PUMP PAZH

PUMP SYSTEM MANUFACTURING

PROGRESSIVE TECHNOLOGIES

PROGRESSING CAVITY SCREW PUMPS

PH SERIES

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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 derivaties
- vegetable oil
- minced meat
- fruit purees
- tomato paste and sause
- 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

01 The Rotor

The external single-start helical line with cross-section the center of which is shifted on the size of eccentricity from the rotative axis. The rotor is made of metallic alloys, coated or uncoated.

02 The Stator

Inner double threaded helical line made of elastomer and fixed inside of the metal sleeve.

03 Transmission rod

It transmits torque from the drive shaft to the rotor, has a high resistance to wear. The usage of transmission rod with a screw feeder is also possible.

04 The Flexible joint

it compensates eccentricity of the rotor, filled with grease and has a sealed structure.

05 Inlet

Depends on the desires of the customer and the model of the pump, the unit can be made in the form of the pipe with the flange sleeve, the quick coupling connection, or in the form of a rectangular charging inlet.

06 Outlet

Depends on the desires of the customer and the model of the pump, the unit can be made in the form of the pipe with the flange sleeve or the quick coupling connection.

07 The Pump Chamber

provides the delivering of pumping substance to the screw pair of pump unit.

08 The Shaft Seal

provides the seal of the shaft. It is possible to use serviced stuffing box, single and double mechanical seal with flushing.

09 The Transitional Rack or The Bearing Rack

It is the connecting node between the drive and the pump chamber. The maintenance of seal of the drive shaft happens through the transitional rack.

10 The Coupling

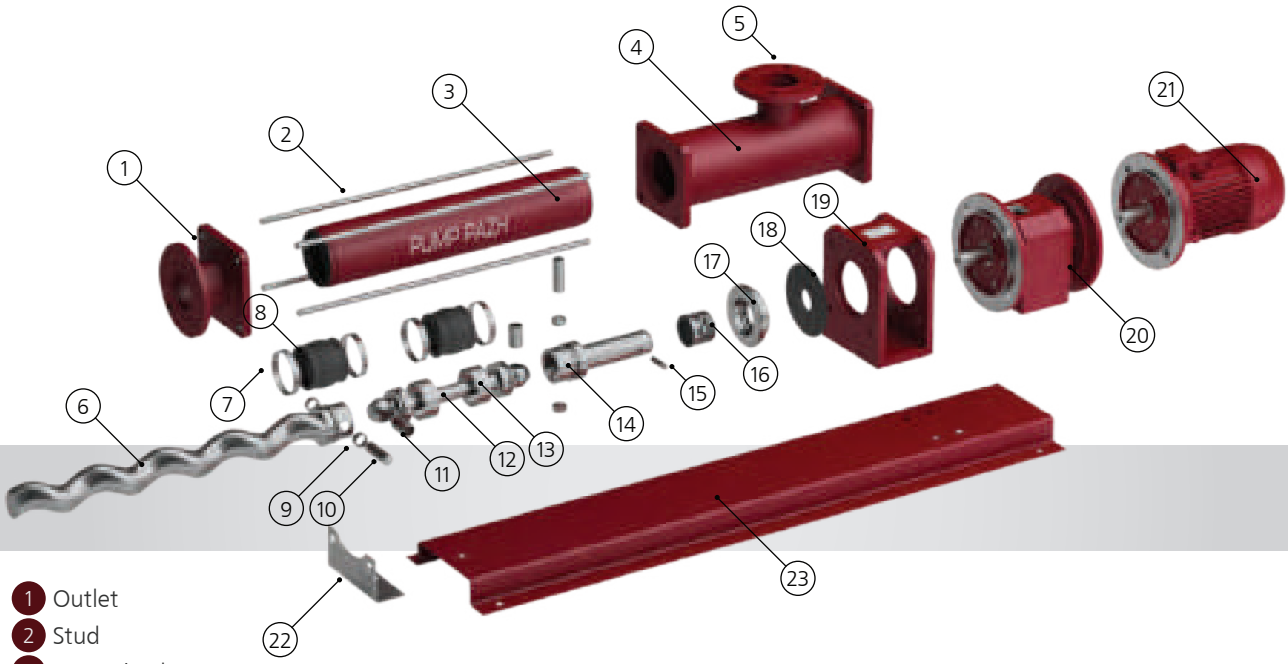
Provides transmission torque from the geared motor to the bearing rack.

