



LEC
佰利得机器

Industrial Hose Pump



LEAD EQUIPMENT CO., LTD.

LH Series Industrial Hose Pump

Lead Equipment Co., Ltd, short name Leadcrete, is a manufacturer specialized in R&D, manufacture and sale of industrial hose pump.

We have now developed full series of products with tens of models, working pressure from 0.6-3 Mpa, output from 0.01-50 m³/h, NR, NBR and EPDM squeeze hoses are available options for customization.

From years of experience Lead Equipment Co., Ltd. has developed its own R&D and technician teams, which supports further development and customized service for clients.

We control quality of industrial hose pump throughout the whole process strictly, and certified by ISO9001:2008, CE and SGS.

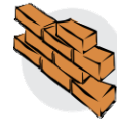
Since 1998, we have become main supplier of pump head for one of world's famous hose pump manufacturer. From recent years, we are also providing matched hose pumps for TBM machine manufacturer in China. Our hose pumps are widely applied in architecture, underground construction, petrochemical industry, metallurgy, food industry, ceramic, mining, water treatment, pharmacy, and papermaking.



Fields of Application

Construction

Conveying and spraying of mortar and concrete



Pharmacy

Conveying of corrosive and poisonous materials



Textile Mill

Conveying of fiber contained fluid, dye and waste water



Dye Making

Conveying of coating, paint and color



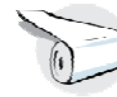
Water Treatment

Conveying of water and waste water



Papermaking

Conveying of pulp, color and glues



Mining

Conveying of mineral waste residue



Ceramic

Conveying of glaze slip and color



Brewery and Beverage

Conveying of beer, wine, milk, juice, additive and residue



Underground Engineering

Conveying of mud fluid in TBM



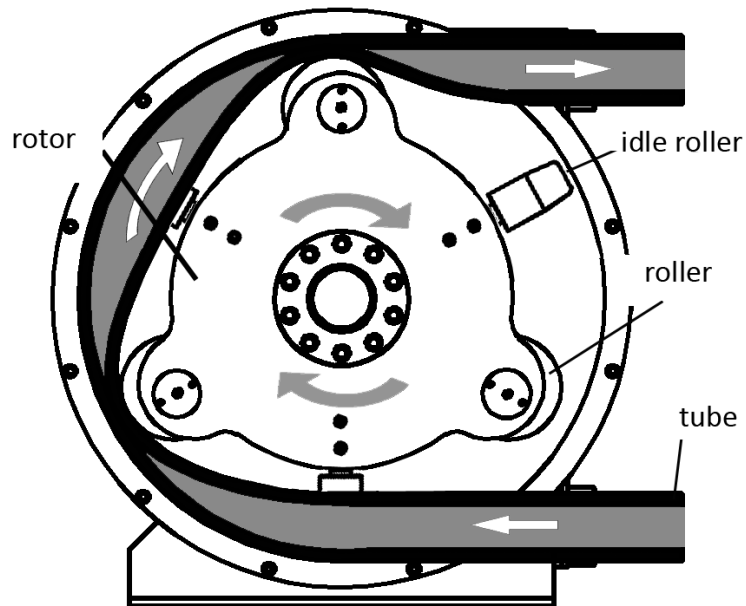
Advantages

- No seals
- No valves
- Self -priming
- Only tube to replace
- Dry –running without damage
- Reversible
- No contact between product and mechanical parts
- Able to pump products with solid parts inside
- Easy maintenance, low-cost, short down time

Perfect Pump for

- Corrosive
- Abrasives
- Shear sensitive fluids
- High viscosity fluids
- High density fluids
- Large solids
- Metering ($\pm 1\%$)
- High Pressure (3 MPa)

