



PROGRESSIVE TECHNOLOGIES

PROGRESSING CAVITY SCREW PUMPS



PV SERIES

Water purification and water supply

- wastewater and slime water
- groundwater with inclusions
- fecal fluid
- bog muck
- chemical and reagents
- flocculants



Food industry

- milk and milk derivatives
- vegetable oil
- minced meat
- fruit purees
- tomato paste and sauce
- fillings with various inclusions
- syrup, sugar pulp
- squash, mash, press cake



Pulp and paper industry

- cellulose
- filling agents
- pigments
- bonding materials
- adhesives
- chemical and reagents



Pharmaceutical and Cosmetic industry

- surfactant liquids
- pastes and ointments
- plasticizers
- creams
- vegetable and animal fats
- chemicals and reagents
- precise dosage



Single screw eccentric progressing cavity pumps of PV series are applied for pumping liquids from various containers, including buried, having a significant amount of viscous and abrasive sludge. These pumps are also used for pumping fluids from reservoirs, lakes, technological spills, etc.

Type of design

Vertical (length of submersible part up to 10 m)

Pressure

from 1 to 24 bar

Productive capacity

from 0,1 to 200 cubic meters per hour

Using screw pairs

- type S (from 1 to 24 bar)
- type L (from 1 to 6 bar)
- type D (from 1 to 18 bar)
- type P (from 1 to 6 bar)

Material of flow part

- industrial version HARD STEEL
- hygienic version AISI 314
- chemical version AISI 316

Sealing of drive shaft

- mechanical seal
- double mechanical seal with flushing
- serviced stuffing box

Pumped substances

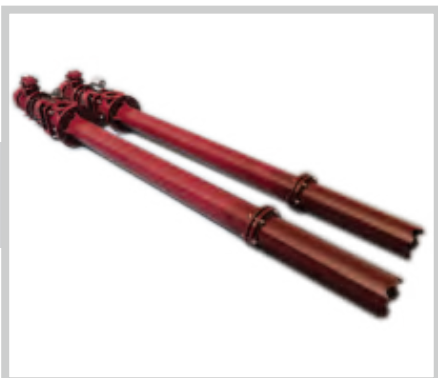
Any industrial liquid substances with different viscosity level, with or without inclusions, including aggressive media: acids, bases, petroleum, acetone, resin etc. The temperature of pumping fluid is up to 140 °C



- 1 Stator sleeve
- 2 Stator
- 3 Chamber
- 4 Outlet
- 5 Rotor
- 6 Pin
- 7 Bushing
- 8 Clamp
- 9 Protecting case
- 10 Articulated shaft
- 11 Articulated shaft sleeve
- 12 Locking sleeve
- 13 Transitional shaft
- 14 Transitional shaft pin
- 15 Face seal
- 16 Face seal case
- 17 Gasket
- 18 Rack
- 19 Reducer
- 20 Electric motor



