



Manual Torque Products

Products and Solutions for Assembly



| About ASG

We are personally committed to understanding and exceeding our customers' requirements. We are committed to continuously improving our products and processes.

We are dedicated to delivering products, services, and solutions on time and at a competitive value.

ASG, Division of Jergens, Inc. is an ISO 9001:2008 certified manufacturer, provider and service center for products and solutions focused around assembly. Since the 1970s, we have developed a first-class reputation unrivaled in the industry offering a wide range of world class products through our various world wide locations.

We offer a wide selection of products including: electric, pneumatic and manual torque control screwdrivers; torque and angle control precision fastening systems; automatic screw feeders and screw presenters; torque testers and calibration services; custom designed automation equipment as well as a full line of accessories.

ASG also offers a selection of value-added products and solutions including engineering and consulting services, financing, and extended protection and maintenance plans.



Industry Commitment

ASG is committed to the highest quality standards, ensuring that all processes and procedures are followed to produce the best products for our customers. We maintain ISO 9001:2008 certification for the manufacture, distribution, and service of assembly tools. Maintaining membership in key industry organizations in order to stay abreast of the most current industry trends and information is vital to serving our customers.



Assembly Product Group

Reliable Performance



ASG Assembly features a wide range of products and solutions for general assembly. Featured in this product group: HIOS premium brand electric torque control screwdrivers and accessories, ASG brand value engineered torque control screwdrivers and accessories, coordinating accessories, and general assembly workstation aides. With unsurpassed error-proofing, high reliability, durability and repeatability, ASG Assembly products ensure long life and ease of use.

Industrial Product Group

Durable Performance



ASG Industrial features a wide range of products and solutions for higher torque and heavier assembly applications. With commanding pneumatic power and manual torque control, ASG Industrial products are designed for durable performance in tough working environments requiring high duty cycles. From under 1 N.m up to 2,000 N.m of controlled torque output, ASG offers wide choices of powered and manual assembly products.



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Section 1: Digital Wrenches and Screwdrivers

Premium Digital Wrenches



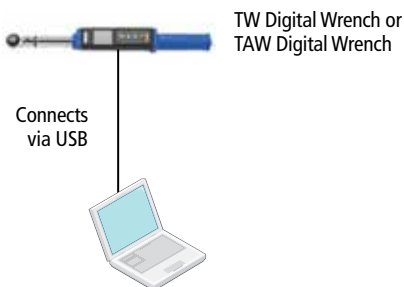
TW Series Digital Torque Wrenches

TW Series Digital Torque Wrenches hold up in tough environments. Features a robust bi-directional ratchet head and ergonomic soft grip non-slip handle to ensure user comfort. TW-W Series Digital Torque Wrenches and TAW-W Series Digital Torque and Angle Wrenches are equipped with wireless technology capability and feature a user-friendly, multiple mode menu-driven platform with date, track, peak, set, recall, upload, languages and communications menu functions.

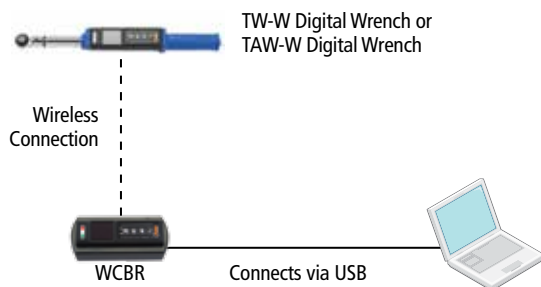
- Unit of Measurement: cN.m, N.m, kgf.cm, kgf.m, ozf.in, lbf.in, lbf.ft
- 99 programmable pre-sets with 2,000+ onboard measurement memory
- Calibration by date or number of cycles
- PC software (Windows Excel, SPC output)
- PLC communications with ASCII or binary (option)
- High visibility, full color, organic LED display screen with color indicator LED lights and audible alarm
- Operates and reads clockwise and counter-clockwise
- Displays in multiple languages
- Viewing angle of 170 degrees
- Torque accuracy $\pm 1\%$ of actual reading from 10% to 100% of full scale
- Wireless models available
- Factory calibration certificate included
- AA battery operation with up to 180 hours of battery life
Note: Battery life reduces to a minimum of 40 hours of continuous use when optional wireless transmission and angle modes are in operation

Digital Wrench Data Configuration

TW/TAW Digital Wrench Direct Plug-In Configuration



TW-W/TAW-W Wireless Configuration



Digital Wrenches and Screwdrivers

Premium Digital Wrenches

| Model Number | ASG Number | Drive Size | Torque | | Length | | | | Weight | | Teeth |
|--------------------------------------|------------|-------------|--------------|------------|--------|-----|-----|-----|--------|------|-------|
| | | | lbfft | N.m | in. | mm | ft. | m | lb. | kg | |
| Torque Only Models (TW) | | | | | | | | | | | |
| TW010 | 65209 | 3/8" Square | 0.7 - 7.4 | 1 - 10 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TW020 | 65210 | 3/8" Square | 1.5 - 14.8 | 2 - 20 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TW050 | 65211 | 3/8" Square | 3.7 - 37 | 5 - 50 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TW100 | 65212 | 3/8" Square | 7.4 - 74 | 10 - 100 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TW135 | 65213 | 1/2" Square | 10 - 100 | 13.5 - 135 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TW150 | 65214 | 1/2" Square | 11 - 110 | 15 - 150 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TW200 | 65216 | 1/2" Square | 14.8 - 148 | 20 - 200 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TW250 | 65220 | 1/2" Square | 18.5 - 185 | 25 - 250 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TW300 | 65221 | 1/2" Square | 22.1 - 221 | 30 - 300 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TW400 | 65222 | 1/2" Square | 29.5 - 295 | 40 - 400 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TW500 | 65223 | 3/4" Square | 36.9 - 369 | 50 - 500 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TW600 | 65224 | 3/4" Square | 44.3 - 443 | 60 - 600 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TW800 | 65227 | 3/4" Square | 59 - 590 | 80 - 800 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TW1000 | 65228 | 3/4" Square | 73.9 - 739 | 100 - 1000 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TW1500 | 65229 | 1" Square | 110.7 - 1107 | 150 - 1500 | | | 5.2 | 1.6 | 12.1 | 5.5 | 45 |
| TW2000 | 65231 | 1" Square | 147.6 - 1476 | 200 - 2000 | | | 5.2 | 1.6 | 12.1 | 5.5 | 45 |
| Torque and Angle Models (TAW) | | | | | | | | | | | |
| TAW010 | 65257 | 3/8" Square | 0.7 - 7.4 | 1 - 10 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TAW020 | 65191 | 3/8" Square | 1.5 - 14.8 | 2 - 20 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TAW050 | 65258 | 3/8" Square | 3.7 - 37 | 5 - 50 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TAW100 | 65192 | 3/8" Square | 7.4 - 74 | 10 - 100 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TAW135 | 65259 | 1/2" Square | 10 - 100 | 13.5 - 135 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TAW150 | 65260 | 1/2" Square | 11 - 110 | 15 - 150 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TAW200 | 65261 | 1/2" Square | 14.8 - 148 | 20 - 200 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TAW250 | 65262 | 1/2" Square | 18.5 - 185 | 25 - 250 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TAW300 | 65193 | 1/2" Square | 22.1 - 221 | 30 - 300 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TAW400 | 65263 | 1/2" Square | 29.5 - 295 | 40 - 400 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TAW500 | 65264 | 3/4" Square | 36.9 - 369 | 50 - 500 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TAW600 | 65208 | 3/4" Square | 44.3 - 443 | 60 - 600 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TAW800 | 65266 | 3/4" Square | 59 - 590 | 80 - 800 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TAW1000 | 65194 | 3/4" Square | 73.9 - 739 | 100 - 1000 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TAW1500 | 65267 | 1" Square | 110.7 - 1107 | 150 - 1500 | | | 5.2 | 1.6 | 12.1 | 5.5 | 45 |
| TAW2000 | 65268 | 1" Square | 147.6 - 1476 | 200 - 2000 | | | 5.2 | 1.6 | 12.1 | 5.5 | 45 |