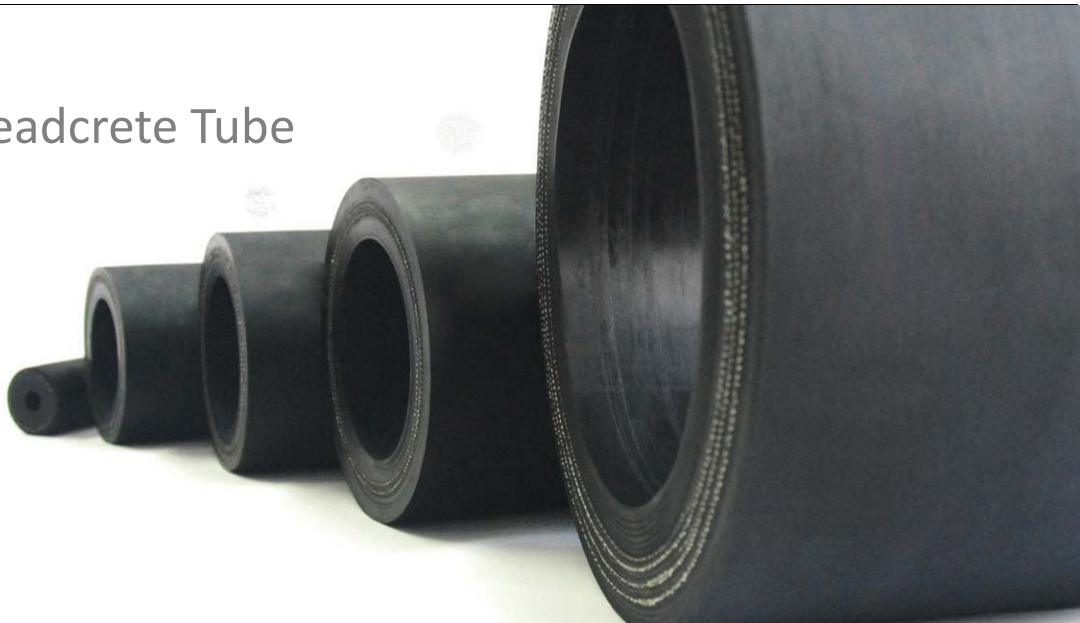
Working Principle



LH series industrial hose pump (squeeze pump) consists mainly of pump house, rotor, roller, idle roller, squeeze tube and driving unit. The squeeze hose is U-shape in pump house, when rotor drives roller to rotate, hose is deformed. After the roller rotate, the deformed hose recover by its elasticity. Thus the negative pressure in this hose is generated, sucking slurries, and discharging through outlet under roller's push, finally forms pressure conveying of slurries.

LH series industrial hose pump are mainly applied in distant conveying, grouting and dosing of viscous slurries in construction, mining, food, papermaking, ceramic, etc.

Leadcrete Tube



Leadcrete Tube

High quality precision made hose pump tube, using the very highest quality compounded rubber materials on the market, re-enforce with multi-layers of braided nylon & a manufacturing process that ensures precise and constant dimensional tolerances at every point to the entire length of the hose.

This high level of attention provides a finished hose product that delivers very high life & outstanding performance.

Production Process

The hose fabrication process consists of wrapping the hose in a protective cover and then curing as part of the final bonding process. Upon cooling, the hose is precision machine ground. This last step separates our hose from the many others that are available in the market.

If the hose is not precision ground, this can lead to a number of disadvantages:

BENEFITS OF PRECISION GROUND HOSE

Minimizes friction between the shoe or roller and the hose, thereby:



- Hose exceeds specified dimensions – this could overstress the pump, gearbox and motor bearings.

- Hose is below specified dimensions – the pump could suffer from a damaging backflow of product, leading to a reduction in flow rate, hose erosion and a reduction in hose life.

- Gives good force to roller
- Prolongs lifespan of hose
- Brilliant suction of 5 m
- High pressure of 3 MPa
- High accuracy ($\pm 1\%$)
- Interference-free conveying system
- Suitable for slurries of high viscosity



Replacement hose can be supplied for other pump brands

We supply replacement hoses suitable for:

- Watson-Marlow
- Bredel,
- Verderflex,
- Boyser,
- Albin,
- Ragazzini,
- Delasco,
- Envirotech
- and many more.

