# BOLTING SERVICES SCOTLAND

## INDUSTRIAL BOLTING SOLUTIONS

# OUR COMMITMENT

ATLAS COPCO RAPID-TORC IS THE BOLTING SOLUTIONS PROVIDER OF CHOICE BY OFFERING QUALITY AND DURABLE PRODUCTS, PRODUCT AVAILABILITY AND LOCAL SUPPORT WORLDWIDE.

BOLTING SERVICES SCOTLAND

INDUSTRIAL BOLTING SOLUTIONS

Hydraulic Torque Wrenches

Pneumatic and Electric Torque Tools

Hydraulic Bolt Tensioners

Induction Bolt Heating

# Contents


Rapid-Torc Hydraulic Torque Wrenches.
- RT SERIES 6
  - RT Series Hydraulic Torque Wrench Accessories 10
  - Exploded View 12
  - RT Series Spare Parts Ordering Numbers 14
- RTX SERIES 18
  - RTX-2 Ratchet Link Sizes 22
  - RTX-8 Ratchet Link Sizes 24
  - RTX-14 Ratchet Link Sizes 25
  - RTX-18 Ratchet Link Sizes 26
  - RTX-30 Ratchet Link Sizes 27
  - RTX Series Hydraulic Torque Wrench Accessories 28
  - RTX Powerhead Parts List 30
  - RTX-2 Spare Parts 32
  - RTX-4 Spare Parts 34
  - RTX-8 Spare Parts 36
  - RTX-14 Spare Parts 38
  - RTX-18 Spare Parts 40
- HYDRAULIC PUMPS 42
  - 10,000 PSI/700 Bar Hydraulic Pump Models 44
  - Sample Setup 47
- RapidGun. 49
- Rapid-Torc Impact Power Sockets. Truly unbreakable. 50
  - 3/4" Drive Sockets. 52
  - 1" Drive Sockets 54
  - 1 ú" Drive Sockets. 56
  - 2 ú" Drive Sockets 58
  - Rapid-Torc Backup Wrenches 60
- TorcBox: Customized to your application. 62

Pneumatic and Electric Torque Tools
- LMS8. Superduty, Industrial-grade Impact Wrenches. 66
- ErgoPulse. Fast, Reliable and Ergonomic 68
- LMP/LTP. Accurate and Fast. 70
- Tensor Revo Transducerized Electric Nutrunner 74
  - Controllers and Software for Tensor Revo 76

Tensioners
- TRM Topside Series. Hands down, best-in-class. 83
- RPW Wind Turbine Series. Building the future. 85
- TRTS Subsea Series. Diver-friendly technology. 87
- Tensioning System products 88

Rapid-Torc® Induction Bolt Heating
- Induction Bolt Heating Inductor Selection Guide 98

Hydraulic Torque Wrench Rental Services
- Hands-On Bolting Training 101
- Calibration 102
- Repairs 103

# Rapid-Torc Hydraulic Torque Wrenches.
## Designed, Manufactured and Assembled in the USA.

When you take delivery of a Rapid-Torc hydraulic torque wrench, it has been inspected for ultimate quality and durability. Because your process is of utmost importance, Rapid-Torc is determined to only offer industrial-grade, super-duty tools. Every Model is built to be accurate, consistent and extremely durable. Our dedication to each tool we ship increases the return on your investment.

RT-10 tightening horizontal split bolting on Combustion Discharge Chamber. GE-7FA gas turbine.

RT-50 loosening heat corroded nuts on boiler feed pump at power plant.

Precision tightening by RTX18.

RTX-4 has no problem fitting into tight spaces on BOPs.

# RT SERIES
## SQUARE DRIVE HYDRAULIC TORQUE WRENCH

**RT Series embodies torque**
When Rapid-Torc® engineers decided on design and components, the shared vision was unanimous: build the hydraulic torque wrench that would be trusted for the most critical applications in the world. The result is the RT Series, the most cost effective solution for the customer. It is a tool that will deliver superior performance and delivery over a longer tool life.

From design, to manufacturing and calibration, RT Series is a purpose-built machine. It stands second to none.

**RT Square Drive Hydraulic Torque Wrench Key Features**
Made in the USA
9 Models from 55 ft.lb. up to 52,500 ft.lb. (75 Nm to 71,169 Nm)
5 square drive sizes: 1/2", 3/4", 1", 1-1/2" & 2-1/2"
Output accuracy certified at +/-3%

MULTI-AXIS SWIVEL
Greater range of movement on multiple axis allows the hose to move easier compared to one axis swivels.

SPLINED REACTION ARM
Splined reaction arm makes the tool more compact and allows the reaction arm to be adjusted for maximum safety.

SPRING-LOADED SHROUD
Spring loaded shroud absorbs energy during operation

HIGH STRENGTH STEEL BOOT
The reaction arm boot comes standard. Copper boot also available.

EXTERNAL DISENGAGEMENT LEVER
These external disengagement levers make it easy to remove the tool from the application.

SPLINED SQUARE DRIVE
The RT Series splined square drive distributes load evenly through the drive components, providing full heavy-duty transmission of force. Direct Hex drives and Hex Adapters are available.

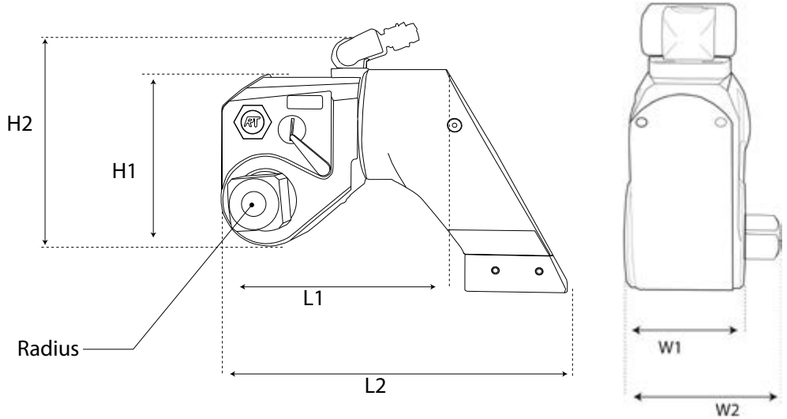
MONOBLOC ALUMINUM HOUSING
One single block of aircraft quality aluminum alloy is used to produce the RT Series housing. This allows the tool to produce massive amounts of torque, while having an amazing power-to-weight ratio.

RT-3 using impact socket on riser application. The accuracy of +/- 3% is critical to this application.

RT-50 working on vertical heat exchanger. The hands-free system is crucial for such applications.

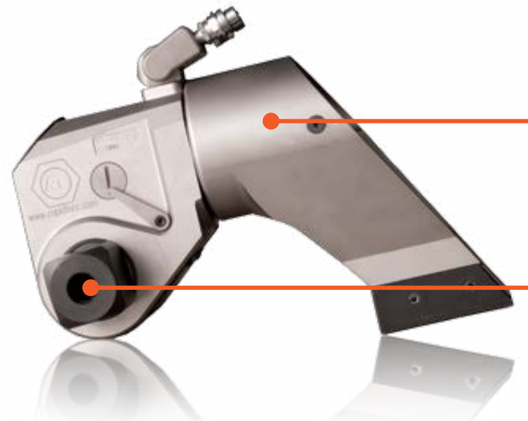
Hydraulic Torque Wrenches

## Square Drive Hydraulic Torque Wrench Dimensions




| Model | Dimensions L1 in | L1 mm | L2 in | L2 mm | H1 in | H1 mm | H2 in | H2 mm | Radius in | Radius mm | W1 in | W1 mm | W2 in | W2 mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RT-0.5 | 3.15 | 81 | 4.87 | 125 | 2.35 | 60.5 | 3.62 | 93 | 0.52 | 13.5 | 1.3 | 33.5 | 1.97 | 50.5 |
| RT-1 | 4.68 | 120 | 7.13 | 183 | 3.52 | 90.5 | 4.75 | 122 | 0.9 | 23 | 1.95 | 50 | 2.76 | 71 |
| RT-3 | 6.04 | 155 | 9.24 | 237 | 4.68 | 120 | 6.08 | 156 | 1.28 | 33 | 2.59 | 66.5 | 3.72 | 95.5 |
| RT-5 | 7.21 | 185 | 11.23 | 288 | 5.63 | 144.5 | 7.05 | 181 | 1.44 | 37 | 3.12 | 80 | 4.9 | 126 |
| RT-8 | 7.85 | 202 | 12.49 | 321 | 6.42 | 164.6 | 8.4 | 213.36 | 1.62 | 41 | 3.48 | 88 | 4.95 | 126 |
| RT-10 | 9 | 232 | 13.9 | 357 | 7.2 | 186 | 9.3 | 239 | 1.87 | 48 | 3.9 | 100 | 5.5 | 142.5 |
| RT-20 | 10.2 | 259 | 16.55 | 420 | 8.5 | 216 | 9.9 | 251 | 2.17 | 55.1 | 4.7 | 119 | 6.7 | 170 |
| RT-25 | 12 | 310 | 18.4 | 473 | 9.1 | 234 | 11 | 282 | 2.37 | 61 | 5.2 | 134 | 7.4 | 191 |
| RT-50 | 15.2 | 390 | 23.9 | 615 | 11.4 | 294 | 13.4 | 344 | 30.8 | 79 | 6.5 | 167 | 8.9 | 228 |

## Torque Range by Model

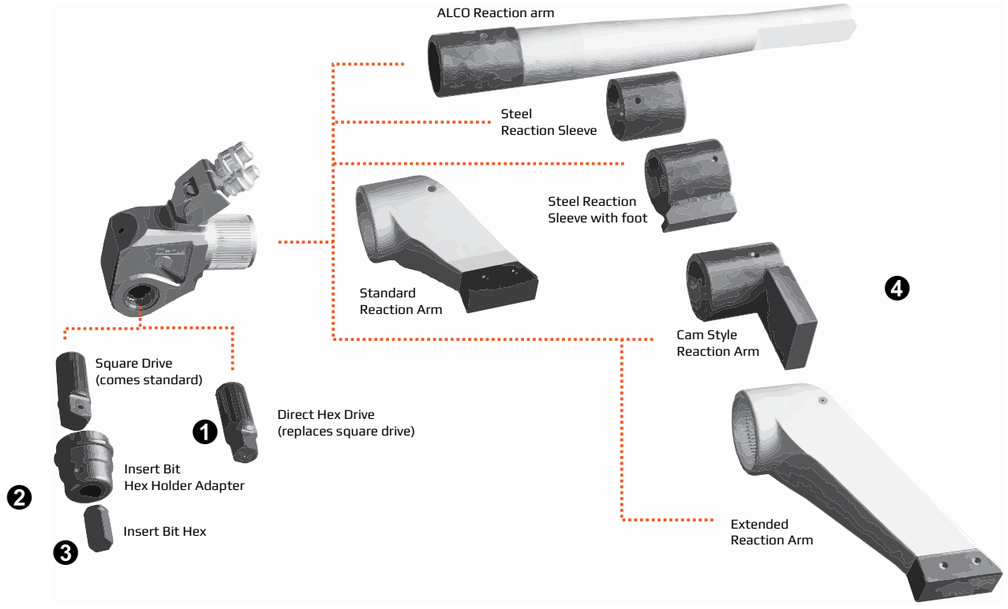


Equipped with standard reaction arm, or use optional special reaction arms.

Use with square drive or optional hex drive. Hex Adapters are also available.

| Model | Square Drive in | Torque ft. lb. min | ft. lb. max | Nm min | Nm max | Weight lbs | Weight kg | Ordering No. |
|---|---|---|---|---|---|---|---|---|
| RT-0.5 | 1/2" | 55 | 397 | 75 | 538 | 0.8 | 0.4 | 8434 2010 00 |
| RT-1 | 3/4" | 200 | 1340 | 271 | 1817 | 3.8 | 1.9 | 8434 2010 02 |
| RT-3 | 1" | 480 | 3230 | 651 | 4379 | 7.8 | 3.9 | 8434 2010 05 |
| RT-5 | 1-1/2" | 835 | 5590 | 1132 | 7578 | 15 | 7.5 | 8434 2010 09 |
| RT-8 | 1-1/2" | 1200 | 8000 | 1627 | 10845 | 23 | 11.5 | 8434 2010 13 |
| RT-10 | 1-1/2" | 1755 | 11520 | 2379 | 15617 | 26.8 | 13.4 | 8434 2010 16 |
| RT-20 | 2-1/2" | 2960 | 19760 | 4013 | 26787 | 36 | 18 | 8434 2010 20 |
| RT-25 | 2-1/2" | 3960 | 25890 | 5368 | 35096 | 62 | 31 | 8434 2010 25 |
| RT-50 | 2-1/2" | 7875 | 52500 | 10675 | 71169 | 96 | 48 | 8434 2010 29 |

# RT Series Hydraulic Torque Wrench Accessories



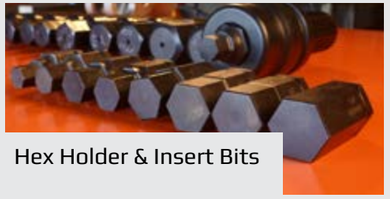

## 1

| Model | Hex Size | Ordering no. |
|---|---|---|
| RT0.5-HX-10MM | 10mm | 8434 2138 44 |
| RT0.5-HX-12MM | 12mm | 8434 2138 47 |
| RT0.5-HX-14MM | 14mm | 8434 2138 50 |
| RT0.5-HX-16MM | 16mm | 8434 2138 53 |
| RT0.5-HX-17MM | 17mm | 8434 2138 56 |
| RT0.5-HX-19MM | 19mm | 8434 2138 62 |
| RT0.5-HX-22MM | 22mm | 8434 2138 68 |
| RT0.5-HX-24MM | 24mm | 8434 2101 71 |
| RT01-HX-010 | 5/8" | 8434 2138 71 |
| RT01-HX-012 | 3/4" | 8434 2138 74 |
| RT01-HX-014 | 7/8" | 8434 2138 77 |
| RT01-HX-17MM | 17mm | 8434 2056 96 |
| RT01-HX-19MM | 19mm | 8434 2056 98 |
| RT01-HX-22MM | 22mm | 8434 2057 02 |
| RT01-HX-24MM | 24mm | 8434 2057 04 |
| RT01-HX-27MM | 27mm | 8434 2057 06 |
| RT03-HX-010 | 5/8" | 8434 2057 14 |
| RT03-HX-012 | 3/4" | 8434 2057 16 |
| RT03-HX-014 | 7/8" | 8434 2057 18 |
| RT03-HX-19MM | 19mm | 8434 2057 22 |
| RT03-HX-19MM-EXT | 19mm EXT | 8434 2139 40 |
| RT03-HX-22MM | 22mm | 8434 2057 24 |
| RT03-HX-22MM-EXT | 22mm EXT | 8434 2116 22 |
| RT03-HX-24MM | 24mm | 8434 2057 26 |
| RT03-HX-24MM-EXT | 24mm EXT | 8434 2116 25 |
| RT03-HX-27MM | 27mm | 8434 2057 28 |
| RT03-HX-30MM | 30mm | 8434 2139 46 |
| RT03-HX-32MM | 32mm | 8434 2057 30 |
| RT03-HX-36MM | 36mm | 8434 2139 49 |
| RT03-HX-36MM-EXT | 36mm EXT | 8434 2139 52 |
| RT03-HX-38MM | 38mm | 8434 2139 55 |
| RT05-HX-24MM | 24mm | 8434 2140 03 |
| RT05-HX-27MM | 27mm | 8434 2057 36 |
| RT05-HX-27MM-EXT | 27mm EXT | 8434 2140 09 |
| RT05-HX-32MM | 32mm | 8434 2140 12 |
| RT05-HX-32MM-EXT | 32mm EXT | 8434 2140 15 |
| RT05-HX-36MM | 36mm | 8434 2057 38 |
| RT05-HX-41MM | 41mm | 8434 2057 40 |
| RT05-HX-41MM-EXT | 41mm EXT | 8434 2140 18 |
| RT05-HX-46MM | 46mm | 8434 2057 42 |
| RT05-HX-55MM | 55mm | 8434 2140 21 |
| RT08-HX-24MM | 24mm | 8434 2140 45 |
| RT08-HX-27MM | 27mm | 8434 2140 48 |
| RT10-HX-32MM | 32mm | 8434 2140 75 |
| RT10-HX-36MM | 36mm | 8434 2057 46 |
| RT10-HX-41MM | 41mm | 8434 2057 48 |
| RT10-HX-46MM | 46mm | 8434 2057 50 |
| RT10-HX-46MM-EXT | 46mm EXT | 8434 2140 78 |
| RT10-HX-50MM | 50mm | 8434 2057 52 |

EXT=Extended Drives
Custom sizes, included 12 point are available.

