



# Silicone Instrument Handles

Symmetry Medical offers numerous ergonomic silicone handle styles for use with various instruments. The handles are available cannulated or sealed, with several options including impaction caps, standard internal threaded connections, standard external shaft quick connects, ratcheting drivers and torque limiting mechanisms. They are available in unlimited colors and custom shapes.

Symmetry handles are manufactured using a state-of-the-art proprietary process. The material used for the silicone handles is a custom blended formulation. Hardness and color preferences can be modified to meet customer requirements.

Handles are available with standard threaded connections or spring loaded quick connectors to accommodate multiple instrument designs. Handles can be color-coded and are available in complementary shapes for use on various instruments.

## Unlimited Custom Coloring Available

- Consistent, aesthetic appearance of entire instrument sets.
- Color-coding of instruments for procedure specific applications.



## Textured Silicone Rubber Construction

- Non-slip texture, autoclavable and durable.



## Available with or without Standard Shaft Connectors (1/4 inch Square Locking Connector, A/O, Hudson, etc.)

- Handles are available for use on existing instruments with standard drive ends or threaded ends.
- Handles are also available for assembly through Symmetry for supplied instruments.

## Interchangeability

It is possible to have Non-Ratcheting, Ratcheting and Torque-Limiting Handles in the same set with the same colors and similar handle styles.



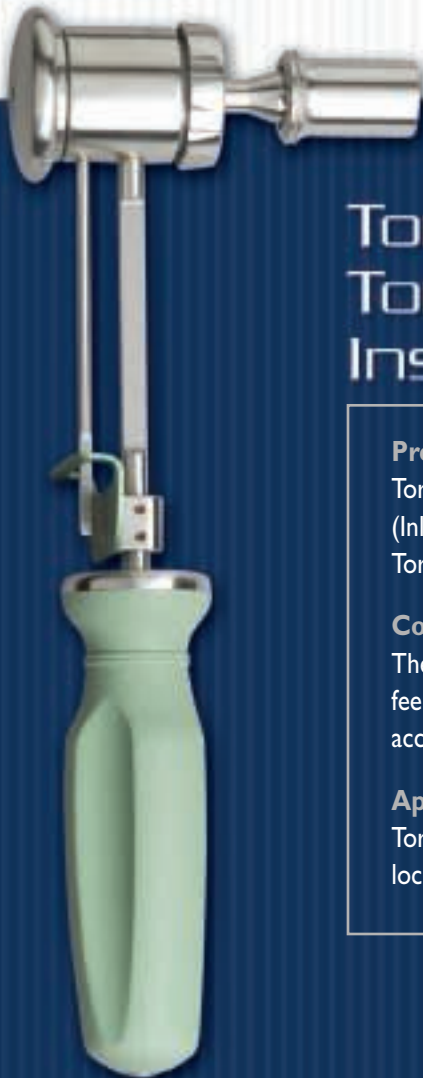
**SYMMETRY Medical**<sup>®</sup> Inc.

# Ratcheting Screwdriver Handles

## Product Description

The Ratcheting Screwdriver provides the ability to ratchet in **forward or reverse direction** or **lock in a central position**. The core ratcheting design can be housed in a variety of standard silicone handles and can be mated with various standard connectors. We offer a truly custom instrument, where our ratchet mechanism is built into your existing handle design.

In addition, our Dedicated Design and Development Teams can help attach any custom connector to the mechanism, make accommodations for specific cannulation diameters and combine additional design elements with existing Symmetry instrument designs.



## Torque Limiting/ Torque Measuring Instruments

### Product Description

Torque Wrenches are offered in multiple styles. These include: Torque Limiting Silicone Handle (Inline Handle & T-handle) and also Deflection Beam Torque Wrench (Ratcheting & Non-Ratcheting). Torque Wrenches are available to fit existing sterilization trays.

### Construction

The torque-limiting designs use a proprietary bearing mechanism that provides a smooth, accurate feel with reduced snap and recoil. This design includes an ultra-smooth mechanism for optimal accuracy and durability. All wrenches are sealed to withstand repeated autoclave cycles.