Material and bore size options

EPS manufacture in various materials, including Natural, Nitrile, Food Grade White Nitrile (Meets FDA and 3A compliances), EPDM & CPSE (CSM) rubber.

We can supply hoses in various different internal sizes from 5mm bore to 200mm bore.



NATURAL RUBBER (NR)

Outstanding abrasion resistance. Generally resistant to diluted acids and alcohols.

- Max. fluid temperature 90°C (176°F)
- Min. fluid temperature Minus 15°C (Minus 4°F)



NITRILE RUBBER (NBR)

Resistant to oils, greases, alkalis and detergents.

- Max. fluid temperature 80°C (176°F)
- Min. fluid temperature Minus 10°C (Minus 14°F)



EPDM

Outstanding abrasion resistance. Generally resistant to diluted acids and alcohols.

- Max. fluid temperature 90°C (176°F)
- Min. fluid temperature Minus 15°C (Minus 4°F)



LEADCRETE HIGH PRESSURE TUBE

Outstanding abrasion resistance and high working pressure with steel wire reinforcement layer

- Max. fluid temperature 90°C (176°F)
- Min. fluid temperature Minus 15°C (Minus 4°F)

Accessories and Optionals



Coupling & clean ball



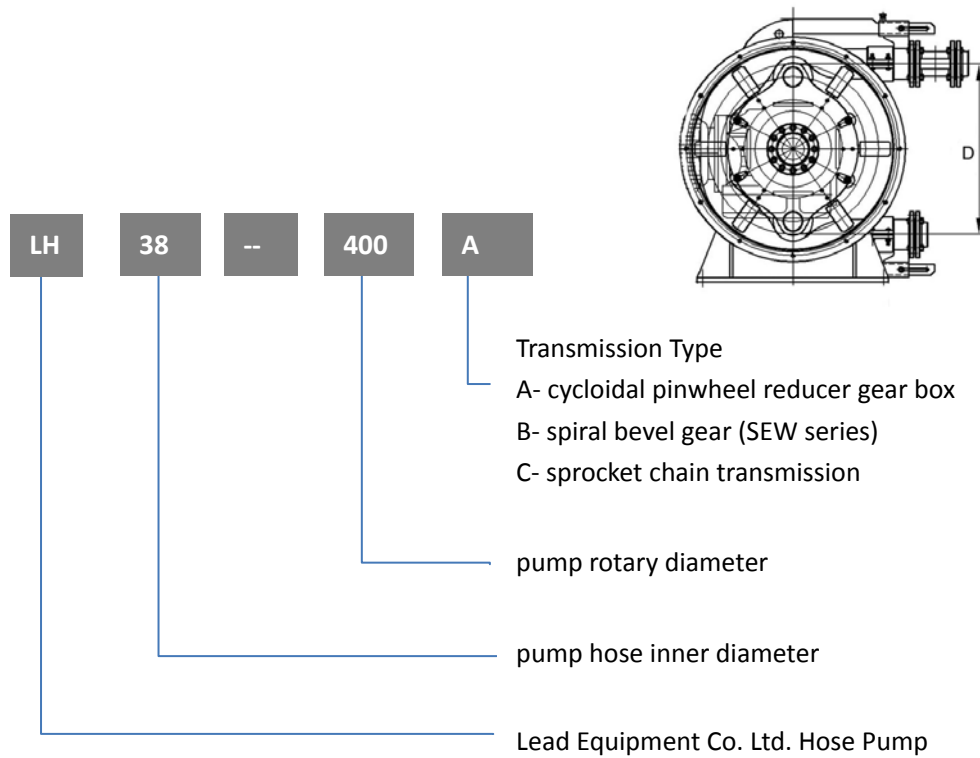
Variable gear speed

Ratio 1: 5



Frequency inverter

Model Definition



A- cycloidal pinwheel reducer gear box



B- spiral bevel gear (SEW series)