11 The geared motor

can be made as general industrial, climatic, or explosion-proof construction. It can be equipped with a hydraulic drive.

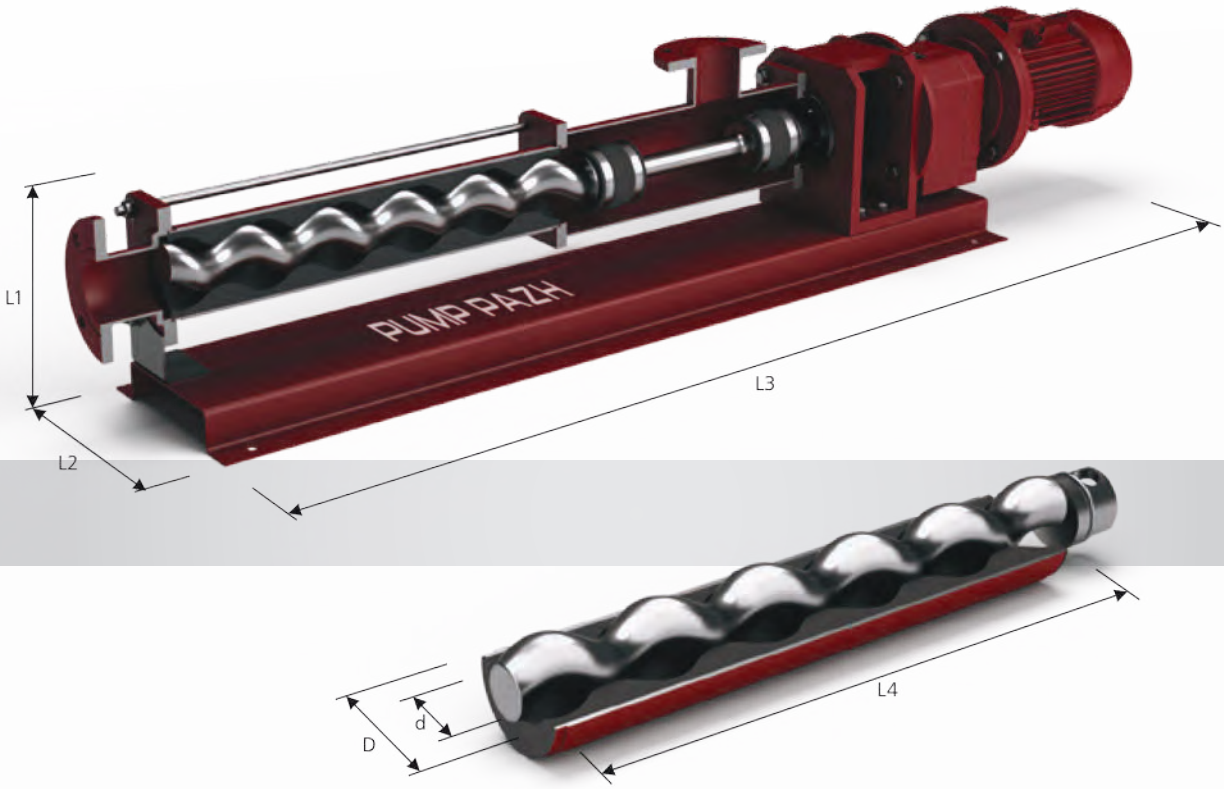
12 The Mounting Plate

provides coaxial fixing of all nodes of the horizontal pump unit.



