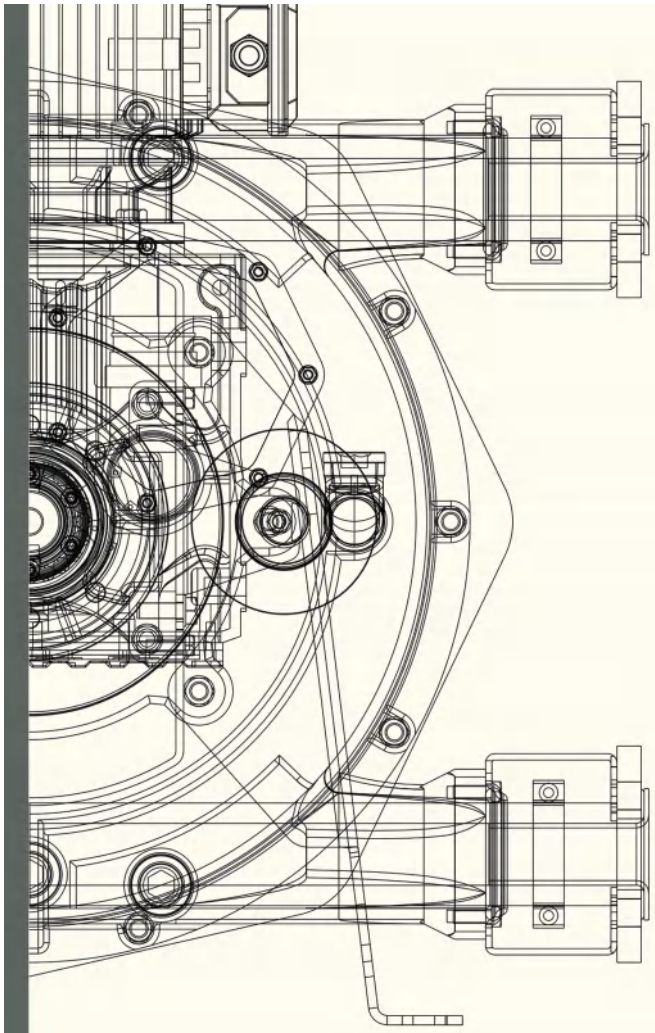
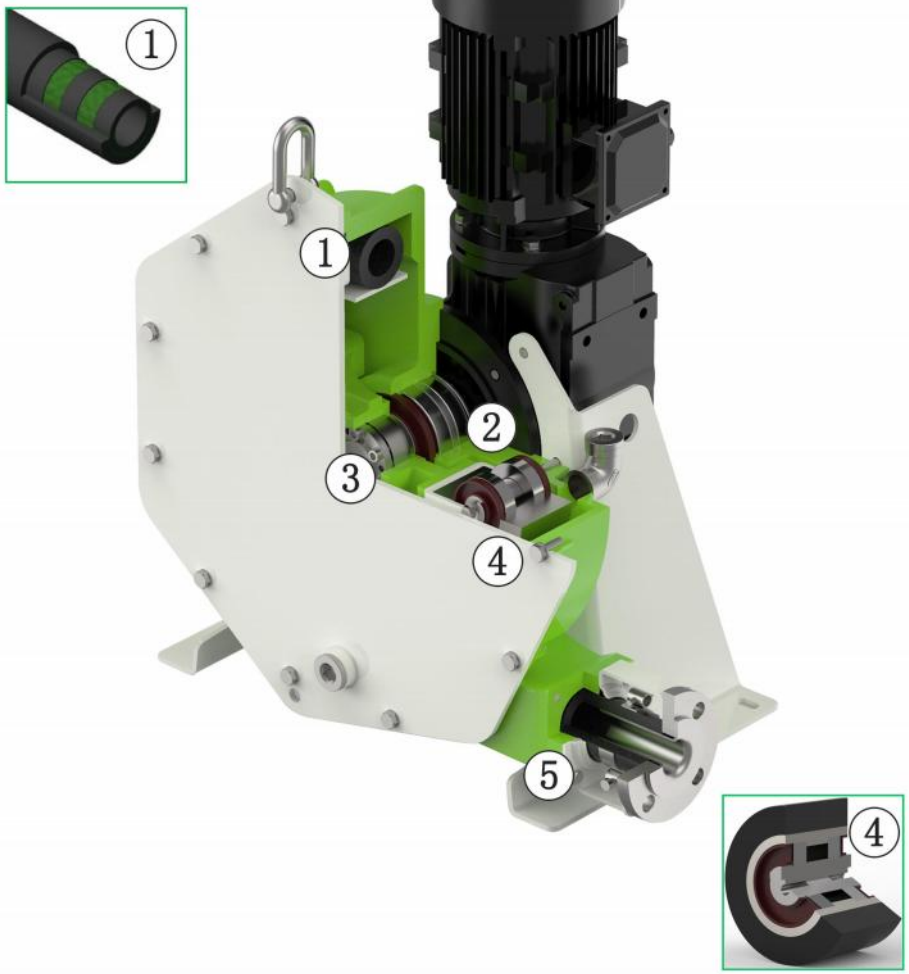