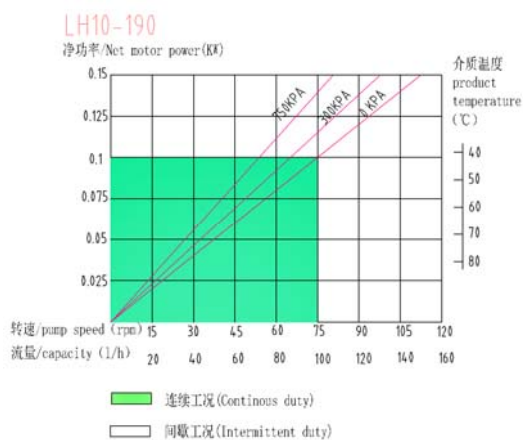
C- sprocket chain transmission



Tables of LH series industrial hose pump

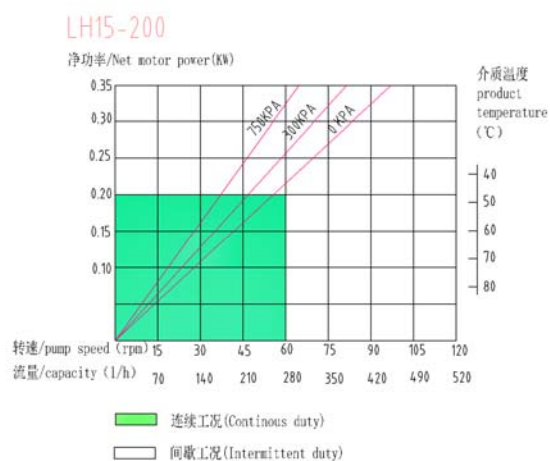
LH10-190

Capacity: 0.022 L/rev
Max discharge pressure: 6 bar
Hose inner diameter: 10 mm



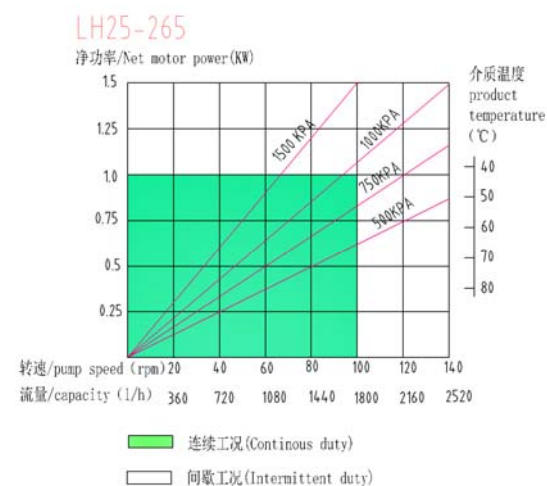
LH15-200

Capacity: 0.077 L/rev
Max discharge pressure: 6 bar
Hose inner diameter: 19 mm



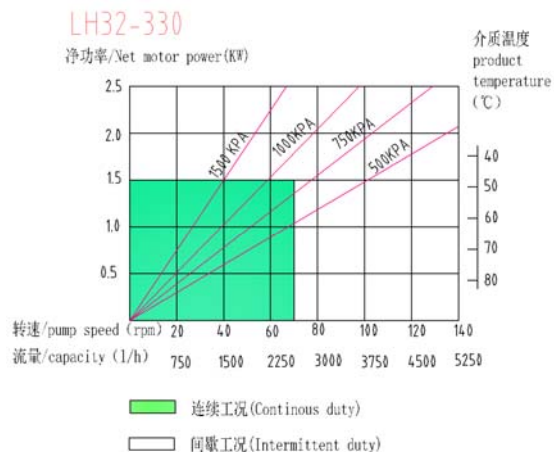
LH25-265

Capacity: 0.3 L/rev
Max discharge pressure: 15 bar
Hose inner diameter: 25 mm