ALCO reaction arm

Direct Hex Drives


Hex Holder & Insert Bits



## 2

### Insert Bit Hex Holder Adapter

| Model | Description | Ordering no. |
|---|---|---|
| H2-7/8 | Hex Holder Sq Dr 3/4"-7/8" | 8434 2129 59 |
| H4-1/2 | Hex Holder Sq Dr 1/2"-1/2" | 8434 2056 58 |
| H4-7/8 | Hex Holder Sq Dr 1/2"-7/8" | 8434 2056 60 |
| H5-1 3/4 | Hex Holder Sq Dr 1 1/2"-1 3/4" | 8434 2129 62 |
| H5-1-1/4 | Hex Holder Sq Dr 1 1/2"-1 1/4" | 8434 2129 65 |
| H9-1 1/4 | Hex Holder Sq Dr 1"-1 1/4" | 8434 2129 68 |
| H9-7/8 | Hex Holder Sq Dr 1"-7/8" | 8434 2056 62 |

## 3

### Insert Bit Hex

| Model | Description | Ordering no. |
|---|---|---|
| 7/8-10 | Hex Size 10MM | 8434 2054 24 |
| 7/8-12 | Hex Size 12MM | 8434 2054 26 |
| 7/8-14 | Hex Size 14MM | 8434 2054 30 |
| 7/8-17 | Hex Size 17MM | 8434 2054 32 |
| 7/8-19 | Hex Size 19MM | 8434 2054 34 |
| 7/8-22 | Hex Size 22MM | 8434 2054 36 |
| 7/8-24 | Hex Size 24MM | 8434 2054 38 |
| 7/8-27 | Hex Size 27MM | 8434 2123 32 |
| 1 1/4-24 | Hex Size 24MM | 8434 2050 18 |
| 1 1/4-27 | Hex Size 27MM | 8434 2050 20 |
| 1 1/4-28 | Hex Size 28MM | 8434 2050 22 |
| 1 1/4-29 | Hex Size 29MM | 8434 2050 24 |
| 1 1/4-30 | Hex Size 30MM | 8434 2050 26 |
| 1 1/4-32 | Hex Size 32MM | 8434 2050 28 |
| 1 1/4-33 | Hex Size 33MM | 8434 2050 30 |

| Model | Description | Ordering no. |
|---|---|---|
| 1 1/4-36 | hex Size 36MM | 8434 2124 13 |
| 1 3/4-36 | Hex Size 36MM | 8434 2050 40 |
| 1 3/4-40 | Hex Size 40MM | 8434 2124 16 |
| 1 3/4-41 | Hex Size 41MM | 8434 2050 42 |
| 1 3/4-46 | Hex Size 46MM | 8434 2050 44 |
| 1 3/4-50 | Hex Size 50MM | 8434 2050 46 |
| 7/8-1 | Hex Size 1" | 8434 2054 20 |
| 1 1/4-1 | Hex Size 1IN | 8434 2050 12 |
| 1 1/4-1 1/16 | Hex Size 1 1/16" | 8434 2124 10 |
| 1 1/4-1 1/4 | Hex Size 1 1/4IN | 8434 2050 14 |
| 1 1/4-1 1/8 | Hex Size 1 1/8IN | 8434 2050 16 |
| 1 3/4-1 1/2 | Hex Size 1 1/2IN | 8434 2050 32 |

| Model | Description | Ordering no. |
|---|---|---|
| 1 3/4-1 3/4 | Hex Size 1 3/4IN | 8434 2050 34 |
| 1 3/4-1 3/8 | Hex Size 1 3/8IN | 8434 2050 36 |
| 1 3/4-1 5/8 | Hex Size 1 5/8IN | 8434 2050 38 |
| 7/8-1 12 PT | Hex Size 1"-12pt | 8434 2126 86 |
| 7/8-1/2 | Hex Size 1/2" | 8434 2054 22 |
| 7/8-13/16 | Hex Size 13/16" | 8434 2054 28 |
| 7/8-3/4 | Hex Size 3/4" | 8434 2054 40 |
| 7/8-5/8 | Hex Size 5/8" | 8434 2054 42 |
| 7/8-7/8 | Hex Size 7/8" | 8434 2054 44 |
| 7/8-9/16 | Hex Size 9/16" | 8434 2054 46 |

## 4

### Reaction Arms

| Model | Description | Ordering no. |
|---|---|---|
| RT0.5-ALC | Alco Arm | 4222 2126 76 |
| RT01-ALC | Alco Arm | 4222 2102 64 |
| RT03-ALC | Alco Arm | 8434 2057 10 |
| RT05-ALC | Alco Arm | 8434 2139 88 |
| RT5-03-CAM | Steel reaction arm | 4222213048 |
| RT08-ALC | Alco Arm | 8434 2140 36 |
| RT10-ALC | Alco Arm | 8434 2140 60 |
| RT0.5-EXT | Extended Reaction Arm | 4222 2126 82 |
| RT01-EXT | Extended Reaction Arm | 8434 2056 92 |
| RT03-EXT | Extended Reaction Arm | 8434 2057 12 |
| RT05-EXT | Extended Reaction Arm | 8434 2057 34 |
| RT08-EXT | Extended Reaction Arm | 8434 2140 42 |
| RT10-EXT | Extended Reaction Arm | 8434 2140 66 |
| RT3-CAM ARM | Reaction Arm Cameron Style | 4222 2130 12 |

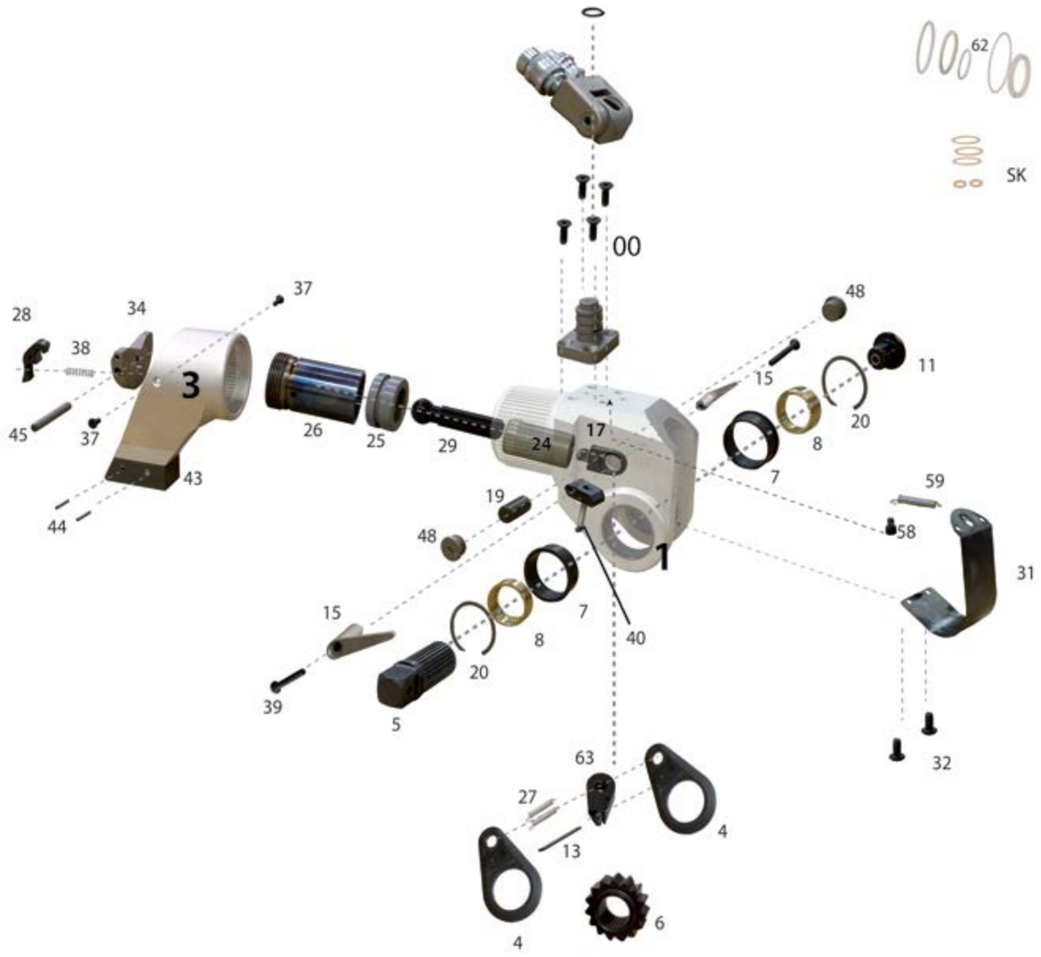
| Model | Description | Ordering no. |
|---|---|---|
| RT5-3 CAM | Reaction Arm Cameron Style | 4222 2130 57 |
| RT0.5-SSLV | Reaction Sleeve | 4222 2126 88 |
| RT01-SSLV | Reaction Sleeve | 8434 2057 08 |
| RT03-SLVF | Reaction Sleeve W/Foot | 8434 2139 79 |
| RT3-SLVF | Reaction Sleeve W/Foot | 4222 2130 21 |
| RT3-SP-EXT | Special Reaction Arm | 4222 2130 24 |
| RT01-SSLV/ WITH BOOT | Steel Reaction Sleeve | 8434 2057 09 |
| RT5-03-CAM | Steel reaction arm | 4222 2130 48 |
| RT03-SSLV | Steel Reaction Sleeve | 8434 2057 32 |
| RT05-SSLV | Steel Reaction Sleeve | 8434 2140 30 |
| RT08-SSLV | Steel Reaction Sleeve | 8434 2140 51 |
| RT10-SSLV | Steel Reaction Sleeve | 8434 2140 90 |

Customized reaction arms and other accessories are available. Contact your local representative for design requirements.



Hydraulic Torque Wrenches

# RT Hydraulic Torque Wrench Exploded View




Send in your tool for a yearly calibration. Our technicians are experts in keeping your tool in optimal working condition. Or you can opt to purchase our RT Series maintenance kits.



# RT Square Drive Hydraulic Torque Wrench Parts List

| Description | Part Description | Description |
|---|---|---|
| 1 | Housing | RT-#-1 |
| 3 | Reaction Arm Assembly | RT-#-3 |
| 4 | Drive Plate | RT-#-4 |
| 5 | Square Drive | RT-#-5 |
| 6 | Ratchet Spine | RT-#-6 |
| 7 | Drive Bushing (2) | RT-#-7 |
| 8 | Drive Sleeve Spline (2) | RT-#-8 |
| 10 | Reaction Pawl | RT-#-10 |
| 11 | Drive Retainer | RT-#-11 |
| 13 | Drive Plate Roll Pin | RT-#-13 |
| 15 | Disengagement Lever w/screws | RT-#-15 |
| 17 | Piston Rod End | RT-#-17 |
| 18 | Reaction Pawl Spring + Roll Pin | RT-#-18 |
| 19 | Rod End Pin | RT-#-19 |
| 20 | Drive Sleeve Retaining Ring | RT-#-20 |
| 24 | Piston Sleeve with Seal | RT-#-24 |
| 25 | Piston with Seal | RT-#-25 |
| 26 | Cylinder End Cap | RT-#-26 |
| 27 | Drive Pawl Spring (2) | RT-#-27 |
| 28 | Reaction Arm Lever | RT-#-28 |
| 29 | Piston Rod | RT-#-29 |
| 31 | Shroud | RT-#-31 |
| 32 | Shroud Screws (2) | RT-#-32 |
| 33 | Secondary Drive Pawl Spring | RT-#-33 |
| 34 | Reaction Arm Plate | RT-#-34 |
| 37 | Reaction Arm Plate Screws (2) | RT-#-37 |
| 38 | Reaction Arm Lever Spring | RT-#-38 |
| 39 | Disengagement Lever Screw | RT-#-39 |
| 40 | Primary Drive Pawl Roll Pin | RT-#-40 |
| 41 | Secondary Drive Pawl Pin | RT-#-41 |
| 42 | Reaction Pawl Roll Pin | RT-#-42 |
| 43 | Reaction Arm Boot with Pins | RT-#-43 |
| 44 | Reaction Arm Boot Pin (2) | RT-#-44 |
| 45 | Reaction Arm Lever Pin | RT-#-45 |
| 48 | Access Plug (2) | RT-#-48 |
| 58 | Shroud Spring Screw | RT-#-58 |
| 59 | Shroud Spring | RT-#-59 |
| 61 | Piston Rod Assembly | RT-#-61 |
| 62 | Housing Seal Kit | RT-#-62 |
| 63 | Drive Pawl Assembly | RT-#-63 |
| 00 | Swivel Assembly | RT-#-00 |
| SK | Swivel Seal Kit | RT-#-SK |

## RT Series Maintenance Kits

| Description | Part Description | Description |
|---|---|---|
| RT0.5-MK | Maintenance Kit | 4222 2126 85 |
| RT01-MK | Maintenance Kit | 4222 2127 36 |
| RT03-MK | Maintenance Kit | 8434 2139 73 |
| RT05-MK | Maintenance Kit | 4222 2127 78 |
| RT08-MK | Maintenance Kit | 4222 2105 52 |
| RT10-MK | Maintenance Kit | 8434 2140 87 |
| RT14-MK | Maintenance Kit | 8434 2140 99 |
| RT20-MK | Maintenance Kit | 8434 2057 56 |
| RT25-MK | Maintenance Kit | 4222 2116 31 |
| RT50-MK | Maintenance Kit | 4222 2116 34 |

Maintenance kits have the spare parts you need to do basic maintenance on your tool, including seals springs and roll pins.

**Maintenance Kit Includes:**
Disengagement Lever w/Screws
Drive Sleeve Retaining Ring
Shroud
Reaction Arm Plate Screws
Disengagement Lever screw
Access Plug (if applicable)
Shroud Spring Screw
Housing Seal Kit
Roll Pin Kit
Spring Kit
Medium Swivel Seal Kit
Male Female Nipple
Female Coupler

# RT Series Spare Parts Ordering Numbers

## RT-0.5

| Description | extra Description | part number |
|---|---|---|
| RT0.5-01 | Housing | 4222 2125 80 |
| RT0.5-03 | Reaction Arm Assembly | 4222 2101 44 |
| RT0.5-04 | Drive Plate | 4222 2101 47 |
| RT0.5-05 | Square Drive | 4222 2125 83 |
| RT0.5-06 | Ratchet Spline | 4222 2125 86 |
| RT0.5-07 | Drive Bushing | 4222 2101 50 |
| RT0.5-08 | Drive Sleeve Spline | 4222 2125 89 |
| RT0.5-10 | Reaction Pawl | 4222 2125 92 |
| RT0.5-11 | Drive Retainer | 4222 2101 53 |
| RT0.5-13 | Drive Plate Roll Pin | 4222 2101 56 |
| RT0.5-15 | Disengagement Lever w/ Screws | 4222 2125 95 |
| RT0.5-17 | Piston Rod End | 4222 2101 59 |
| RT0.5-18 | Reaction Pawl w/roll pin | 4222 2125 98 |
| RT0.5-19 | Rod End Pin | 4222 2101 62 |
| RT0.5-20 | Drive Sleeve Retaining Ring | 4222 2126 01 |
| RT0.5-24 | Piston Sleeve | 4222 2126 04 |
| RT0.5-25 | Piston | 4222 2126 07 |
| RT0.5-26 | Cylinder End Cap | 4222 2126 10 |
| RT0.5-27 | Drive Pawl Spring | 4222 2101 65 |
| RT0.5-28 | Reaction arm lever | 4222 2126 13 |
| RT0.5-29 | Piston Rod | 4222 2126 16 |
| RT0.5-31 | Shroud | 4222 2126 19 |
| RT0.5-32 | Shroud Screws | 4222 2126 22 |
| RT0.5-33 | Secondary Drive Pawl Spring | 4222 2126 25 |
| RT0.5-34 | Reaction Arm Plate | 4222 2126 28 |
| RT0.5-37 | Reaction Arm Plate Screws | 4222 2126 31 |
| RT0.5-38 | Reaction Arm Lever Spring | 4222 2126 34 |
| RT0.5-39 | Disengagement Lever Screw | 4222 2126 37 |
| RT0.5-40 | Primary Drive Pawl Roll Pin | 4222 2101 68 |
| RT0.5-41 | Secondary Drive Pawl Pin | 4222 2126 40 |
| RT0.5-42 | Reaction Pawl Roll Pin | 4222 2126 43 |
| RT0.5-43 | Reaction Arm Boot with Pins | 4222 2126 46 |
| RT0.5-58 | Shroud Spring Screw | 4222 2126 58 |
| RT0.5-59 | Shroud Spring | 4222 2126 61 |
| RT0.5-61 | Piston Rod Assembly | 4222 2126 64 |
| RT0.5-62 | Housing Seal Kit | 4222 2126 67 |
| RT0.5-63 | Drive Pawl Assembly | 4222 2126 70 |
| RT0.5-64 | Roll Pin Kit | 4222 2126 73 |

