

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

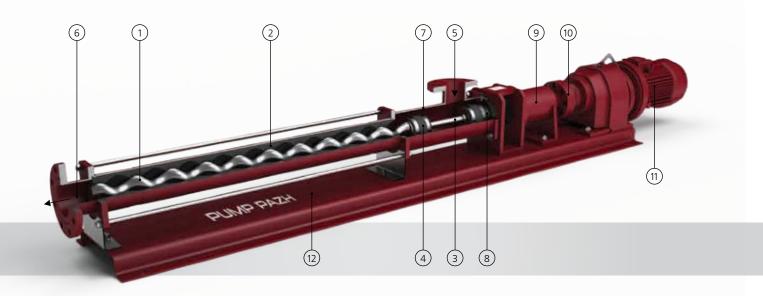
- surfactant liquids
- pastes and ointments
- plasticizers
- creams
- vegetable and animal fats
- chemicals and reagents
- precise dosage











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. $\mathbf{06}_{\mathsf{Outlet}}$

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.

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.



PH single screw eccentric progressing cavity pumps are the most universal and any additional options and configurations are available, such as made of stainless steel, explosion-proof, with extra heat flow part, rectangular feeding inlet, screw feeder, the protection system «dry run», special climatic versions, etc.

Type of design

horizontal

Productive capacity

from 0,1 to 160 cubic meters per hour

Material of flow part

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

Pressure

from 1 to 24 bar

Used 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)

Sealing of drive shaft

- mechanical seal
- · double mechanical seal with flushing
- servised stuffing box

S Geometry

- Very smooth pumping
- Compact dimensions despite large number of stages
- Large rotor inlet cross-sections
- Low flow velocity/NPSH
- Pumps compacted products
- Pumps large solid particles





- 1/2 lobe
- Double stage
- Flow rate: 100%
- Differential pressure: 12 bar

L Geometry

- Good volumetric efficiency/long service life thanks to long seal line between rotor and stator
- Compact dimensions with high flow rates



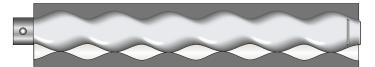


- 1/2 lobe
- Single stage
- Flow rate: 200%
- Differential pressure: 6 bar

D Geometry

- Very compact dimensions despite high pressures and flow rates
- Almost pulsation-free pumping
- High dosing accuracy





- 2/3 lobe
- Double stage
- Flow rate: 150%
- Differential pressure: 12 bar

P Geometry

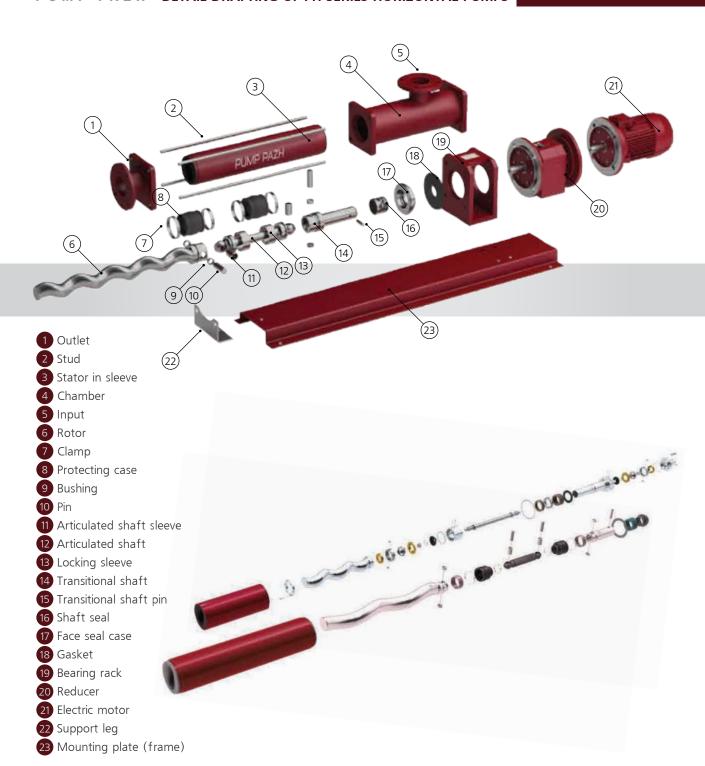
- Compact dimensions in conjunction with very high flow rates
- Almost pulsation-free pumping
- High dosing accuracy
- Good volumetric efficiency/long service life thanks to long seal line between rotor and stator





- 2/3 lobe
- Single stage
- Flow rate: 300%
- Differential pressure: 6 bar

PUMP **PAZH**







Spare parts and repair kit for screw pumps

Pump unit without bearing stand with directly mounted gearmotor

Used at pump units with pressure up to 12 bar. Such type of the design has a compact form, more easy to assemble and maintain.