Digital Wrenches and Screwdrivers

Premium Digital Wireless Wrenches

| Model Number | ASG Number | Drive Size | Torque | | Length | | | | Weight | | Teeth |
|--------------------------------------|------------|-------------|--------------|------------|--------|-----|-----|-----|--------|------|-------|
| | | | lbf.ft | N.m | in. | mm | ft. | m | lb. | kg | |
| Torque Only Models (TW) | | | | | | | | | | | |
| TW010-W | 65233 | 3/8" Square | 0.7 - 7.4 | 1 - 10 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TW020-W | 65234 | 3/8" Square | 1.5 - 14.8 | 2 - 20 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TW050-W | 65237 | 3/8" Square | 3.7 - 37 | 5 - 50 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TW100-W | 65239 | 3/8" Square | 7.4 - 74 | 10 - 100 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TW135-W | 65245 | 1/2" Square | 10 - 100 | 13.5 - 135 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TW150-W | 65246 | 1/2" Square | 11 - 110 | 15 - 150 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TW200-W | 65247 | 1/2" Square | 14.8 - 148 | 20 - 200 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TW250-W | 65248 | 1/2" Square | 18.5 - 185 | 25 - 250 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TW300-W | 65249 | 1/2" Square | 22.1 - 221 | 30 - 300 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TW400-W | 65250 | 1/2" Square | 29.5 to 295 | 40 - 400 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TW500-W | 65251 | 3/4" Square | 36.9 - 369 | 50 - 500 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TW600-W | 65252 | 3/4" Square | 44.3 - 443 | 60 - 600 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TW800-W | 65253 | 3/4" Square | 59 - 590 | 80 - 800 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TW1000-W | 65254 | 3/4" Square | 73.9 - 739 | 100 - 1000 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TW1500-W | 65255 | 1" Square | 110.7 - 1107 | 150 - 1500 | | | 5.2 | 1.6 | 12.1 | 5.5 | 45 |
| TW2000-W | 65256 | 1" Square | 147.6 - 1476 | 200 - 2000 | | | 5.2 | 1.6 | 12.1 | 5.5 | 45 |
| Torque and Angle Models (TAW) | | | | | | | | | | | |
| TAW010-W | 65269 | 3/8" Square | 0.7 - 7.4 | 1 - 10 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TAW020-W | 65270 | 3/8" Square | 1.5 - 14.8 | 2 - 20 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TAW050-W | 65199 | 3/8" Square | 3.7 - 37 | 5 - 50 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TAW100-W | 65195 | 3/8" Square | 7.4 - 74 | 10 - 100 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TAW135-W | 65272 | 1/2" Square | 10 - 100 | 13.5 - 135 | 16.1 | 410 | | | 1.9 | 0.85 | 45 |
| TAW150-W | 65273 | 1/2" Square | 11 - 110 | 15 - 150 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TAW200-W | 65274 | 1/2" Square | 14.8 - 148 | 20 - 200 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TAW250-W | 65275 | 1/2" Square | 18.5 - 185 | 25 - 250 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TAW300-W | 65276 | 1/2" Square | 22.1 - 221 | 30 - 300 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TAW400-W | 65277 | 1/2" Square | 29.5 - 295 | 40 - 400 | 24.6 | 625 | | | 2.9 | 1.3 | 45 |
| TAW500-W | 65196 | 3/4" Square | 36.9 - 369 | 50 - 500 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TAW600-W | 65278 | 3/4" Square | 44.3 - 443 | 60 - 600 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TAW800-W | 65279 | 3/4" Square | 59 - 590 | 80 - 800 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TAW1000-W | 65281 | 3/4" Square | 73.9 - 739 | 100 - 1000 | | | 3.9 | 1.2 | 8.8 | 4 | 45 |
| TAW1500-W | 65282 | 1" Square | 110.7 - 1107 | 150 - 1500 | | | 5.2 | 1.6 | 12.1 | 5.5 | 45 |
| TAW2000-W | 65283 | 1" Square | 147.6 - 1476 | 200 - 2000 | | | 5.2 | 1.6 | 12.1 | 5.5 | 45 |

Digital Wrenches and Screwdrivers

Premium Digital Graphing Wrenches

TW Series Digital Graphing Torque Wrenches



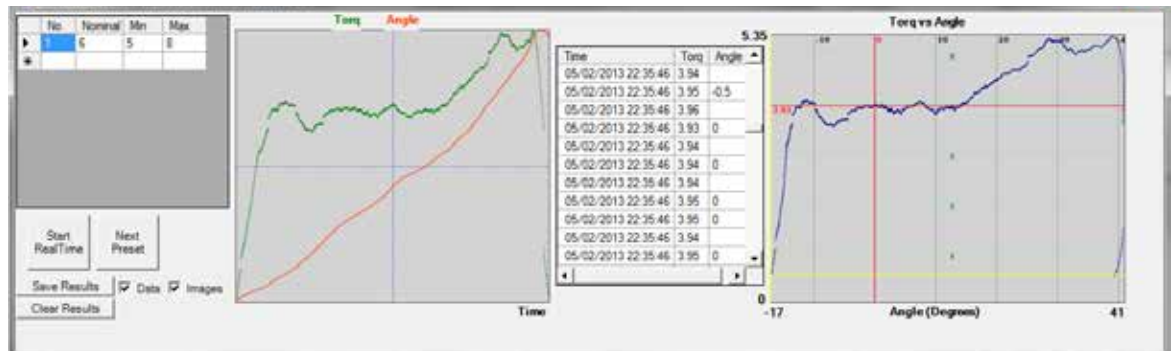
TW Series Digital Graphing Torque Wrenches hold up in almost any environment. Features a robust bi-directional ratchet head and ergonomic soft grip non-slip handle to ensure user comfort. User-friendly menu and display offers choices of torque units and languages.

- Real time graphing of Torque vs. Angle and Torque and Angle vs. Time
- Graphing software allows analysis of residual torque, yield point and breakaway torque
- Torque accuracy $\pm 1\%$ of actual reading from 10-100% of full scale; Angle accuracy $\pm 1^\circ$ of angle reading
- Factory calibration certificate included
- AA battery operation

| Model Number | ASG Number | Drive Size | Torque | | Length | | Weight | | Teeth |
|--------------|------------|-------------|------------|------------|--------|-----|--------|------|-------|
| | | | lbf.ft | N.m | in. | mm | lb. | kg | |
| TAW010-RT | 65341 | 3/8" Square | 0.7 - 7.4 | 1 - 10 | 16.1 | 410 | 1.9 | 0.85 | 45 |
| TAW020-RT | 65342 | 3/8" Square | 1.5 - 14.8 | 2 - 20 | 16.1 | 410 | 1.9 | 0.85 | 45 |
| TAW050-RT | 65343 | 3/8" Square | 3.7 - 37 | 5 - 50 | 16.1 | 410 | 1.9 | 0.85 | 45 |
| TAW100-RT | 65344 | 3/8" Square | 7.4 - 74 | 10 - 100 | 16.1 | 410 | 1.9 | 0.85 | 45 |
| TAW135-RT | 65345 | 1/2" Square | 10 - 100 | 13.5 - 135 | 16.1 | 410 | 1.9 | 0.85 | 45 |
| TAW150-RT | 65346 | 1/2" Square | 11 - 110 | 15 - 150 | 24.6 | 625 | 2.9 | 1.3 | 45 |
| TAW200-RT | 65347 | 1/2" Square | 14.8 - 148 | 20 - 200 | 24.6 | 625 | 2.9 | 1.3 | 45 |
| TAW250-RT | 65348 | 1/2" Square | 18.5 - 185 | 25 - 250 | 24.6 | 625 | 2.9 | 1.3 | 45 |
| TAW300-RT | 65349 | 1/2" Square | 22.1 - 221 | 30 - 300 | 24.6 | 625 | 2.9 | 1.3 | 45 |
| TAW400-RT | 65350 | 1/2" Square | 29.5 - 295 | 40 - 400 | 24.6 | 625 | 2.9 | 1.3 | 45 |

Data Log

Data log collects and displays 500 torque samples per second and 200 angle samples per second.