## RT-1

| Description | extra Description | part number |
|---|---|---|
| RT01-01 | Housing | 4222 2101 74 |
| RT01-03 | Reaction Arm Assembly | 4222 2104 85 |
| RT01-04 | Drive Plate | 4222 2101 77 |
| RT01-05 | Square Drive | 4222 2126 97 |
| RT01-06 | Ratchet Spline | 4222 2101 80 |
| RT01-07 | Drive Bushing | 4222 2101 83 |
| RT01-08 | Drive Sleeve Spline | 4222 2101 86 |
| RT01-10 | Reaction Pawl | 4222 2127 00 |
| RT01-11 | Drive Retainer | 4222 2127 03 |
| RT01-13 | Drive Plate Roll Pin | 4222 2101 89 |
| RT01-15 | Disengagement Lever w/ Screws | 4222 2101 92 |
| RT01-17 | Piston Rod End | 4222 2101 95 |
| RT01-18 | Reaction Pawl Spring-Roll Pin | 4222 2101 98 |
| RT01-19 | Rod End Pin | 4222 2102 01 |
| RT01-20 | Drive Sleeve Retaining Ring | 4222 2102 04 |
| RT01-24 | Piston Sleeve | 4222 2102 07 |
| RT01-25 | Piston with Seal | 4222 2102 10 |
| RT01-26 | Cylinder End Cap | 4222 2102 13 |
| RT01-27 | Drive Pawl Spring | 4222 2102 16 |
| RT01-28 | Reaction Arm Lever | 4222 2127 06 |
| RT01-29 | Piston Rod | 4222 2102 19 |
| RT01-31 | Shroud | 4222 2102 22 |
| RT01-32 | Shroud Screws | 4222 2102 25 |
| RT01-33 | Secondary Drive Pawl Spring | 4222 2102 28 |
| RT01-34 | Reaction Arm Plate | 4222 2127 09 |
| RT01-37 | Reaction Arm Plate Screws | 4222 2127 12 |
| RT01-38 | Reaction Arm Lever Spring | 4222 2127 15 |
| RT01-39 | Disengagement Lever Screw | 4222 2102 31 |
| RT01-40 | Primary Drive Pawl Roll Pin | 4222 2102 34 |
| RT01-41 | Secondary Drive Pawl Pin | 4222 2102 37 |
| RT01-42 | Reaction Pawl Roll Pin | 4222 2102 40 |
| RT01-43 | Reaction Arm Boot with Pins | 4222 2102 43 |
| RT01-44 | Reaction Arm Boot Pin | 4222 2102 46 |
| RT01-45 | Reaction Arm Lever Pin | 4222 2127 18 |
| RT01-48 | Access Plug | 4222 2102 49 |
| RT01-58 | Shroud Spring Screw | 4222 2102 52 |
| RT01-59 | Shroud Spring | 4222 2102 55 |
| RT01-61 | Piston Rod Assembly | 4222 2127 21 |
| RT01-62 | Housing Seal Kit | 4222 2102 58 |
| RT01-63 | Drive Pawl Assembly | 4222 2102 61 |
| RT01-64 | Roll Pin Kit | 4222 2127 24 |
| RT01-65 | Spring Kit | 4222 2127 27 |

## RT-3

| Description | extra Description | part number |
|---|---|---|
| RT03-01 | Housing | 4222 2102 70 |
| RT03-03 | Reaction Arm Assembly | 4222 2102 73 |
| RT03-04 | Drive Plate | 4222 2102 76 |
| RT03-05 | Square Drive | 4222 2102 79 |
| RT03-06 | Ratchet Spline | 4222 2102 82 |
| RT03-07 | Drive Bushing | 4222 2102 85 |
| RT03-08 | Drive Sleeve Spline | 4222 2102 88 |
| RT03-10 | Reaction Pawl | 4222 2102 91 |
| RT03-11 | Drive Retainer | 4222 2102 94 |
| RT03-13 | Drive Plate Roll Pin | 4222 2102 97 |
| RT03-15 | Disengagement Lever w/ Screws | 4222 2103 00 |
| RT03-17 | Piston Rod End | 4222 2103 03 |
| RT03-18 | Reaction Pawl Spring-Roll Pin | 4222 2103 06 |
| RT03-19 | Rod End Pin | 4222 2103 09 |
| RT03-20 | Drive Sleeve Retaining Ring | 4222 2103 12 |
| RT03-24 | Piston Sleeve | 4222 2103 15 |
| RT03-25 | Piston with Seal | 4222 2103 18 |
| RT03-26 | Cylinder End Cap | 4222 2103 21 |
| RT03-27 | Drive Pawl Spring | 4222 2127 42 |
| RT03-28 | Reaction Arm Lever | 4222 2103 24 |
| RT03-29 | Piston Rod | 4222 2103 27 |
| RT03-31 | Shroud | 4222 2103 30 |
| RT03-32 | Shroud Screws | 4222 2103 33 |
| RT03-33 | Secondary Drive Pawl Spring | 4222 2103 36 |
| RT03-34 | Reaction Arm Plate | 4222 2103 39 |
| RT03-37 | Reaction Arm Plate Screws | 4222 2103 42 |
| RT03-38 | Reaction Arm Lever Spring | 4222 2103 45 |
| RT03-39 | Disengagement Lever Screw | 4222 2103 48 |
| RT03-40 | Primary Drive Pawl Roll Pin | 4222 2103 51 |
| RT03-41 | Secondary Drive Pawl Pin | 4222 2103 54 |
| RT03-42 | Reaction Pawl Roll Pin | 4222 2103 57 |
| RT03-43 | Reaction Arm Boot with Pins | 4222 2103 60 |
| RT03-44 | Reaction Arm Boot Pin | 4222 2103 63 |
| RT03-45 | Reaction Arm Lever Pin | 4222 2103 66 |
| RT03-48 | Access Plug | 4222 2103 69 |
| RT03-58 | Shroud Spring Screw | 4222 2103 72 |
| RT03-59 | Shroud Spring | 4222 2103 75 |
| RT03-61 | Piston Rod Assembly | 4222 2127 45 |
| RT03-62 | Housing Seal Kit | 4222 2103 78 |
| RT03-63 | Drive Pawl Assembly | 4222 2127 48 |
| RT03-64 | Roll Pin Kit | 4222 2127 51 |
| RT03-65 | Spring Kit | 4222 2127 54 |

## RT-5

| Description | extra Description | part number |
|---|---|---|
| RT05-01 | Housing | 4222 2127 57 |
| RT05-03 | Reaction Arm Assembly | 4222 2127 60 |
| RT05-04 | Drive Plate | 4222 2103 81 |
| RT05-05 | Square Drive | 4222 2103 84 |
| RT05-06 | Ratchet Spline | 4222 2103 87 |
| RT05-07 | Drive Bushing | 4222 2103 90 |
| RT05-08 | Drive Sleeve Spline | 4222 2103 93 |
| RT05-10 | Reaction Pawl | 4222 2103 96 |
| RT05-11 | Drive Retainer | 4222 2103 99 |
| RT05-13 | Drive Plate Roll Pin | 4222 2104 02 |
| RT05-15 | Disengagement Lever w/ Screws | 4222 2104 05 |
| RT05-17 | Piston Rod End | 4222 2104 08 |
| RT05-18 | Reaction Pawl Spring-Roll Pin | 4222 2104 11 |
| RT05-19 | Rod End Pin | 4222 2104 14 |
| RT05-20 | Drive Sleeve Retaining Ring | 4222 2104 17 |
| RT05-24 | Piston Sleeve with Seal | 4222 2104 20 |
| RT05-25 | Piston | 4222 2104 23 |
| RT05-26 | Cylinder End Cap | 4222 2104 26 |
| RT05-27 | Drive Pawl Spring | 4222 2127 63 |
| RT05-28 | Reaction Arm Lever | 4222 2127 66 |
| RT05-29 | Piston Rod | 4222 2104 29 |
| RT05-31 | Shroud | 4222 2104 32 |
| RT05-32 | Shroud Screw | 4222 2127 69 |
| RT05-33 | Secondary Drive Pawl Spring | 4222 2104 35 |
| RT05-34 | Reaction Arm Plate | 4222 2104 38 |
| RT05-38 | Reaction Arm Lever Spring | 4222 2104 41 |
| RT05-39 | Disengagement Lever Screw | 4222 2104 44 |
| RT05-40 | Primary Drive Pawl Roll Pin | 4222 2104 47 |
| RT05-41 | Secondary Drive Pawl Pin | 4222 2104 50 |
| RT05-42 | Reaction Pawl Roll Pin | 4222 2104 53 |
| RT05-43 | Reaction Arm Boot with Pins | 4222 2104 56 |
| RT05-44 | Reaction Arm Boot Pin | 4222 2104 59 |
| RT05-48 | Access Plug | 4222 2104 62 |
| RT05-58 | Shroud Spring Screw | 4222 2104 65 |
| RT05-59 | Shroud Spring | 4222 2104 68 |
| RT05-61 | Piston Rod Assembly | 4222 2104 71 |
| RT05-62 | Housing Seal Kit | 4222 2104 74 |
| RT05-63 | Drive Pawl Assembly | 4222 2104 77 |
| RT05-63-1 | Drive Pawl Assembly part 1 | 4222 2104 78 |
| RT05-63-2 | Drive Pawl Assembly part 2 | 4222 2104 79 |
| RT05-65 | Spring Kit | 4222 2127 75 |





Hydraulic Torque Wrenches

# RT Series Spare Parts Ordering Numbers

## RT-8

| Description | extra Description | part number |
|---|---|---|
| RT08-01 | Housing | 4222 2104 80 |
| RT08-03 | Reaction Arm Assembly | 4222 2104 83 |
| RT08-04 | Drive Plate | 4222 2104 86 |
| RT08-05 | Square Drive | 4222 2104 89 |
| RT08-06 | Ratchet Spline | 4222 2104 92 |
| RT08-07 | Drive Bushing | 4222 2104 95 |
| RT08-08 | Drive Sleeve Spline | 4222 2104 98 |
| RT08-10 | Reaction Pawl | 4222 2105 01 |
| RT08-10-1 | Reaction Pawl part 1 | 4222 2105 02 |
| RT08-11 | Drive Retainer | 4222 2105 04 |
| RT08-11-1 | Drive Retainer part 1 | 4222 2105 05 |
| RT08-11-2 | Drive Retainer part 2 | 4222 2105 06 |
| RT08-13 | Drive Plate Roll Pin | 4222 2127 81 |
| RT08-15 | Disengagement Lever w/ Screw | 4222 2105 07 |
| RT08-17 | Piston Rod End | 4222 2105 10 |
| RT08-18 | Reaction Pawl Spring | 4222 2127 84 |
| RT08-19 | Rod End Pin | 4222 2105 13 |
| RT08-20 | Drive Sleeve Retaining Ring | 4222 2127 87 |
| RT08-24 | Piston Sleeve | 4222 2105 16 |
| RT08-25 | Piston with Seal | 4222 2105 19 |
| RT08-26 | Cylinder End Cap | 4222 2105 22 |
| RT08-27 | Drive Pawl Spring | 4222 2127 90 |
| RT08-28 | Reaction Arm Lever | 4222 2105 25 |
| RT08-29 | Piston Rod | 4222 2105 28 |
| RT08-31 | Shroud | 4222 2105 31 |
| RT08-32 | Shroud Screws | 4222 2127 93 |
| RT08-33 | Secondary Drive Pawl Pin | 4222 2127 96 |
| RT08-34 | Reaction Arm Plate | 4222 2105 34 |
| RT08-37 | Reaction Arm Plate Screws | 4222 2127 99 |
| RT08-38 | Reaction Arm Lever Spring | 4222 2128 02 |
| RT08-39 | Disengagement Lever Screw | 4222 2128 05 |
| RT08-40 | Primary Drive Pawl Roll Pin | 4222 2128 06 |
| RT08-41 | Secondary Drive Pawl Pin | 4222 2128 07 |
| RT08-42 | Reaction Pawl Roll Pin | 4222 2128 09 |
| RT08-43 | Reaction Arm Boot with Pins | 4222 2105 37 |
| RT08-44 | Reaction Arm Boot Pin | 4222 2128 08 |
| RT08-45 | Reaction Arm Lever Pin | 4222 2105 40 |
| RT08-48 | Access Plug | 4222 2105 43 |
| RT08-58 | Shroud Spring Screw | 4222 2128 11 |
| RT08-59 | Shroud Spring | 4222 2128 14 |
| RT08-61 | Piston Rod Assembly | 4222 2128 17 |
| RT08-62 | Housing Seal Kit | 4222 2105 46 |
| RT08-63 | Drive Pawl Assembly | 4222 2105 49 |
| RT08-63-1 | Drive Pawl Assembly part 1 | 4222 2105 50 |
| RT08-63-2 | Drive Pawl Assembly part 2 | 4222 2105 51 |
| RT08-64 | Roll Pin Kit | 4222 2128 20 |
| RT08-65 | Screw Kit | 4222 2128 23 |

## RT-10

| Description | extra Description | part number |
|---|---|---|
| RT10-01 | Housing | 4222 2105 55 |
| RT10-03 | Reaction Arm Assembly | 4222 2105 58 |
| RT10-04 | Drive Plate | 4222 2105 61 |
| RT10-05 | Square Drive | 4222 2105 64 |
| RT10-06 | Ratchet Spline | 4222 2105 67 |
| RT10-07 | Drive Bushing | 4222 2105 70 |
| RT10-08 | Drive Sleeve Spine | 4222 2105 73 |
| RT10-10 | Reaction Pawl | 4222 2105 76 |
| RT10-10-1 | Reaction Pawl part 1 | 4222 2105 77 |
| RT10-11 | Drive Retainer | 4222 2105 79 |
| RT10-11-1 | Drive Retainer part 1 | 4222 2105 80 |
| RT10-11-2 | Drive Retainer part 2 | 4222 2105 81 |
| RT10-13 | Drive Plate Roll Pin | 4222 2105 82 |
| RT10-15 | Disengagement Lever w/Screw | 4222 2105 85 |
| RT10-17 | Piston Rod End | 4222 2105 88 |
| RT10-18 | Reaction Pawl Spring | 4222 2105 91 |
| RT10-19 | Rod End Pin | 4222 2105 94 |
| RT10-20 | Drive Sleeve Retaining Ring | 4222 2128 29 |
| RT10-24 | Piston Sleeve | 4222 2105 97 |
| RT10-25 | Piston with Seal | 4222 2106 00 |
| RT10-26 | Cylinder End Cap | 4222 2106 03 |
| RT10-27 | Drive Pawl Spring | 4222 2106 06 |
| RT10-28 | Reaction Arm Lever | 4222 2106 09 |
| RT10-29 | Piston Rod | 4222 2106 12 |
| RT10-31 | Shroud | 4222 2128 32 |
| RT10-32 | Shroud Screws | 4222 2128 35 |
| RT10-33 | Secondary Drive Pawl Spring | 4222 2106 15 |
| RT10-34 | Reaction Arm Plate | 4222 2106 18 |
| RT10-37 | Reaction Arm Plate Screws | 4222 2128 38 |
| RT10-38 | Reaction Arm Lever Spring | 4222 2128 41 |
| RT10-39 | Disengagement Lever Screw | 4222 2128 44 |
| RT10-40 | Primary Drive Pawl Roll Pin | 4222 2128 47 |
| RT10-41 | Secondary Drive Pawl Pin | 4222 2106 21 |
| RT10-42 | Reaction Pawl Roll Pin | 4222 2106 24 |
| RT10-43 | Reaction Arm Boot with Pins | 4222 2106 27 |
| RT10-44 | Reaction Arm Boot Pin | 4222 2128 50 |
| RT10-45 | Reaction Arm Lever Pin | 4222 2128 53 |
| RT10-48 | Access Plug | 4222 2106 30 |
| RT10-58 | Shroud Spring Screw | 4222 2106 33 |
| RT10-59 | Shroud Spring | 4222 2128 56 |
| RT10-61 | Piston Rod Assembly | 4222 2128 59 |
| RT10-62 | Housing Seal Kit | 4222 2106 36 |
| RT10-63 | Drive Pawl Assembly | 4222 2106 39 |
| RT10-63-1 | Drive Pawl Assembly part 1 | 4222 2106 40 |
| RT10-63-2 | Drive Pawl Assembly part 2 | 4222 2106 41 |
| RT10-64 | Roll Pin Kit | 4222 2128 62 |
| RT10-65 | Spring Kit | 4222 2128 65 |

## RT-20

| Description | extra Description | part number |
|---|---|---|
| RT20-01 | Housing | 4222 2128 68 |
| RT20-03 | Reaction Arm Assembly | 4222 2128 71 |
| RT20-04 | Drive Plate | 4222 2128 74 |
| RT20-05 | Square Drive | 4222 2128 77 |
| RT20-06 | Ratchet Spline | 4222 2128 80 |
| RT20-07 | Drive Bushing | 4222 2106 42 |
| RT20-08 | Drive Sleeve Spine | 4222 2106 45 |
| RT20-10 | Reaction Pawl | 4222 2128 83 |
| RT20-11 | Drive Retainer | 4222 2106 48 |
| RT20-13 | Drive Plate Roll Pin | 4222 2128 86 |
| RT20-15 | Disengagement Lever w/Screw | 4222 2106 51 |
| RT20-17 | Piston Rod Connector | 4222 2128 89 |
| RT20-18 | Reaction Pawl Spring | 4222 2128 92 |
| RT20-19 | Rod End Pin | 4222 2106 54 |
| RT20-20 | Drive Sleeve Retaining Ring | 4222 2128 95 |
| RT20-24 | Piston Sleeve with Seal | 4222 2128 98 |
| RT20-25 | Piston with Seal | 4222 2129 01 |
| RT20-26 | Cylinder End Cap | 4222 2129 04 |
| RT20-27 | Drive Pawl Spring | 4222 2129 07 |
| RT20-28 | Reaction Arm Lever | 4222 2129 10 |
| RT20-29 | Piston Rod | 4222 2129 13 |
| RT20-31 | Shroud | 4222 2129 16 |
| RT20-32 | Shroud Screws | 4222 2129 19 |
| RT20-33 | Secondary Drive Plate Spring | 4222 2129 22 |
| RT20-34 | Reaction Arm Plate | 4222 2129 25 |
| RT20-37 | Reaction Arm Plate Screws | 4222 2129 28 |
| RT20-38 | Reaction Arm Lever Spring | 4222 2129 26 |
| RT20-39 | Disengagement Lever Screw | 4222 2129 27 |
| RT20-40 | Primary Drive Pawl Roll Pin | 4222 2129 29 |
| RT20-41 | Secondary Drive Pawl Roll Pin | 4222 2129 30 |
| RT20-42 | Reaction Pawl Roll Pin | 4222 2129 32 |
| RT20-43 | Reaction Arm Boot with Pins | 4222 2129 33 |
| RT20-61 | Piston Rod Assembly | 4222 2129 31 |
| RT20-62 | Housing Seal Kit | 4222 2106 57 |
| RT20-63 | Drive Pawl Assembly | 4222 2129 34 |