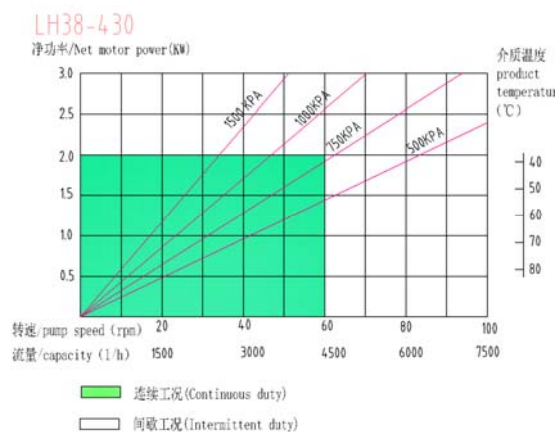
LH32-330

Capacity: 0.625 L/rev
Max discharge pressure: 15 bar
Hose inner diameter: 32 mm



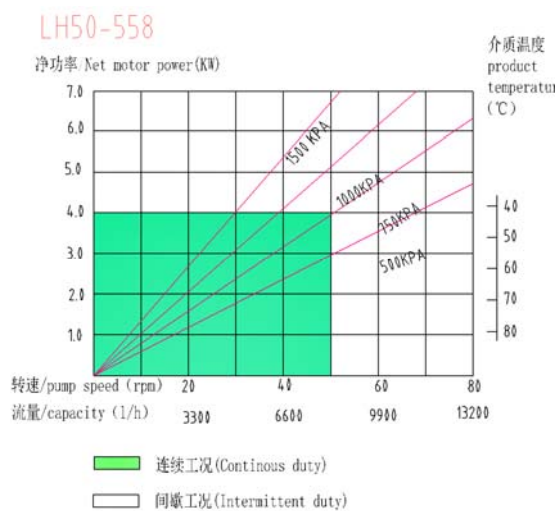
LH38-430

Capacity: 1.25 L/rev
Max discharge pressure: 15 bar
Hose inner diameter: 38 mm



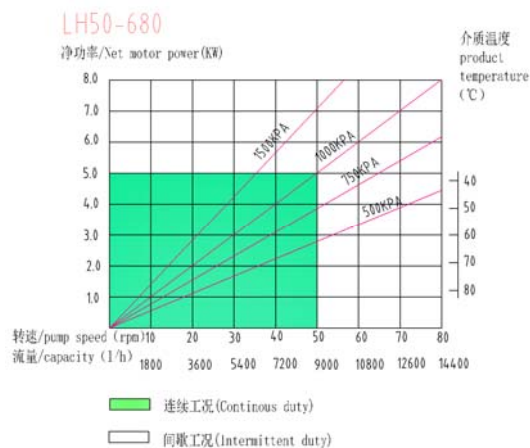
LH50-558

Capacity: 2.75 L/rev
Max discharge pressure: 15 bar
Hose inner diameter: 50 mm



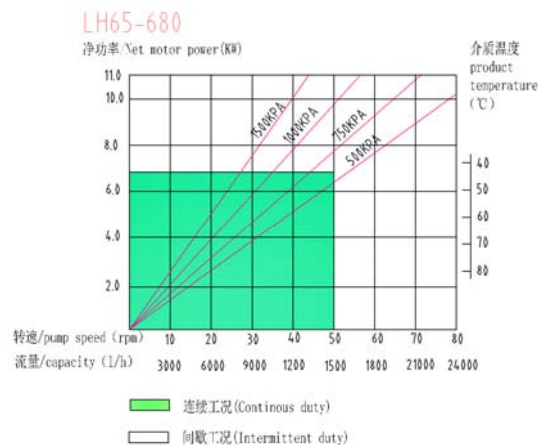
LH50-680

Capacity: 3.0 L/rev
Max discharge pressure: 15 bar
Hose inner diameter: 50 mm