Digital Wrenches and Screwdrivers

Standard Digital Wrenches

W Series Mini Digital Torque Wrenches



- Unit of Measurement: cN.m, kgf.cm, lbf.in, lbf.ft
- 5 control buttons
- Lever type ratchet
- Factory calibration certificate included
- AAA battery operation

| Model Number | ASG Number | Drive Size | Torque | |
|--------------|------------|-------------|-------------|------------|
| | | | lbf.in | N.m |
| ASG-W53 | 65118 | 1/4" Square | 2.65 - 53.1 | 0.3 - 6.0 |
| ASG-W177 | 65119 | 1/4" Square | 8.8 - 177 | 1.0 - 20.0 |

DT Series Digital Torque Wrenches



- Unit of Measurement: kgf.cm, N.m, lbf.in, lbf.ft
- Functions: torque, unit and mode settings
- Lever type ratchet
- Data storage, clear, output and on-line calibration
- Audible beep and visible LED display with red/green indicator lights
- Operates and reads clockwise and counter-clockwise
- Memory 250 data points
- Factory calibration certificate included
- AA battery operation

| Model Number | ASG Number | Drive Size | Torque | |
|--------------|------------|-------------|--------------|--------------|
| | | | lbf.ft | N.m |
| DT2-030AR | DT2-030AR | 1/4" Square | 1.1 - 22.1 | 1.5 - 30.0 |
| DT4-200AR | DT4-200AR | 1/2" Square | 7.4 - 147.8 | 10.0 - 200.0 |
| DT4-340AR | DT4-340AR | 1/2" Square | 12.5 - 250.9 | 17.0 - 340.0 |

Digital Wrenches and Screwdrivers

Standard Digital Screwdrivers



D-Series Mini Digital Screwdrivers

- Unit of Measurement: lbf.in, kgf.cm, N.m
- Auto-lock bit holder
- Torque accuracy $\pm 2.5\%$ clockwise direction
- 7.99 in. length, 22.2 oz weight
- Factory calibration certificate included
- AAA battery operation

| Model Number | ASG Number | Drive Size | Torque | |
|--------------|------------|------------|-------------|------------|
| | | | lbf.in | N.m |
| ASG-D4 | 65115 | 1/4" Hex | 0.44 - 4.4 | 0.05 - 0.5 |
| ASG-D17 | 65116 | 1/4" Hex | 0.88 - 17.7 | 0.1 - 2.0 |
| ASG-D35 | 65117 | 1/4" Hex | 1.77 - 35.4 | 0.2 - 4.0 |



Section 2: Manual Torque Wrenches

Premium Wrenches

Adjustable Click Wrenches



- Large selection of interchangeable heads and fixed ratchets available
Note: Please see Section 5 on page 20 for additional information
- Top quality and durability
- Torque accuracy $\pm 3\%$
- NFC tag with model, serial and calibration information included
- Include imperial and metric scales
- Factory calibration certificate included
- Calibration services available (Contact ASG)

| Model Number | ASG Number | Drive Size | Torque | | Head Type | Teeth |
|--------------|------------|-------------|----------------|-----------|-----------------|-------|
| | | | lb.ft | N.m | | |
| MACI-005 | 65479 | 9 x 12 | 0.74 - 3.7 | 1.0 - 5.0 | Interchangeable | |
| MACI-012 | 65464 | 9 x 12 | 1.85 - 8.85 | 2.5 - 12 | Interchangeable | |
| MACI-030 | 65480 | 9 x 12 | 4.4 - 22.1 | 6.0 - 30 | Interchangeable | |
| MACI-060 | 65465 | 9 x 12 | 7.38 - 44.25 | 10 - 60 | Interchangeable | |
| MACI-125 | 65466 | 9 x 12 | 18.44 - 92.20 | 25 - 125 | Interchangeable | |
| MACI-200 | 65467 | 14 x 18 | 29.5 - 147.51 | 40 - 200 | Interchangeable | |
| MACI-335 | 65468 | 14 x 18 | 47.94 - 247.08 | 65 - 335 | Interchangeable | |
| MACR-005 | 65481 | 1/4" Square | 0.74 - 3.7 | 1.0 - 5.0 | Fixed Ratchet | 45 |
| MACR-012 | 65469 | 1/4" Square | 1.85 - 8.85 | 2.5 - 12 | Fixed Ratchet | 45 |
| MACR-030 | 65482 | 3/8" Square | 4.4 - 22.1 | 6.0 - 30 | Fixed Ratchet | 45 |
| MACR-060 | 65470 | 3/8" Square | 7.38 - 44.25 | 10 - 60 | Fixed Ratchet | 45 |
| MACR-125 | 65471 | 3/8" Square | 18.44 - 92.20 | 25 - 125 | Fixed Ratchet | 45 |
| MACR-200 | 65472 | 1/2" Square | 29.5 - 147.51 | 40 - 200 | Fixed Ratchet | 45 |
| MACR-335 | 65473 | 1/2" Square | 47.94 - 247.08 | 65 - 335 | Fixed Ratchet | 45 |

Manual Torque Wrenches

Premium Wrenches



Pre-Set Click Wrenches

- Large selection of interchangeable heads and fixed ratchets available
Note: Please see Section 5 on page 20 for additional information
- Top quality and durability
- Torque accuracy $\pm 3\%$
- Factory calibration certificate included
- Calibration services available (Contact ASG)

| Model Number | ASG Number | Drive Size | Torque | | Head Type | Teeth |
|--------------|------------|-------------|--------------|----------|-----------------|-------|
| | | | lb.ft | N.m | | |
| MPCI-012 | 65474 | 9 x 12 | 1.8 - 8.8 | 2.5 - 12 | Interchangeable | |
| MPCI-030 | 65475 | 9 x 12 | 4.4 - 22.1 | 6.0 - 30 | Interchangeable | |
| MPCI-125 | 65483 | 9 x 12 | 18.4 - 92.2 | 25 - 125 | Interchangeable | |
| MPCI-200 | 65484 | 14 x 18 | 29.5 - 147.5 | 40 - 200 | Interchangeable | |
| MPCI-335 | 65485 | 14 x 18 | 47.9 - 247.1 | 65 - 335 | Interchangeable | |
| MPCR-012 | 65476 | 1/4" Square | 1.8 - 8.8 | 2.5 - 12 | Fixed Ratchet | 45 |
| MPCR-030 | 65477 | 3/8" Square | 4.4 - 22.1 | 6.0 - 30 | Fixed Ratchet | 45 |
| MPCR-125 | 65486 | 3/8" Square | 18.4 - 92.2 | 25 - 125 | Fixed Ratchet | 45 |
| MPCR-200 | 65487 | 1/2" Square | 29.5 - 147.5 | 40 - 200 | Fixed Ratchet | 45 |
| MPCR-335 | 65488 | 1/2" Square | 47.9 - 247.1 | 65 - 335 | Fixed Ratchet | 45 |

Adapter

9x12 Wrench Adapter

Adapter works with both Premium and Standard Wrenches. Fits 9x12 interchangeable models.