HOSE PUMP

YMING

SHANGHAI YMING PUMP CO.,LTD

YMING
HOSE PUMP



1

Peristaltic Hose with New Technology

High quality hose with unique manufacturing process. The squeezed The extruded inner layer, high-density textile reinforcement and precision-machined out layer ensure optimum compression and fast installation thanks to controlled tolerances. Compatible with almost all types of media and commonly available materials.

2

Much Heavier Design for Hard Application

Integrated oversized bearings to accommodate radial loads. Large rollers with oversized bearings, safe and reliable connection system and very strong casting material. Ideal pump for continuous duty applications. Unparalleled pump lifetime and superior equipment performance for any operating condition, however the requirement.

3

Easy to Install, Operate and maintain

Quick assembly, commissioning and maintenance. The simple design of the pump body and innovative components facilitate the removal of components and the replacement of hoses, improving the ease of maintenance. Add a small amount of lubricant. Minimal waste made. Saves maintenance costs, easy to assemble and reduce downtime.

4

Roller Technology

Good compression hose, rolling friction and high efficiency. Low energy consumption and better hose lifetime. Suitable roller size, easy to operate, with minimum starting torque and wide frequency range, mainly saving energy, increasing hose working time and convenient operation.

5

Easy Inlet and outlet Connection

The unique inlet and outlet bracket design of YM series hose pump, realizes the convenience of operation and perfect sealing at the same time through the simplest accessories. This also significantly reduces the time spent changing hoses. Reduces downtime with easy hose changes.

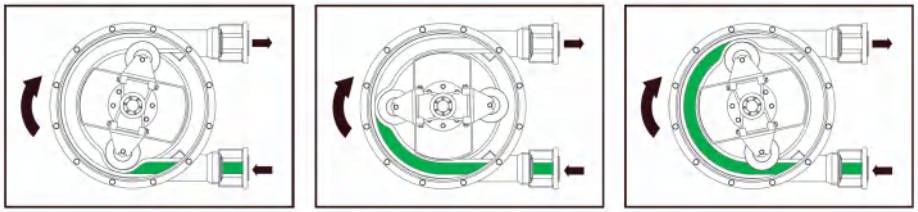
Yming

SHANGHAI YMING PUMP CO.,LTD

We believe that the focus of pumps is to realize the complete customer needs at any time, provide the best products, support and services. We are based on a high-quality team with more laborers who worked in the industrial hose pump industry for more than 10 years.
Innovative design, selection of equipment always adapted to find the best solution for customers. The competitiveness of products, the adaptability and professionalism of the team make Yming Pump a growing company in the future.



How Hose Pump Work



1. The working principle of the hose pump is based on the alternate expansion and contraction of the elastic hose to transport impurities,similar to the way the throat and esophagus of the human body work.

2. A hose with a smooth inner wall and reliable strength is installed inside the pump body, and the two rollers on the rotor rotate and squeeze to make the medium transport in one direction.

3. The hose is deformed after being squeezed, so that a large vacuum pressure is formed inside the hose, and the medium is sucked into the pump body.

4. The pumped medium does not touch the pump parts at all, and is only pumped through the hose with reliable sealing strength.

5. This pumping method is ideal for precise metering and dosing applications and is available in pressure ratings up to 10 bar.

6. The hose has an inner outer, layer and a fiber reinforced layer, which can withstand higher working pressure and generate higher suction.

Peristaltic Hose Pump Features

- Best abrasive resistance
- Great suction ability
- Can work without medium
- No valves and mechnical sealings
- Reversible pumping.
- Full dose control.
- Industrial, corrosion-resistant and food versions.
- Dosing accuracy was ±1%.