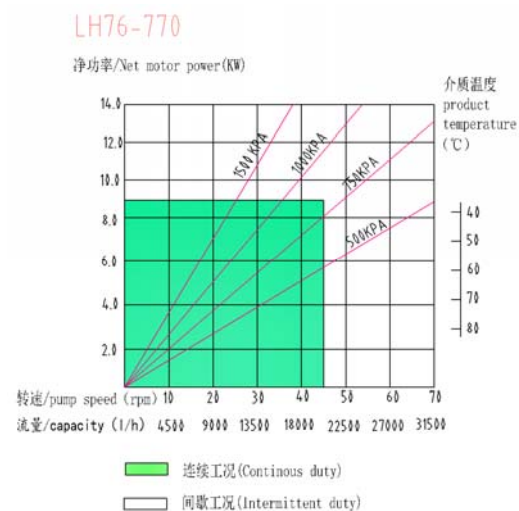
LH65-680

Capacity: 5.0 L/rev
Max discharge pressure: 12 bar
Hose inner diameter: 65 mm



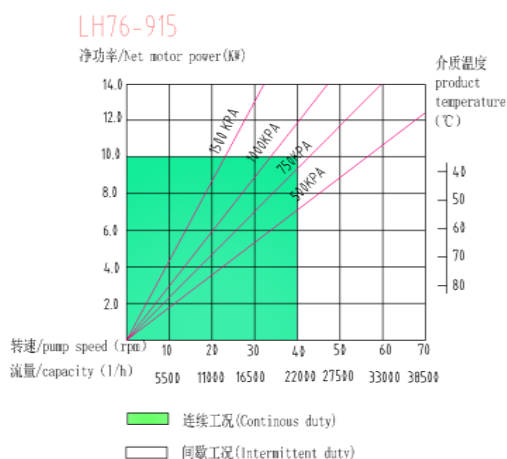
LH76-770

Capacity: 7.5 L/rev
Max discharge pressure: 10 bar
Hose inner diameter: 76 mm



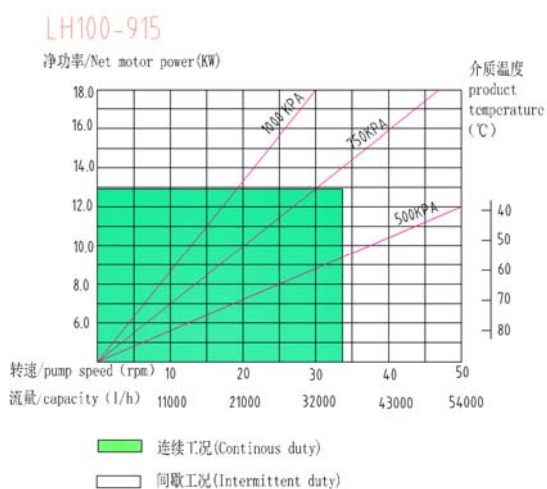
LH76-915

Capacity: 9.16 L/rev
Max discharge pressure: 10 bar
Hose inner diameter: 76 mm



LH100-915

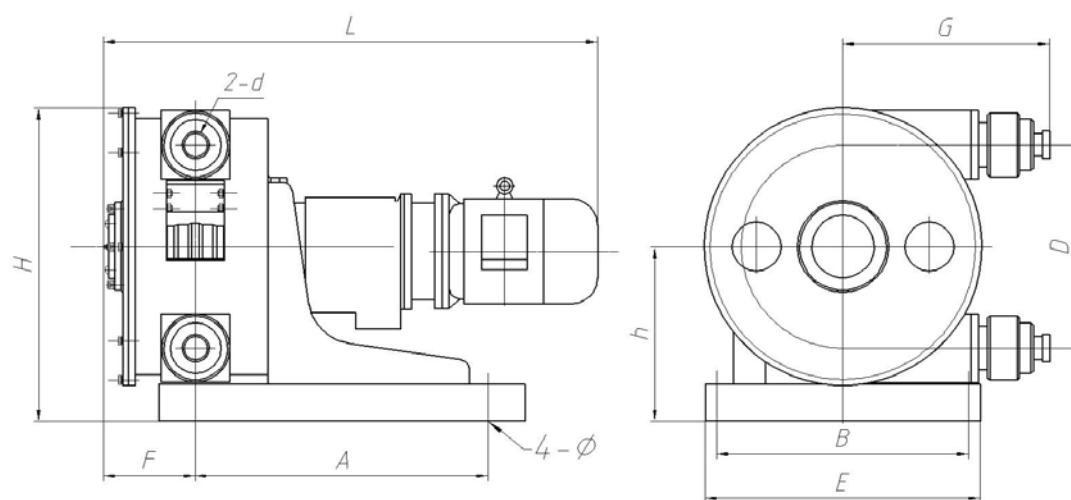
Capacity: 17.5 L/rev
Max discharge pressure: 7.5 bar
Hose inner diameter: 100 mm



