



**Patent Pending** 

# **Compact ServoWeld™ Actuator**

The CSWL delivers the highest precision, highest quality and best reliability of welding actuators in a lighter design.



Designed with collaborative customer input, the CSWL exceeds expectations with:

Boolgilou With Comabolative Castellior input, the Cotte Chocoad Checations With				
Desired Improvements	Benefits of CSWL			
Small Package High Power Density	<ul> <li>13 kN (2,920 lbf) of force in a compact 90 mm frame</li> <li>6.15 kg (13.56 lb) to 7.25 kg (15.98 lb) at 152 mm (6.0") stroke length</li> </ul>			
More Welds per Minute	Top speed C Gun performance     Water cooling for high performance duty cycles			
Manufacturing Flexibility	<ul> <li>Force range and speed to adapt quickly to increases in production demand</li> <li>Supports small, light and powerful weld gun designs</li> </ul>			
Reliability	<ul> <li>Estimated life up to 20 million+ welds in typical welding applications with proper maintenance.</li> <li>In field serviceability with rod tip zerk fitting</li> </ul>			

	Benefits of ServoWeld and Tolomatic
Trusted Worldwide	<ul> <li>Validated and specified at the largest global automotive OEMs</li> <li>Tens of millions of vehicles manufactured with ServoWeld actuators, since 2002</li> <li>Tolomatic's engineering design experience since 1954</li> <li>4 Service Centers in North America, Europe and Asia</li> </ul>
Highest Performance Resistance Spot Welding	<ul> <li>Superior tip dressing performance</li> <li>Best in class force repeatability</li> <li>Exceptional sensitivity during robot equalization (EQ)</li> <li>Unrivaled low force performance for class A surface production</li> </ul>



MADE IN



**GREASE PORT** Convenient lubrication without disassembly for extended screw life

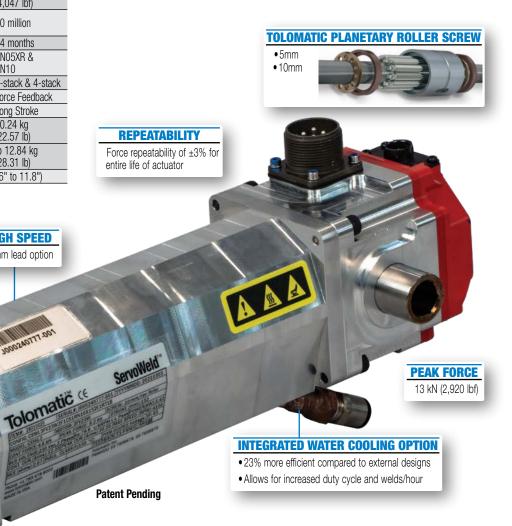
#### **Compact ServoWeld™ Actuator**

	CSWL	CSW	CSWX
Force capability	13 kN (2,920 lbf)	15.6 kN (3,500 lbf)	18 kN (4,047 lbf)
Typical Weld Estimated Life	20 million	20 million	30 million
Warranty	12 months	12 months	24 months
Roller Screw	RN05 & RN10	RN05 & RN10	RN05XR & RN10
Motor	3-stack	3-stack	3-stack & 4-stack
Ontional	NA	NA	Force Feedback
Options:	NA	NA	Long Stroke
Weight: (CSWL: 150mm/6")	6.15 kg (13.56 lb)	10.24 kg (22.57 lb)	10.24 kg (22.57 lb)
(CSW: 160mm/6.3")	to 7.25 kg	to 12.84 kg	to 12.84 kg
(CSWX: 160mm/6.3")	(15.98 lb)	(28.31 lb)	(28.31 lb)
Stroke Length	152.4 mm	up to 300 mm (6" to 11.8")	
			·

## **DURANCE TECHNOLOG**

A Tolomatic Design Principle

Endurance Technology features are designed for maximum durability to provide extended service life.



#### Manufactured in the U.S.A.





#### USA - Headquarters Tolomatic Inc.

3800 County Road 116 Hamel, MN 55340, USA Phone: (763) 478-8000 Toll-Free: 1-800-328-2174 sales@tolomatic.com www.tolomatic.com

#### **MEXICO**

**HIGH SPEED** 10 mm lead option

> Parque Tecnológico Innovación Int. 23, Lateral Estatal 431, Santiago de Querétaro, El Marqués, México, C.P. 76246 **Phone:** +1 (763) 478-8000

### **EUROPE**

**EXCELLENCE IN MOTION** 

**Tolomatic Europe GmbH** 

Elisabethenstr. 20 65428 Rüsselsheim Germany Phone: +49 6142 17604-0

www.tolomatic.com/de-de

that may appear in this document. Tolomatic reserves the right to change the design or operation of the equipment described herein and any associated motion products without notice. Information in this document is subject to change without notice.

202406181045

Centro de Servicio help@tolomatic.eu help@tolomatic.com

**Tolomatic Automation Products** 

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001 =

Certified site: Hamel, MN

(Suzhou) Co. Ltd.
No. 60 Chuangye Street, Building 2
Huqiu District, SND Suzhou Jiangsu 215011 - P.R. China Phone: +86 (512) 6750-8506 Tolomatic\_China@tolomatic.com

respective owners. Information in this document is believed accurate at time of printing. However, Tolomatic assumes no responsibility for its use or for any errors

All brand and product names are trademarks or registered trademarks of their

Visit www.tolomatic.com for the most up-to-date technical information

© 2024 Tolomatic, Inc.