### Applications

Torque Wrenches are used to limit or measure the amount of torque applied to screws, locking mechanisms, constructs or other devices.



## Applications

Ratcheting Screwdrivers are used in varied surgical applications. This may include some of the following:

- Hand drilling,
- Tapping,
- Reaming,
- Bone screws placement,
- Spinal constructs assembly.

## Construction

The internal components of the ratchet are fully supported to withstand extreme torque. Only 10 degrees of rotation

are required to actuate the ratchet.

Very low back-torque allows ease of screw starting/insertion. The proprietary gear/bearing design provides a smooth, consistent feel.

The fully autoclaveable design is cannulated for flushing during cleaning.



## Features & Benefits

### Three Position Selector Cap

- Provides ratcheting **forward and reverse** or a **central locking position**.
- Customer may specify the forwarding ratchet direction be selected by rotating selector cap in either clockwise or counter-clockwise direction.

### Ratcheting Design Mechanism

- Reduces side-to-side and axial end play between central shaft and handle.
- Available with industry standard quick connect options (1/4 inch Square Locking, A/O, Hudson, etc.).

### Silicone Handles Available in Unlimited Colors

- Consistent, aesthetic appearance of entire instrument sets.
- Color-coding of instruments for procedure specific applications.

### Available Cannulated and with Impaction Caps

- Full cannulation up to .187 inch diameter (4.7 millimeter) for use in guidewire applications.
- Protective cap on handle end available for impaction.

### Replacement for Current Instrument In Existing Systems

- Handle styles and designs are available to fit existing sterilization trays.



## Features & Benefits

### Smooth Consistent Operation

- Reduced recoil or snap from break-over upon meeting torque setting.
- Optimal accuracy and durability.

### Customer Specified Working Torque Range

- Torque-limiting designs can be pre-set to break over at a specific torque setting (five inches/pounds to 200+ inches/pounds).

### Cannulation

- Designs available to accommodate diverse cannulation requirements.



### Product Description

Symmetry Medical's expanded Spinal Product Offering includes:

- Rod Benders • Rod Cutters
- Palm Style Bone Awls/Probes/Pedicle
- Finders • Drills • Taps
- Torque Wrenches • Mini Screwdrivers
- Depth Gauges • Cervical Instruments
- Many Other Custom Options

Symmetry Spinal Instruments offer high performance levels, durability, accuracy and feel.

# Spinal Instruments



### Features & Benefits

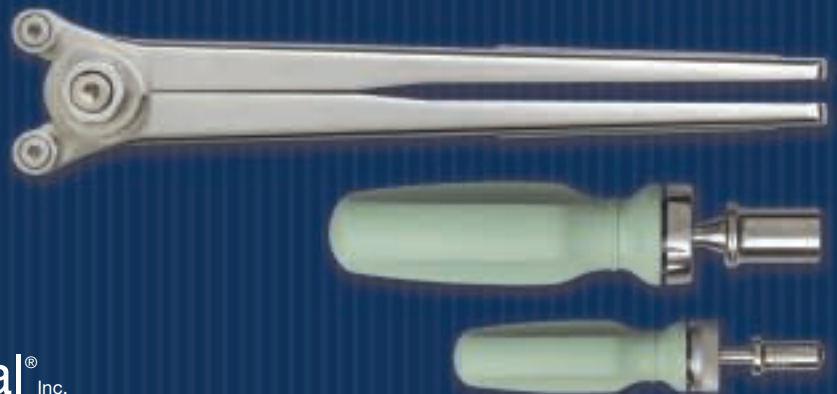
#### Standard Instruments

- Standard spinal instrument designs are available for use in various surgical procedures.
- Help reduce time to market.

#### Custom Design

- All instrument designs may be tailored to meet customer requirements, including custom colors, shaft connections, torque settings and other critical dimensions.
- Symmetry Medical Dedicated Design and Development Teams are available for all product customization needs.

**Contact Symmetry Medical for your next project.**



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