1. Outlet
2. Stud
3. Stator in sleeve
4. Chamber
5. Input
6. Rotor
7. Clamp
8. Protecting case
9. Bushing
10. Pin
11. Articulated shaft sleeve
12. Articulated shaft
13. Locking sleeve
14. Transitional shaft
15. Transitional shaft pin
16. Shaft seal
17. Face seal case
18. Gasket
19. Bearing rack
20. Reducer
21. Electric motor
22. Support leg
23. Mounting plate (frame)

Spare parts and repair kit for screw pumps

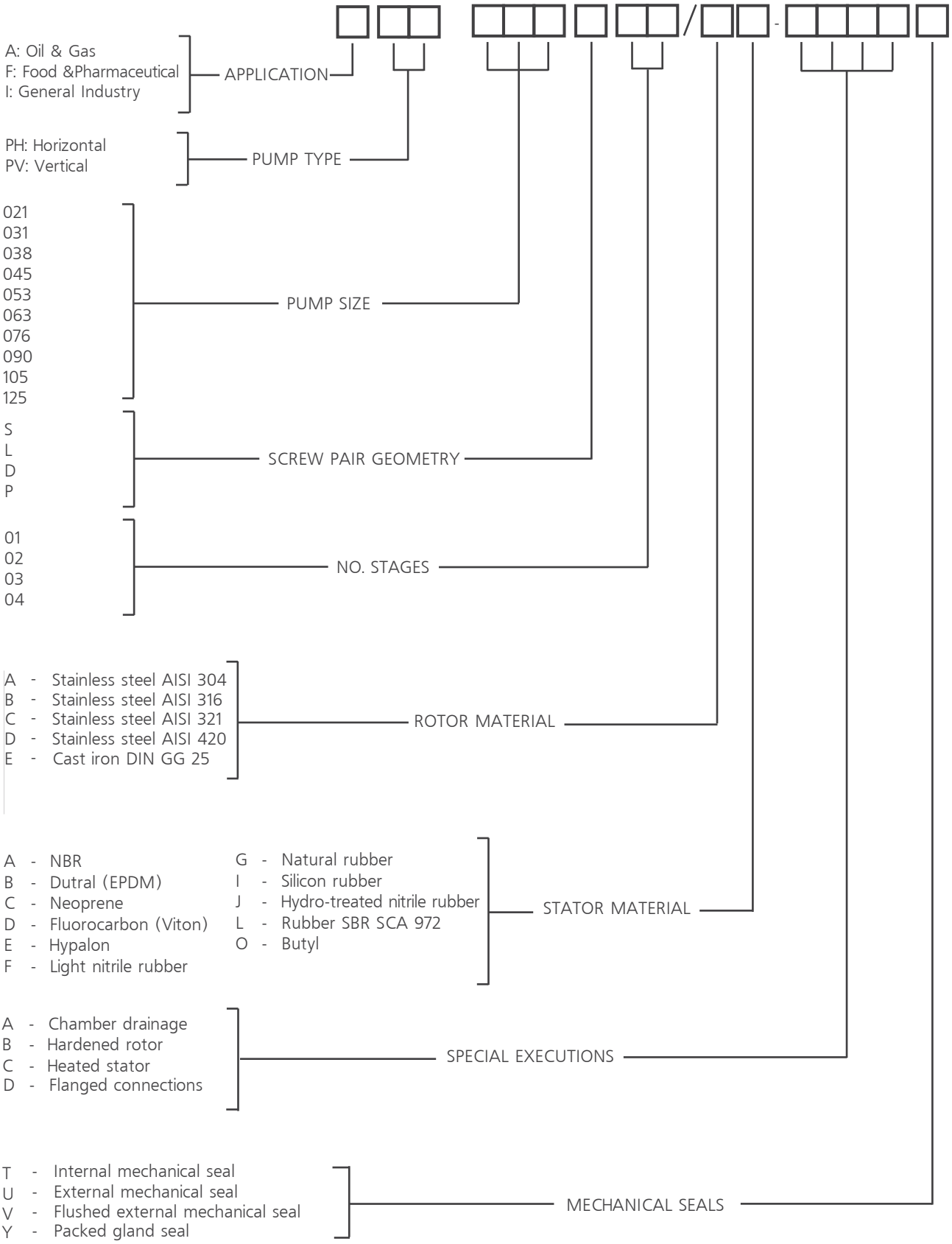


Single screw eccentric progressing cavity pumps of PH series may have different dimensions depending on the availability of additional options, such as a supporting screw, heating of the flow part, macerator, feeding tube, etc.