Note

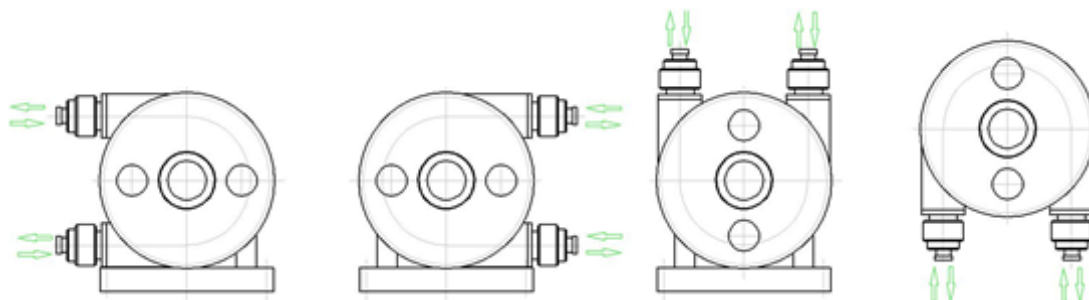
1. Intermittent duty: Max. 2 hours working and stop for 1 hour
2. Flow rate takes water as medium
3. You may inquiry to us if the model you need is not listed

Dimension of Structure

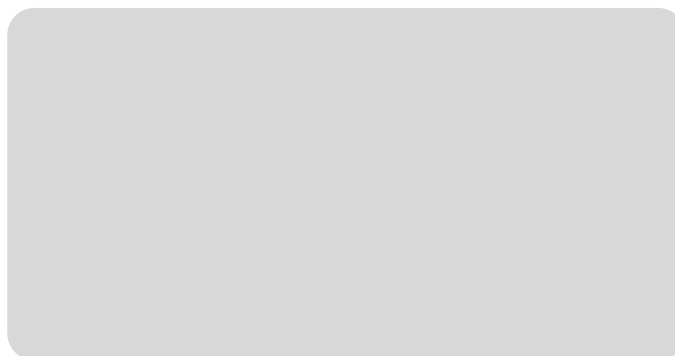


	A	B	D	E	F	G	H	L	h	2-d	4-Φ
LH10	300	160	190	200	50	180	245	420	135	10	12
LH15	270	225	200	265	30	190	295	500	160	15	12
LH25	500	300	265	360	98	245	410	675	230	25	14
LH32	500	300	330	360	98	245	410	700	230	32	14
LH38	600	460	430	520	135	350	550	820	300	38	14
LH50-558	700	540	558	60	190	460	665	1000	360	50	18
LH50-680	800	690	680	750	220	540	800	1150	420	50	18
LH65-680	800	690	680	750	220	540	800	1340	420	65	18
LH76-770	900	760	770	800	260	620	900	1340	480	76	18
LH76-915	1000	860	915	900	320	700	1050	1500	550	76	25
LH100	1000	860	915	900	320	700	1050	1600	550	100	25

Installations of LH Series Industrial Hose Pump



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