YM hose pump quick selection table

Model	Flow rate(L/H)	Max Pressure(bar)	Speed(RPM)	Power(Kw)	N.W.(KG)
YM-10	62	12	48	0.37	17
YM-15	240	12	48	0.55	35
YM-20	434	12	48	0.75	35
YM-25	774	10/16	43	1.1	80
YM-32	1613	10/16	43	1.5	120
YM-40	3200	10/16	40	2.2	165
YM-50	7000	10/16	40	4.0	260
YM-65	12180	10/16	35	7.5	474
YM-80	21000	10/16	35	11	520

YM Hose Pump Advantages

Special Roller Design

Energy savings of up to 30%, easy hose replacement, wide operating range and low starting torque. Thanks to the high-efficiency roller structure, the YM hose pump can be used without adding lubricating oil.

Unique Vertical Design

The unique vertical design of the YM hose pump reduces the footprint by 70%.

Full Sealed Design

No leakage at any situation.

Difficult Medium is not problem, We like them!

- Abrasive products
- Lime milk, activated charcoal and sludge
- Corrosive products
- Sodium hypochlorite, ferric chloride, hydrochloric acid
- Viscous Products
- Water-based glues, oils, creams, resins.
- Shear Sensitive Products
- Latex, polymers and flocculants, food.

Hose Pump YM10|YM15|YM20

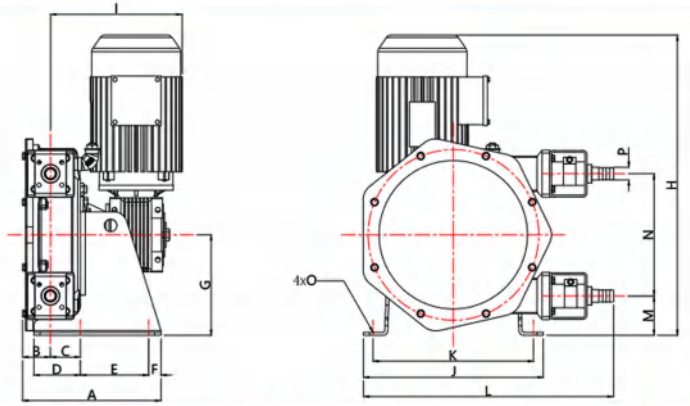
Easy to install for precise dosing.

The flow range of hose pump models YM10, YM15 and YM20 is between 13L/H and 820L/H. These robust pumps in a compact vertical design are suitable for all types of abrasive, corrosive, viscous or fragile products with discharge pressures up to 10 bar.
Dosing of chemicals, additives, milk of lime, activated carbon and polymers are some of the major applications addressed by low flow YM hose pumps with the most precise flow control,process efficiency while being easy to install and maintain.





Models YM10, YM15 and YM20 have been designed with a focus on realizing a small pump, which is unique in the market. The high-precision design can free the reducer from fatigue and maximize its service life.
Due to the precision of all pump body components, as well as the differentiated manufacturing process of the peristaltic hoses, and the quality of their materials. a durability unmatched in the market is achieved.

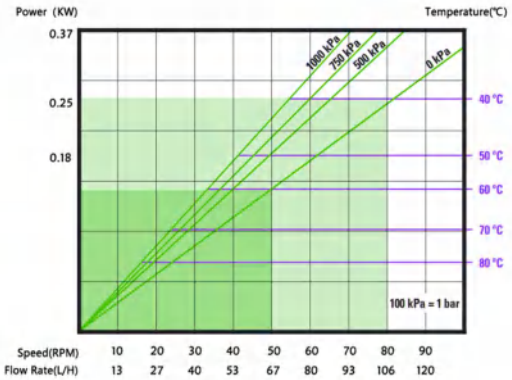


Unit:mm

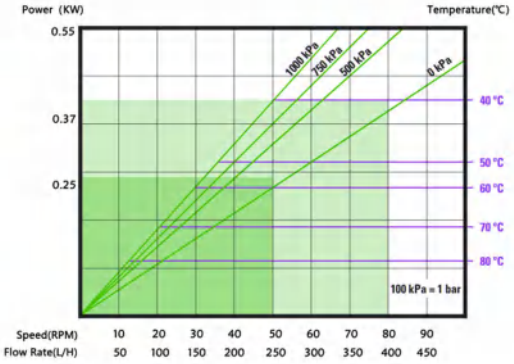
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
YM-10	222	44.5	54.5	55.3	100	23	114.5	339.5	169.5	226.7	220.4	279.8	54.5	120	ϕ10	10.5
YM-15	223	45	48	75	110	20	162.1	484.4	212	290	258	403	63.6	197	ϕ12	15.6
YM-20	223	45	48	75	110	20	162.1	484.4	212	290	258	403	63.6	197	ϕ12	20.4

Dimensions may vary depending on the motor.