ASG Number 65478

Manual Torque Wrenches

Standard Wrenches

Adjustable ST Series Click Wrenches



- Large selection of interchangeable heads and fixed ratchets available
Note: Please see Section 5 on page 20 for additional information
- Quality meets DIN ISO 6789 and ASME B107.300-2010
- Metal handles
- Industrial application
- Torque accuracy $\pm 3\%$
- Factory calibration certificate included

| Model Number | ASG Number | Drive Size | Torque | | Head Type | Teeth |
|--------------|------------|-------------|------------------|------------|-----------------|-------|
| | | | lb.ft | N.m | | |
| MACI-006-ST | 65365 | 9 x 12 | 0.73 - 4.42 | 1 - 6 | Interchangeable | |
| MACI-015-ST | 65366 | 9 x 12 | 2.21 - 11.06 | 3 - 15 | Interchangeable | |
| MACI-025-ST | 65367 | 9 x 12 | 3.69 - 18.44 | 5 - 25 | Interchangeable | |
| MACI-060-ST | 65368 | 9 x 12 | 7.38 - 44.25 | 10 - 60 | Interchangeable | |
| MACI-100-ST | 65369 | 9 x 12 | 14.75 - 73.56 | 20 - 100 | Interchangeable | |
| MACI-200-ST | 65370 | 14 x 18 | 29.5 - 147.51 | 40 - 200 | Interchangeable | |
| MACI-340-ST | 65371 | 14 x 18 | 44.25 - 250.77 | 60 - 340 | Interchangeable | |
| MACI-420-ST | 65372 | 14 x 18 | 44.25 - 309.78 | 60 - 420 | Interchangeable | |
| MACR-006-ST | 65373 | 1/4" Square | 0.73 - 4.42 | 1 - 6 | Fixed Ratchet | 64 |
| MACR-015-ST | 65374 | 1/4" Square | 2.21 - 11.06 | 3 - 15 | Fixed Ratchet | 64 |
| MACR-025-ST | 65375 | 3/8" Square | 2.21 - 18.44 | 3 - 25 | Fixed Ratchet | 64 |
| MACR-060-ST | 65376 | 3/8" Square | 7.38 - 44.25 | 10 - 60 | Fixed Ratchet | 32 |
| MACR-100-ST | 65377 | 3/8" Square | 29.5 - 147.51 | 20 - 100 | Fixed Ratchet | 32 |
| MACR-340-ST | 65378 | 1/2" Square | 44.25 - 250.77 | 60 - 340 | Fixed Ratchet | 32 |
| MACR-1000-ST | 65379 | 3/4" Square | 147.51 - 737.56 | 200 - 1000 | Fixed Ratchet | 24 |
| MACR-1500-ST | 65380 | 1" Square | 221.27 - 1106.34 | 300 - 1500 | Fixed Ratchet | 24 |

Manual Torque Wrenches

Standard Wrenches

Pre-Set ST Series Click Wrenches



- Large selection of interchangeable heads and fixed ratchets available
Note: Please see Section 5 on page 20 for additional information
- Quality meets DIN ISO 6789 and ASME B107.300-2010
- Industrial application
- Torque accuracy $\pm 3\%$
- Factory calibration certificate included

| Model Number | ASG Number | Drive Size | Torque | | Head Type | Teeth |
|--------------|------------|-------------|-----------------|------------|-----------------|-------|
| | | | lb.ft | N.m | | |
| MPCI-010-ST | 65381 | 9 x 12 | 1.47 - 7.38 | 2.0 - 10 | Interchangeable | |
| MPCI-020-ST | 65382 | 9 x 12 | 2.95 - 14.75 | 4.0 - 20 | Interchangeable | |
| MPCI-060-ST | 65383 | 9 x 12 | 7.38 - 44.25 | 10 - 60 | Interchangeable | |
| MPCI-100-ST | 65384 | 14 x 18 | 14.75 - 73.76 | 20 - 100 | Interchangeable | |
| MPCI-200-ST | 65385 | 14 x 18 | 29.5 - 147.51 | 40 - 200 | Interchangeable | |
| MPCI-340-ST | 65386 | 14 x 18 | 44.25 - 250.77 | 60 - 340 | Interchangeable | |
| MPCI-600-ST | 65387 | 14 x 18 | 73.75 - 442.54 | 100 - 600 | Interchangeable | |
| MPCI-1000-ST | 65388 | 14 x 18 | 147.51 - 737.56 | 200 - 1000 | Interchangeable | |
| MPCR-010-ST | 65389 | 1/4" Square | 1.47 - 7.38 | 2.0 - 10 | Fixed Ratchet | 24 |
| MPCR-020-ST | 65390 | 1/4" Square | 2.95 - 14.75 | 4.0 - 20 | Fixed Ratchet | 24 |
| MPCR-060-ST | 65391 | 3/8" Square | 7.38 - 44.25 | 10 - 60 | Fixed Ratchet | 24 |
| MPCR-100-ST | 65392 | 3/8" Square | 14.75 - 73.76 | 20 - 100 | Fixed Ratchet | 32 |
| MPCR-200-ST | 65393 | 1/2" Square | 29.5 - 147.51 | 40 - 200 | Fixed Ratchet | 32 |
| MPCR-340-ST | 65394 | 1/2" Square | 44.25 - 250.77 | 60 - 340 | Fixed Ratchet | 32 |
| MPCR-600-ST | 65395 | 3/4" Square | 73.75 - 442.54 | 100 - 600 | Fixed Ratchet | 24 |
| MPCR-1000-ST | 65396 | 3/4" Square | 147.51 - 737.56 | 200 - 1000 | Fixed Ratchet | 24 |

Adapter

9x12 Wrench Adapter

Adapter works with both Premium and Standard Wrenches. Fits 9x12 interchangeable models.



ASG Number 65478

Section 3: Manual Torque Screwdrivers

Premium Screwdrivers



Adjustable Manual Screwdrivers

- Quality meets DIN ISO 6789 and ASME B107.14M-2004
- Available with metric or SAE torque scales
- Torque limiting feature
- Torque accuracy $\pm 6\%$
- Available with ergonomic aluminum metal handle or cushion grip handle
- Factory calibration certificate included
- Manufactured in Cleveland, Ohio

| Model Number | Drive Size | Torque | | Length in. | Weight lb. | Scale Graduations | Handle Type |
|---------------|-------------|-----------|-----------|---------------|---------------|----------------------|--------------|
| | | lbf.in | N.m | | | | |
| AS-040IN-H | 1/4" Hex | 0.5 - 4.0 | | 7.1 | 0.5 | 0.05 | Metal |
| AS-150IN-H | 1/4" Hex | 3 - 15 | | 7.1 | 0.5 | 0.1 | Metal |
| AS-900IN-S | 1/4" Square | 10 - 90 | | 7.9 | 0.66 | 1.0 | Metal |
| AS-012NM-H | 1/4" Hex | | 0.1 - 1.2 | 5.2 | 0.4 | 0.01 | Metal |
| AS-060NM-H | 1/4" Hex | | 1 - 6 | 5.2 | 0.4 | 0.05 | Metal |
| AS-100NM-S | 1/4" Square | | 5 - 10 | 7.9 | 0.98 | 0.1 | Metal |
| AS-040IN-H-CG | 1/4" Hex | 0.5 - 4.0 | | 7.1 | 0.5 | 0.05 | Cushion Grip |
| AS-150IN-H-CG | 1/4" Hex | 3 - 15 | | 7.1 | 0.5 | 0.1 | Cushion Grip |
| AS-900IN-S-CG | 1/4" Square | 10 - 90 | | 7.9 | 0.66 | 1.0 | Cushion Grip |
| AS-012NM-H-CG | 1/4" Hex | | 0.1 - 1.2 | 7.1 | 0.5 | 0.01 | Cushion Grip |
| AS-060NM-H-CG | 1/4" Hex | | 1 - 6 | 7.9 | 0.66 | 0.05 | Cushion Grip |
| AS-100NM-S-CG | 1/4" Square | | 5 - 10 | 7.9 | 0.66 | 0.1 | Cushion Grip |