PUMP PAZH® vertical pumps of PV series



Chemical industrial PUMP PAZH® vertical pumps of PV series



The vertical pump unit with a bracket

For the hanging of the pump unit to the Telfer



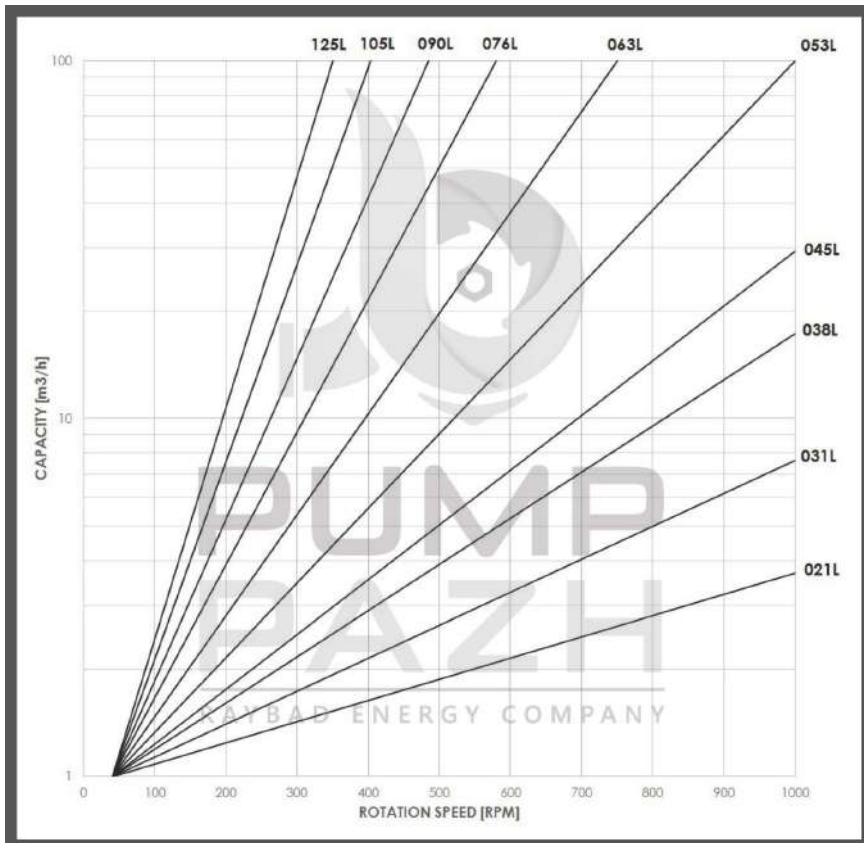
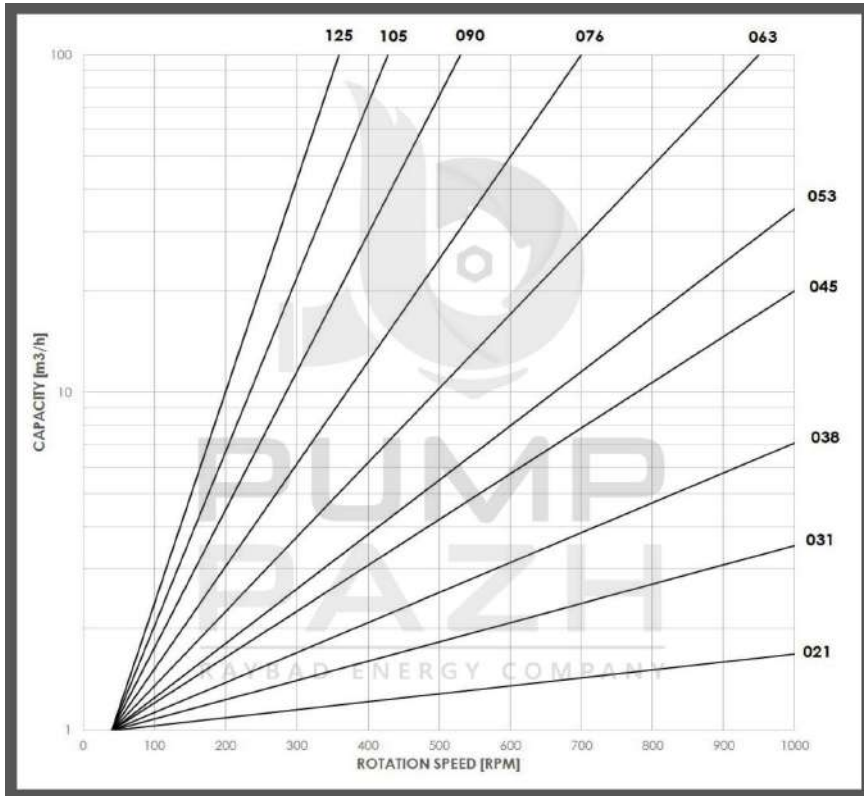
The vertical pump unit with motor-variator

Allows to adjust the pump unit capacity in a wide range



Compact layout of vertical pump unit

It is used in case of limited space in the place of installation.



Name of the Company _____

Contact numbers _____

Contact person _____

E-mail: _____

* - to help you in choosing the right pump, please, fill out as much as possible information provided in this questionnaire

QUESTIONNAIRE FOR HELICAL PROGRESSING CAVITY PUMPS SELECTION

PARAMETERS	DESCRIPTION
Application (Oil & Gas/Food &Pharmaceutical/General Industry)	
Pump type (horizontal/vertical)	
Fluid name	
Capacity, m ³ /h	
Inlet pressure, bar	
Outlet pressure, bar	
Fluid temperature (min/max) °C	
Density, kg/m ³	
Viscosity, cP	
PH	
Presence of particles	
Size of particles, mm	
Site ambient temperature (min/max), °C	
Diameter of suction / discharge pipes, mm	
Inlet/outlet connection type (flange/dairy fitting)	
Shaft seal type (stuffing box/mechanical/double mechanical)	
Installation location (indoor/outdoor)	

Additional options

FEATURES	YES	NO	DESCRIPTION
Screw feeder			
Input neck			
Heating of pump chamber/screw pair			
CIP flushing of the unit			
Explosion-proof version			
Frequency converter			
Control system «dry run»			
Overpressure protection			
Special climatic version			

