12	10		
03	18			
04				
06				
08				

Material

- ☐ **P** – Standard (Carbon Steel, Cast Iron)
- ☐ **F** - SS304
- ☐ **M** - SS316
- ☐ **A** - Special for CWS
- ☐ **Q** - Others

P G X 050 B 02 Z P ☐

- ☐ **G-1/2** Standard Lead
- ☐ **L-1/2** Long Lead
- ☐ **T-2/3** Standard Lead
- ☐ **C-2/3** Long Lead
- ☐ **P**-Slurry Spout Pump
- ☐ **GK**-Mine Pump

- ☐ **B** - Close Coupled
- ☐ **L** - Vertical Type
- ☐ **D** - Large Short Type
- ☐ **S** - Loose Propeller
- ☐ **N** - Hopper Type
- ☐ **H** - Bridge-Breaker & Feeder
- ☐ **W** - Hygienic Type

- ☐ **Z** - Bearing Pedestal
- ☐ **J** - Direct Couple

- ☐ **Z** - Compact Type
- ☐ **W** - Shaftless Screw
- ☐ **J** - Thermal Insulation

Series

Structure

Type

Accessories

Size And Performance Range

Model	Capacity	Pressure	Size
PGX030	0.7 - 2.0 m ³ /hr	6 - 24 bar	2"
PGX035	1.4 - 3.8 m ³ /hr	6 - 24 bar	2.5"
PGX040	3.0 - 6.6 m ³ /hr	6 - 24 bar	3"
PGX050	2.0 - 11.3 m ³ /hr	6 - 24 bar	3"
PGX060	8.9 - 13.2 m ³ /hr	6 - 24 bar	4"
PGX070	4.1 - 16.5 m ³ /hr	6 - 24 bar	5"
PGX085	11.0 - 30.0 m ³ /hr	6 - 24 bar	6"
PGX105	12.5 - 55 m ³ /hr	6 - 24 bar	6"
PGX135	19 - 85 m ³ /hr	6 - 24 bar	8"
PGX150	34 - 146 m ³ /hr	6 - 24 bar	8"
PGX170	55 - 176 m ³ /hr	6 - 24 bar	10"
PGX220	400 m ³ /hr	6 - 24 bar	12"



Our Services

After Market Services

Our team of experienced service personnel ensures that you will receive fast and professional solution for your technical problems on site. Our service team can ensure your equipment continues to work efficiently providing long term trouble-free operation.

Spare Parts

Our range of spare parts supply is not limited only to the FLOMAC" range of pumps but also including various makes and manufacturers. Our global factories produces high quality parts for well-known brands in the market for progressive cavity pump

Inventory

We have a wide range of stock especially common wear and tear parts that are readily available for your urgent needs.

WASTEX

บริษัท เกรทโอเรียนเต็ลเทรดดิ้ง จำกัด



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