## RT-25

| Description | extra Description | part number |
|---|---|---|
| RT25-01 | Housing | 4222 2129 37 |
| RT25-03 | Reaction Arm Assembly | 4222 2106 60 |
| RT25-04 | Drive Plate | 4222 2129 40 |
| RT25-05 | Square Drive | 4222 2129 43 |
| RT25-06 | Ratchet Spline | 4222 2129 46 |
| RT25-07 | Drive Bushing | 4222 2129 49 |
| RT25-08 | Drive Sleeve Spine | 4222 2129 52 |
| RT25-10 | Reaction Pawl | 4222 2106 63 |
| RT25-11 | Drive Retainer | 4222 2129 55 |
| RT25-13 | Drive Plate Roll Pin | 4222 2129 58 |
| RT25-15 | Disengagement Lever w/Screw | 4222 2106 66 |
| RT25-17 | Piston Rod Connector | 4222 2129 61 |
| RT25-18 | Reaction Pawl Spring | 4222 2129 64 |
| RT25-19 | Rod End Pin | 4222 2129 67 |
| RT25-20 | Drive Sleeve Retaining Ring | 4222 2129 70 |
| RT25-24 | Piston Sleeve with Seal | 4222 2129 73 |
| RT25-25 | Piston with Seal | 4222 2106 69 |
| RT25-26 | Cylinder end cap | 4222 2106 70 |
| RT25-28 | Reaction Arm Lever | 4222 2129 76 |
| RT25-29 | Piston Rod | 4222 2129 79 |
| RT25-31 | Shroud | 4222 2129 82 |
| RT25-37 | Reaction Arm Plate Screw | 4222 2129 85 |
| RT25-38 | Reaction Arm Lever Spring | 4222 2129 88 |
| RT25-43 | Reaction Arm Boot with Pins | 4222 2129 91 |
| RT25-59 | Shroud Spring | 4222 2129 94 |
| RT25-61 | Piston Rod Assembly | 4222 2129 97 |
| RT25-62 | Housing Seal Kit | 4222 2106 72 |
| RT25-63 | Drive Pawl Assembly | 4222 2106 75 |

## RT-50

| Description | extra Description | part number |
|---|---|---|
| RT50-05 | Square Drive | 4222 2130 27 |
| RT50-07 | Drive Bushing | 4222 2106 78 |
| RT50-08 | Drive Sleeve Spine | 4222 2130 30 |
| RT50-11 | Drive Retainer | 4222 2130 33 |
| RT50-15 | Disengagement Lever with Screw | 4222 2130 36 |
| RT50-19 | Rod End Pin | 4222 2130 39 |
| RT50-28 | Reaction Arm Lever | 4222 2106 82 |
| RT50-31 | Shroud | 4222 2130 42 |
| RT50-32 | Shroud Screws | 4222 2130 45 |
| RT50-43 | Reaction Arm Boot | 4222 2130 51 |
| RT50-62 | Housing Seal Kit | 4222 2106 81 |





Hydraulic Torque Wrenches

# RTX SERIES
## LOW PROFILE HYDRAULIC TORQUE WRENCH

RTX Series is the ultimate hydraulic torque wrench for flange work.

When Rapid-Torc® engineers saw the direct fit tools available on the market, they knew there could be a better way. The result is a lightweight, quality-built, durable and safe hydraulic torque wrench. Hands-free operation, high quality components and superior manufacturing makes RTX the ideal choice for torquing flanges.

From design, to manufacturing and calibration, RTX Series is a purpose-built machine. It stands second to none.

RTX Direct Fit Hydraulic Torque Wrench Key Features
Made in the USA
6 Models from 255 ft.lb. to 31,800 ft. lb. (346Nm to 43,108 Nm)
Repeatability at +/-1%
Output accuracy certified at +/-3%
Largest hex size range available

MULTI-AXIS SWIVEL
Greater range of movement on multiple axis allows the hose to move easier compared to one axis swivels.

AUTOMATIC ENGAGEMENT
The powerhead engages the direct fit ratchet link automatically.

AIRCRAFT ALUMINUM ALLOY
Most of the exterior is made up of aircraft-quality aluminum alloy, which provides amazing strength while keeping weight to a minimum.

CONNECTS WITH JUST ONE PIN
Using just one high strength pin to connect allows operators to quickly change out link sizes.

LARGEST HEX RANGE
Largest range of hex sizes available. Torque output is consistent for any link size. Available in Reduced Radius and 12 point.

REACTION OPTIONS AVAILABLE
The in-line reaction pad works beautifully on most applications. For special applications, Rapid-Torc® offers onside reaction arms and Alco arms to increase reaction points.

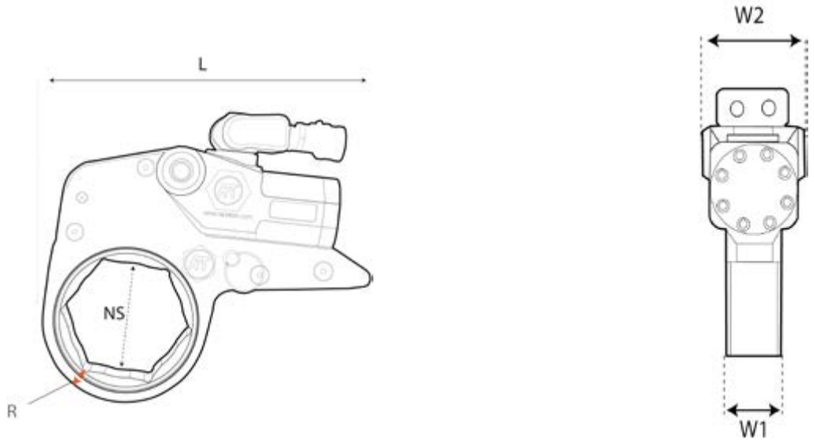
HIGH STRENGTH STEEL ALLOY
Heavy duty contact points ensure long tool life.

RTX-8 finishing up a flange application. The RTX works perfectly on applications with long studs.

RTX-4 quickly, easily and safely tightening BOP bolts. even with limited clearance.

Hydraulic Torque Wrenches

## RTX Direct Fit Low Profile Dimensions




| | Dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | L | | NS (based on ratchet link size) | | R | | W1 | | W2 | |
| Model | in | mm | in | mm | in | mm | in | mm | in | mm |
| RTX-2 | 7.2 | 183 | ¾ – 2 9/16 | 19-65 | 0.35 | 9 | 1.26 | 32 | 1.92 | 49 |
| RTX-4 | 9.7 | 248 | 1 5/16- 3 ⅛ | 32-80 | 0.47 | 12 | 1.65 | 42 | 2.56 | 65 |
| RTX-8 | 12.1 | 308 | 1 13/16 - 3⅜ | 46-100 | 0.59 | 15 | 2.08 | 53 | 3.22 | 82 |
| RTX-14 | 14.6 | 372 | 2 – 4 5/8 | 50-120 | 0.72 | 18.5 | 2.48 | 63 | 3.89 | 99 |
| RTX-18 | 15.5 | 393 | 3 - 5 ½ | 75-140 | .87 | 22.2 | 2.75 | 70 | 4.37 | 111 |
| RTX-30 | 18 | 457 | 3 9/16- 6 ⅛ | 90-155 | 1 | 25.4 | 3.26 | 83 | 5.28 | 132 |



## Torque Range and Hex Ranges by Model

RTX Powerhead and Ratchet Links combine to make the low profile hydraulic torque wrench. Powerhead and ratchet links have separate ordering numbers.

**RTX Powerhead***
Choose your torque range.

**Direct Fit Ratchet Links**
Choose the Across Flat Hex Link Size* needed for your application. Available in Reduced Radius#.

| | Ratchet Link Hex Size* | | Torque Range | | Weight | | |
|---|---|---|---|---|---|---|---|
| Model | in | mm | ft.lb. | Nm | lbs | kg | Ordering No. |
| RTX-2 | ¾ – 2 ¾ | 19-65 | 255-1710 | 346-2318 | 4.5 | 2 | 8434 2021 90 |
| RTX-4 | 1 - 3 ⅛ | 25-85 | 580-3855 | 786-5226 | 9.7 | 4.4 | 8434 2021 95 |
| RTX-8 | 1 ⅝- 4 ⅛ | 46-105 | 1143-8151 | 1549-11049 | 19.5 | 9 | 8434 2022 00 |
| RTX-14 | 2 ½ – 5 ⅜ | 60-135 | 2010-13400 | 2725-18165 | 33 | 15 | 8434 2116 58 |
| RTX-18 | 3 ½ -5 ½ | 75-140 | 2676-17845 | 3628-24191 | 51 | 23 | 8434 2022 05 |
| RTX-30 | 3 ½ -6 ½ | 90-165 | 4770-31800 | 6466-43108 | 78 | 35.5 | 8434 2022 10 |

*RTX Hydraulic Torque Wrench is uniquely designed to have consistent torque output, regardless of hex size link. That means that you don't have to worry about different torque charts when changing direct hex link size.
#Reduced Radius Ratchets (RR) are .062" (1.57 mm) reduction compared to the standard size links.

# RTX-2 Direct Fit Ratchet Link Sizes

The following is a standard list of ratchet link sizes for use with RTX Powerheads. No matter the size link, you still only need one torque chart per powerhead Model.

Use the following link sizes with RTX-2, which has a torque range of 255 to 1710 ft. lb.

Links for RTX-2

| Model | Description | Ordering no. |
|---|---|---|
| RL02-17MM | Ratchet Link 17mm | 8434 2132 41 |
| RL02-19MM | Ratchet Link 19mm | 8434 2132 44 |
| RL02-19MM RR* | Ratchet Link 19mm-RR* | 8434 2132 47 |
| RL02-22MM | Ratchet Link 22mm | 8434 2132 74 |
| RL02-24MM | Ratchet Link 24mm | 8434 2020 54 |
| RL02-27MM | Ratchet Link 27mm | 8434 2020 57 |
| RL02-30MM | Ratchet Link 30mm | 8434 2132 77 |
| RL02-104/32MM | Ratchet Link 1 1/4"-32mm | 8434 2132 08 |
| RL02-36MM | Ratchet Link 36mm | 8434 2132 80 |
| RL02-41MM | Ratchet Link 41mm | 8434 2132 83 |
| RL02-113/46MM | Ratchet Link 1 13/16"-46 | 8434 2132 32 |
| RL02-113/46MM RR* | Ratchet Link 1 13/16"RR* | 8434 2132 35 |
| RL02-55MM | Ratchet Link 55mm | 8434 2132 86 |
| RL02-60MM | Ratchet Link 60mm | 8434 2059 28 |
| RL02-209/65MM | Ratchet Link 2 9/16"-65 | 8434 2021 50 |
| RL02-70MM | Ratchet Link 70mm | 8434 2059 29 |
| RL02-75MM | Ratchet Link 75mm | 8434 2132 92 |
| RL02-50MM | Ratchet Link 50mm | 8434 2021 86 |

| Model | Description | Ordering no. |
|---|---|---|
| RL02-012 | Ratchet Link 3/4" | 8434 2131 84 |
| RL02-014 | Ratchet Link 7/8 | 8434 2020 00 |
| RL02-100 | Ratchet Link 1" | 8434 2020 03 |
| RL02-100-12pt* | Ratchet Link 1"-12pt* | 8434 2131 93 |
| RL02-101/27MM | Ratchet Link 1 1/16"-27 | 8434 2131 96 |
| RL02-102 | Ratchet Link 1 1/8" | 8434 2131 99 |
| RL02-102 12pt* | Ratchet Link 1 1/8"-12pt* | 8434 2132 02 |
| RL02-103 | Ratchet Link 1 3/16" | 8434 2132 05 |
| RL02-104 | Ratchet Link 1 1/4" | 8434 2021 69 |
| RL02-104-12pt* | Ratchet Link 1 1/4"-32-12pt* | 8434 2132 11 |
| RL02-107 | Ratchet Link 1 7/16" | 8434 2021 68 |
| RL02-107 RR* | Ratchet Link 1 7/16" RR* | 8434 2021 83 |
| RL02-110 | Ratchet Link 1 5/8" | 8434 2021 07 |
| RL02-110 RR* | Ratchet Link 1 5/8" RR* | 8434 2021 08 |
| RL02-113/46MM | Ratchet Link 1 13/16"-46 | 8434 2132 32 |
| RL02-113/46MM RR* | Ratchet Link 1 13/16"RR* | 8434 2132 35 |
| RL02-200 | Ratchet Link 2" | 8434 2132 50 |
| RL02-200 RR* | Ratchet Link 2" RR* | 8434 2021 74 |
| RL02-203 | Ratchet Link 2 3/16" | 8434 2132 59 |
| RL02-206 | Ratchet Link 2 3/8" | 8434 2021 47 |
| RL02-209/65MM | Ratchet Link 2 9/16"-65 | 8434 2021 50 |
| RL02-212 | Ratchet Link 2 3/4" | 8434 2021 59 |
| RL02-215 | Ratchet Link 2 15/16" | 8434 2021 77 |

12 Point Hexagonal, Reduced Radius and Custom Sizes available upon request.



# RTX-4 Direct Fit Ratchet Link Sizes

Use the following link sizes with RTX-4, which has a torque range of 580 to 3,855 ft. lb.

Links for RTX-4

| Model | Description | Ordering no. |
|---|---|---|
| RL04-22MM | Ratchet Link 22mm | 8434 2133 94 |
| RL04-24MM | Ratchet Link 24MM | 8434 2133 93 |
| RL04-27MM | Ratchet Link 27mm | 8434 2020 63 |
| RL04-30MM | Ratchet Link 30mm | 8434 2134 12 |
| RL04-32MM | Ratchet Link 32mm | 8434 2020 15 |
| RL04-32MM 12pt* | Ratchet Link 32mm-12pt* | 8434 2134 15 |
| RL04-36MM | Ratchet Link 36mm | 8434 2134 18 |
| RL04-41MM | Ratchet Link 41mm | 8434 2134 21 |
| RL04-113/46MM | Ratchet Link 1 13/16"-46 | 8434 2021 53 |
| RL04-113/46MM RR* | Ratchet Link 1 13/16"-46-RR* | 8434 2116 01 |
| RL04-50MM | Ratchet Link 50mm | 8434 2134 30 |
| RL04-55MM | Ratchet Link 55mm | 8434 2134 36 |
| RL04-55MM-RR* | Ratchet Link 55mm-RR* | 8434 2134 39 |
| RL04-60MM | Ratchet Link 60mm | 8434 2134 45 |
| RL04-209/65MM | Ratchet Link 2 9/16" | 8434 2133 70 |
| RL04-70MM | Ratchet Link 70mm | 8434 2021 62 |
| RL04-75MM | Ratchet Link 75mm | 8434 2020 21 |
| RL04-80MM | Ratchet Link 80mm | 8434 2134 51 |
| RL04-85MM | Ratchet Link 85mm | 8434 2134 54 |
| RL04-90MM | Ratchet Link 90mm | 8434 2059 30 |
| RL04-95MM | Ratchet Link 95mm | 8434 2059 31 |
| RL04-100MM | Ratchet Link 100mm | 8434 2059 32 |

| Model | Description | Ordering no. |
|---|---|---|
| RL04-100 | Ratchet Link 1" | 8434 2133 22 |
| RL04-101 | Ratchet Link 1 1/16" | 8434 2059 33 |
| RL04-104 | Ratchet Link 1 1/4" | 8434 2133 28 |
| RL04-104-12pt* | Ratchet Link 1 1/4"-12pt* | 8434 2133 31 |
| RL04-107 | Ratchet Link 1 7/16" | 8434 2020 09 |
| RL04-110 | Ratchet Link 1 5/8" | 8434 2021 35 |
| RL04-113/46MM | Ratchet Link 1 13/16"-46 | 8434 2021 53 |
| RL04-113/46MM RR* | Ratchet Link 1 13/16"-46-RR* | 8434 2116 01 |
| RL04-200 | Ratchet Link 2" | 8434 2133 49 |
| RL04-203 | Ratchet Link 2 3/16" | 8434 2021 71 |
| RL04-206 | Ratchet Link 2 3/8" | 8434 2133 64 |
| RL04-209/65MM | Ratchet Link 2 9/16" | 8434 2133 70 |
| RL04-212 | Ratchet Link 2 3/4" | 8434 2133 79 |
| RL04-212-RR* | Ratchet Link 2 3/4"-RR* | 8434 2133 82 |
| RL04-215 | Ratchet Link 2 15/16" | 8434 2133 91 |
| RL04-302 | Ratchet Link 3 1/8" | 8434 2134 06 |
| RL04-308 | Ratchet Link 3 1/2" | 8434 2134 09 |

12 Point Hexagonal, Reduced Radius and Custom Sizes available upon request.



Hydraulic Torque Wrenches

# RTX-8 Ratchet Link Sizes

Use the following link sizes with RTX-8, which has a torque range of 1,143 to 8,151 ft. lb.

