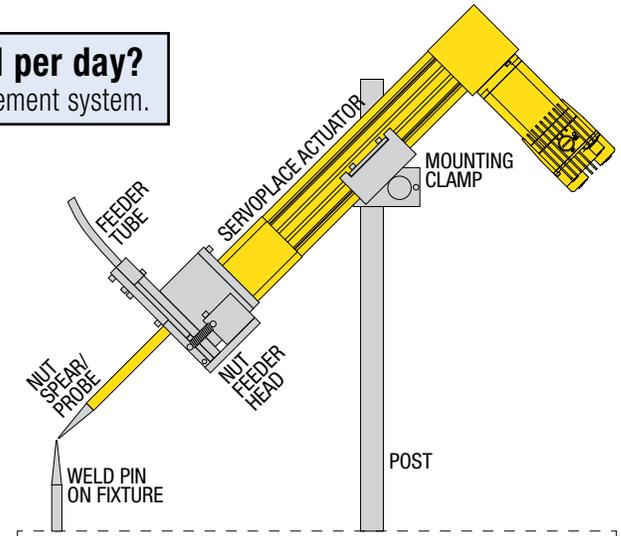
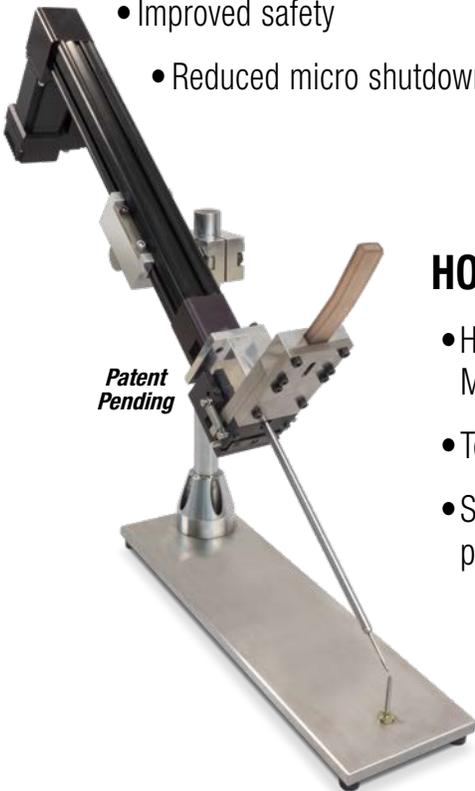


SERVOPLACETM PRECISION NUT PLACEMENT ACTUATOR

Precision fastener placement for projection and stud welding

Have you counted the number of nuts dropped per day?
They indicate the failure rate of your current pneumatic nut placement system.

- ServoPlace reduces system failures to near zero, increasing productivity and component quality
- ROI within weeks
- Decreased welding cycle times by as much as 20% for increased throughput
- Improved safety
- Reduced micro shutdowns



SERVOPLACE IN A TYPICAL NUT PLACEMENT SYSTEM

HOW IT WORKS

- High Speed Electric Rod-Style Actuator + ACSI Integrated Servo Motor/Drive/Controller
- Total package matched for optimal performance
- ServoPlaceTM provides feedback to the weld cell controller to improve process control, minimize component wear and prevent damage
 - No minimum or maximum install angle required. Accurate performance even when mounted vertically
 - Adapts to your preferred nut placing head

Application Challenges with Pneumatic Cylinders	Advantages with ServoPlace TM
Limited control and inconsistent air flow	Significant improvements in accuracy and repeatability with "smart" servo-electric motion control (accel, decel, velocity +)
Time consuming setup and changeover with pneumatic flow controls	Simple setup and change-over with programmable electric system: pneumatic mode servo or through PLC via Ethernet plug and play
Dedicated units often required for various fastener sizes	Multiple size nuts can be placed by the same actuator with minimal programming
Inevitable leaks in pneumatic components reduce system performance and cause costly downtime	Longer life, consistent performance. Tested for millions of cycles with no maintenance required

SERVOPLACE™ PRECISION NUT PLACEMENT ACTUATOR

FLEXIBLE CONTROL FOR ANY PLC

- Ethernet: EtherNet/IP, Modbus TCP
- Pneumatic Logic with discrete I/O



INTEGRATED SERVO MOTOR/ DRIVE/ CONTROLLER

- IP65 ingress protection
- M12 connectors
- Dual Ethernet ports

MOTOR ORIENTATION

Direct drive option couples the driving shaft and is typically a one-piece housing construction for optimum alignment and support of the motor

STEEL THRUST ROD

Case hardened steel thrust rod for high rigidity and corrosion resistance

LIGHTWEIGHT ALUMINUM DESIGN

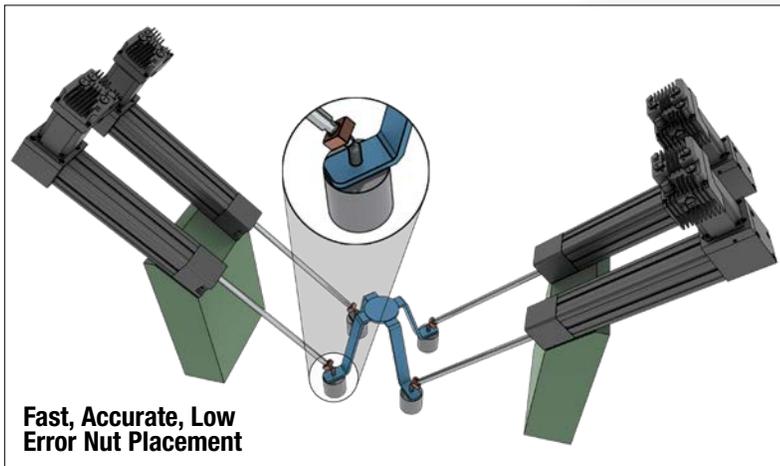
- Black anodized extrusion design is optimized for rigidity and strength
- External switch channels on all sides allow easy placement of position indicating switches

OVERSIZED PULLEY BEARINGS

Drive shaft assembly incorporates sealed ball bearings for complete support of the increased belt tension at high speeds

SPEEDS UP TO 5 M/S (200 IN/SEC)

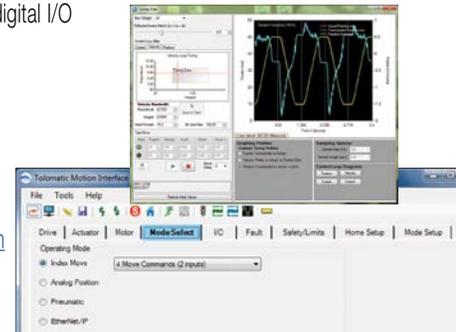
Patent Pending



Fast, Accurate, Low Error Nut Placement

(TMI) Tolomatic Motion Interface: Easy to Use Operating Modes & Configuration Software

- Index position via digital I/O
- Pneumatic Logic
- Analog Position
- Ethernet
 - EtherNet/IP
 - Modbus TCP
- Free download at www.tolomatic.com



Tolomatic™

EXCELLENCE IN MOTION

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 = Certified site: Hamel, MN

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