

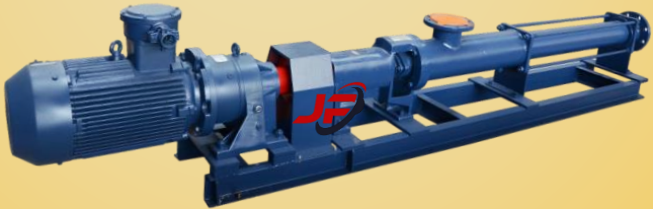
PRAISE YE THE LORD



# JAZ PUMPS

An ISO 9001:2015 CERTIFIED COMPANY

## PROGRESSIVE CAVITY SCREW PUMPS



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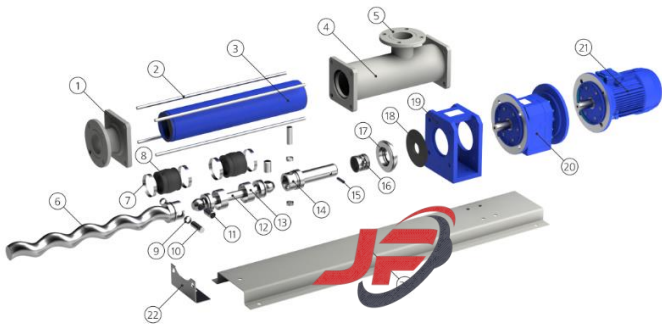
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## Technical data of our progressing cavity pumps:

- ✓ Delivery rate up to 100 m<sup>3</sup>/hr.
- ✓ Delivery head up to 45MWC.
- ✓ Pressures: 24Kg/cm.
- ✓ Temperatures from -20 °C up to +200 °C.
- ✓ High resistance to wear.
- ✓ Positive displacement.
- ✓ Non-clogging.
- ✓ pH-range: 0 up to 14.
- ✓ self-priming.

## Material of Construction:

- Pump body:
  - Gray Cast Iron, Rubber/FRP Lined, S.S-304,S.S-316& Special Alloys.
- Stator:
  - Natural, Nitrile, Neoprene, Hypalon, Food grade & special quality Rubber.
- Rotor:
  - Heat treated EN-19/Tool Steel, S.S-304, S.S-316 & Other special alloys.
- Rotating Parts:
  - Tool steel, S.S-304, S.S-316.



1 Discharge Flange

2 Thru-Bolt

3 Stator

4 Pump Housing

5 Suction Flange

6 Rotor

7 Holding Band

8 Boot Seal

9 Guide Bush

10 Coupling Rod Pin

11 Coupling Rod Bush

12 Coupling Rod

13 Retaining Sleeve

14 Plug-in Shaft

15 Shaft Pin

16 Shaft Sealing

17 Sealing Plate

18 Retaining Ring

19 Lantern

20 Gear

21 Drive

22 Support

23 Pump Base

## Principle of JAZ progressive cavity screw pumps:

- ❖ “JAZ” Progressive cavity Screw pumps are the rotating positive displacement pumps.
- ❖ They can handle liquids by conveying them into a conveying chamber first and then displacing them from there.
- ❖ The conveying movement is created by a rotating shaft . This shaft, called the rotor, oscillates against a fixed stator.
- ❖ Due to the turning, spiral geometry of the two components, conveying chambers (also called cavities) are created, in which the medium flows from the pump inlet to the pump outlet.
- ❖ While the rotor is made of a very hard material (usually metal, for special applications also ceramic), the stator is elastic and normally made of an elastomer.



Model no.	SUCTION DELIVERY SIZE	PUMP RPM	CAPACITY TPH	HEAD MWC	POWER (HP)	
					ABS.	REQ.
JS-50	2"X2"	480	7.0	30	1.1	1.5
			6.0	45	1.5	2
JS-75	3"X3"	480	15	30	2.5	3
			12	45	3.5	5
JS-100	4"X4"	480	25	30	5	7.5
			20	45	7.5	10
JS-150	6"X6"	480	45	30	10	12.5
			40	45	15	20
JS-200	8"X8"	480	80	30	15	20
			70	45	20	25
JS-250	10"X10"	480	100	30	25	30
			90	45	30	30



### APPLICATIONS OF “JAZ” PROGRESSIVE CAVITY SCREW PUMP:

- ❖ Metering and dosing.
- ❖ Dairy .
- ❖ Fruits& Vegetables processing.
- ❖ Sweets & Confectionaries.
- ❖ Wastewater chemical manufacturing.
- ❖ Oil pumping/petroleum production.
- ❖ Food and Beverage processing.
- ❖ Pulp and paper.
- ❖ Environmental technology.
- ❖ Sewage, sludge, and slurry pumping.
- ❖ Grout or cement pumping.
- ❖ Limited energy well water pumping.
- ❖ Lubrication oil pumping.
- ❖ Sugar& Distilleries.
- ❖ Mining.
- ❖ Starch industries.