Pump unit with the bearing stand design



Pump unit made of stainless steel

It using for pumping of corrosive active and acidic liquids.





PUMP PAZH TECHNICAL CHARACTERISTICS OF PH SERIES HORIZONTAL PUMPS



Pump model	P, bar	Q, m³∕h	N, kW	R, min	OUT,DN in
PCP105	6	0,1	0.75	100	1,1/4"
PCP110	6	0.4	0,75	400	1,1/4"
PCP115	6	0.85	0.75	960	1,1/4"
PCP120	4	0.05	0,75	100	1,1/4"
PCP125	4	0.2	0.75	400	1,1/4"
PCP130	12	0,25	0.75	750	1,1/4"
PCP135	12	0.35	0.75	960	1,1/4"
PCP205	4	0.3	0.75	100	1,1/4"
PCP210	4	0.6	0.75	250	1,1/4"
PCP220	6	1	0.75	400	1,1/4"
PCP225	4	2	0.75	750	1,1/4"
PCP230	6	2.5	0.75	960	1,1/4"
PCP235	8	0.2	0.75	200	1,1/4"
PCP240	12	0.1	0.75	250	1,1/4"
PCP245	12	0.4	0.75	400	1,1/4"
PCP250	8	1	0.75	750	1,1/4"
PCP255	8	1.25	0.75	960	1,1/4"
PCP305	8	1.6	1.5	300	2"
PCP310	2	3	1.5	400	2"
PCP315	6	5	2.2	750	2"
PCP320	8	6.5	3	960	2"
PCP325	12	1	1.5	250	2"
PCP330	12	1.5	1.5	400	2"
PCP335	12	2.75	2.2	750	2"
PCP340	12	3.75	3	960	2"

Pump model	P, bar	Q, m³∕h	N, kW	R, min	OUT,DN in
PCP350	6	4.5	2.2	250	3"
PCP355	4	6	2.2	315	3″
PCP360	4	8	4	400	3″
PCP370	8	2	2.2	100	3″
PCP375	8	3	2.2	400	3"
PCP380	12	4	4	750	3″
PCP410	6	5	4	160	3"
PCP420	4	10	4	250	3″
PCP430	6	11	5.5	315	3"
PCP425	6	15	5.5	400	3″
PCP445	8	8	4	400	3"
PCP510	12	6	5.5	400	3″
PCP520	8	13	4	250	4"
PCP530	4	20	5.5	315	4"
PCP540	6	25	5.5	400	4"
PCP550	12	8	5.5	315	4"
PCP555	12	10	5.5	400	4"
PCP610	6	30	7.5	315	6"
PCP615	6	50	7.5	400	6"
PCP620	8	12.5	7.5	250	6"
PCP625	12	17.5	7.5	400	6"
PCP760	6	70	11	400	8"
PCP770	12	30	11	400	8"
PCP800	6	200	15	400	8"
PCP880	12	100	15	400	8"

