

**TECHNICAL SPECIFICATIONS**

**SJS – 21TSX150 Series**

CRANKSHAFT SPEED				POWER INPUT					
MODEL	PLUNGER IN MM	LPM	GPM	20 HP	25 HP	30 HP	35 HP	40 HP	50 HP
				MAX.PRESSURE (Kg/cm <sup>2</sup> ) @ POWER (HP)					
21280	20	21	6	280	x	x	x	x	x
21350	18	21	6	350	x	x	x	x	x
30300	20	30	792	x	300	x	x	x	x
30500	20	30	792	x	x	x	x	500	x
50200	25	50	132	x	200	x	x	x	x
50300	25	50	132	x	x	300	x	x	x
60300	25	60	158	x	x	x	x	x	300
70150	30	70	185	x	x	150	x	x	x
70200	30	70	185	x	x	x	x	200	x
85150	30	85	225	x	x	x	150	x	x
100120	36	100	264	x	x	120	x	x	x
150100	40	150	396	x	x	x	x	100	x

**I. Power End:**

Manufactured from High strength grey cast Iron Power End housing, containing Induction hardened Alloy steel Crank shaft, driven by means of built in helical gears & pinion drive which is supported by cylindrical Roller Bearing at both ends. Connecting rod machined from S. G. Iron with automotive type Split insert Big & Shell

**II. Fluid End:**

Ultrasonically tested forged S.S Pump head ensures safe operation at High pressure. Stainless-Steel Spring-loaded Valve & Valve seat for positive closing & Opening are machined, heat treated & grounded. Surface finishes for longer Seal & Plunger life. Teflon/PTFE made & easily replaceable Plunger seal in the Stainless-Steel Stuffing box.

**III. Motor:**

1. Type -TEFC, Squirrel Cage Induction

**OFFICE:** 11, BLOCK-22, SPRING FIELD COLONY  
SEC-32, FARIDABAD -121003, HARYANA

**WORKS:** PLOT No. 78,  
VISHWAKARMA IND. AREA,  
PALI-BHAKRI ROAD, FARIDABAD-121001  
HARYANA

**E-MAIL:** STERLINGJETTING.SYSTEMS@GMAIL.COM  
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2. Rating- Suitable For 415 V +/- 10%, 3 Phase 50 Hz +
  3. Mounting – Foot Mounted
  4. Temperature- Ambient Temp. 40 Deg. C, Class
  5. Standard- As per IS: 325
  6. Make - KIRLOKAR/ ABB/ SIEMENS
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- IV. **Electric Control Panel:** Non-F.L.P Type, Trolley mounted with standard makes fitting & accessories.
  - V. **Trolley:** M.S Fabricated, Tow- able with swivel arrangement four wheels Trolley.
  - VI. **Safety:** Spring-loaded High-Pressure relief valve
  - VII. **Filtration Unit:** Basket Type 100 Micron
  - VIII. **Booster Feed Pump:** Horizontal Centrifugal, Kirloskar Make
  - IX. **Pressure Gauge:** 0 to 1000 BAR, Glycerin Filled 4" S.S Dial, 1/4" BSP Bottom Connection
  - X. **Oil Pump:** Dowety Make Gear Type
  - XI. **Oil Cooler:** Shell & Tube Type Oil Cooler
  - XII. **Coupling:** H. P. Pump & Motor Coupling Type
  - XIII. **Pressure Regulating Valve:** Spring Loaded, Stepless Type 0 to 1000

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### DO's

1. Before starting the H.P. Pump, check oil level in crank case & to be maintained & changed as per O & M manual.
2. Electrical connection should be proper.
3. Electrical motor rotation should be Clockwise from Fan side.
4. All high pressure hoses & adaptors connections should be proper tightened.
5. Water suction pressure should be 2-4 BAR.
6. Water Filter should be cleaned before starting the pump.
7. Safety Valve testing to be done once in 2 to 3 months.
8. Ensure continuous flow of filtered water with 40-80 Microns Filtration level.
9. Use proper & recommended Nozzle.
10. Stop H. P. Pump immediately if there is any leakage in discharge & abnormal sound during the operation.
11. H. P. Pump operation must be as per O & M manual.
12. All Hoses / Flexible Lances should be avoided in contact with sharp corners.
13. No leakage in Suction & Discharge is acceptable during operation.
14. All Pressure / Temperature switches to be checked periodically.

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### DONT's

1. Don't start the H. P. Pump in load condition.

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2. Don't wear loose clothes while attending the pump.
3. Pressure Switches should not be bypassed.
4. Damaged H. P. Hoses should not be used & to be replaced.
5. Avoid over tightening of Pressure Regulator.

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