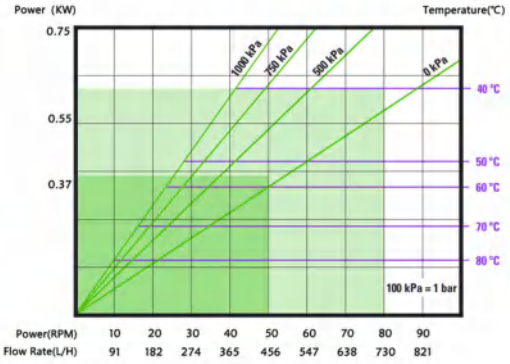
Model	YM-10
Max Flow rate	120L/H
Flow rate	0.022L/R
Max Pressure	10bar
Max Tem.	95℃
Size	φ10mm
Connection	Pagoda
Receommend	45rpm



Model	YM-15
Max Flow rate	450L/H
Flow rate	0.083L/R
Max Pressure	10bar
Max Tem.	95℃
Size	φ15mm
Connection	Pagoda
Receommend	45rpm



Model	YM-20
Max Flow rate	821L/H
Flow rate	0.152L/R
Max Pressure	10bar
Max Tem.	95℃
Size	φ20mm
Connection	Pagoda
Receommend	45rpm



How to Use Performance Curves
1.Determine the required flow rate
2.Determine the outlet pressure
3.Net motor power required
4.Product temperature
5.Calculate outlet pressure
6.Recommended maximum speed of the pump

HOSE PUMP YM25|YM32

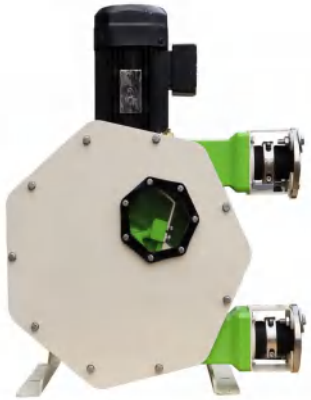
The most compact and heavy duty medium flow solution

The range of medium flow is from 180L/H to 3000L/H, completely covering YM pump models YM25 and YM32.

The competitiveness of these models, all from an economical and technical point of view, makes this range of products unrivaled in the market. It's an efficient but heavy-duty design, with the hose providing maximum precision in metering, and effectiveness and durability.

Dry-running capability and powerful suction without check valves and seal water flushing the system make Optimum peristaltic (hose) pumps the best choice for medicie delivery. Or for transferring highly abrasive, shear sensitive, viscous or corrosive products.

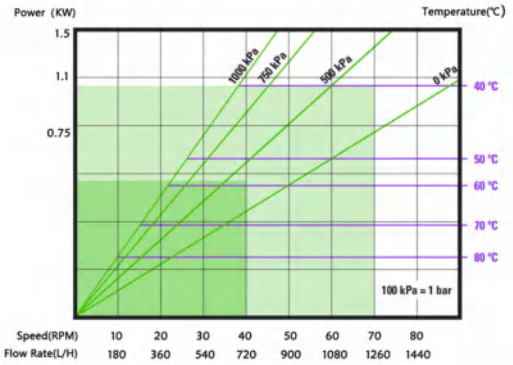




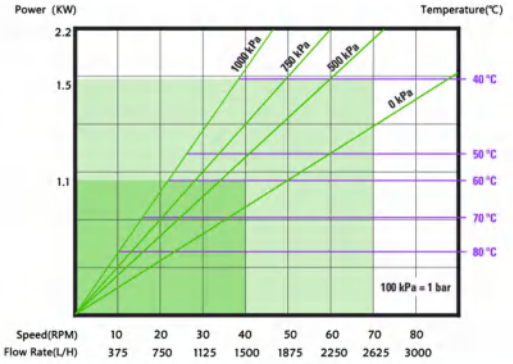
The robustness of the YM25 and YM32 hose pumps is based on two integrated bearings that absorb the load between the rotor and reducer, rotor assembly and rollers with maximum performance and innovative design, a compact and easy-to-install pump system, and very Sturdy pump body castings. Fully handles the same latest hardening and corrosion protection processes as on the market.

The output shaft of the bearing box and the rotor are connected by expansion sleeves. The biggest advantage of this design is that it is easy to install and disassemble, and effectively reduces the difficulty and time required for maintain.