Media	Dynamic Viscosity mPa (cps)	Temprature, deg, °C	Stator elastomer	Rotor steel
Oil and Chemical Products				
Alkyds Resin	500 - 3000	20	NBR	AISI 321
Latex Emulsions Liquid Soap	200	20	NBR	AISI 321
Liquid Wax	58 500	60 90	NBR NBR	AISI 321 AISI 321
Crude Oil 19.4° - 19° API	200 - 400	20	NBR	AISI 321 AISI 420 heat-treate
Crude Oil 32.3° - 28.7° API	42 - 163	20	NBR	AISI 420 heat-treate
Crude Oil 43.6° - 31.9° API	42 - 163	20	NBR	AISI 420 heat-treate
Formation Oils	0.2 - 2000		NBR	AISI 420 heat-treate
Formation Oils of fields in Western Siberia	0.3 - 7.5	50 - 92	NBR	AISI 420 heat-treate
Fuel Oil	2022	25	NBR	AISI 420 heat-treate
Diesel Fuel	8	20	NBR	AISI 321
Gelled Hydrochloric Acid	2305	20	EPDM	AISI 321
Concentrated Hydrochloric Acid	638	20	EPDM	AISI 321
Kerosene-water emulsion (20% water, 80% kerosene) Kerosene-water emulsion (30% water, 70% kerosene)	5000	20	NBR	AISI 321 AISI 321
Emulsion (20% mixture of kerosene gas oil acid, 80% HCI)	84 4200	20 30	NBR NBR	AISI 321
Emulsion (40% mixture of kerosene gas oil acid, 60% HCI)	80	30	NBR	AISI 321
Oleic Acid	40	20	NBR	AISI 321
Paraffin Emulsion	3000	20	NBR	AISI 321
Polyester caoutchouc	3000	30	NBR	AISI 321
Polyglycerol caprate	6000 - 7000	15	NBR	AISI 321
Polymeric solution	20000 - 7100	20	NBR	AISI 321
Polyol (A-component)	85000	10	NBR	AISI 321
Polyol unpigmented	500 - 5000	20	NBR	AISI 321
Polyester resin	3000	30	NBR	AISI 321
Potassium hydroxide	67	20	NR	AISI 321
Printing inks	550 - 2200	40	NR	AISI 321
The dough-like substance	100	40		AISI 321
Dissolved rubber	7100	20	NBR	AISI 321
Caustic soda 50%	45	20	NR	AISI 321
Very liquid adhesives and paints	70 - 500	20	NBR	AISI 321
The majority of paints and enamels Dense paints	500 - 3000 3000	20	NBR NBR	AISI 321 AISI 321
Dense adhesives (for wood flooring or linoleum)	3000 - 50000	20	NBR	AISI 321
Waterborne varnish	900	20	NBR	AISI 321
Varnishes (25% pigment)	3000	20	NBR	AISI 321
Sealing comounds and mastics	10000 - 500000	20	NR	AISI 321
Sealing compounds and mastics	1500	70	NBR	AISI 321
Cosmetic and pharmaceutical products				
Vaseline oil	300	20	NBR	AISI 321
Dental fillings	30000	20	NBR	AISI 321
Shampoo	3000	20	NBR	AISI 321
loothpaste	/0000	40	NBR	AISI 321
Vitamin oil Whipped products	4500 1500	10	NBR	AISI 321 AISI 321
Glycol	20 - 40	40 20	NIDD	AISI 321
Dipropylene glycol	107	20	NBR NBR	AISI 321
Gelafin	1200	45	NBR	AISI 321
Glycerine 100%	4500	10	NBR	AISI 321
Glycerine 100%	650 - 1490	20	NBR	AISI 321
Hand Creme	8000	20	NBR	AISI 321
Vegetable oils / Animal oils				
Peanut Oil	40	40	NBR	AISI 321
Caster Oil	580 - 1500	20	NBR	AISI 321
Caster Oil	2420	10	NBR	AISI 321
Coconat Oil	60 - 80	20	NBR	AISI 321
	50	60	NBR	AISI 321
Cocoa Butter				
Cod Liver Oil	35	40	NBR	AISI 321
Cod Liver Oil Corn Oil	35 30	40 60	NBR NBR	AISI 321
Cod Liver Oil Corn Oil Hermp seed oil	35 30 60	40 60 20	NBR NBR NBR	AISI 321 AISI 321
Cod Liver Oil Corn Oil Hermp seed oil Pig Fat	35 30 60 65	40 60 20 40	NBR NBR NBR NBR	AISI 321 AISI 321 AISI 321
Cod Liver Oil Corn Oil Hermp seed oil Pig Fat Linseed Oil	35 30 60 65 55	40 60 20 40 20	NBR NBR NBR NBR NBR	AISI 321 AISI 321 AISI 321 AISI 321
Cod Liver Oil Corn Oil Hermp seed oil Pig Fat Linseed Oil Linseed Oil	35 30 60 65 55 30	40 60 20 40 20 40	NBR NBR NBR NBR NBR NBR	AISI 321 AISI 321 AISI 321 AISI 321 AISI 321
Cod Liver Oil Corn Oil Hermp seed oil Pig Fat Linseed Oil Linseed Oil Olive Oil	35 30 60 65 55 30 85	40 60 20 40 20 40 20	NBR NBR NBR NBR NBR NBR NBR	AISI 321 AISI 321 AISI 321 AISI 321 AISI 321 AISI 321
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Cod Liver Oil Corn Oil Hermp seed oil Pig Fat Linseed Oil Linseed Oil Olive Oil Olive Oil Palm Oil Palm Oil	35 30 60 65 55 30 85 40 130 45	40 60 20 40 20 40 20 40 20 40 20 40	NBR	AISI 321
Cod Liver Oil Corn Oil Hermp seed oil Pig Fat Linseed Oil Linseed Oil Olive Oil Olive Oil Palm Oil	35 30 60 65 55 30 85 40	40 60 20 40 20 40 20 40 20 40 20	NBR NBR NBR NBR NBR NBR NBR NBR NBR	AISI 321