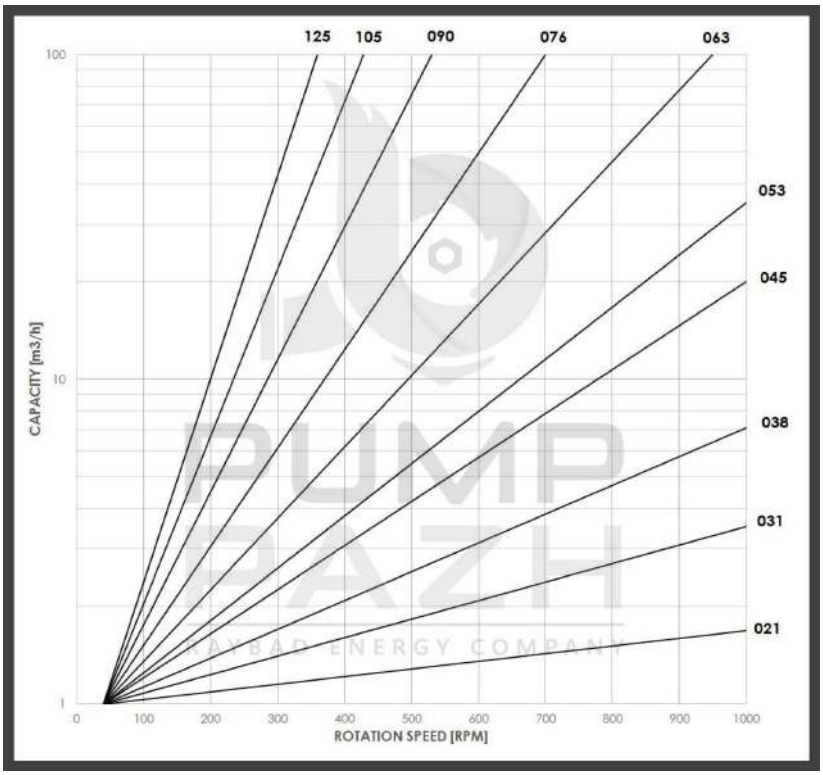
Single screw eccentric progressing cavity pumps of PH series may have different versions of actuators, such as the geared-motor, motor-variator, V-belt transmission, as well as variants of different climatic and explosion-proof construction.

PUMP PAZH® company designs Single screw eccentric progressing cavity pumps that depend on individual requirements of the customer, with unique weight, dimensions, characteristics of consumption and pressure.

