

PAS

PLASTIC ASSEMBLY SYSTEMS

Model SW750 / SW850 / SW950

The PAS Model SW 750, SW 850 and SW 950 Spin Welding Systems offer the highest level of machine control in the industry to date. PAS couples new servo control technology with years of experience to bring to market the most advanced line of spin welding equipment. Dual servo control in both the spin axis and the z-axis allow for precise control of your spin welding applications. Our complete line offers end users the ability to run small, medium and large parts and applications that require high precision and repeatability. The SW 750, 850 and 950 can be used as stand alone pieces of equipment or coupled with other automation technologies to meet your part volumes.

Spin welding is used to join two plastic parts which are spherical or cylindrical in shape. Frictional heat is generated at the mating surface by spinning one part (upper) against a fixtured (lower) part, thus welding the assembly together. Spin welding is a fast process that works with large and small diameter parts as well as a broad range of thermoplastic resins. Hermetic seals are achievable.

Standard features:

- Dual servo motors (spin and z-axis)
- Rolled ball screw with integrated oiling system
- Z-axis control adjustable in .001" increments
- Spin control +/- 1 degree
- Dual welding setups: by spin or by distance
- Spin welding speeds adjustable in 1 RPM increments
- Spin welding speeds 1-3000 RPM
- Z-axis speeds adjustable in .100" inches per minute increments
- Multiple speeds / feeds and distances per each weld cycle
- Multiple job storage 1-100 jobs
- Adjustable head home position allows for lowered start position to increase production
- Dual linear rails with four linear carriages
- Steel ground machine column
- 20" to 36" machine travel to accept long parts (longer strokes available)
- SW750 / SW850 actuator heads can be easily mounted into automation and can be mounted in any axis
- Microprocessor based hardware with LCD display
- Zero force Opto touch palm buttons
- Steel Blanchard ground work table with locking casters
- Integrated machine controls
- Vacuum head

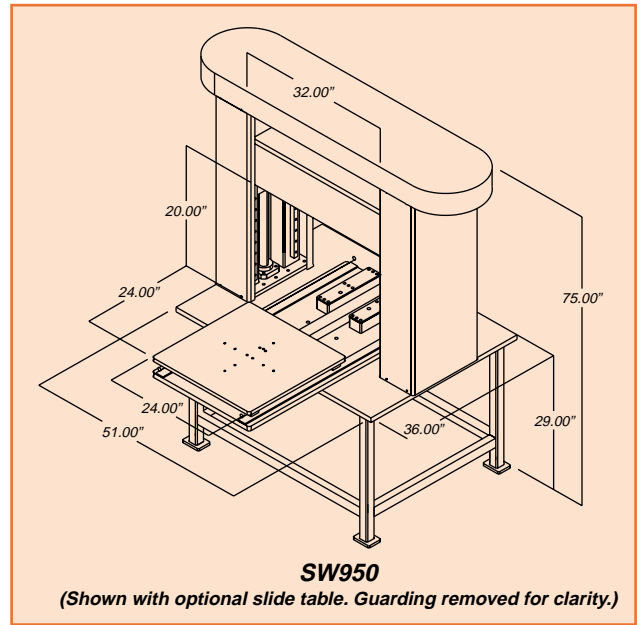
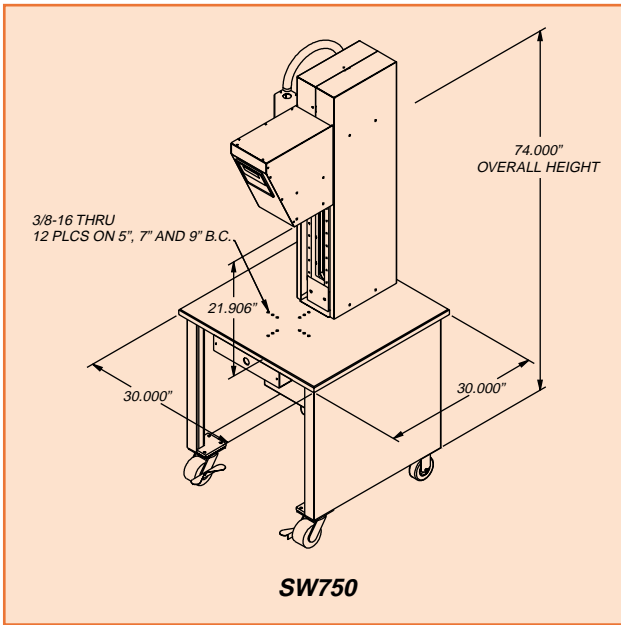


Options Available:

- Automation remote actuation cables
- Part presence detection
- Light curtain actuation
- Automatic part ejection station
- FRL assembly for pneumatic part clamping
- DVT vision system part detection
- Bowl feeders
- Rotary, Pallet, Under/Over Conveyer integration and systems available

WE SUPPLY SOLUTIONS!

THERMAL ASSEMBLY EQUIPMENT • SPIN WELDERS • ULTRASONIC WELDERS • VIBRATION WELDERS
HOT PLATE WELDERS • CUSTOM ASSEMBLY SYSTEMS • PRE-OWNED EQUIPMENT



Features and Benefits:

- Ability to melt a significant amount of material at the joint interface
- Hermetically seals various applications
- Bonds material with fillers such as glass
- Accommodates virtually any diameter part with proper torque and rpm
- Handles virtually any length extrusion

| Machine: | SW 750 | SW 850 | SW 950 |
|-------------------------------------|---|---|--|
| Max Z Axis Pressure | 2000lbs | 2000 lbs | 8000lbs |
| Power requirements | 240VAC 3 Phase 30Amps | 240VAC 3 Phase 30Amps | 240VAC 3 Phase 40Amps |
| Pneumatic Requirements | 100PSI (For machine peripherals only) | 100PSI (For machine peripherals only) | 100PSI (For machine peripherals only) |
| Overall dimensions | 30.00"W x 30.00"D x 73.00"H | 30.00"W x 30.00"D x 73.00"H | 51.00"W x 36.00" D x 75.00" H |
| Stroke (Longer Strokes Available) | 20.00" No Tooling | 20.00" No Tooling | 20.00" No Tooling |
| Throat Depth (Deeper Available) | 5.675" | 5.675" | 32.00" |
| Weight | 325Lbs | 465Lbs | 1200Lbs |
| Max Spin RPM | 3000RPM | 2000RPM | 2000RPM |
| Approx. Weldable Part Size | 6.00" Dia. (depending on material) | 11.00" Dia. (depending on material) | 24.00" Dia. (depending on material) |
| Max Part Dia. | 11.250" | 11.250" | 32.000" |
| Max Z-Axis Speed | 400IPM | 400IPM | 100IPM |
| Spin Head Bolt Pattern | 1/4-20 X 4 ON 2.500" B.C. | 1/4-20 X 4 ON 2.500" B.C. | 3/8-16 X 12 ON 5.00"/ 7.00"/ 9.00"B.C. |
| Base Bolt Pattern | 3/8-16 x 12 ON 5.00"/ 7.00"/ 9.00" B.C. | 3/8-16 x 12 ON 5.00"/ 7.00"/ 9.00" B.C. | 3/8-16 x 12 ON 7.00"/ 9.00"/ 12.00" B.C. |



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