Manual Torque Screwdrivers

Premium Screwdrivers

Pre-Set Manual Screwdrivers



- Quality meets DIN ISO 6789 and ASME B107.14M-2004
- Torque limiting feature
- Torque accuracy $\pm 5\%$
- Available with ergonomic aluminum metal handle or cushion grip handle
- Factory calibration certificate included
- Calibration Pre-Set services available (Contact ASG)
- Manufactured in Cleveland, Ohio

| Model Number | Drive Size | Torque | | Length in. | Weight lb. | Handle Type |
|---------------|-------------|-------------|-----------|---------------|---------------|--------------|
| | | lbf.in | N.m | | | |
| PS-012NM-H | 1/4" Hex | 1.77 - 10.6 | 0.2 - 1.2 | 5.2 | 0.4 | Metal |
| PS-018NM-H | 1/4" Hex | 8.85 - 15.9 | 1 - 1.8 | 5.2 | 0.4 | Metal |
| PS-060NM-S | 1/4" Square | 8.85 - 53.1 | 1 - 6 | 7.9 | 0.98 | Metal |
| PS-012NM-H-CG | 1/4" Hex | 1.77 - 10.6 | 0.2 - 1.2 | 5.2 | 0.4 | Cushion Grip |
| PS-018NM-H-CG | 1/4" Hex | 8.85 - 15.9 | 1 - 1.8 | 5.2 | 0.4 | Cushion Grip |
| PS-060NM-S-CG | 1/4" Square | 8.85 - 53.1 | 1 - 6 | 7.9 | 0.98 | Cushion Grip |

Optional Accessory

Torque Lever

1/4" Sliding Rod for Premium Pre-Set
Screwdrivers



ASG Number 751004

Manual Torque Screwdrivers

Standard Screwdrivers

A Series Adjustable Screwdrivers



- Manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 and ASME-B107.14-2004
- Automatically resets for next fastener when torque is reached
- Operator adjusts torque using the dial on the end of the tool
- Easy to read digital window scale
- Ideal for applications that require more than one torque value
- Torque accuracy $\pm 6\%$ clockwise direction

| Model Number | ASG Number | Drive Size | Torque | | Length in. | Weight oz | Width in. |
|--------------|------------|------------|--------------|------------|---------------|--------------|--------------|
| | | | ozf.in | lbf.in | | | |
| ASG-A6 | 65101 | 1/4" Hex | 20.0 - 100.0 | | 5.50 | 7 | 1.1 |
| ASG-A15 | 65102 | 1/4" Hex | | 3.0 - 15.0 | 6.3 | 8 | 1.1 |
| ASG-A40 | 65103 | 1/4" Hex | | 5.0 - 40.0 | 6.8 | 9.6 | 1.2 |

P Series Pre-Set Screwdrivers



- Manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 and ASME-B107.14-2004
- Tamper resistant design
- Torque accuracy $\pm 6\%$ clockwise direction
- Can be calibrated using ASG torque testers

| Model Number | ASG Number | Drive Size | Torque | | Length in. | Weight oz | Width in. |
|--------------|------------|------------|-------------|-------------|---------------|--------------|--------------|
| | | | lbf.in | N.m | | | |
| ASG-P2 | 65104 | 1/4" Hex | 0.37 - 2.0 | 0.04 - 0.23 | 4.5 | 5.5 | 1.1 |
| ASG-P6 | 65105 | 1/4" Hex | 0.62 - 6.25 | 0.07 - 0.7 | 5.6 | 7.4 | 1.1 |
| ASG-P15 | 65106 | 1/4" Hex | 1.5 - 15.0 | 0.17 - 1.7 | 5.6 | 7.4 | 1.1 |
| ASG-P40 | 65107 | 1/4" Hex | 4.0 - 40.0 | 0.45 - 4.52 | 6 | 9.6 | 1.2 |

| Section 4: Torque Testers

Smart Transducers



ST Series Smart Transducers

Smart Transducers for ST Digital Torque Testers feature plug and play technology for ultimate flexibility. A single Smart Control Module operates all 22 Smart Transducers one at a time, covering a torque range of 0.5 to 2000 N.m across the series.

- Direct Plug-In and Wireless Smart Control Modules available
- Direct Plug-In Smart Control Module (AA battery operated) connects to PC via mini USB cable for data download for export to PC/SPC programs for analysis
- One Wireless Smart Receiver (AA battery operated) monitors several Wireless Smart Control Modules (connect to PC for power source and data download) one at a time
- Simple, easy to use menu driven platform
- High visibility, organic LED screen with viewing angle of 170 degrees
- 7 user-selectable torque units for flexibility
- Modes available include: date, track, peak, peak 1/2, dynamic, set, recall, upload, languages and communications
- Stores 2000+ results with easy upload to PC or SPC programs
- Torque accuracy $\pm 0.5\%$ of actual reading from 10% to 100% of full scale
- Factory calibration certificate included
- AA battery operated units have a battery life of up to 180 hours maximum

Required Components

Customize your torque testing needs by purchasing only the transducer(s) you need with the control module of choice. ST Series Smart Transducers require the purchase of either **SCB Direct Plug-In Smart Control Module** or **SCBW Wireless Smart Control Module** and **WCBR Smart Receiver**. Please see page 18 for additional information.

Torque Testers Smart Transducers



SCB Direct Plug-In Smart Control Module
ASG Number 65200



SCBW Direct Plug-In Smart Control Module
ASG Number 65201



WCBR Smart Receiver Box
ASG Number 65197

Control Modules

The ST Series Smart Transducers require the purchase of either:

- **SCB Direct Plug-In Smart Control Module Configuration**
 - Direct Plug-In Smart Control Module (ASG Number 65200) connects to PC via mini USB cable for data download (AA battery operated)
 - Smart Transducer(s) as needed for torque range

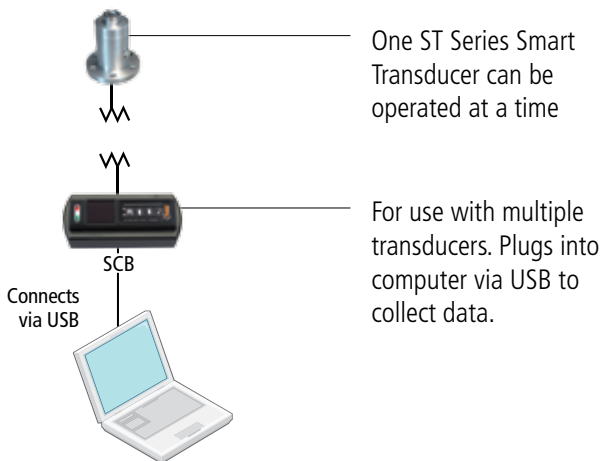
— OR —

- **SCBW Wireless Smart Control Module and WCBR Smart Receiver Wireless Configuration**
 - Wireless Smart Control Module (ASG Number 65201)
 - One per torque testing station
 - AA battery operated
 - Wireless Smart Receiver (ASG Number 65197) collects data from one/several Wireless Smart Control Modules and connects to PC via mini USB cable (PC is power source)
 - ST Series Smart Transducer(s) as needed for torque range

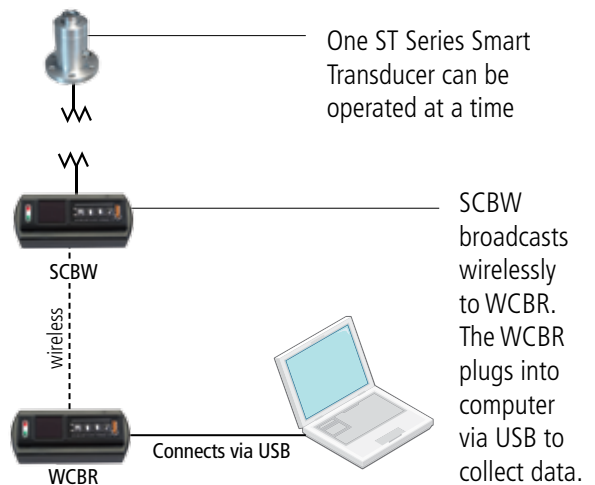
A single Smart Control Module operates all 22 Smart Transducers individually. Purchase as many Smart Transducers as required for use with one Smart Control Module (Direct Plug-In or Wireless). Contact ASG to discuss requirements for testing power tools.