Pump model PH	P, bar	Q, m³/h	N, kW	R, min	Main dimensions, mm			M, kg	Out., DN, mm	Main stator dimensions, mm			Permitted size of particles (hard/soft)
					L1	L2	L3			L4	D	d	
021S01	4	0,6-1,5	0,55-1,1	525-828	260	200	840	27	25	112	51	20	6 / 9
021S02	12	0,1-1,4	0,55-1,1	220-1090	260	200	940	30	25	212	51	20	6 / 9
021S04	24	0,6-1,5	0,75-1,5	560-1090	260	250	1350	55	25	412	51	21	6 / 9
021L01	6	0,8-2,2	0,75-1,1	350-890	260	200	940	30	25	212	51	20	6 / 9
031S01	6	0,5-2,4	0,55-1,1	262-648	270	220	970	45	50	162	70	30	9 / 13
031S02	12	0,5-1,8	0,75-1,5	262-545	270	220	1105	60	50	304	70	30	9 / 13
031S04	24	0,5-2,1	1,1-3	266-624	300	250	1720	80	50	588	70	31	9 / 13
031L01	6	1,1-3,7	0,75-1,5	216-545	270	220	1105	48	50	304	70	30	9 / 13
038S01	6	2-5,4	1,5-2,2	380-631	320	250	1270	75	65	226	89	38	14 / 21
038S02	12	2,2-5,8	2,2-4	380-638	320	250	1470	90	65	426	89	38	14 / 21
038S04	24	2-4,7	5,5-7,5	380-593	360	300	2325	130	65	826	89	39	14 / 21
038L01	6	4,2-9,8	2,2-4	250-513	320	250	1470	90	65	426	89	38	14 / 21
045S01	6	2-8,5	2,2-4	296-622	300	250	1340	85	80	261	108	45	17 / 26
045S02	12	4,4-10	4-5,5	319-600	300	250	1560	110	80	493	108	45	17 / 26
045S03	18	3,5-8,6	5,5-7,5	297-547	350	300	2470	180	80	725	108	46	17 / 26
045S04	24	2,6-7,1	5,5-11	260-469	350	300	2700	260	80	957	108	46	17 / 26
045L01	6	8,1-18,6	3-5,5	257-515	300	250	1560	115	80	493	108	45	17 / 26
053S01	6	3,9-13	3-5,5	273-547	350	350	1650	150	100	316	121	53	20 / 30
053S02	12	8,1-15,6	5,5-11	273-547	350	350	1930	170	100	598	121	53	20 / 30
053S03	18	3,5-10,5	4-11	167-370	450	350	2840	210	100	880	121	54	20 / 30
053S04	24	5,5-10	11-15	278-397	450	400	2915	290	100	1162	121	54	20 / 30
053L01	6	11,1-28	4-7,5	200-469	350	400	1930	160	100	598	121	53	20 / 30
063S01	6	3,5-20	2,2-7,5	169-469	335	350	1760	185	125	363	146	63	24 / 37
063S02	12	3,3-17,5	4-11	167-397	335	350	2080	240	125	685	146	63	24 / 37
063S03	18	8-17,4	7,5-15	208-360	540	400	3130	415	125	1007	146	64	24 / 37
063S04	24	8-17,1	11-18,5	208-360	540	400	3450	505	125	1329	146	64	24 / 37
063L01	6	13-40,5	4-11	167-397	335	350	2080	240	125	685	146	63	24 / 37
076S01	6	5,2-28,5	4-11	156-381	485	420	2330	480	150	419	168	75	30 / 45
076S02	12	6,5-28,6	7,5-18,5	156-381	485	420	2700	560	150	791	168	75	30 / 45
076S03	18	10-20,5	11-18,5	167-265	550	450	3720	670	150	1163	168	76	30 / 45
076S04	24	10,2-20,2	11-18,5	167-265	550	450	4100	715	150	1535	168	76	30 / 45
076L01	6	20-62,4	7,5-18,5	135-360	485	420	2700	570	150	791	168	75	30 / 45
090S01	6	15-47	11-18,5	186-372	525	450	2620	675	150	500	203	89	36 / 54
090S02	12	18-35	15-18,5	167-265	525	450	3061	785	150	944	203	89	36 / 54
090S03	18	16-33	22-30	158-253	600	450	4320	940	150	1388	203	90	36 / 54
090S04	24	15-35	22-37	137-253	650	500	4875	1010	150	1832	203	90	36 / 54
090L01	6	34-106	11-30	141-372	252	450	3060	790	150	944	203	89	36 / 54
105S01	6	24-57	11-18,5	158-274	600	560	3100	1015	200	623	230	104	41 / 62
105S02	12	27-58	30-45	158-274	600	560	3650	1180	200	1179	230	104	41 / 62
105S03	18	29-56	30-45	158-249	630	580	4210	1410	200	1735	230	105	41 / 62
105S04	24	17-36	37-45	124-189	630	580	4770	1520	200	2291	230	105	41 / 62
105L01	6	55-119	22-37	137-249	600	560	3650	1170	200	1179	230	104	41 / 62
125S01	6	36-74	15-22	137-214	775	600	3890	1350	250	740	273	124	50 / 74
125S02	12	38-77	30-45	137-214	775	600	4550	1570	250	1400	273	124	50 / 74
125S03	18	16-60	37-60	135-220	895	600	6050	1880	250	2060	273	125	50 / 74
125S04	24	8-36	37-60	160-220	895	600	6710	2030	250	2720	273	125	50 / 74
125L01	6	82-160	22-37	106-191	775	600	4550	1580	250	1400	273	124	50 / 74