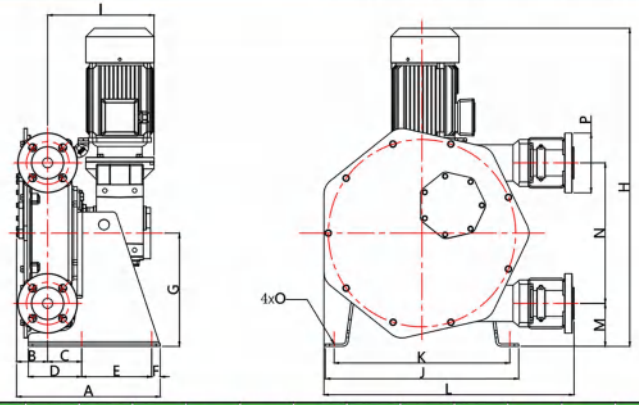
Model	YM-25
Max Flow rate	1440L/H
Flow rate	0.3L/R
Max Pressure	10bar
Max Tem.	95℃
Size	φ25mm
Connection	DN25 FLANGE
Receommend	43rpm



Model	YM-32
Max Flow rate	3000L/H
Flow rate	0.625L/R
Max Pressure	10bar
Max Tem.	95℃
Size	φ32mm
Connection	DN32 FLANGE
Receommend	43rpm



For details on how to use the graph, see P6.



Unit: mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
YM-25	310	66.5	68.5	115	155	20	230.2	711.7	243.5	400	355	504	98.2	264	Φ12	DN25
YM-32	337.4	73	79.5	125	165	20	266.1	747.4	249.5	454	412.6	587.5	101	330	Φ12	DN32

Dimensions may vary depending on the motor.

HOSE PUMP YM40|YM50

Efficient and long-lasting pumping and dosing.

YM40 and YM50 models complete the YM hose pump pipeline flow range between 800L/H to 12250L/H. This can be extended to a maximum of 24500L/H with a double head pump. Both models are ideal for dosing operations of all types of products due to good flow control, constant flow rate in variable pressure applications and gentle pumping.

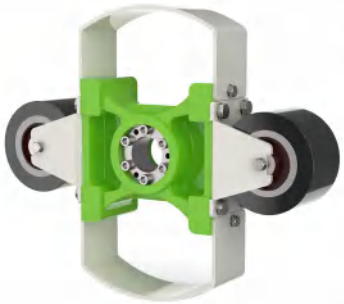
The accuracy can reach ±1%.

While they are also ideal for fluid transfer, YM hose pumps pump highly abrasive, viscous or contain solids in suspension as the pump has a larger solids size capacity. No need for check valves and seal water flushing systems, heavy duty bearing housings and horizontal one-piece design make the Yming peristaltic hose pump a very robust and ideal choice. Regardless of any pumping application. No matter how difficult it might be, or have uncertain dry runs.

The self-priming capacity is as high as 9.5m.

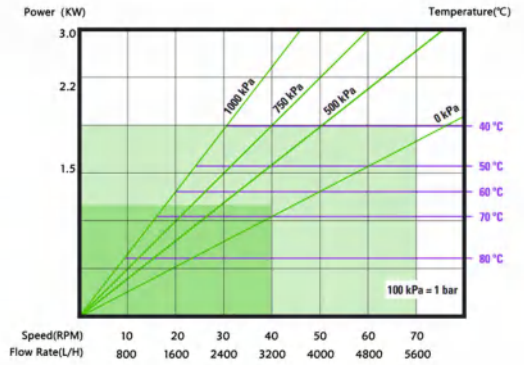
The best capacity of the series pumps.



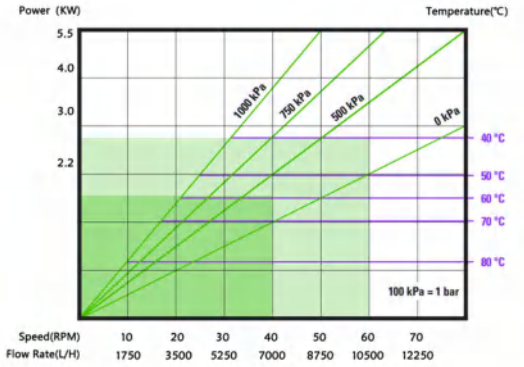


Just like the smaller YM hose pump, these two models offer the exact same stability and durability. This is thanks to a very compact vertical design and uses rollers with a hose squeeze. Compared with the shoe type on the market, this hose beginning method has a smaller friction coefficient and can greatly reduce the starting torque. And a technically differentiated advanced manufacturing process of extruded tubes, which maximizes the service life of the component, and reduces and optimizes maintenance times and production costs for maintenance functions.

