



A Practical, Flexible & Reliable Solution

Servo Actuators

The CenterLine Reverse Parallel Servo Actuators offer customers a practical and flexible servo drive product choice.

Delivering precise process control in a practical and adaptable design envelope, the CenterLine Servo Actuators offer the following benefits:

High force without sacrificing speed

- ▶ Match the complete range of industry standard weld cylinder force requirements (up to 4,000 lbf).
- ▶ Eliminates requirement to increase weld gun size in order to gain mechanical advantage for the actuator.
- ▶ Allows use of existing CenterLine weld gun designs (new or retrofit needs).
- ▶ Typical actuator speed of 250 mm/second (9.8 in/sec).

Adaptability

- ▶ Same primary components used for "C" style and pinch style gun actuators.
- ▶ Actuator can be configured for various motor locations to support virtually all weld gun access requirements.
- ▶ Accommodates a range of standard commercially available servo motor brands (Fanuc, Kuka, Yaskawa, ABB, Nachi, Comau, Kawasaki, etc.)
- ▶ Tuning and configuration accomplished with minimal effort.
- ▶ The motor position can be changed without additional calibration or tuning.
- ▶ Provides precise actuator force control throughout the entire stroke.
- ▶ Can adapt to a standard motor matching the robot for optimum integration and operational effectiveness.

The CenterLine Servo Actuator is a practical and effective solution to upgrading existing weld gun systems from pneumatic to servo operation. Contact us to discuss your servo welding needs today.



PRACTICAL DESIGN

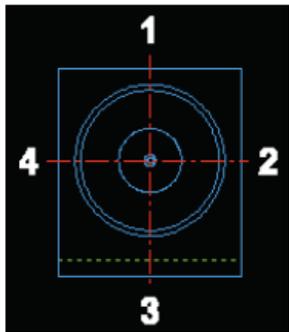
Belt drive and planetary roller screw design for quiet and trouble-free operation.

The planetary roller screw does not use ball bearings.

The CenterLine Servo Actuator is supplied as a component of CenterLine welding gun packages and is not available as a stand-alone product.



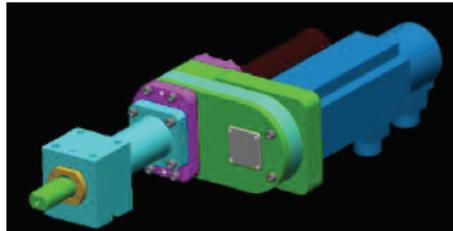
Servo Actuator Orientation



Orientations are called out by three position number (e.g. 110) looking at the actuator from the front with the mounting block as shown:

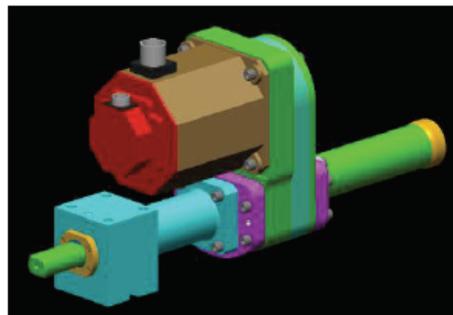
| | |
|----------|---------------------|
| 1 = 0° | 5 = 0° (reversed) |
| 2 = 90° | 6 = 90° (reversed) |
| 3 = 180° | 7 = 180° (reversed) |
| 4 = 270° | 8 = 270° (reversed) |

The motor rotation is the first of the three numbers, the motor connector second, and the wing third (0 for the last position means no wing is present).



SYBMF24230N02DR5

Servo with Nachi motor, 6" stroke, 5:4 gear ratio, keyed mount block, R5 rod modification, motor in position (2), motor connectors in position (3), no wing mount present (0).



SYBMF24510F03KR5

Servo with Fanuc motor, 6" stroke, 2:1 gear ratio, keyed mount block, R5 rod modification, motor in position (5), motor connectors in position (1), no wing mount present (0).



SYBFP24110F03KZ2

Servo with Fanuc motor, 6" stroke, 2:1 gear ratio, front pivot mount block, Z2 standard rod, motor in position (1), motor connectors in position (1), no wing mount present (0).

CENTERED ON SOLUTIONS

HEAD OFFICE:

CenterLine (Windsor) Ltd.
415 Morton Drive
Windsor, Ontario, Canada
N9J 3T8

Head Office
Sales
Service

TELEPHONE TOLL-FREE
519-734-8464 800-820-6977
519-734-6560 800-771-6172
519-734-0080 800-268-8184

EMAIL

info@cntrline.com
sales@cntrline.com
service@cntrline.com



Visit our website to obtain detailed contact information for each of CenterLine's operations.

www.cntrline.com

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