Example: **APH 045S01/BA-BDT**


125
105
090
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053
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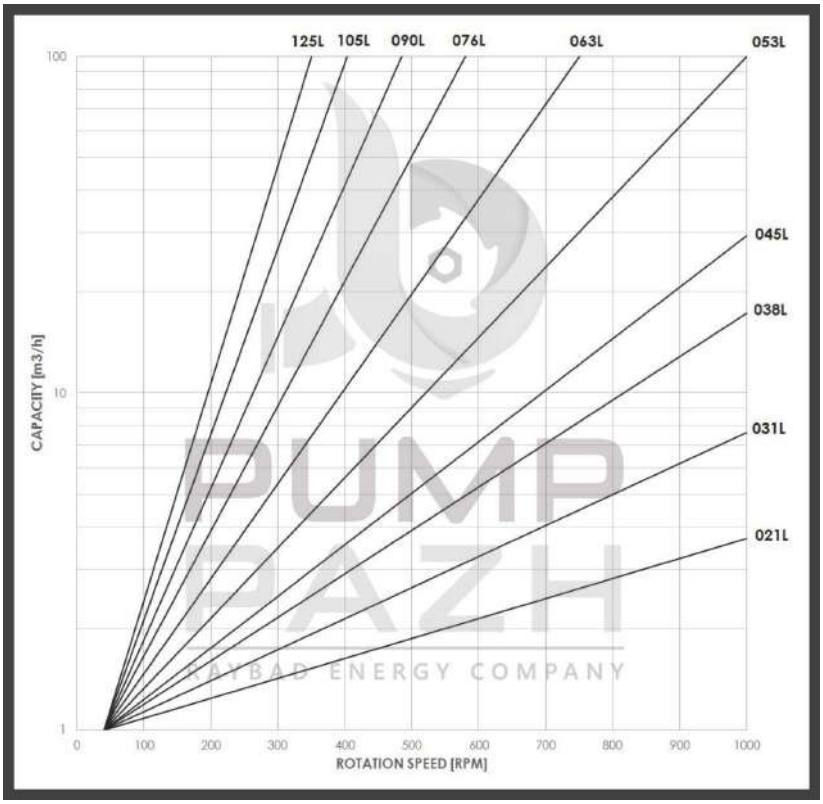
10
1
CAPACITY [m3/h]
0
100
200
300
400
500
600
700
800
900
1000
ROTATION SPEED [RPM]


125L
105L
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038L
031L
021L
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CAPACITY [m3/h]
0
100
200
300
400
500
600
700
800
900
1000
ROTATION SPEED [RPM]