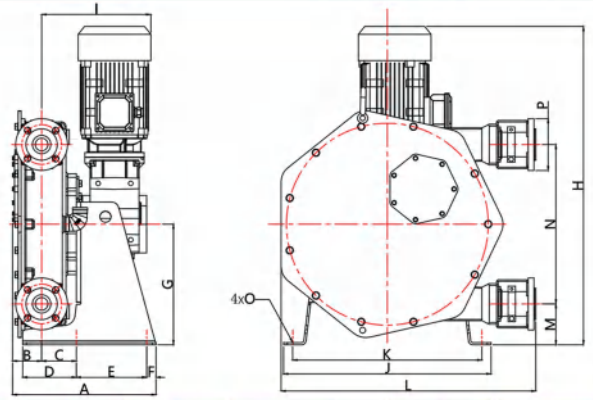
Model	YM-40
Max Flow rate	5600L/H
Flow rate	1.33L/R
Max Pressure	10bar
Max Tem.	95℃
Size	φ40mm
Connection	DN40 FLANGE
Receommend	40rpm



Model	YM-50
Max Flow rate	12250L/H
Flow rate	2.92L/R
Max Pressure	10bar
Max Tem.	95℃
Size	φ50mm
Connection	DN50 FLANGE
Receommend	40rpm



For details on how to use the graph, see P6.



Unit:mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
YM-40	387	78.5	93.5	145	190	25	325.3	858.8	294.5	560	510.6	687.1	110.3	430	Φ14	DN40
YM-50	413	90	103	160	195	25	418.3	951.8	304	656.1	598	830.2	141.3	554	Φ16	DN50

Dimensions may vary depending on the motor.

HOSE PUMP YM65|YM80

Heavy-duty solution for heavy flow rate.





The flow range covered by YM65 and YM80 models is between 3480L/H and 36000L/H. Of course, this can also be extended to a maximum of 72000L/H through a double-head pump.

The volume of large hose pumps is an urgent problem to be solved, so we specially designed two different volume structures: vertical and horizontal. The vertical structure is short in length and occupies a small area. But if the height is limited, the horizontal hose pump can avoid this problem very well. (Of course, the horizontal structure is also suitable for any type of small hose pump.)

YM large hose pumps are specially designed to solve the problems of traditional pumping applications. Compared with screw pumps and slurry pumps, YM hose pumps can pump high-content and highly corrosive media with low maintenance costs.

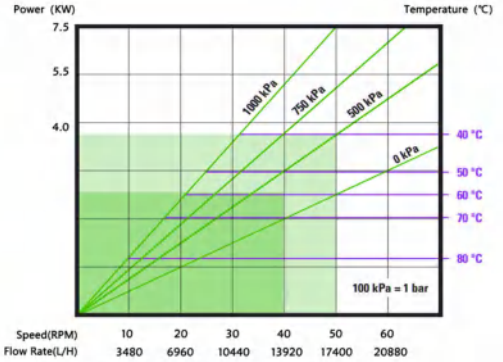


A separate split bearing housing is installed in the pump casing. Provides perfect alignment and adequate absorption of loads on the reducer shaft.

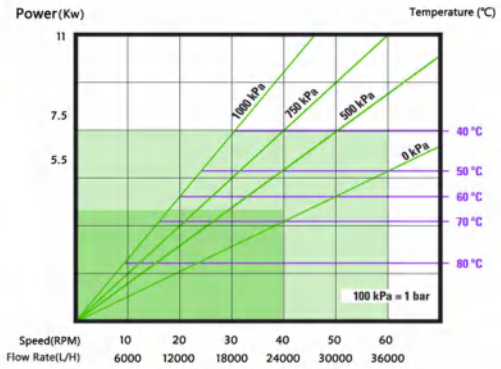
The bearing housing consists of a central hub, oversized bearings plus the pump shaft in order to achieve a compact and very robust assembly. The incorporation of this assembly provides unrivaled robustness and strength to the pump, even in the harshest conditions of the part, pressures up to 10 bar and continuous duty applications.

Minimizing maintenance costs is also one of the main purposes of designing the split bearing housing, which facilitates disassembly and replacement of accessories, reduces system downtime and prolongs the service life of the reducer.