Links for RTX-8

| model | description | ordering no. |
|---|---|---|
| RL08-36MM | Ratchet Link 36mm | 8434 2059 34 |
| RL08-41MM | Ratchet Link 41mm | 8434 2020 30 |
| RL08-46MM | Ratchet Link 1 13/16"-46 | 8434 2020 66 |
| RL08-50MM | Ratchet Link 50mm | 8434 2135 47 |
| RL08-55MM | Ratchet Link 55mm | 8434 2135 53 |
| RL08-60MM | Ratchet Link 60mm | 8434 2135 56 |
| RL08-65MM | Ratchet Link 2 9/16"-65 | 8434 2116 04 |
| RL08-70MM | Ratchet Link 70mm | 8434 2135 59 |
| RL08-75MM | Ratchet Link 75mm | 8434 2135 65 |
| RL08-80MM | Ratchet Link 80mm | 8434 2135 74 |
| RL08-85MM | Ratchet Link 85mm | 8434 2021 11 |
| RL08-90MM | Ratchet Link 90mm | 8434 2020 81 |
| RL08-95MM | Ratchet Link 95mm | 8434 2020 82 |
| RL08-100MM | Ratchet Link 100mm | 8434 2020 24 |

| model | description | ordering no. |
|---|---|---|
| RL08-113/46MM | Ratchet Link 1 13/16"-46 | 8434 2020 66 |
| RL08-200 | Ratchet Link 2" | 8434 2020 68 |
| RL08-203 | Ratchet Link 2 3/16" | 8434 2020 69 |
| RL08-206 | Ratchet Link 2 3/8" | 8434 2020 70 |
| RL08-209/65MM | Ratchet Link 2 9/16"-65 | 8434 2116 04 |
| RL08-212 | Ratchet Link 2 3/4" | 8434 2021 44 |
| RL08-215 | Ratchet Link 2 15/16" | 8434 2020 71 |
| RL08-300 | Ratchet Link 3" | 8434 2059 35 |
| RL08-302 | Ratchet Link 3 1/8" | 8434 2020 72 |
| RL08-308 | Ratchet Link 3 1/2" | 8434 2020 74 |
| RL08-314 | Ratchet Link 3 7/8" | 8434 2021 65 |
| RL08-401 | Ratchet Link 4 1/16" | 8434 2020 75 |

12 Point Hexagonal, Reduced Radius and Custom Sizes available upon request.



# RTX-14 Ratchet Link Sizes

Use the following link sizes with RTX-14, which has a torque range of 2,010 to 13,400 ft. lb.

Links for RTX-14

| Model | Description | Ordering no. |
|---|---|---|
| RL14-50MM | Ratchet Link 50mm | 8434 2059 36 |
| RL14-55MM | Ratchet Link 55mm | 8434 2059 37 |
| RL14-60MM | Ratchet Link 60mm | 8434 2136 61 |
| RL14-65MM | Ratchet Link 2 9/16"-65 | 8434 2020 39 |
| RL14-70MM | Ratchet Link 70MM | 8434 2136 66 |
| RL14-75MM | Ratchet Link 75mm | 8434 2021 29 |
| RL14-80MM | Ratchet Link 80mm | 8434 2021 20 |
| RL14-85MM | Ratchet Link 85mm | 8434 2021 32 |
| RL14-90MM | Ratchet Link 90mm | 8434 2021 38 |
| RL14-95MM | Ratchet Link 95MM | 8434 2021 39 |
| RL14-100MM | Ratchet Link 100mm | 8434 2059 38 |
| RL14-105MM | Ratchet Link 105mm | 8434 2059 39 |
| RL14-110MM | Ratchet Link 110MM | 8434 2059 40 |
| RL14-115MM | Ratchet Link 115MM | 8434 2059 41 |
| RL14-120MM | Ratchet Link 120MM | 8434 2059 42 |

| Model | Description | Ordering no. |
|---|---|---|
| RL14-200 | Ratchet Link 2" | 8434 2020 33 |
| RL14-203 | Ratchet Link 2 3/16" | 8434 2020 36 |
| RL14-206 | Ratchet Link 2 3/8" | 8434 2136 13 |
| RL14-209/65MM | Ratchet Link 2 9/16"-65 | 8434 2020 39 |
| RL14-212/70MM | Ratchet Link 2 3/4"-70 | 8434 2021 17 |
| RL14-215 | Ratchet Link 2 15/16" | 8434 2021 05 |
| RL14-300 | Ratchet Link 3" | 8434 2136 25 |
| RL14-302 | Ratchet Link 3 1/8" | 8434 2136 31 |
| RL14-308 | Ratchet Link 3 1/2" | 8434 2136 34 |
| RL14-314 | Ratchet Link 3 7/8" | 8434 2020 45 |
| RL14-401 | Ratchet Link 4 1/16" | 8434 2021 26 |
| RL14-404 | Ratchet Link 4 1/4" | 8434 2020 84 |
| RL14-410 | Ratchet Link 4 5/8" | 8434 2136 55 |

12 Point Hexagonal, Reduced Radius and Custom Sizes available upon request.

# RTX-18 Ratchet Link Sizes

Use the following link sizes with RTX-18, which has a torque range of 2,676 to 17,845 ft lb.

Links for RTX-18

| Model | Description | Ordering no. |
|---|---|---|
| RL18-209/65MM | Ratchet Link 2 9/16"-65 | 8434 2137 12 |
| RL18-70MM | Ratchet Link 70MM | 8434 2059 43 |
| RL18-75MM | Ratchet Link 75MM | 8434 2137 16 |
| RL18-80MM | Ratchet Link 80mm | 8434 2137 18 |
| RL18-85MM | Ratchet Link 85mm | 8434 2137 21 |
| RL18-90MM | Ratchet Link 90mm | 8434 2137 24 |
| RL18-100MM | Ratchet Link 100mm | 8434 2020 88 |
| RL18-110MM | Ratchet Link 110mm | 8434 2136 94 |
| RL18-115MM | Ratchet Link 115mm | 8434 2136 97 |
| RL18-120MM | Ratchet Link 120mm | 8434 2137 00 |
| RL18-130MM | Ratchet Link 130mm | 8434 2137 03 |
| RL18-135MM | Ratchet Link 135mm | 8434 2137 06 |
| RL18-140MM | Ratchet Link 140mm | 8434 2020 89 |
| RL18-145MM | Ratchet Link 145mm | 8434 2020 94 |
| RL18-150MM | Ratchet Link 150mm | 8434 2059 44 |
| RL18-155MM | Ratchet Link 155mm | 8434 2059 45 |

| Model | Description | Ordering no. |
|---|---|---|
| RL18-209 | Ratchet Link 3 9/16" | 8434 2059 46 |
| RL18-212 | Ratchet Link 3 3/4" | 8434 2059 47 |
| RL18-215 | Ratchet Link 3 15/16" | 8434 2059 48 |
| RL18-300 | Ratchet Link 3" | 8434 2137 13 |
| RL18-302 | Ratchet Link 3 1/8" | 8434 2137 08 |
| RL18-308 | Ratchet Link 3 1/2" | 8434 2020 87 |
| RL18-314 | Ratchet Link 3 7/8" | 8434 2137 15 |
| RL18-401 | Ratchet Link 4 1/16" | 8434 2020 47 |
| RL18-404 | Ratchet Link 4 1/4" | 8434 2020 48 |
| RL18-410 | Ratchet Link 4 5/8" | 8434 2020 93 |
| RL18-500 | Ratchet Link 5" | 8434 2021 56 |
| RL18-506 | Ratchet Link 5 3/8" | 8434 2021 23 |
| RL18-512 | Ratchet Link 5 3/4" | 8434 2020 96 |
| RL18-515 | Ratchet Link 5 15/16" | 8434 2021 24 |
| RL18-602 | Ratchet Link 6 1/8" | 8434 2021 25 |

12 Point Hexagonal, Reduced Radius and Custom Sizes available upon request.



# RTX-30 Ratchet Link Sizes

Use the following link sizes with RTX-30, which has a torque range of 4,770 to 31,800 ft lb.

Links for RTX-30

| Model | Description | Ordering no. |
|---|---|---|
| RL30-312/95MM | Ratchet Link 3 3/4"-95 | 8434 2137 84 |
| RL30-100MM | Ratchet Link 100mm | 8434 2137 33 |
| RL30-105MM | Ratchet Link 105mm | 8434 2137 36 |
| RL30-110MM | Ratchet Link 110mm | 8434 2137 39 |
| RL30-115MM | Ratchet Link 115mm | 8434 2137 42 |
| RL30-120MM | Ratchet Link 120mm | 8434 2137 45 |
| RL30-125MM | Ratchet Link 125mm | 8434 2137 51 |
| RL30-130MM | Ratchet Link 130mm | 8434 2020 53 |
| RL30-135MM | Ratchet Link 135mm | 8434 2137 54 |
| RL30-140MM | Ratchet Link 140MM | 8434 2138 21 |
| RL30-145MM | Ratchet Link 145mm | 8434 2137 57 |
| RL30-150MM | Ratchet Link 150mm | 8434 2137 60 |
| RL30-155MM | Ratchet Link 155mm | 8434 2137 63 |
| RL30-160MM | Ratchet Link 160mm | 8434 2137 66 |
| RL30-170MM | Ratchet Link 170mm | 8434 2137 69 |
| RL30-175MM | Ratchet Link 175MM | 8434 2138 22 |

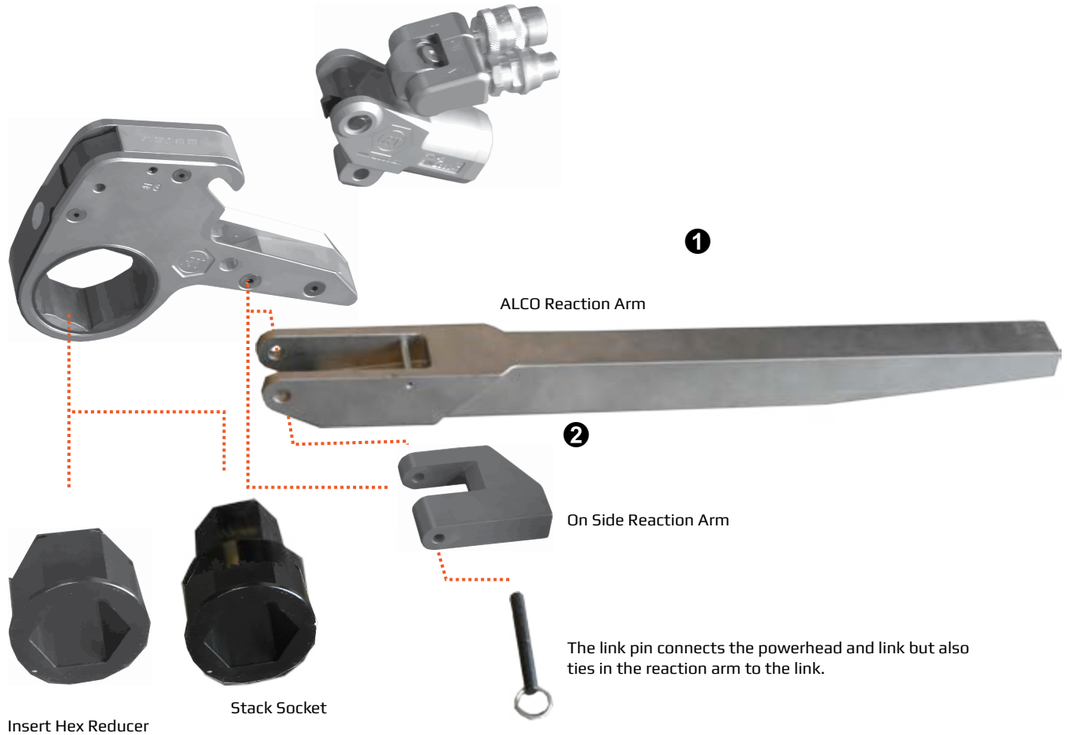
| Model | Description | Ordering no. |
|---|---|---|
| RL30-314 | Ratchet Link 3 7/8" | 8434 2137 87 |
| RL30-401 | Ratchet Link 4 1/16" | 8434 2137 88 |
| RL30-404 | Ratchet Link 4 1/4" | 8434 2137 90 |
| RL30-410 | Ratchet Link 4 5/8" | 8434 2021 00 |
| RL30-500 | Ratchet Link 5" | 8434 2020 99 |
| RL30-506 | Ratchet Link 5 3/8" | 8434 2020 51 |
| RL30-512 | Ratchet Link 5 3/4" | 8434 2137 93 |
| RL30-515 | Ratchet Link 5 15/16" | 8434 2137 96 |
| RL30-602 | Ratchet Link 6 1/8" | 8434 2020 59 |
| RL30-614 | Ratchet Link 6 7/8" | 8434 2059 49 |
| RL30-710 | Ratchet Link 7 5/8" | 8434 2059 50 |

12 Point Hexagonal, Reduced Radius and Custom Sizes available upon request.



Hydraulic Torque Wrenches

# RTX Series Hydraulic Torque Wrench Accessories




## 1 ALCO Reaction Arm

| Model | Description | Ordering no. |
|---|---|---|
| RTX02-ALC | Alco Arm | 8434 2057 58 |
| RTX04-ALC | Alco Arm | 8434 2057 60 |
| RTX08-ALC | Alco Arm | 8434 2057 62 |
| RTX14-ALC | Alco Arm | 8434 2057 64 |
| RTX18-ALC | Alco Arm | 8434 2057 66 |
| RTX30-ALC | Alco Arm | 8434 2057 67 |

## 2 On Side Reaction Arm

| Model | Description | Ordering no. |
|---|---|---|
| RTX02-14 | On Side Reaction Arm | 4222 2107 14 |
| RTX04-14 | On Side Reaction Arm | 4222 2109 27 |
| RTX08-14 | On Side Reaction Arm | 4222 2110 44 |
| RTX14-14 | On Side Reaction Arm | 4222 2141 22 |
| RTX30-14 | On Side Reaction Arm | 4222 2144 43 |
| RTX02-14-L* | On Side Reaction Arm L | 4222 2116 67 |

ALCO reaction arm

Onside Reaction

Insert Hex Reducer



## 3 Insert Hex Reducer

| Model | Starting Size | Reduces to | Ordering no. |
|---|---|---|---|
| RL02-INS-108/105 | 1 1/2 | 1 5/16 | 4222 2133 93 |
| RL02-INS-204/105 | 2 1/14 | 1 5/16 | 4222 2133 96 |
| RL02-INS-204/108 | 2 1/4 | 1 1/2 | 4222 2133 99 |
| RL02-INS-204/114 | 2 1/4 | 1 7/8 | 4222 2134 02 |
| RL02-INS-212/103 | 2 3/4 | 1 3/16 | 4222 2134 05 |
| RL02-INS-212/107 | 2 3/4 | 1 7/16 | 4222 2134 08 |
| RL02-INS-212/108 | 2 3/4 | 1 1/2 | 4222 2134 11 |
| RL02-INS-212/109 | 2 3/4 | 1 9/16 | 4222 2134 14 |
| RL02-INS-212/110 | 2 3/4 | 1 5/8 | 4222 2134 17 |
| RL02-INS-212/113 | 2 3/4 | 1 13/16 | 4222 2134 20 |
| RL02-INS-212/114 | 2 3/4 | 1 7/8 | 4222 2134 23 |
| RL02-INS-46/36 | 46mm | 36mm | 4222 2134 26 |
| RL02-INS-50/41 | 50mm | 41mm | 4222 2134 29 |
| RL02-INS-50/46 | 50mm | 46mm | 4222 2134 32 |
| RL04-INS-113/30MM | 1 13/16 | 30mm | 4222 2119 58 |
| RL04-INS-113/36MM | 1 13/16 | 36mm | 4222 2119 62 |
| RL04-INS-113/42MM | 1 13/16 | 42mm | 4222 2119 66 |
| RL04-INS-200/112 | 2 | 1 3/4 | 4222 2137 74 |
| RL04-INS-200/113 | 2 | 1 13/16 | 4222 2137 77 |
| RL04-INS-204/105 | 2 1/4 | 1 5/16 | 4222 2137 80 |
| RL04-INS-204/108 | 2 1/4 | 1 1/2 | 4222 2137 83 |
| RL04-INS-204/114 | 2 1/4 | 1 7/8 | 4222 2137 86 |
| RL04-INS-208/114 | 2 1/2 | 1 7/8 | 4222 2119 70 |
| RL04-INS-212/ 208 | 2 3/4 | 2 1/2 | 4222 2137 89 |
| RL04-INS-212/201 | 2 3/4 | 2 1/16 | 4222 2137 92 |
| RL04-INS-212/202 | 2 3/4 | 2 1/8 | 4222 2137 95 |
| RL04-INS-212/203 | 2 3/4 | 2 3/16 | 4222 2137 98 |
| RL04-INS-212/204 | 2 3/4 | 2 1/4 | 4222 2138 01 |
| RL04-INS-212/206 | 2 3/4 | 2 3/8 | 4222 2138 04 |
| RL04-INS-215/209 | 2 15/16 | 2 9/16 | 4222 2138 07 |
| RL04-INS-302/100 | 3 1/8 | 1 | 4222 2138 10 |
| RL04-INS-302/108 | 3 1/8 | 1 1/2 | 4222 2138 13 |
| RL04-INS-302/110 | 3 1/8 | 1 5/8 | 4222 2138 16 |
| RL04-INS-302/112 | 3 1/8 | 1 3/4 | 4222 2138 19 |
| RL04-INS-302/200 | 3 1/8 | 1 | 4222 2138 22 |
| RL04-INS-302/206 | 3 1/8 | 2 3/8 | 4222 2138 25 |