Cotton seed oil 65	Media	Dynamic Viscosity mPa (cps)	Temprature, deg, °C	Stator elastomer	Rotor steel
Mininger Di products	Cotton seed oil				
Mortor oil 3AS 19 Motor oil 3AS 20 Motor oil 3AS 19 Motor oil 3AS 20 Motor					
Motor of SAS 10		100	20	NBR	AISI 321
Motor of S&E 10		30	20	NBR	AISI 420 heat-treated
Motor of SAE 15W40 390 20 NBR ASI 420 week Motor of SAE 30 380 20 NBR ASI 420 week ASI 420 week ASI 420 Motor of SAE 40 600 20 NBR ASI 420 week ASI 420 Motor of SAE 50 750 - 900 20 NBR ASI 420 week ASI 4					AISI 420 heat-treated
Motor oil SAE 15W40 3000				NBR	AISI 420 heat-treated
Motor of SAE 30 880 20 NBR AIS 420 hearts					AISI 420 heat-treated
Monton all SAE 30 SPE ASS 420 Beart AS					
Motor of SAE 590					AISI 420 heat-treated
Motor oil SAE 10W	Motor oil SAE 50				AISI 420 heat-treated
Motor of SAP 20W 160 20 NRR Alf 3420 heath	Motor oil SAE 5W	50	20	NBR	AISI 420 heat-treated
Gear of SAE 90 700 20 NBR ABI 420 hearth					AISI 420 heat-treated
Gear of SAE 140					
Hydraulic oil Hip 46					AISI 420 heat-treated
Hydraulic oil HLP 100 300 20					AISI 420 heat-treated
Engine of, thick					AISI 420 heat-treated
Engine oi, Liquid 150 20 NBR AIS 1420 Insertic Electric insulating oil 30 30 NBR AIS 1420 Insertic Electric insulating oil 60 - 200 20 NBR AIS 1420 Insertic Oil For Steam Turbines 30 - 1100 20 NBR AIS 1420 Insertic Oil For Steam Turbines 30 - 1100 20 NBR AIS 1420 Insertic Oil For Steam Turbines 30 - 1100 20 NBR AIS 1420 Insertic Oil For Steam Turbines 30 - 1100 20 NBR AIS 1420 Insertic Oil For Steam Turbines 30 - 1100 20 NBR AIS 1321 AIS 1420 Insertic Oil For Steam Turbines 30 - 1100 20 NBR AIS 1321 AIS 1420 Insertic Oil For Steam Turbines 30 - 1100 30 NBR AIS 1321 AIS 1420 Insertic Oil For Steam Turbines 30 - 1100 30 NBR AIS 1321 AIS 1420 Insertic Oil For Steam Turbines 30 - 1100 NBR AIS 1321 AIS 1420 Insertic Oil For Steam Turbines 30 - 1100 NBR AIS 1321 AIS 1420 Insertic Oil For Steam Turbines AIS	•				AISI 420 heat-treated
Electric insulating oil 30 30 NBR ALS 420 Instant	<u> </u>				AISI 420 heat-treated AISI 420 heat-treated
Electric insulating oil	3				AISI 420 heat-treated
Daliny products					AISI 420 heat-treated
Dairy products	<u> </u>	60 - 200	20	NBR	AISI 420 heat-treated
Butter Fat		30 - 1100	20	NBR	AISI 420 heat-treated
Cheese Spread	* *	45	40	NDD	AICL 224
Soft Cheese					
Condensed Milk	<u>'</u>				
Sweetened condensed milk	Cocoa butter	50	60	NBR	AISI 321
