



SW44 Actuator



High Force Capability

- 11.1 kN / 2500 lbf Weld Force
- 19.6 kN / 4400lbf Peak Force

NO Water Cooling

- Radiant Cooled

ZERO Maintenance

- +10 million cycles / roller screw

High Force Repeatability

- +/- 3 % programmed force / roller screw

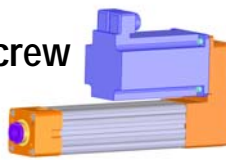
Manual Override Standard

- NO special tools

Available with Roller Screw or Ball Screw

Smaller size and less weight

- Compared to reverse parallel (RP) servo actuator

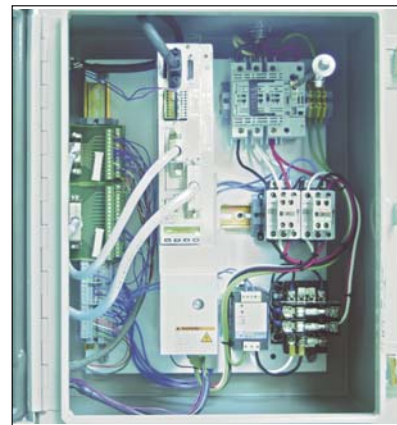


Pictured: reverse parallel motor mounting

Complete 7th Axis Robot Integration

- Integrate robot manufacturer feedback device into SW enclosed housing

WeldAxis



6 Axis Robot Application

- Integrate with Robot Controller PLC for servo RSW gun operation

Pedestal Guns

- Operation of Servo RSW without robot

Quality Functionality

- "Soft-Touch" eliminates high impact forces
- Weld cap wear & lost weld cap detection
- Position and force can be recorded for each weld

Speed

- "At force" indication allows for immediate welding

Retrofit existing pneumatic applications

- Use existing PLC signals

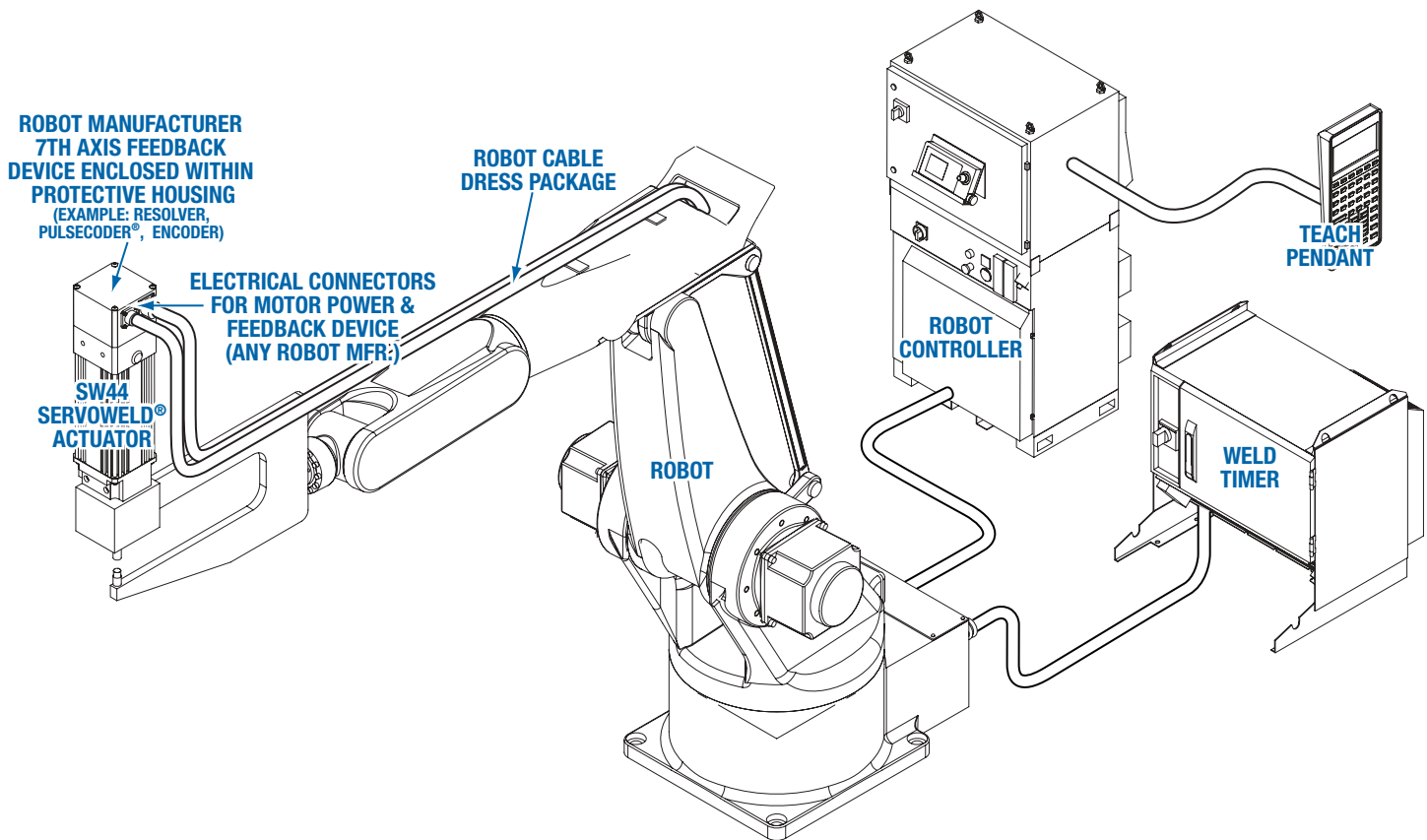


3800 County Road 116 • Hamel, MN 55340 U.S.A.
 Phone: (763) 478-8000 • Fax: (763) 478-8080
 Toll-Free: 1-800-328-2174
 Email: help@tolomatic.com • <http://www.tolomatic.com>

BROCHURE NUMBER:
 3604-4164_00

7th AXIS ROBOT CONTROLLER / SERVOWELD® INTEGRATION

- Complete RSW Gun Operation From Robot 7th Axis Controller/Drive
- Easy Connection with Robot Cable Dress Package



- Order robot with auxiliary 7th axis feedback device.
- Tol-O-Matic to provide RMA number to robot manufacturer for shipment of the 7th Axis feedback device directly to Tol-O-Matic.
- Tol-O-Matic will mount 7th axis robot feedback device to Servoweld actuator, electronically phase Servoweld motor windings with feedback device windings, validate functionality of Servoweld/7th axis robot feedback device combination.
- Tol-O-Matic ships SW44 Servoweld actuator for mounting on RSW gun.
- Robot manufacturer provides robot 7th Axis Set-Up Software with SW44 Servoweld actuator parameters integrated into program User Selectable Option

SERVO WELD®



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