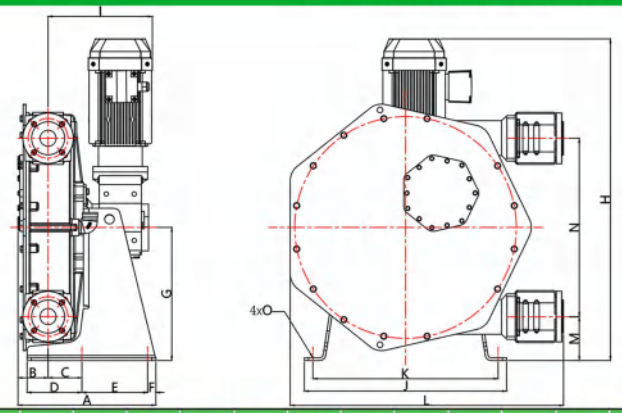
Model	YM-65
Max Flow rate	20880L/H
Flow rate	6.7L/R
Max Pressure	10bar
Max Tem.	95℃
Size	φ65mm
Connection	DN65 FLANGE
Receommend	35rpm



Model	YM-80
Max Flow rate	36000L/H
Flow rate	10L/R
Max Pressure	10bar
Max Tem.	95℃
Size	φ80mm
Connection	DN80 FLANGE
Receommend	35rpm



For details on how to use the graph, see P6.



Unit:mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
YM-65	503.5	110	123.5	200	240	30	485	1173	380.4	737.7	675.7	996.5	160.1	650	Φ18	DN65
YM-80	1120	128.5	140.5	235	390	50	555.1	1072	501.5	830.1	766	1149	180.1	750	Φ20	DN80

Dimensions may vary depending on the motor.

HOSE PUMP YM100|YW125

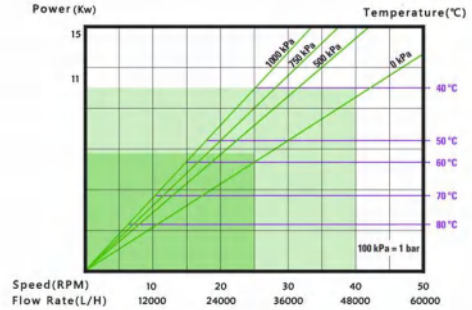
High Standard Roller Type Large Hose Pump.



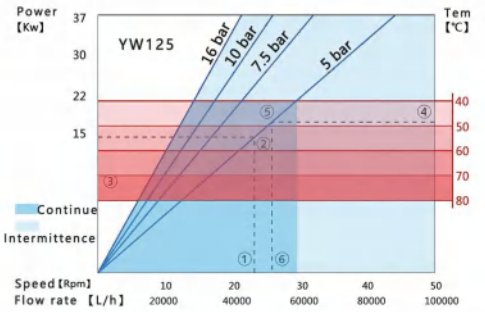
The flow range covered by YM100 and YW125 models is between 12000L/H and 100000L/H. Of course, this can also be extended to a maximum of 120000L/H through a double-head pump.

YM large hose pumps are specially designed to solve the problems of traditional pumping applications. Compared with screw pumps and slurry pumps, YM hose pumps can pump high-content and highly corrosive media with low maintenance costs.

Model	YM-100
Max Flow rate	60000L/H
Flow rate	20L/R
Max Pressure	10bar
Max Tem.	95℃
Size	φ100mm
Connection	DN100 FLANGE
Receommend	30rpm



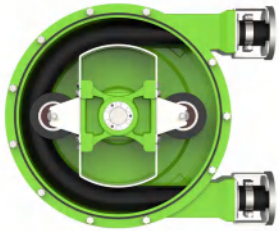
Model	YW-125
Max Flow rate	100000L/H
Flow rate	33.33L/R
Max Pressure	16bar
Max Tem.	95℃
Size	φ125mm
Connection	DN125 FLANGE
Receommend	30rpm

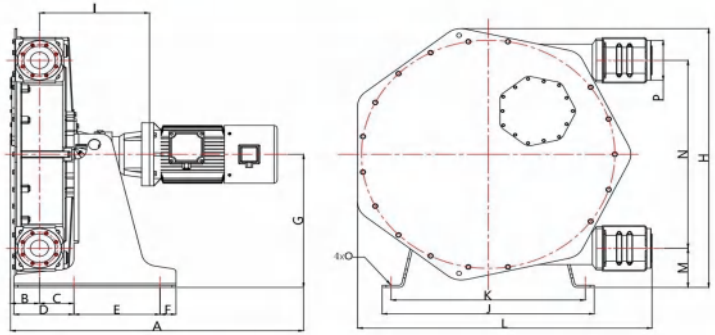


For details on how to use the graph, see P6.

YM100 is designed at roller type,which is good for energy saving and liquid transfer under low to medium pressure applications.

The pump YM100 can operatewithout lubricant oil if the work situation needed. It can be added some grease. And YM pump has excellent seal system, so the pump can operate with lubricant for a long lifetime.