Smart Control Module Configuration

SCB Direct Plug-In Smart Control Module Configuration



SCBW Wireless Smart Control Module and WCBR Smart Receiver Wireless Configuration



Torque Testers Smart Transducers

| Model Number | ASG Number | Drive Size | Torque | | | |
|--------------|------------|-------------|--------------|----------|---------------|------------|
| | | | lbf.in | cN.m | lbf.ft | N.m |
| ST0.5 | 65284 | 1/4" Square | 0.44 - 4.42 | 5 - 50 | | |
| ST1.5 | 65285 | 1/4" Square | 1.32 - 13.27 | 15 - 150 | | |
| ST002 | 65202 | 1/4" Square | 1.77 - 17.7 | 20 - 200 | | |
| ST3.5 | 65286 | 1/4" Square | 3.09 - 30.97 | 35 - 350 | | |
| ST005 | 65203 | 1/4" Square | 4.42 - 44.25 | 50 - 500 | | |
| ST010 | 65287 | 1/4" Square | | | 0.73 - 7.38 | 1 - 10 |
| ST015 | 65288 | 1/4" Square | | | 1.1 - 11.07 | 1.5 - 15 |
| ST020 | 65204 | 1/4" Square | | | 1.47 - 14.76 | 2 - 20 |
| ST050 | 65265 | 3/8" Square | | | 3.69 - 36.9 | 5 - 50 |
| ST100 | 65289 | 3/8" Square | | | 7.38 - 73.8 | 10 - 100 |
| ST135 | 65290 | 3/8" Square | | | 9.96 - 99.63 | 13.5 - 135 |
| ST150 | 65291 | 1/2" Square | | | 11.07 - 110.7 | 15 - 150 |
| ST200 | 65292 | 1/2" Square | | | 14.76 - 147.6 | 20 - 200 |
| ST250 | 65206 | 1/2" Square | | | 18.45 - 184.5 | 25 - 250 |
| ST300 | 65293 | 1/2" Square | | | 22.14 - 221.4 | 30 - 300 |
| ST400 | 65207 | 1/2" Square | | | 29.52 - 295.2 | 40 - 400 |
| ST500 | 65294 | 3/4" Square | | | 36.9 - 369 | 50 - 500 |
| ST600 | 65295 | 3/4" Square | | | 44.28 - 442.8 | 60 - 600 |
| ST800 | 65296 | 3/4" Square | | | 59.04 - 590.4 | 80 - 800 |
| ST1000 | 65297 | 1" Square | | | 73.8 - 738 | 100 - 1000 |
| ST1500 | 65298 | 1" Square | | | 110.7 - 1107 | 150 - 1200 |
| ST2000 | 65299 | 1" Square | | | 147.6 - 1476 | 200 - 2000 |

Rundown Fixtures

Rundown fixtures are configured to simulate a medium joint at the maximum rated torque; the belleville washers may need to be reoriented to produce different joint rates as desired.



| ASG Number | Torque | | Drive Size |
|------------|--------------|----------------|-------------|
| | ozf.in | lbf.in | |
| 65351 | 5.0 - 50.0 | | 1/4" Square |
| 65352 | 10.0 - 100.0 | | 1/4" Square |
| 65353 | 20.0 - 200.0 | | 1/4" Square |
| 65354 | | 1.0 - 10.0 | 1/4" Square |
| 65355 | | 2.5 - 25.0 | 1/4" Square |
| 65356 | | 5.0 - 50.0 | 1/4" Square |
| 65357 | | 10.0 - 100.0 | 1/4" Square |
| 65358 | | 15.0 - 150.0 | 1/4" Square |
| 65359 | | 25.0 - 250.0 | 3/8" Square |
| 65360 | | 50.0 - 500.0 | 3/8" Square |
| 65361 | | 75.0 - 750.0 | 3/8" Square |
| 65362 | | 100.0 - 1000.0 | 3/8" Square |

Section 5: Accessories

Manual Torque Wrench Accessories

Open Ring Interchangeable Heads



| ASG Number | Adapter Size | Insert Opening | Length | Weight | Calibration Length |
|------------|--------------|----------------|--------|--------|--------------------|
| | | | mm | g | mm |
| 67118 | 9 x 12 | 10 mm | 42.3 | 59 | 17.5 |
| 67119 | 9 x 12 | 11 mm | 42.8 | 52 | 17.5 |
| 67120 | 9 x 12 | 12 mm | 43.4 | 53 | 17.5 |
| 67121 | 9 x 12 | 13 mm | 43.7 | 53 | 17.5 |
| 67122 | 9 x 12 | 14 mm | 44.4 | 58 | 17.5 |
| 67123 | 9 x 12 | 16 mm | 45.4 | 59 | 17.5 |
| 67124 | 9 x 12 | 17 mm | 45.9 | 61 | 17.5 |
| 67125 | 9 x 12 | 18 mm | 46.1 | 67 | 17.5 |
| 67126 | 9 x 12 | 19 mm | 46.8 | 68 | 17.5 |
| 67127 | 9 x 12 | 21 mm | 48 | 72 | 17.5 |
| 67128 | 9 x 12 | 22 mm | 48.8 | 76 | 17.5 |
| 67129 | 14 x 18 | 24 mm | 66.8 | 143 | 24.5 |

Open Ended Interchangeable Heads



| ASG Number | Adapter Size | Insert Opening | Length | Weight | Calibration Length |
|------------|--------------|----------------|--------|--------|--------------------|
| | | | mm | g | mm |
| 67043 | 9 x 12 | 7 mm | 37.4 | 36.9 | 17.5 |
| 67044 | 9 x 12 | 8 mm | 37.85 | 37.6 | 17.5 |
| 67045 | 9 x 12 | 9 mm | 37.6 | 37.2 | 17.5 |
| 67046 | 9 x 12 | 10 mm | 40.1 | 41.5 | 17.5 |
| 67047 | 9 x 12 | 11 mm | 39 | 39.7 | 17.5 |
| 67048 | 9 x 12 | 12 mm | 39.65 | 40.7 | 17.5 |
| 67049 | 9 x 12 | 13 mm | 39.85 | 45.6 | 17.5 |
| 67050 | 9 x 12 | 14 mm | 43.05 | 54.9 | 20 |
| 67051 | 9 x 12 | 15 mm | 43.45 | 55.5 | 20 |
| 67052 | 9 x 12 | 16 mm | 43.82 | 57.9 | 20 |
| 67053 | 9 x 12 | 17 mm | 44 | 58 | 20 |
| 67054 | 9 x 12 | 18 mm | 43.95 | 59.7 | 20 |
| 67055 | 9 x 12 | 19 mm | 45.2 | 64 | 20 |
| 67056 | 9 x 12 | 21 mm | 52.4 | 118 | 25 |
| 67057 | 9 x 12 | 22 mm | 53.05 | 119 | 25 |
| 67058 | 9 x 12 | 24 mm | 54.1 | 121 | 25 |
| 67059 | 9 x 12 | 27 mm | 60.1 | 198 | 32.5 |
| 67060 | 9 x 12 | 30 mm | 60.9 | 200 | 32.5 |
| 67061 | 9 x 12 | 32 mm | 62.6 | 198 | 32.5 |
| 67062 | 9 x 12 | 36 mm | 64.75 | 199 | 32.5 |
| 67063 | 9 x 12 | 13 mm | 57.47 | 117.3 | 25 |