Cream (30-50 % fat content) 15 - 115 20 NBR AISI 321 Cream 500 20 NBR AISI 321 Milk 2 20 NBR AISI 321 Whey 800 - 1500 40 NBR AISI 321 Sour cream (30-50%) 11 - 115 20 NBR AISI 321 Yoghurt 150 40 NBR AISI 321 Liquid egg 150 45 NBR AISI 321 Foodsfuffs 8 20 NBR AISI 321 Water 894 20 NBR AISI 321 Baby Food 1400 40 NBR AISI 321 Vegetable Soup 430 20 NBR AISI 321 Vegetable Soup 430 20 NBR AISI 321 Chocolate Fauce 280 50 NBR AISI 321 Chocolate Sauce 280 50 NBR AISI 321 Whipped Desserts 1500 40 NBR AISI					
Cream					
Milk 2 20 NBR AISI 321 Whey 800 - 1500 40 NBR AISI 321 Sour cream (30-50%) 11 - 115 20 NBR AISI 321 Yoghurt 150 40 NBR AISI 321 Liquid egg 150 45 NBR AISI 321 Foodstuffs 150 45 NBR AISI 321 Cocoa - pasta 4000 20 NBR AISI 321 Baby Food 1400 40 NBR AISI 321 Baby Food 1400 40 NBR AISI 321 Chocolate products 370 20 NBR AISI 321 Chocolate products 2600 40 NBR AISI 321 Chocolate products 280 50 NBR AISI 321 Chocolate Sauce 280 50 NBR AISI 321 Fruit Pulp 600 20 NBR AISI 321 Whipped Desserts 1500 40 NBR <t< td=""><td>*</td><td></td><td></td><td></td><td></td></t<>	*				
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Vegetable Soup 430 20 NBR AISI 321 Chocolate products 2600 40 NBR AISI 321 Chocolate Sauce 280 50 NBR AISI 321 Fruit Pulp 600 20 NBR AISI 321 Whipped Desserts 1500 40 NBR AISI 321 Gelatine 1200 45 NBR AISI 321 Glucose 4300 - 6800 25 - 30 NBR AISI 321 Gravy 10 80 NBR AISI 321 Salat dressing 1300 - 2600 20 NBR AISI 321 Malt Extract 9500 20 NBR AISI 321 Mayonnaise 2000 20 NBR AISI 321 Fruit pice 50 20 NBR AISI 321 Fruit Huice Concentrate 1500 - 2500 20 NBR AISI 321 Fruit Huice Concentrate 1500 - 2500 20 NBR AISI 321 Fruit Pure 600 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
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Glucose 4300 - 6800 25 - 30 NBR AISI 321 Gravy 110 80 NBR AISI 321 Salat dressing 1300 - 2600 20 NBR AISI 321 jam 8500 20 NBR AISI 321 Malt Extract 9500 20 NBR AISI 321 Mayonnaise 2000 20 NBR AISI 321 Pectin 300 40 NBR AISI 321 Fruit juice 50 20 NBR AISI 321 Fruit Huice Concentrate 1500 - 2500 20 NBR AISI 321 Fruite Pure 600 20 NBR AISI 321 Apple Pure 1500 20 NBR AISI 321 Thick sweet porridge 1000 40 NBR AISI 321 Strach solution, 25° Baurne 300 20 NBR AISI 321 Sugar syrup 650 Bx 120 20 NBR AISI 321 Tomato Ketchup 1000 30					
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Alcoholic Beverages 10 - 100 20 NBR AISI 321					
Liquid Eggs 150 45 NBR AISI 321			20	NBR	AISI 321



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