Unit:mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
YM-100	1392	144.5	172	316.5	540	50	707.5	1415	700	1150	1050	1468	199	1042	Φ22	DN100
YW-125	1712	288	376	664	686	150	950	1750	1000	1168	1068	1777	315	1270	Φ22	DN125

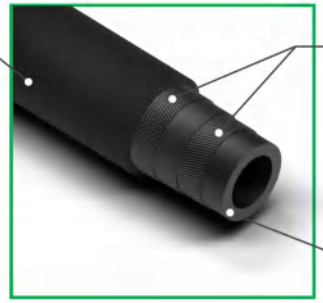
Dimensions may vary depending on the motor.

Hose Pump Parts

The hose is the core component of the pump

YM-HOSE

The machined hose elements are the most important part of the pump, ensuring that the pump operates efficiently and effectively. To guarantee optimum compression and reliable operation, the hose elements are made of a very high quality rubber compound. The hose is reinforced in the form of four separate layers of nylon cord. Each hose is precision machined. Optimal compression eliminates slippage, which in other pumps can damage the structure of pumped media that are sensitive to spillage. Insufficient manufacturing precision of hose reducesmetering accuracy and increases wear of pump parts.
The inner layer of the hose is made of a variety of materials and can pump a variety of media.





Materials: NR
(natural rubber)

Excellent wear resistance usually resistant to Dilute acid and alcohol.
Temperature resistance:
-20~80℃
Examples: Sludge up to 85% solids, magnesium oxide and titanium dioxide water-based paints, pigments, food waste

Material: EPDM
(EPDM rubber)

Excellent chemical resistance, especially to ketones, alcohols and concentrated acids.
Temperature resistance:
-20~95℃
Examples: sodium hypochlorite, sodium bisulfate, ferric chloride, hydrochloric acid





Material: CSM
(chlorosulfonated polyethylene rubber)

Excellent resistance to strong oxidizing products and concentrated acids and bases.
Temperature resistance:
-20~85℃
Examples: cationic hydrogen peroxide content up to 60% (°C)

Material: NBR
(Nitrile rubber)



Resistant to oils (non-mineral), grease, alkalis and detergents.
Temperature resistance:
-20~80℃
Examples: fruit and fruit concentrates yogurt and dairy products, yeast, sugar, food additives, resistant to various cleaning chemicals



Material: NBR-F
(food grade nitrile rubber)

White inner surface for easy food contact Suitable for all kinds of food products, including dairy products.
Temperature resistance:
-20~80℃
Examples: Different Kinds of food

Material: NR-F
(food grade natural rubber)



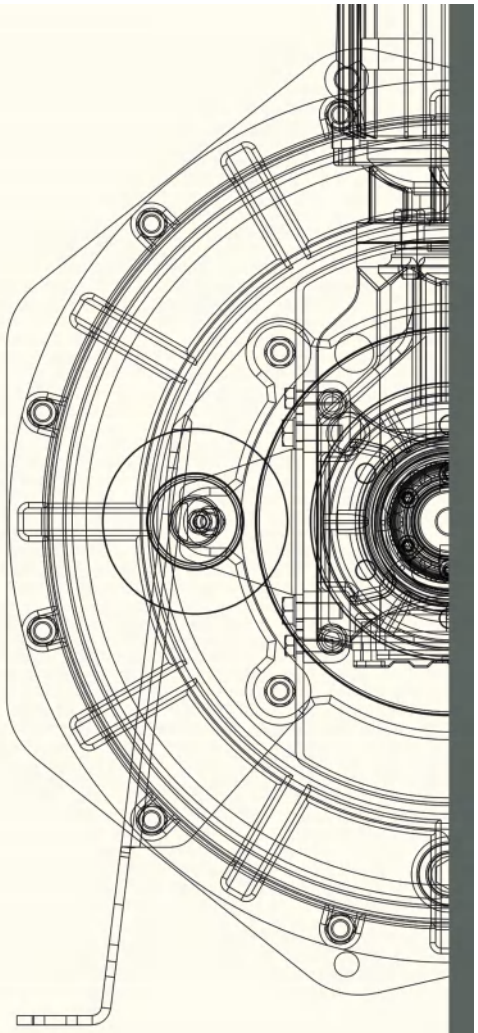
White inner surface for easy food contact
Suitable for all kinds of food products, including dairy products.
Temperature resistance:
-20~95℃
Examples: Different Kinds of food

Special lubricants and coolants for hose pumps

The lubricant reduces the friction between the roller and the hose, effectively increasing the service life of the hose. It also acts as a coolant, evenly distributing the heat generated by the pump body during operation.



- Optimal lubricants and coolants
- Green, translucent
- Guarantee the longest service life of the hose
- Non-toxic, non-flammable, soluble in water



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Email: sales@ymingpump.com