Accessories

Manual Torque Wrench Accessories

Open Ended Interchangeable Heads (Continued)



| ASG Number | Adapter Size | Insert Opening | Length | Weight | Calibration Length |
|------------|--------------|----------------|--------|--------|--------------------|
| | | | mm | g | mm |
| 67064 | 9 x 12 | 14 mm | 58.1 | 120 | 25 |
| 67065 | 9 x 12 | 15 mm | 57.52 | 116.4 | 25 |
| 67066 | 9 x 12 | 16 mm | 58.03 | 127.5 | 25 |
| 67067 | 9 x 12 | 17 mm | 59.75 | 138.2 | 25 |
| 67068 | 9 x 12 | 18 mm | 60.15 | 136.2 | 25 |
| 67069 | 9 x 12 | 19 mm | 60.85 | 140 | 25 |
| 67070 | 9 x 12 | 21 mm | 61.3 | 160.1 | 25 |
| 67071 | 9 x 12 | 22 mm | 61.1 | 162.9 | 25 |
| 67072 | 9 x 12 | 23 mm | 61.92 | 165.2 | 25 |
| 67073 | 9 x 12 | 24 mm | 63.2 | 168.6 | 25 |
| 67074 | 9 x 12 | 25 mm | 63.15 | 168.6 | 25 |
| 67075 | 9 x 12 | 26 mm | 69.2 | 168.6 | 30 |
| 67076 | 9 x 12 | 27 mm | 69.25 | 239.4 | 32.5 |
| 67077 | 9 x 12 | 30 mm | 70 | 249.5 | 32.5 |
| 67078 | 9 x 12 | 32 mm | 72.5 | 248.2 | 32.5 |
| 67079 | 9 x 12 | 34 mm | 74.45 | 252.5 | 32.5 |
| 67080 | 9 x 12 | 36 mm | 74.3 | 244.8 | 32.5 |
| 67081 | 9 x 12 | 38 mm | 73.2 | 229.8 | 32.5 |
| 67082 | 9 x 12 | 40 mm | 80.5 | 315.9 | 37 |
| 67083 | 9 x 12 | 41 mm | 80.25 | 315.9 | 37 |
| 67084 | 9x12 | 46 mm | 91.4 | 614.5 | 50 |
| 67085 | 9 x 12 | 48 mm | 97.18 | 763 | 50 |
| 67086 | 9 x 12 | 50 mm | 97.18 | 789 | 50 |
| 67087 | 9 x 12 | 70 mm | 136.3 | 1694.5 | 84.5 |
| 67000 | 9 x 12 | 1/4 in. | 37.6 | 36.9 | 17.5 |
| 67001 | 9 x 12 | 5/16 in. | 37.8 | 37.6 | 17.5 |
| 67002 | 9 x 12 | 3/8 in. | 40.2 | 41.5 | 17.5 |
| 67003 | 9 x 12 | 7/16 in. | 39.4 | 39.7 | 17.5 |
| 67004 | 9 x 12 | 1/2 in. | 40.05 | 45.6 | 17.5 |
| 67005 | 9 x 12 | 9/16 in. | 43.06 | 54.9 | 20 |
| 67006 | 9 x 12 | 5/8 in. | 43.85 | 57.9 | 20 |
| 67007 | 9 x 12 | 3/4 in. | 46.3 | 64 | 20 |
| 67008 | 14 x 18 | 1/2 in. | 56.5 | 117.3 | 25 |
| 67009 | 14 x 18 | 9/16 in. | 57 | 120 | 25 |
| 67010 | 14 x 18 | 5/8 in. | 58.43 | 125 | 25 |
| 67011 | 14 x 18 | 11/16 in. | 60.12 | 134 | 25 |
| 67012 | 14 x 18 | 3/4 in. | 60.17 | 138 | 25 |
| 67013 | 14 x 18 | 13/16 in. | 61.4 | 154 | 25 |
| 67014 | 14 x 18 | 7/8 in. | 32.11 | 160 | 25 |

Accessories

Manual Torque Wrench Accessories

Open Ended Interchangeable Heads (Continued)



| ASG Number | Adapter Size | Insert Opening | Length | Weight | Calibration Length |
|------------|--------------|----------------|--------|--------|--------------------|
| | | | mm | g | mm |
| 67015 | 14 x 18 | 15/16 in. | 63.53 | 165 | 26.5 |
| 67016 | 14 x 18 | 1 in. | 69.3 | 231 | 32.5 |
| 67017 | 14 x 18 | 1 1/8 in. | 70.85 | 242 | 32.5 |
| 67018 | 14 x 18 | 1 1/4 in. | 72.19 | 242 | 32.5 |
| 67019 | 14 x 18 | 1 7/8 in. | 97.18 | 763 | 50 |
| 67020 | 14 x 18 | 2 in. | 97.18 | 789 | 50 |

Ring Interchangeable Heads



| ASG Number | Adapter Size | Insert Opening | Length | Weight | Calibration Length |
|------------|--------------|----------------|--------|--------|--------------------|
| | | | mm | g | mm |
| 67088 | 9 x 12 | 7 mm | 40.38 | 37.4 | 17.5 |
| 67089 | 9 x 12 | 8 mm | 40.55 | 36.9 | 17.5 |
| 67090 | 9 x 12 | 10 mm | 42.55 | 39.4 | 17.5 |
| 67091 | 9 x 12 | 11 mm | 43.55 | 42 | 17.5 |
| 67092 | 9 x 12 | 12 mm | 43.97 | 51.1 | 17.5 |
| 67093 | 9 x 12 | 13 mm | 44.35 | 51.3 | 17.5 |
| 67094 | 9 x 12 | 14 mm | 45.38 | 52.9 | 17.5 |
| 67095 | 9 x 12 | 15 mm | 46.35 | 53.6 | 17.5 |
| 67096 | 9 x 12 | 16 mm | 46.96 | 56.2 | 17.5 |
| 67097 | 9 x 12 | 17 mm | 47.8 | 55.3 | 17.5 |
| 67098 | 9 x 12 | 18 mm | 48.22 | 60 | 17.5 |
| 67099 | 9 x 12 | 19 mm | 49.5 | 63.4 | 17.5 |
| 67100 | 9 x 12 | 21 mm | 50.21 | 68.2 | 17.5 |
| 67101 | 9 x 12 | 22 mm | 50 | 70.6 | 17.5 |
| 67102 | 14 x 18 | 13 mm | 60.3 | 129.6 | 25 |
| 67103 | 14 x 18 | 14 mm | 62.4 | 132.1 | 25 |
| 67104 | 14 x 18 | 15 mm | 62.53 | 132 | 25 |
| 67105 | 14 x 18 | 16 mm | 64.1 | 137 | 25 |
| 67106 | 14 x 18 | 17 mm | 63.84 | 141 | 25 |
| 67107 | 14 x 18 | 18 mm | 65.6 | 138.9 | 25 |
| 67108 | 14 x 18 | 19 mm | 66.1 | 144.6 | 25 |
| 67109 | 14 x 18 | 21 mm | 67.51 | 151.5 | 25 |
| 67110 | 14 x 18 | 22 mm | 68.45 | 156.6 | 25 |
| 67111 | 14 x 18 | 24 mm | 64.95 | 161.9 | 25 |
| 67112 | 14 x 18 | 27 mm | 77.2 | 204.9 | 31 |
| 67113 | 14 x 18 | 30 mm | 78.2 | 204.1 | 31 |