| Model | Starting Size | Reduces to | Ordering no. |
|---|---|---|---|
| RL04-INS-50/19 | 50mm | 19mm | 4222 2138 28 |
| RL04-INS-50/32 | 50mm | 32mm | 4222 2138 31 |
| RL04-INS-50/41 | 50mm | 41mm | 4222 2138 34 |
| RL04-INS-50/42 | 50mm | 42mm | 4222 2138 37 |
| RL04-INS-50/46 | 50mm | 46mm | 4222 2138 40 |
| RL04-INS-55/50 | 55mm | 50mm | 4222 2138 43 |
| RL04-INS-65/55 | 65mm | 55mm | 4222 2119 74 |
| RL04-INS-70/60 | 70mm | 60mm | 4222 2119 78 |
| RL04-INS-70/65 | 70mm | 65mm | 4222 2119 82 |
| RL08-INS-100MM/80MM | 100mm | 80mm | 4222 2140 62 |
| RL08-INS-203/200 | 2 3/16 | 2 | 4222 2140 65 |
| RL08-INS-302/215 | 3 1/8 | 2 15/16 | 4222 2140 68 |
| RL08-INS-302/50MM | 3 1/8 | 50mm | 4222 2140 71 |
| RL08-INS-302/55MM | 3 1/8 | 55mm | 4222 2140 74 |
| RL08-INS-302/60MM | 3 1/8 | 60mm | 4222 2140 77 |
| RL08-INS-314/308 | 3 7/8 | 3 1/2 | 4222 2140 80 |
| RL08-INS-60/50 | 60mm | 50mm | 4222 2122 07 |
| RL08-INS-60/55 | 60mm | 55mm | 4222 2122 11 |
| RL08-INS-70/46 | 70mm | 46mm | 4222 2140 83 |
| RL08-INS-70/55 | 70mm | 55mm | 4222 2140 86 |
| RL08-INS-70/65 | 70mm | 65mm | 4222 2140 89 |
| RL08-INS-80/50 | 80mm | 50mm | 4222 2140 92 |
| RL08-INS-80/55 | 80mm | 55mm | 4222 2140 95 |
| RL08-INS-80/65 | 80mm | 65mm | 4222 2140 98 |
| RL08-INS-80/75 | 80mm | 75mm | 4222 2141 01 |
| RL08-INS-95/80 | 95mm | 80mm | 4222 2141 04 |
| RL14-INS-314/308 | 3 7/8 | 3 1/2 | 4222 2143 38 |
| RL14-INS-410/314 | 4 5/8 | 3 7/8 | 4222 2143 41 |
| RL14-INS-410/404 | 4 5/8 | 4 1/4 | 4222 2143 44 |
| RL18-INS-135/123 | 135mm | 123mm | 4222 2144 13 |
| RL18-INS-151/143 | 151mm | 143mm | 4222 2144 16 |
| RL18-INS-410/308 | 4 5/8 | 3 1/2 | 4222 2144 19 |
| RL18-INS-410/312 | 4 5/8 | 3 3/4 | 4222 2144 22 |
| RL30-INS-602/600 | 6 1/8 | 6 | 4222 2145 48 |

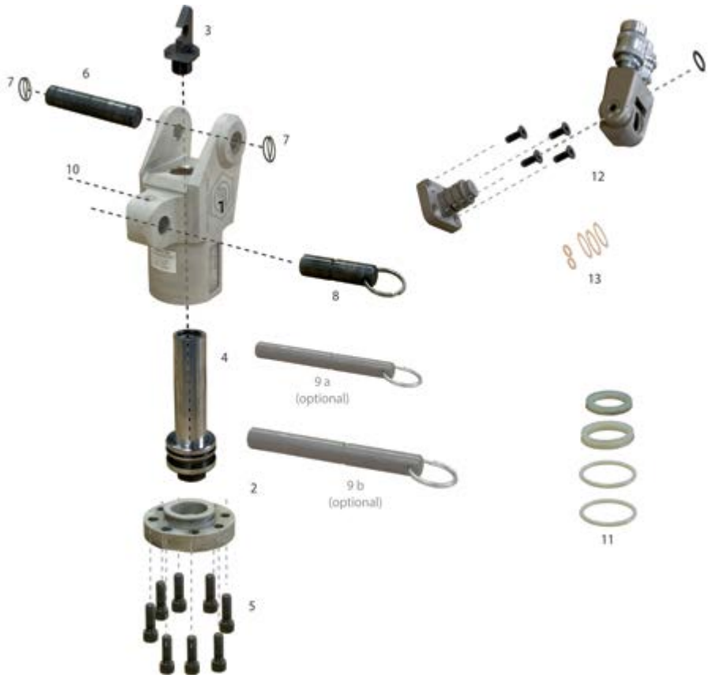
Insert Hex Reducers are available in custom sizes. Minimum reduction of 5mm/0.19685".

Don't forget to order your maintenance kits for RTX Powerhead or RL Ratchet Links. See page 30 for ordering information.



Hydraulic Torque Wrenches

# RTX Powerhead Parts List




Send in your tool for a yearly calibration. Our technicians are experts in keeping your tool in optimal working condition. Or you can opt to purchase our RTX maintenance kits.

## Powerhead Parts List

| | Description | Part Number |
|---|---|---|
| 1 | Housing | RTX-#-01 |
| 2 | End Cap | RTX-#-02 |
| 3 | Rod End | RTX-#-05 |
| 4 | Piston Rod Assembly | RTX-#-06 |
| 5 | Cylinder End Cap Screws | RTX-#-07 |
| 6 | Fixed Upper Pin | RTX-#-08 |
| 7 | Fixed Upper Pin Ring (2) | RTX-#-09 |
| 8 | Link Pin Short | RTX-#-10 |
| 9a | Link Pin Long for Alco Reaction Arm | RTX-#-11 |
| 9b | Link Pin XL for On Side Reaction Arm | RTX-#-11XL |
| 10 | Link Pin Retainer | RTX-#-12 |
| 11 | Housing Seal Kit | RTX-#-13 |
| 12 | Swivel Assembly 180 X 360 | RTX-#-62 |
| 13 | Swivel Seal Kit | RTX-#-63 |

## Powerhead Maintenance Kits

| Model | Description | Ordering no. |
|---|---|---|
| RTX02-MK | Maintenance Kit | 4222 2134 35 |
| RTX04-MK | Maintenance Kit | 4222 2138 46 |
| RTX08-MK | Maintenance Kit | 4222 2141 07 |
| RTX14-MK | Maintenance Kit | 4222 2143 47 |
| RTX18-MK | Maintenance Kit | 4222 2144 25 |
| RTX30-MK | Maintenance Kit | 4222 2145 51 |

**Maintenance Kits for RTX contain**
Housing Seal kit, Swivel Seal Kit, Link Pin for Alco Arm (if applicable), Link Pin Standard, Cylinder End Cap Screw, Fixed Upper Pin, Fixed Upper Ring, Rod End, Link Pin Retainer, 10,000psi/700bar Male & Female Coupler.



# RTX Direct Fit Ratchet Link Parts List

## Ratchet Link Maintenance Kits

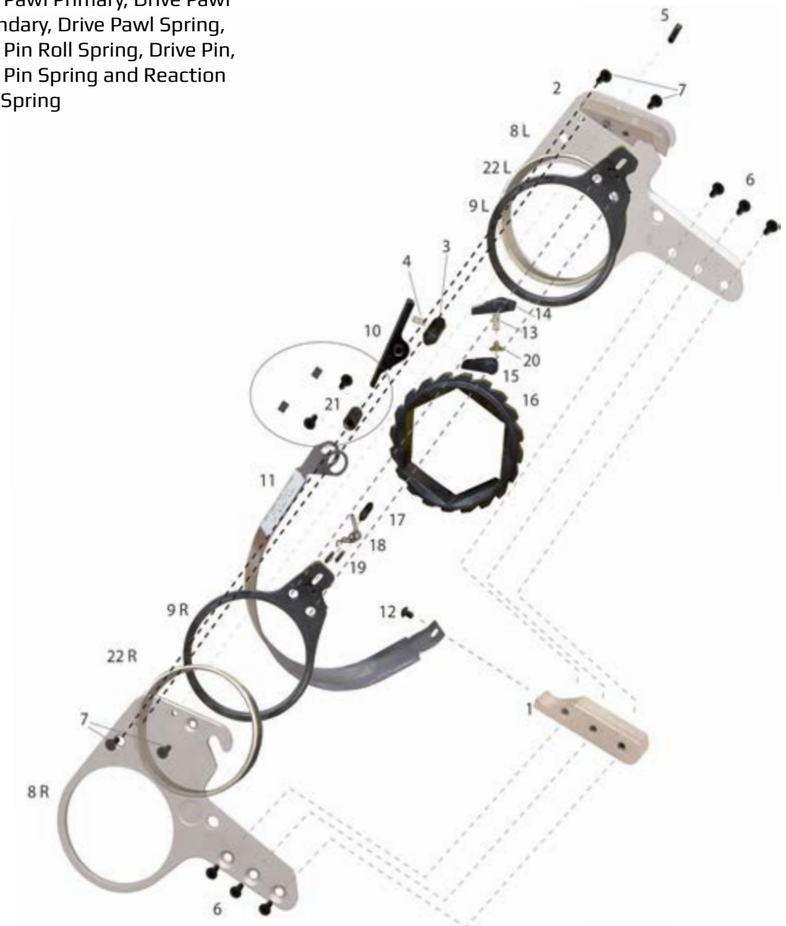
| Model | Description | Ordering no. |
|---|---|---|
| RL02-MK | Ratchet Link Maintenance Kit | 8434 2132 95 |
| RL04-MK | Ratchet Link Maintenance Kit | 8434 2134 57 |
| RL08-MK | Ratchet Link Maintenance Kit | 8434 2059 53 |
| RL14-MK | Ratchet Link Maintenance Kit | 8434 2136 73 |
| RL18-MK | Ratchet Link Maintenance Kit | 8434 2137 27 |
| RL30-MK | Ratchet Link Maintenance Kit | 8434 2138 23 |

**Maintenance Kits for Ratchet Links contain**
Drive Pawl Primary, Drive Pawl Secondary, Drive Pawl Spring, Drive Pin Roll Spring, Drive Pin, Drive Pin Spring and Reaction Pawl Spring

## Ratchet Link Parts List

| | Description | Part Number |
|---|---|---|
| 1 | Reaction Block Spacer | RTX-#-45 |
| 2 | Top Spacer | RTX-#-46 |
| 3 | Reaction Pawl Spring Spacer | RTX-#-47 |
| 4 | Reaction Pawl Spring | RTX-#-37 |
| 5 | Side Plate Roll Pin | RTX-#-48 |
| 6 | Side Plate Screw Bottom (4) | RTX-#-50 |
| 7 | Side Plate Screw Top (4) | RTX-#-51 |
| 8 | Side Plate (left or right) | RTX-#-52 |
| 9 | Drive Plate (left or right) | RTX-#-35 |
| 10 | Reaction Pawl | RTX-#-36 |

| | Description | Part Number |
|---|---|---|
| 11 | Shroud | RTX-#-43 |
| 12 | Shroud Screw | RTX-#-44 |
| 13 | Drive Pawl Spring | RTX-#-27 |
| 14 | Drive Pawl Primary | RTX-#-22 |
| 15 | Drive Pawl Secondary | RTX-#-23 |
| 16 | Ratchet | RTX-#-28 |
| 17 | Drive Pin | RTX-#-33 |
| 18 | Drive Pin Spring | RTX-#-34 |
| 19 | Drive Spring Roll Pin | RTX-#-32 |
| 20 | Spring Seat | RTX-#-49 |
| 21 | Reaction Pawl Pin | RTX-#-99 |
| 22 | Drive Plate Bushing | RTX-#-89 |






Hydraulic Torque Wrenches

# RTX-2 Spare Parts

## RTX-2 Powerhead Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX02-01 | Housing | 4222 2106 84 |
| RTX02-02 | End Cap | 4222 2106 87 |
| RTX02-05 | Rod End | 4222 2106 90 |
| RTX02-06 | Piston Rod Assembly | 4222 2106 93 |
| RTX02-07 | Cylinder End Cap Screw | 4222 2106 96 |
| RTX02-08 | Fixed Upper Pin | 4222 2106 99 |
| RTX02-09 | Fixed Upper Pin Ring | 4222 2107 02 |
| RTX02-10 | Link Pin Short | 4222 2107 05 |
| RTX02-11 | Link Pin Long (ALCO Arm Only) | 4222 2107 08 |
| RTX02-12 | Link Pin Retainer | 4222 2107 11 |
| RTX02-13 | Housing Seal Kit | 4222 2131 02 |

## RTX-2 Ratchet Link Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX02-14 | On Side Reaction Arm | 4222 2107 14 |
| RTX02-14-L* | On Side Reaction Arm L | 4222 2116 67 |
| RTX02-22 | Drive Pawl Primary | 4222 2107 17 |
| RTX02-23 | Drive Pawl Secondary | 4222 2107 20 |
| RTX02-27 | Drive Pawl Spring | 4222 2107 23 |
| RTX02-28-012 | Ratchet 3/4IN | 4222 2131 35 |
| RTX02-28-014 | Ratchet 7/8IN | 4222 2131 38 |
| RTX02-28-100 | Ratchet 1IN | 4222 2131 41 |
| RTX02-28-101 | Ratchet 1 1/16IN | 4222 2107 26 |
| RTX02-28-103 | Ratchet 1 3/16IN | 4222 2116 73 |
| RTX02-28-104 12p | Ratchet 1 1/4IN | 4222 2131 44 |
| RTX02-28-105 | Ratchet 1 5/16IN | 4222 2131 46 |
| RTX02-28-106 | Ratchet 1 3/8IN | 4222 2131 47 |
| RTX02-28-107 | Ratchet 1 7/16IN | 4222 2107 29 |
| RTX02-28-107 RR* | Ratchet RR* 1 7/16IN | 4222 2131 50 |
| RTX02-28-108 | Ratchet 1 1/2IN | 4222 2131 53 |
| RTX02-28-110 | Ratchet 1 5/8IN | 4222 2131 56 |
| RTX02-28-111 | Ratchet 1 11/16IN | 4222 2131 59 |
| RTX02-28-112 | Ratchet 1 3/4IN | 4222 2131 60 |
| RTX02-28-113 | Ratchet 1 13/16IN | 4222 2107 32 |
| RTX02-28-114 | Ratchet 1 7/8IN | 4222 2116 76 |
| RTX02-28-115 | Ratchet 1 15/16IN | 4222 2131 62 |
| RTX02-28-17MM | Ratchet 17MM | 4222 2131 63 |
| RTX02-28-19MM | Ratchet 19mm | 4222 2131 65 |
| RTX02-28-200 | Ratchet 2IN | 4222 2107 35 |
| RTX02-28-202 | Ratchet 2 1/8IN | 4222 2131 68 |
| RTX02-28-203 | Ratchet 2 3/16IN | 4222 2107 38 |
| RTX02-28-204 | Ratchet 2 1/4IN | 4222 2131 71 |
| RTX02-28-205 | Ratchet 2 5/16IN | 4222 2131 72 |
| RTX02-28-206 | Ratchet 2 3/8IN | 4222 2107 41 |
| RTX02-28-209 | Ratchet 2 9/16IN | 4222 2107 44 |
| RTX02-28-214 | Ratchet 2 7/8IN | 4222 2107 45 |
| RTX02-28-24MM | Ratchet 24MM | 4222 2131 73 |