Name of the Company _____

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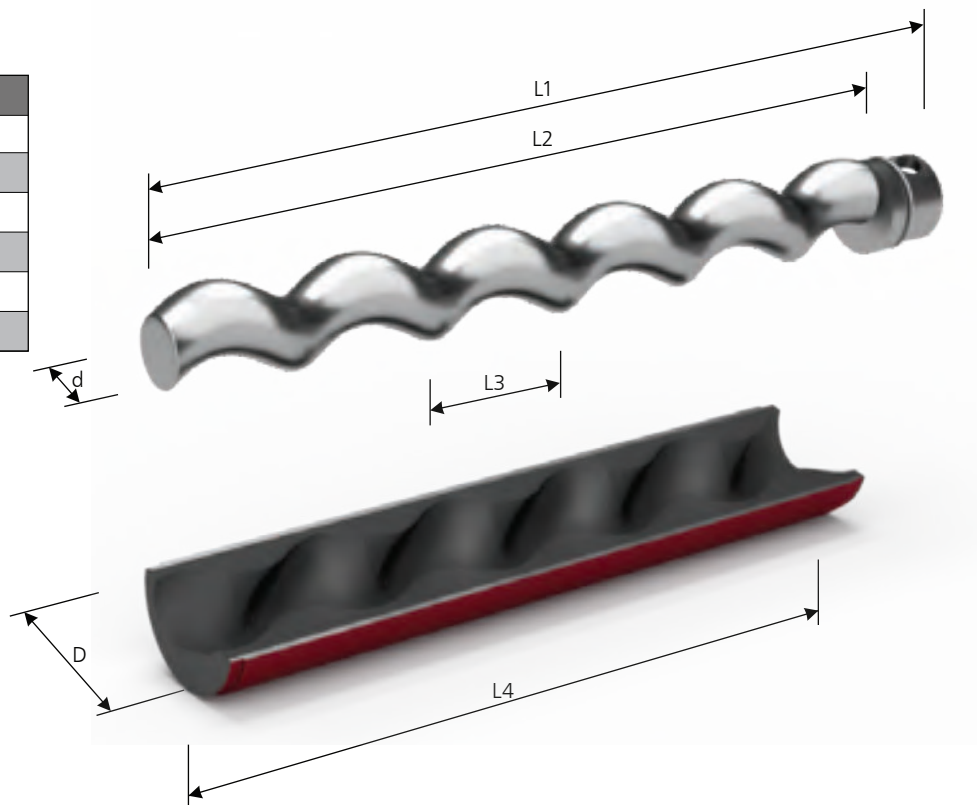
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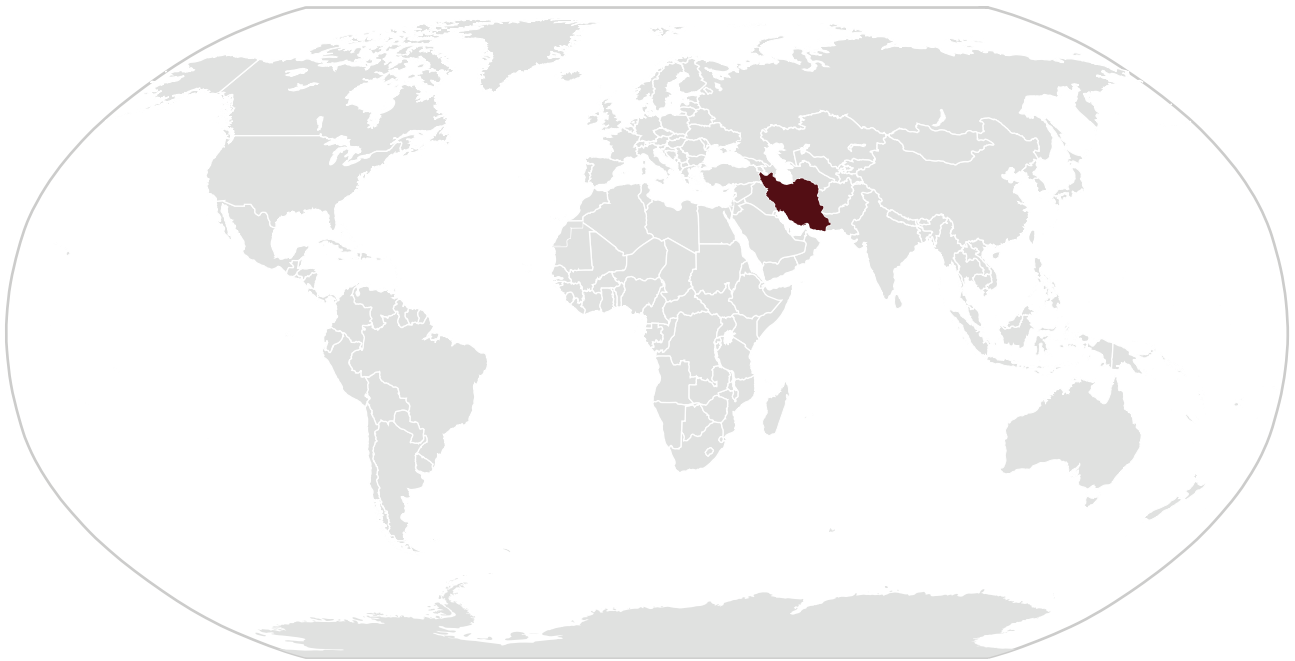
QUESTIONNAIRE FOR HELICAL SCREW PAIR

PARAMETERS	DESCRIPTION
Original manufacturer (O&M)	
Pump model/Order number	
Fluid name	
Capacity, m ³ /h	
Inlet pressure, bar	
Outlet pressure, bar	
Fluid temperature (min/max) °C	
Density, kg/m ³	
Viscosity, cP	
PH	
Presence of particles	
Size of particles, mm	
Site ambient temperature (min/max), °C	
Diameter of suction / discharge pipes, mm	
Rotor material	
Stator material	
Screw pair geometry type (S/L/D/P)	

PARAMETERS	VALUES
L1, MM	
L2, MM	
d, MM	
L3, MM	
D, MM	
L4, MM	



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