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 _____

Contact numbers _____

Contact person _____

E-mail: _____

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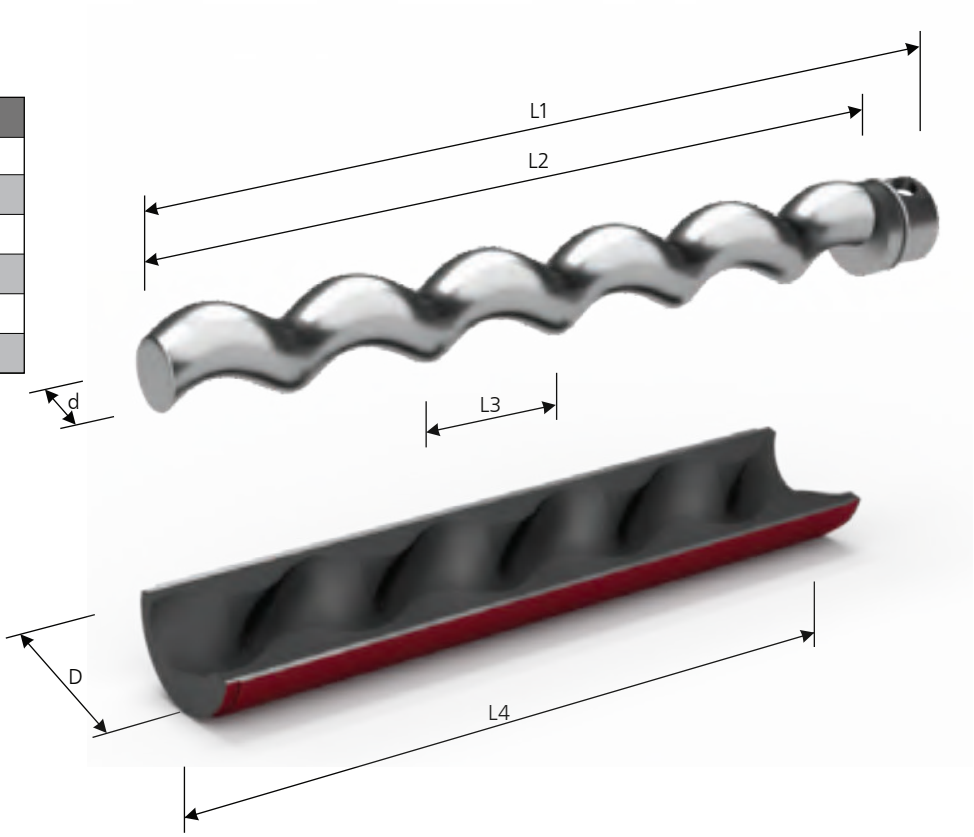
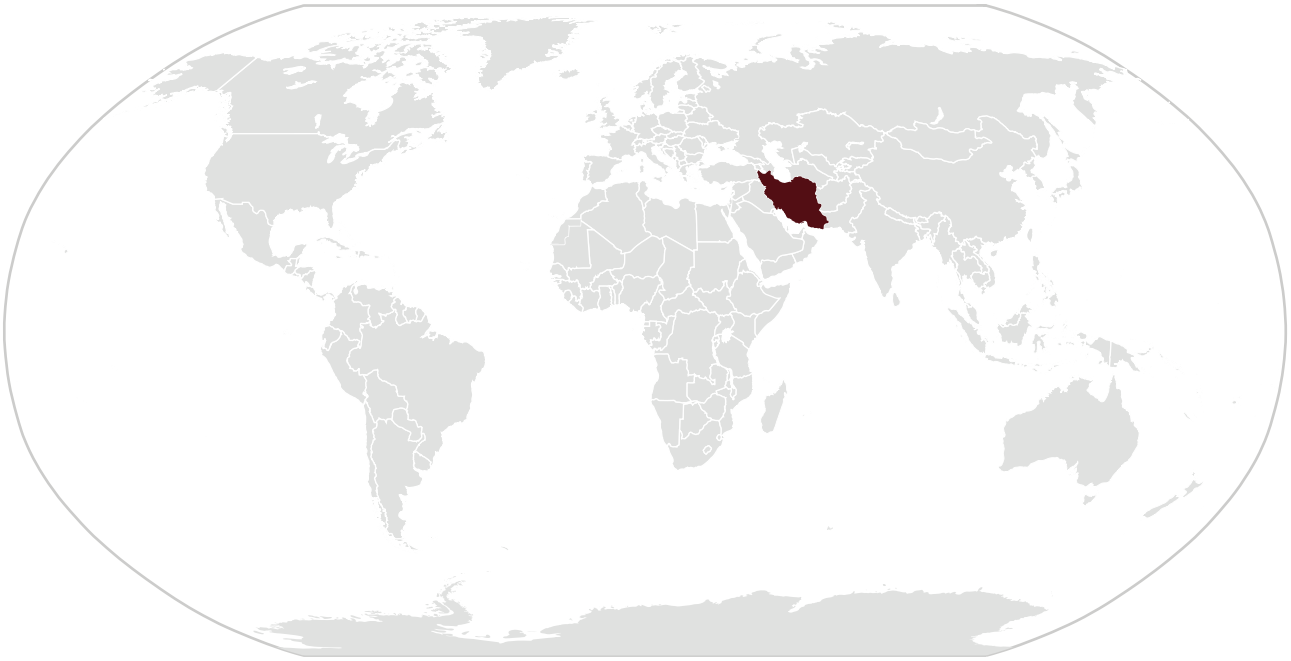
QUESTIONNAIRE FOR HELICAL SCREW PAIR

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, мм	
L2, мм	
d, мм	
L3, мм	
D, мм	
L4, мм	



SUSTAINABLE GROWTH
COMMITMENT TO VALUES



RAYBAD ENERGY PAZH COMPANY
PUMP PAZH®

PUMP PAZH

MASHHAD, IRAN

TEL: +985135592389
FAX: +985135592156
INFO@PUMPPAZH.COM

WWW.PUMPPAZH.COM