| Description | extra Description | part number |
|---|---|---|
| RTX02-28-27MM | Ratchet 27mm | 4222 2131 74 |
| RTX02-28-30MM | Ratchet 30mm | 4222 2131 77 |
| RTX02-28-32MM | Ratchet 32mm | 4222 2107 47 |
| RTX02-28-33MM | Ratchet 33mm | 4222 2131 80 |
| RTX02-28-36MM | Ratchet 36mm | 4222 2107 50 |
| RTX02-28-38MM | Ratchet 38mm | 4222 2131 83 |
| RTX02-28-41MM | Ratchet 41mm | 4222 2131 86 |
| RTX02-28-46MM | Ratchet 46mm | 4222 2131 89 |
| RTX02-28-50MM | Ratchet 50mm | 4222 2131 92 |
| RTX02-28-55MM | Ratchet 55mm | 4222 2107 53 |
| RTX02-28-60MM | Ratchet 60mm | 4222 2131 95 |
| RTX02-28-65MM | Ratchet 65mm | 4222 2131 98 |
| RTX02-32 | Drive Spring Roll Pin | 4222 2107 56 |
| RTX02-33 | Drive Pin | 4222 2107 59 |
| RTX02-34 | Drive Pin Spring | 4222 2132 01 |
| RTX02-35-L* #1 | Drive Plate (Left) | 4222 2132 04 |
| RTX02-35-L* #10 | Drive Plate (Left) | 4222 2132 07 |
| RTX02-35-L* #11 | Drive Plate (Left) | 4222 2132 10 |
| RTX02-35-L* #2 | Drive Plate (Left) | 4222 2116 79 |
| RTX02-35-L* #3 | Drive Plate (Left) | 4222 2116 82 |
| RTX02-35-L* #4 | Drive Plate (Left) | 4222 2116 85 |
| RTX02-35-L* #5 | Drive Plate (Left) | 4222 2132 13 |
| RTX02-35-L* #5 RR* | Drive Plate (Left) | 4222 2116 88 |
| RTX02-35-L* #6 | Drive Plate (Left) | 4222 2132 16 |
| RTX02-35-L* #7 | Drive Plate (Left) | 4222 2116 91 |
| RTX02-35-L* #8 | Drive Plate (Left) | 4222 2132 19 |
| RTX02-35-L* #9 | Drive Plate (Left) | 4222 2132 22 |
| RTX02-35-L*-200 | Drive Plate (Left) | 4222 2132 25 |
| RTX02-35-L*-203 | Drive Plate (Left) | 4222 2132 28 |
| RTX02-35-L*-206 | Drive Plate (Left) | 4222 2132 31 |
| RTX02-35-L*-46MM | Drive Plate (Left) | 4222 2132 34 |
| RTX02-35-L*-RR* 113 | Drive Plate (Left) Reduced Rad | 4222 2132 37 |
| RTX02-35-R #1 | Drive Plate (Right) | 4222 2132 40 |
| RTX02-35-R #10 | Drive Plate (Right) | 4222 2132 43 |

| Description | extra Description | part number |
|---|---|---|
| RTX02-35-R #11 | Drive Plate (Right) | 4222 2132 46 |
| RTX02-35-R #2 | Drive Plate (Right) | 4222 2116 94 |
| RTX02-35-R #3 | Drive Plate (Right) | 4222 2116 97 |
| RTX02-35-R #4 | Drive Plate (Right) | 4222 2117 00 |
| RTX02-35-R #5 | Drive Plate (Right) | 4222 2132 49 |
| RTX02-35-R #5 RR* | Drive Plate (Right) | 4222 2117 03 |
| RTX02-35-R #6 | Drive Plate (Right) | 4222 2132 52 |
| RTX02-35-R #7 | Drive Plate (Right) | 4222 2117 06 |
| RTX02-35-R #8 | Drive Plate (Right) | 4222 2132 55 |
| RTX02-35-R #9 | Drive Plate (Right) | 4222 2132 58 |
| RTX02-35-R-200 | Drive Plate (Right) | 4222 2132 61 |
| RTX02-35-R-203 | Drive Plate (Right) | 4222 2132 64 |
| RTX02-35-R-206 | Drive Plate (Right) | 4222 2132 67 |
| RTX02-35-R-33MM | Drive Plate (Right) | 4222 2132 70 |
| RTX02-35-R-46MM | Drive Plate (Right) | 4222 2132 73 |
| RTX02-35-R-60MM | Drive Plate (Right) | 4222 2132 76 |
| RTX02-35-R-RR*-113 | Drive Plate (Right) RR* | 4222 2132 79 |
| RTX02-36 #1 | Reaction Pawl | 4222 2132 82 |
| RTX02-36 #10 | Reaction Pawl | 4222 2132 85 |
| RTX02-36 #11 | Reaction Pawl | 4222 2132 88 |
| RTX02-36 #2 | Reaction Pawl | 4222 2117 09 |
| RTX02-36 #3 | Reaction Pawl | 4222 2117 12 |
| RTX02-36 #4 | Reaction Pawl | 4222 2117 15 |
| RTX02-36 #5 | Reaction Pawl | 4222 2132 91 |
| RTX02-36 #6 | Reaction Pawl | 4222 2117 18 |
| RTX02-36 #7 | Reaction Pawl | 4222 2132 94 |
| RTX02-36 #8 | Reaction Pawl | 4222 2117 21 |
| RTX02-36 #9 | Reaction Pawl | 4222 2132 97 |
| RTX02-37 | Reaction Pawl Spring | 4222 2107 89 |
| RTX02-43 #1 | Shroud | 4222 2133 00 |
| RTX02-43 #10 | Shroud | 4222 2133 03 |
| RTX02-43 #11 | Shroud | 4222 2133 06 |
| RTX02-43 #2 | Shroud | 4222 2117 25 |

| Description | extra Description | part number |
|---|---|---|
| RTX02-43 #3 | Shroud | 4222 2117 29 |
| RTX02-43 #4 | Shroud | 4222 2117 33 |
| RTX02-43 #5 | Shroud | 4222 2117 37 |
| RTX02-43 #6 | Shroud | 4222 2117 41 |
| RTX02-43 #7 | Shroud | 4222 2133 09 |
| RTX02-43 #8 | Shroud | 4222 2117 45 |
| RTX02-43 #9 | Shroud | 4222 2117 49 |
| RTX02-44 | Shroud Screw | 4222 2108 13 |
| RTX02-45 #1 | Reaction Block Spacer | 4222 2133 12 |
| RTX02-45 #10 | Reaction Block Spacer | 4222 2108 31 |
| RTX02-45 #11 | Reaction Block Spacer | 4222 2108 32 |
| RTX02-45 #2 | Reaction Block Spacer | 4222 2133 15 |
| RTX02-45 #3 | Reaction Block Spacer | 4222 2117 53 |
| RTX02-45 #4 | Reaction Block Spacer | 4222 2117 57 |
| RTX02-45 #5 | Reaction Block Spacer | 4222 2133 18 |
| RTX02-45 #6 | Reaction Block Spacer | 4222 2133 21 |
| RTX02-45 #7 | Reaction Block Spacer | 4222 2117 61 |
| RTX02-45 #8 | Reaction Block Spacer | 4222 2117 65 |
| RTX02-45 #9 | Reaction Block Spacer | 4222 2133 24 |
| RTX02-46 | Top Spacer | 4222 2133 27 |
| RTX02-47 | Reaction Pawl Spring Spacer | 4222 2108 34 |
| RTX02-48 | Side Plate Roll Pin | 4222 2108 37 |
| RTX02-49 | Spring Seat | 4222 2108 40 |
| RTX02-50 | Side Plate Screw Bottom | 4222 2108 43 |
| RTX02-51 | Side Plate Screw Top | 4222 2108 46 |
| RTX02-52 #2 | Side Plate | 4222 2118 45 |
| RTX02-52-L* #1 | Side Plate (Left) | 4222 2133 30 |
| RTX02-52-L* #10 | Side Plate (Left) | 4222 2133 33 |

| Description | extra Description | part number |
|---|---|---|
| RTX02-52-L* #2 | Side Plate (Left) | 4222 2117 70 |
| RTX02-52-L* #3 | Side Plate (Left) | 4222 2117 75 |
| RTX02-52-L* #4 | Side Plate (Left) | 4222 2117 80 |
| RTX02-52-L* #5 | Side Plate (Left) | 4222 2117 85 |
| RTX02-52-L* #6 | Side Plate (Left) | 4222 2117 90 |
| RTX02-52-L* #7 | Side Plate (Left) | 4222 2117 95 |
| RTX02-52-L* #8 | Side Plate (Left) | 4222 2118 00 |
| RTX02-52-L* #9 | Side Plate (Left) | 4222 2118 05 |
| RTX02-52-R #1 | Side Plate (Right) | 4222 2133 36 |
| RTX02-52-R #10 | Side Plate (Right) | 4222 2118 41 |
| RTX02-52-R #2 | Side Plate (Right) | 4222 2118 10 |
| RTX02-52-R #3 | Side Plate (Right) | 4222 2118 15 |
| RTX02-52-R #4 | Side Plate (Right) | 4222 2118 20 |
| RTX02-52-R #5 | Side Plate (Right) | 4222 2118 25 |
| RTX02-52-R #6 | Side Plate (Right) | 4222 2118 30 |
| RTX02-52-R #7 | Side Plate (Right) | 4222 2118 35 |
| RTX02-52-R #8 | Side Plate (Right) | 4222 2118 40 |
| RTX02-52-R #9 | Side Plate (Right) | 4222 2118 42 |
| RTX02-56 #1 | Side Plate Bushing | 4222 2133 39 |
| RTX02-56 #10 | Side Plate Bushing | 4222 2133 42 |
| RTX02-56 #11 | Side Plate Bushing | 4222 2133 45 |
| RTX02-56 #2 | Side Plate Bushing | 4222 2133 48 |
| RTX02-56 #3 | Side Plate Bushing | 4222 2118 50 |
| RTX02-56 #4 | Side Plate Bushing | 4222 2133 51 |
| RTX02-56 #5 | Side Plate Bushing | 4222 2133 54 |
| RTX02-56 #6 | Side Plate Bushing | 4222 2133 57 |
| RTX02-56 #7 | Side Plate Bushing | 4222 2133 60 |
| RTX02-56 #8 | Side Plate Bushing | 4222 2133 63 |
| RTX02-56 #9 | Side Plate Bushing | 4222 2133 66 |
| RTX02-89 #2 | Brass Bushing | 4222 2133 69 |
| RTX02-89 #4 | Brass Bushing | 4222 2133 72 |
| RTX02-89 #5 | Brass Bushing | 4222 2133 75 |
| RTX02-89 #7 | Brass Bushing | 4222 2133 78 |
| RTX02-89 113 | Brass Bushing | 4222 2133 81 |
| RTX02-89 203 | Brass Bushing | 4222 2133 84 |
| RTX02-99 | Reaction Pawl Pin | 4222 2108 97 |

# RTX-4 Spare Parts

## RTX-4 Powerhead Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX04-00-SP | Swivel Post | 4222 2134 41 |
| RTX04-01 | Housing | 4222 2134 44 |
| RTX04-02 | End Cap | 4222 2109 00 |
| RTX04-04 | Gland Bushing | 4222 2134 47 |
| RTX04-05 | Rod End | 4222 2109 03 |
| RTX04-06 | Piston Rod Assembly | 4222 2109 06 |
| RTX04-07 | Cylinder End Cap Screw | 4222 2109 09 |
| RTX04-08 | Fixed Upper Pin | 4222 2109 12 |
| RTX04-09 | Fixed Upper Pin Ring | 4222 2109 15 |
| RTX04-10 | Link Pin Short | 4222 2109 18 |
| RTX04-10 DR | Link Pin Short - Double Ring | 4222 2134 50 |
| RTX04-11 | Link Pin Long | 4222 2109 21 |
| RTX04-11-OS | Link Pin On Side Reaction Arm | 4222 2134 53 |
| RTX04-11-XL | Link Pin Long (Extra Large) | 4222 2134 56 |
| RTX04-12 | Link Pin Retainer | 4222 2109 24 |
| RTX04-13 | Housing Seal Kit | 4222 2134 59 |

## RTX-4 Ratchet Link Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX04-22 | Drive Pawl Primary | 4222 2109 30 |
| RTX04-23 | Drive Pawl Sec-ondary | 4222 2109 33 |
| RTX04-27 | Drive Pawl Spring | 4222 2109 36 |
| RTX04-28-014 | Ratchet 7/8IN | 4222 2134 86 |
| RTX04-28-100 | Ratchet 1IN | 4222 2134 89 |
| RTX04-28-104 12pt* | Ratchet | 4222 2134 92 |
| RTX04-28-108 | Ratchet | 4222 2134 95 |
| RTX04-28-111 | Ratchet | 4222 2109 39 |
| RTX04-28-113 | Ratchet | 4222 2134 98 |
| RTX04-28-114 | Ratchet | 4222 2135 01 |
| RTX04-28-200 | Ratchet | 4222 2109 42 |
| RTX04-28-203 | Ratchet | 4222 2118 79 |
| RTX04-28-204 | Ratchet | 4222 2135 04 |
| RTX04-28-205 | Ratchet | 4222 2135 07 |
| RTX04-28-206 | Ratchet | 4222 2118 83 |
| RTX04-28-209 | Ratchet | 4222 2135 10 |
| RTX04-28-210 | Ratchet | 4222 2135 13 |
| RTX04-28-211 | Ratchet | 4222 2135 16 |
| RTX04-28-212 | Ratchet | 4222 2135 19 |
| RTX04-28-212 RR* | Ratchet | 4222 2135 22 |
| RTX04-28-213 | Ratchet | 4222 2135 25 |
| RTX04-28-215 | Ratchet | 4222 2135 26 |
| RTX04-28-301 | Ratchet | 4222 2135 27 |
| RTX04-28-302 | Ratchet | 4222 2135 28 |
| RTX04-28-32MM | Ratchet | 4222 2135 31 |
| RTX04-28-36MM | Ratchet | 4222 2135 34 |
| RTX04-28-41MM | Ratchet | 4222 2109 45 |
| RTX04-28-42MM | Ratchet | 4222 2109 48 |
| RTX04-28-46MM | Ratchet | 4222 2135 37 |
| RTX04-28-50MM | Ratchet | 4222 2135 40 |
| RTX04-28-55MM | Ratchet | 4222 2135 43 |
| RTX04-28-60MM | Ratchet | 4222 2135 46 |
| RTX04-28-63MM | Ratchet | 4222 2135 49 |
| RTX04-28-70MM | Ratchet | 4222 2135 50 |
| RTX04-28-75MM | Ratchet | 4222 2135 51 |
| RTX04-28-80MM | Ratchet | 4222 2118 87 |
| RTX04-32 | Drive Pin Roll Spring | 4222 2109 51 |
| RTX04-33 | Drive Pin | 4222 2109 54 |
| RTX04-34 | Drive Pin Spring | 4222 2135 52 |
| RTX04-35-L* #1 | Drive Plate (Left) | 4222 2135 55 |
| RTX04-35-L* #10 | Drive Plate (Left) | 4222 2135 58 |
| RTX04-35-L* #11 | Drive Plate (Left) | 4222 2135 61 |
| RTX04-35-L* #12 | Drive Plate (Left) | 4222 2135 64 |
| RTX04-35-L* #2 | Drive Plate (Left) | 4222 2135 67 |
| RTX04-35-L* #3 | Drive Plate (Left) | 4222 2135 70 |
| RTX04-35-L* #4 | Drive Plate (Left) | 4222 2135 73 |
| RTX04-35-L* #5 | Drive Plate (Left) | 4222 2135 76 |
| RTX04-35-L* #6 | Drive Plate (Left) | 4222 2135 79 |
| RTX04-35-L* #7 | Drive Plate (Left) | 4222 2135 82 |
| RTX04-35-L* #8 | Drive Plate (Left) | 4222 2118 90 |
| RTX04-35-L* #8 RR* | Drive Plate (Left) RR* | 4222 2135 88 |
| RTX04-35-L* #9 | Drive Plate (Left) | 4222 2135 85 |
| RTX04-35-R #1 | Drive Plate (Right) | 4222 2135 91 |
| RTX04-35-R #10 | Drive Plate (Right) | 4222 2135 94 |
| RTX04-35-R #11 | Drive Plate (Right) | 4222 2135 97 |
| RTX04-35-R #12 | Drive Plate (Right) | 4222 2136 00 |
| RTX04-35-R #2 | Drive Plate (Right) | 4222 2136 03 |
| RTX04-35-R #3 | Drive Plate (Right) | 4222 2136 06 |
| RTX04-35-R #4 | Drive Plate (Right) | 4222 2136 09 |
| RTX04-35-R #5 | Drive Plate (Right) | 4222 2136 12 |
| RTX04-35-R #6 | Drive Plate (Right) | 4222 2136 15 |
| RTX04-35-R #7 | Drive Plate (Right) | 4222 2136 18 |
| RTX04-35-R #8 | Drive Plate (Right) | 4222 2136 21 |
| RTX04-35-R #8 RR* | Drive Plate (Right) Reduced RR* | 4222 2136 27 |
| RTX04-35-R #9 | Drive Plate (Right) | 4222 2136 24 |
| RTX04-36 #1 | Reaction Pawl | 4222 2136 30 |
| RTX04-36 #10 | Reaction Pawl | 4222 2136 33 |
| RTX04-36 #11 | Reaction Pawl | 4222 2136 36 |
| RTX04-36 #2 | Reaction Pawl | 4222 2136 39 |
| RTX04-36 #3 | Reaction Pawl | 4222 2136 42 |
| RTX04-36 #4 | Reaction Pawl | 4222 2118 94 |
| RTX04-36 #5 | Reaction Pawl | 4222 2136 45 |
| RTX04-36 #6 | Reaction Pawl | 4222 2136 48 |
| RTX04-36 #7 | Reaction Pawl | 4222 2136 51 |
| RTX04-36 #8 | Reaction Pawl | 4222 2136 54 |
| RTX04-36 #9 | Reaction Pawl | 4222 2136 57 |
| RTX04-37 | Reaction Pawl Spring | 4222 2109 63 |
| RTX04-38 | Reaction Pawl Spacer | 4222 2136 60 |
| RTX04-43 #1 | Shroud | 4222 2118 98 |
| RTX04-43 #10 | Shroud | 4222 2136 63 |
| RTX04-43 #11 | Shroud | 4222 2136 66 |
| RTX04-43 #2 | Shroud | 4222 2119 03 |
| RTX04-43 #3 | Shroud | 4222 2119 07 |
| RTX04-43 #4 | Shroud | 4222 2119 11 |
| RTX04-43 #5 | Shroud | 4222 2136 69 |
| RTX04-43 #6 | Shroud | 4222 2119 15 |
| RTX04-43 #7 | Shroud | 4222 2136 72 |
| RTX04-43 #8 | Shroud | 4222 2136 75 |
| RTX04-43 #9 | Shroud | 4222 2136 78 |
| RTX04-44 | Shroud Screw | 4222 2136 81 |
| RTX04-45 #1 | Reaction Block Spacer | 4222 2136 84 |
| RTX04-45 #10 | Reaction Block Spacer | 4222 2136 87 |
| RTX04-45 #11 | Reaction Block Spacer | 4222 2136 88 |
| RTX04-45 #2 | Reaction Block Spacer | 4222 2136 90 |
| RTX04-45 #3 | Reaction Block Spacer | 4222 2119 19 |
| RTX04-45 #4 | Reaction Block Spacer | 4222 2136 93 |
| RTX04-45 #5 | Reaction Block Spacer | 4222 2136 96 |
| RTX04-45 #6 | Reaction Block Spacer | 4222 2136 99 |
| RTX04-45 #7 | Reaction Block Spacer | 4222 2137 02 |
| RTX04-45 #8 | Reaction Block Spacer | 4222 2119 23 |
| RTX04-45 #9 | Reaction Block Spacer | 4222 2137 05 |
| RTX04-46 | Top Spacer | 4222 2137 08 |
| RTX04-47 | Reaction Pawl Spring Spacer | 4222 2137 11 |
| RTX04-48 | Side Plate Roll Pin | 4222 2109 87 |
| RTX04-49 | Spring Seat | 4222 2137 14 |
| RTX04-50 | Side Plate Screw Bottom | 4222 2109 90 |
| RTX04-51 | Side Plate Screw Top | 4222 2137 17 |
| RTX04-52-L* #1 | Side Plate (Left) | 4222 2119 26 |
| RTX04-52-L* #10 | Side Plate (Left) | 4222 2110 08 |
| RTX04-52-L* #11 | Side Plate (Left) | 4222 2110 09 |
| RTX04-52-L* #4 | Side Plate (Left) | 4222 2119 27 |
| RTX04-52-L* #5 | Side Plate (Left) | 4222 2137 20 |
| RTX04-52-L* #6 | Side Plate (Left) | 4222 2119 32 |
| RTX04-52-L* #7 | Side Plate (Left) | 4222 2119 37 |
| RTX04-52-L* #8 | Side Plate (Left) | 4222 2119 42 |
| RTX04-52-L* #9 | Side Plate (Left) | 4222 2119 47 |
| RTX04-52-R #1 | Side Plate (Right) | 4222 2119 51 |
| RTX04-52-R #10 | Side Plate (Right) | 4222 2110 17 |
| RTX04-52-R #11 | Side Plate (Right) | 4222 2110 18 |
| RTX04-52-R #4 | Side Plate (Right) | 4222 2119 52 |
| RTX04-52-R #5 | Side Plate (Right) | 4222 2137 23 |
| RTX04-52-R #6 | Side Plate (Right) | 4222 2137 26 |
| RTX04-52-R #8 | Side Plate (Right) | 4222 2137 29 |
| RTX04-52-R #9 | Side Plate (Right) | 4222 2137 32 |
| RTX04-52-R# 7 | Side Plate (Right) | 4222 2119 55 |
| RTX04-56 #1 | Side Plate Bushing | 4222 2137 35 |
| RTX04-56 #10 | Side Plate Bushing | 4222 2137 38 |
| RTX04-56 #11 | Side Plate Bushing | 4222 2137 41 |
| RTX04-56 #2 | Side Plate Bushing | 4222 2137 44 |
| RTX04-56 #3 | Side Plate Bushing | 4222 2137 47 |
| RTX04-56 #4 | Side Plate Bushing | 4222 2137 50 |
| RTX04-56 #5 | Side Plate Bushing | 4222 2137 53 |
| RTX04-56 #6 | Side Plate Bushing | 4222 2137 56 |
| RTX04-56 #7 | Side Plate Bushing | 4222 2137 59 |
| RTX04-56 #8 | Side Plate Bushing | 4222 2137 62 |
| RTX04-56 #9 | Side Plate Bushing | 4222 2137 65 |
| RTX04-99 | Reaction Pawl Pin | 4222 2137 68 |

