1 TON SERVO PRESS – TECHNICAL DATA SHEET

Leak Test & Automation Pvt. Ltd.
Innovation For Tomorrow

Leak Test | Flow Test | Servo Press | Marking | Special Purpose Automation

1. GENERAL INFORMATION

Parameter	Specification
Model Name / No.	SP-S1T
Machine Type	Electric Servo Press
Capacity	1 Ton (10 kN)
Drive System	AC Servo Motor
Control Type	Programmable via Touch Screen HMI
Application	Precision pressing, assembly, forming, riveting, insertion

2. PERFORMANCE PARAMETERS

Parameter	Specification
Rated Force	10 kN (1 Ton)
Force Accuracy	±1% F.S.
Position Accuracy	±0.01 mm
Repeatability	±0.01 mm
Press Speed Range	1 – 100 mm/s (programmable)
Press Stroke	Up to 100 mm
Approach Speed	Up to 200 mm/s
Return Speed	Up to 200 mm/s
Cycle Time	< 1.5 sec (depending on stroke)

3. MECHANICAL SPECIFICATIONS

Parameter	Specification
Press Type	C-Frame / Table-top
Press Head Mounting	Vertical
Ram Diameter	25 mm
Working Height (Adjustable)	200 – 400 mm
Tool Mount Interface	M12 / Customizable
Frame Material	Cast Iron / Structural Steel Fabrication
Overload Protection	Software & Hardware Limit

4. SERVO & CONTROL SYSTEM

Parameter	Specification
Servo Motor Power	0.75 – 1.0 kW
Encoder Resolution	20-bit absolute
Controller	Industrial PLC / Motion Controller
Interface	7" HMI Touch Panel
Program Storage	Up to 100 Press Profiles
Data Logging	USB / Ethernet export (CSV format)
Feedback Type	Load Cell + Linear Encoder

5. ELECTRICAL SPECIFICATIONS

Parameter	Specification
Power Supply	230V AC, 50/60 Hz, Single Phase
Rated Current	6 A (approx.)
Control Voltage	24V DC
Safety Standard	CE / ISO 12100 compliant
Emergency Stop	Provided
Power Consumption	< 1.2 kW (average)

6. OPERATION MODES

- Force Control Mode – Press to defined load.
- Position Control Mode – Press to specific stroke.
- Mixed Mode – Combined load & position.
- Teach Mode – Manual setup and teaching cycles.
- Automatic Mode – PLC integrated or stand-alone cycle.

7. FEATURES

- Compact design with rigid C-frame.
- High precision servo drive for repeatable pressing.
- Real-time force–displacement graph display.
- Programmable press profiles and limits.
- Load, position, and speed curve recording.
- Maintenance-free operation.
- Optional data communication via Ethernet / RS-485.

8. OPTIONAL ACCESSORIES

Accessory	Description
Force Sensor (Load Cell)	10 kN strain gauge type
Linear Encoder	High-resolution absolute encoder
Tooling Fixture	Custom designed per component
Press Table	Heavy-duty steel table with anti-vibrating leveling pads
Data Management Software	PC-based analytics software

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9. DIMENSIONS & WEIGHT

Parameter	Specification
Machine Dimensions (L × W × H)	400 × 350 × 650 mm
Net Weight	Approx. 80 kg

10. ENVIRONMENTAL CONDITIONS

Parameter	Specification
Operating Temperature	0 – 45°C
Relative Humidity	< 80% (non-condensing)
Noise Level	< 70 dB

11. COMPANY DETAILS

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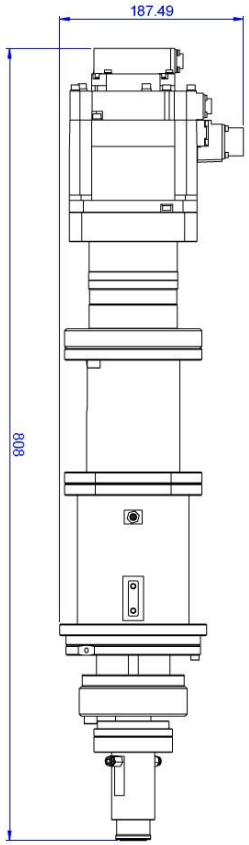
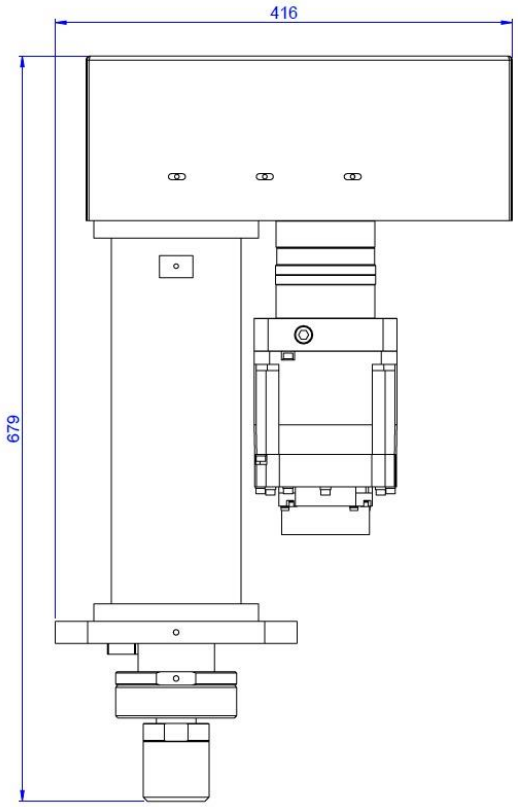
NOTE: This information corresponds to the current state of knowledge. SPLTA reserves the right to make technical changes. Liability for consequential damage resulting from the use of SPLTA products is excluded.





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