Accessories

Manual Torque Wrench Accessories

Ring Interchangeable Heads (Continued)

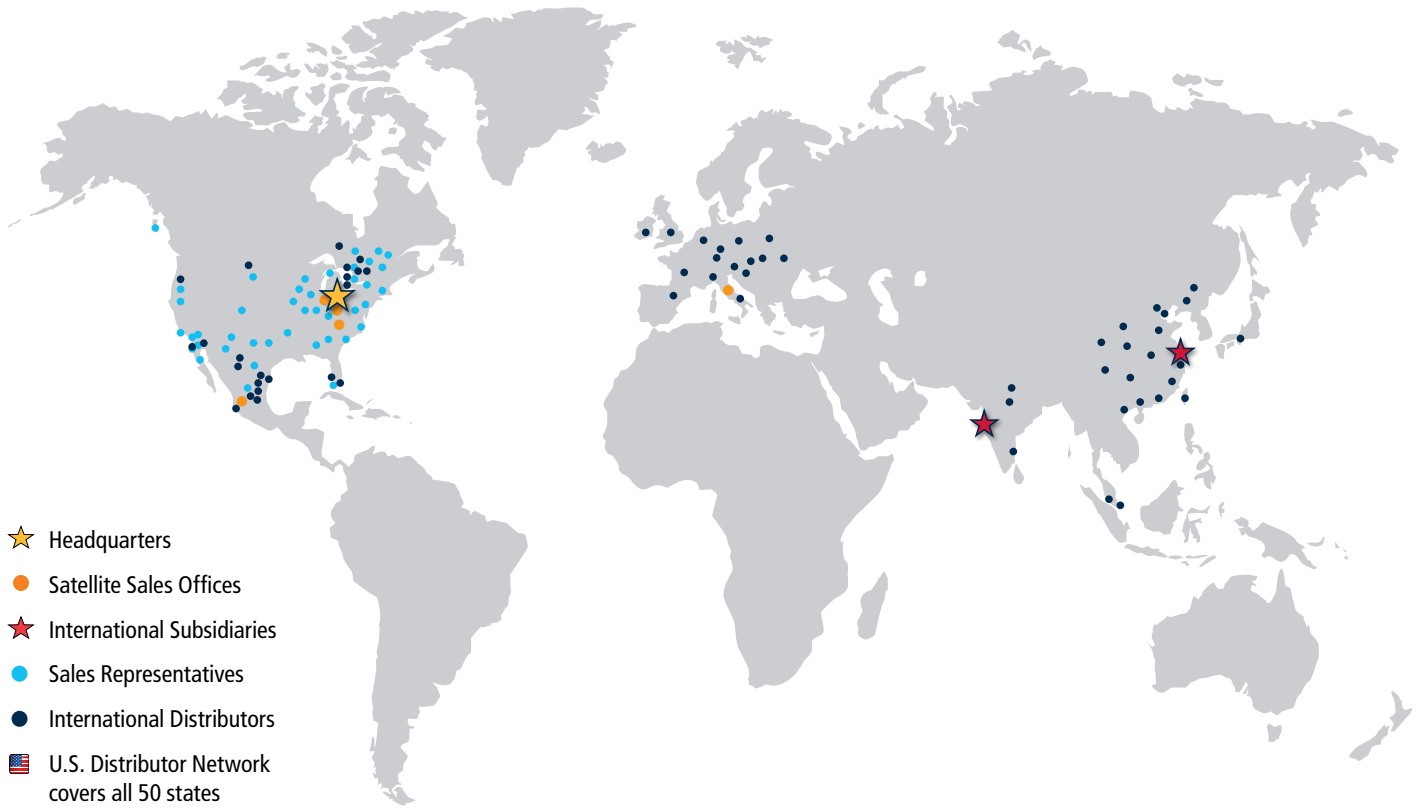


| ASG Number | Adapter Size | Insert Opening | Length | Weight | Calibration Length |
|------------|--------------|----------------|--------|--------|--------------------|
| | | | mm | g | mm |
| 67114 | 14 x 18 | 32 mm | 80.2 | 202.5 | 31 |
| 67115 | 14 x 18 | 34 mm | 82.18 | 225.5 | 31 |
| 67116 | 14 x 18 | 36 mm | 82.5 | 230 | 31 |
| 67117 | 14 x 18 | 41 mm | 85.1 | 235.2 | 31 |
| 67021 | 9 x 12 | 1/4 in. | 40 | 37.4 | 17.5 |
| 67022 | 9 x 12 | 5/16 in. | 40.6 | 36.9 | 17.5 |
| 67023 | 9 x 12 | 3/8 in. | 42.1 | 39.4 | 17.5 |
| 67024 | 9 x 12 | 7/16 in. | 42.8 | 42 | 17.5 |
| 67025 | 9 x 12 | 1/2 in. | 43.8 | 51.3 | 17.5 |
| 67026 | 9 x 12 | 9/16 in. | 45 | 52.9 | 17.5 |
| 67027 | 9 x 12 | 5/8 in. | 46.5 | 56.2 | 17.5 |
| 67028 | 9 x 12 | 11/16 in. | 47 | 55.3 | 17.5 |
| 67029 | 9 x 12 | 3/4 in. | 48.8 | 63.4 | 17.5 |
| 67030 | 9 x 12 | 13/16 in. | 50 | 68.2 | 17.5 |
| 67031 | 9 x 12 | 7/8 in. | 50.8 | 70.6 | 17.5 |
| 67032 | 14 x 18 | 1/2 in. | 60.8 | 129.6 | 25 |
| 67033 | 14 x 18 | 9/16 in. | 61.5 | 132.1 | 25 |
| 67034 | 14 x 18 | 5/8 in. | 62.9 | 137 | 25 |
| 67035 | 14 x 18 | 11/16 in. | 64.3 | 138.9 | 25 |
| 67036 | 14 x 18 | 3/4 in. | 65.3 | 144.6 | 25 |
| 67037 | 14 x 18 | 13/16 in. | 66.5 | 151.5 | 25 |
| 67038 | 14 x 18 | 7/8 in. | 67.3 | 156.6 | 25 |
| 67039 | 14 x 18 | 15/16 in. | 68.8 | 161.9 | 25 |
| 67040 | 14 x 18 | 1 in. | 76.8 | 204.9 | 31 |
| 67041 | 14 x 18 | 1 1/8 in. | 78.2 | 204.9 | 31 |
| 67042 | 14 x 18 | 1 1/4 in. | 76.8 | 204.9 | 31 |

Push Type Ratchet Interchangeable Heads



| ASG Number | Adapter Size | Drive Size | Length | Calibration Length |
|------------|--------------|-------------|--------|--------------------|
| | | | mm | mm |
| 67130 | 9 x 12 | 1/4" Square | 46 | 17.5 |
| 67131 | 9 x 12 | 3/8" Square | 48.85 | 17.5 |
| 67132 | 9 x 12 | 1/2" Square | 60.3 | 25 |
| 67133 | 14 x 18 | 3/8" Square | 68.94 | 25 |
| 67134 | 14 x 19 | 1/2" Square | 68.81 | 25 |
| 67135 | 14 x 20 | 3/4" Square | 99.7 | 57.8 |



Our footprint covers the globe!

Global Support

ASG employs a team of technical experts to provide support, repair, calibration and preventative maintenance services. We welcome the opportunity to provide assistance by telephone or online chat Monday through Friday, 8 a.m. to 5 p.m. (U.S. Eastern Time) excluding holidays.

ASG maintains subsidiaries in Shanghai, China and Mumbai, India, and sales offices in Mexico and Europe to provide direct support to our international customers. We work together with our global Field Sales Representative and Distributor Network to help customers standardize their assembly equipment and processes around the world.

Distributor:



Products and Solutions for Assembly

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