# RTX-8 Spare Parts

## RTX-8 Powerhead Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX08-01 | Housing | 4222 2138 49 |
| RTX08-02 | End Cap | 4222 2110 20 |
| RTX08-05 | Rod End | 4222 2119 85 |
| RTX08-06 | Piston Rod Assembly | 4222 2110 23 |
| RTX08-07 | Cylinder End Cap Screws | 4222 2110 26 |
| RTX08-08 | Fixed Upper Pin | 4222 2138 52 |
| RTX08-09 | Fixed upper Pin Ring | 4222 2110 29 |
| RTX08-10 | Link Pin Short | 4222 2110 32 |
| RTX08-11 | Link Pin Long | 4222 2110 35 |
| RTX08-12 | Link Pin Retainer | 4222 2110 38 |
| RTX08-13 | Housing Seal Kit | 4222 2110 41 |

## RTX-8 Ratchet Link Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX08-22 | Drive Pawl Primary | 4222 2110 47 |
| RTX08-23 | Drive Pawl Secondary | 4222 2110 50 |
| RTX08-27 | Drive Pawl Spring | 4222 2110 53 |
| RTX08-28-100MM | Ratchet | 4222 2138 88 |
| RTX08-28-105MM | Ratchet | 4222 2138 91 |
| RTX08-28-108 | Ratchet | 4222 2138 94 |
| RTX08-28-113 | Ratchet | 4222 2138 97 |
| RTX08-28-114 | Ratchet | 4222 2139 00 |
| RTX08-28-115 | Ratchet | 4222 2139 03 |
| RTX08-28-200 | Ratchet | 4222 2139 06 |
| RTX08-28-203 | Ratchet | 4222 2119 89 |
| RTX08-28-204 | Ratchet | 4222 2139 09 |
| RTX08-28-206 | Ratchet | 4222 2119 92 |
| RTX08-28-209 | Ratchet | 4222 2119 95 |
| RTX08-28-210 | Ratchet | 4222 2139 12 |
| RTX08-28-212 | Ratchet | 4222 2139 15 |
| RTX08-28-213 | Ratchet | 4222 2110 56 |
| RTX08-28-215 | Ratchet | 4222 2139 18 |
| RTX08-28-300 | Ratchet | 4222 2110 59 |
| RTX08-28-302 | Ratchet | 4222 2139 21 |
| RTX08-28-308 | Ratchet | 4222 2139 24 |
| RTX08-28-310 | Ratchet | 4222 2110 62 |
| RTX08-28-314 | Ratchet | 4222 2110 65 |
| RTX08-28-404 | Ratchet | 4222 2110 66 |
| RTX08-28-41MM | Ratchet | 4222 2139 27 |
| RTX08-28-45MM | Ratchet | 4222 2139 30 |
| RTX08-28-46MM | Ratchet | 4222 2139 33 |
| RTX08-28-50MM | Ratchet | 4222 2119 98 |
| RTX08-28-58MM | Ratchet | 4222 2139 36 |
| RTX08-28-60MM | Ratchet | 4222 2139 39 |
| RTX08-28-63MM | Ratchet | 4222 2110 68 |
| RTX08-28-65MM | Ratchet | 4222 2139 42 |

| Description | extra Description | part number |
|---|---|---|
| RTX08-28-67MM | Ratchet | 4222 2110 71 |
| RTX08-28-70MM | Ratchet | 4222 2139 44 |
| RTX08-28-71MM | Ratchet | 4222 2139 45 |
| RTX08-28-75MM | Ratchet | 4222 2110 74 |
| RTX08-28-77MM | Ratchet | 4222 2139 48 |
| RTX08-28-80MM | Ratchet | 4222 2110 77 |
| RTX08-28-90MM | Ratchet | 4222 2110 80 |
| RTX08-28-95MM | Ratchet | 4222 2139 51 |
| RTX08-32 | Drive Spring Roll Pin | 4222 2110 83 |
| RTX08-33 | Drive Pin | 4222 2110 86 |
| RTX08-34 | Drive Pin Spring | 4222 2110 89 |
| RTX08-35-L* #1 | Side Plate (Left) | 4222 2120 43 |
| RTX08-35-L* #10 | Side Plate (Left) | 4222 2111 16 |
| RTX08-35-L* #11 | Side Plate (Left) | 4222 2139 54 |
| RTX08-35-L* #12 | Side Plate (Left) | 4222 2139 57 |
| RTX08-35-L* #2 | Side Plate (Left) | 4222 2120 48 |
| RTX08-35-L* #3 | Side Plate (Left) | 4222 2120 53 |
| RTX08-35-L* #4 | Side Plate (Left) | 4222 2120 58 |
| RTX08-35-L* #5 | Side Plate (Left) | 4222 2120 68 |
| RTX08-35-L* #6 | Side Plate (Left) | 4222 2120 73 |
| RTX08-35-L* #7 | Side Plate (Left) | 4222 2120 78 |
| RTX08-35-L* #8 | Side Plate (Left) | 4222 2120 63 |
| RTX08-35-L* #9 | Side Plate (Left) | 4222 2139 60 |
| RTX08-35-R #1 | Drive Plate (Right) | 4222 2120 83 |
| RTX08-35-R #10 | Drive Plate (Right) | 4222 2111 40 |
| RTX08-35-R #11 | Drive Plate (Right) | 4222 2139 63 |
| RTX08-35-R #12 | Drive Plate (Right) | 4222 2139 66 |
| RTX08-35-R #2 | Drive Plate (Right) | 4222 2120 87 |
| RTX08-35-R #3 | Drive Plate (Right) | 4222 2120 91 |
| RTX08-35-R #4 | Drive Plate (Right) | 4222 2139 69 |
| RTX08-35-R #5 | Drive Plate (Right) | 4222 2120 95 |
| RTX08-35-R #6 | Drive Plate (Right) | 4222 2139 72 |

| Description | extra Description | part number |
|---|---|---|
| RTX08-35-R #7 | Drive Plate (Right) | 4222 2120 99 |
| RTX08-35-R #8 | Drive Plate (Right) | 4222 2121 03 |
| RTX08-35-R #9 | Drive Plate (Right) | 4222 2121 07 |
| RTX08-36 #1 | Reaction Pawl | 4222 2121 11 |
| RTX08-36 #10 | Reaction Pawl | 4222 2111 64 |
| RTX08-36 #11 | Reaction Pawl | 4222 2111 67 |
| RTX08-36 #2 | Reaction Pawl | 4222 2121 15 |
| RTX08-36 #3 | Reaction Pawl | 4222 2121 19 |
| RTX08-36 #4 | Reaction Pawl | 4222 2121 23 |
| RTX08-36 #5 | Reaction Pawl | 4222 2121 27 |
| RTX08-36 #6 | Reaction Pawl | 4222 2139 75 |
| RTX08-36 #7 | Reaction Pawl | 4222 2139 78 |
| RTX08-36 #8 | Reaction Pawl | 4222 2121 31 |
| RTX08-36 #9 | Reaction Pawl | 4222 2121 35 |
| RTX08-37 | Reaction Pawl | 4222 2139 81 |
| RTX08-43 | Shroud | 4222 2139 84 |
| RTX08-43 #1 | Shroud Ratchet Link | 4222 2121 39 |
| RTX08-43 #10 | Shroud Ratchet Link | 4222 2111 91 |
| RTX08-43 #11 | Shroud Ratchet Link | 4222 2139 87 |
| RTX08-43 #2 | Shroud Ratchet Link | 4222 2121 44 |
| RTX08-43 #3 | Shroud Ratchet Link | 4222 2121 48 |
| RTX08-43 #4 | Shroud Ratchet Link | 4222 2121 52 |
| RTX08-43 #5 | Shroud Ratchet Link | 4222 2121 56 |
| RTX08-43 #6 | Shroud Ratchet Link | 4222 2139 90 |
| RTX08-43 #7 | Shroud Ratchet Link | 4222 2139 93 |
| RTX08-43 #8 | Shroud Ratchet Link | 4222 2121 60 |
| RTX08-43 #9 | Shroud Ratchet Link | 4222 2121 64 |
| RTX08-44 | Shroud Screw | 4222 2111 94 |
| RTX08-45 | Reaction Block Spacer | 4222 2139 96 |
| RTX08-45 #1 | Reaction Block Spacer | 4222 2112 15 |
| RTX08-45 #10 | Reaction Block Spacer | 4222 2112 18 |
| RTX08-45 #11 | Reaction Block Spacer | 4222 2112 21 |

| Description | extra Description | part numbe |
|---|---|---|
| RTX08-45 #12 | Reaction Block Spacer | 4222 2112 2 |
| RTX08-45 #2 | Reaction Block Spacer | 4222 2112 2 |
| RTX08-45 #3 | Reaction Block Spacer | 4222 2121 6 |
| RTX08-45 #4 | Reaction Block Spacer | 4222 2139 9 |
| RTX08-45 #5 | Reaction Block Spacer | 4222 2112 3 |
| RTX08-45 #6 | Reaction Block Spacer | 4222 2112 33 |
| RTX08-45 #7 | Reaction Block Spacer | 4222 2112 36 |
| RTX08-45 #8 | Reaction Block Spacer | 4222 2112 39 |
| RTX08-45 #9 | Reaction Block Spacer | 4222 2140 02 |
| RTX08-46 | Top Spacer | 4222 2112 42 |
| RTX08-47 | Reaction Pawl Spring Spacer | 4222 2140 05 |
| RTX08-48 | Side Plate Roll Pin | 4222 2112 45 |
| RTX08-49 | Spring Seat | 4222 2112 48 |
| RTX08-50 | Side Plate Screw Bottom | 4222 2112 51 |
| RTX08-51 | Side Plate Screw Top | 4222 2112 54 |
| RTX08-52-L* #10 | Side Plate (Left) | 4222 2140 08 |
| RTX08-52-L* #11 | Side Plate (Left) | 4222 2140 11 |
| RTX08-52-L* #12 | Side Plate (Left) | 4222 2112 69 |
| RTX08-52-L* #3 | Side Plate (Left) | 4222 2121 72 |
| RTX08-52-L* #4 | Side Plate (Left) | 4222 2140 14 |
| RTX08-52-L* #5 | Side Plate (Left) | 4222 2140 17 |
| RTX08-52-L* #6 | Side Plate (Left) | 4222 2121 76 |
| RTX08-52-L* #7 | Side Plate (Left) | 4222 2140 20 |
| RTX08-52-L* #8 | Side Plate (Left) | 4222 2121 80 |
| RTX08-52-L* #9 | Side Plate (Left) | 4222 2121 84 |
| RTX08-52-R #11 | Side Plate (Right) | 4222 2112 84 |
| RTX08-52-R #12 | Side Plate (Right) | 4222 2112 87 |
| RTX08-52-R #3 | Side Plate (Right) | 4222 2121 87 |
| RTX08-52-R #4 | Side Plate (Right) | 4222 2140 23 |
| RTX08-52-R #5 | Side Plate (Right) | 4222 2140 26 |
| RTX08-52-R #6 | Side Plate (Right) | 4222 2121 91 |

| Description | extra Description | part number |
|---|---|---|
| RTX08-52-R #7 | Side Plate (Right) | 4222 2140 29 |
| RTX08-52-R #8 | Side Plate (Right) | 4222 2121 95 |
| RTX08-52-R #9 | Side Plate (Right) | 4222 2121 99 |
| RTX08-56 #1 | Side Plate Bushing | 4222 2140 32 |
| RTX08-56 #10 | Side Plate Bushing | 4222 2140 35 |
| RTX08-56 #11 | Side Plate Bushing | 4222 2140 38 |
| RTX08-56 #2 | Side Plate Bushing | 4222 2140 41 |
| RTX08-56 #3 | Side Plate Bushing | 4222 2140 44 |
| RTX08-56 #4 | Side Plate Bushing | 4222 2122 03 |
| RTX08-56 #5 | Side Plate Bushing | 4222 2140 47 |
| RTX08-56 #6 | Side Plate Bushing | 4222 2140 50 |
| RTX08-56 #7 | Side Plate Bushing | 4222 2140 53 |
| RTX08-56 #8 | Side Plate Bushing | 4222 2140 56 |
| RTX08-56 #9 | Side Plate Bushing | 4222 2140 59 |
| RTX08-99 | Reaction Pawl Pin | 4222 2112 93 |





Hydraulic Torque Wrenches

# RTX-14 Spare Parts

## RTX-14 Powerhead Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX14-01 | Housing | 4222 2141 10 |
| RTX14-02 | End Cap | 4222 2112 96 |
| RTX14-04 | Gland Bushing | 4222 2141 13 |
| RTX14-05 | rod end | 4222 2109 07 |
| RTX14-06 | Piston Rod Assembly | 4222 2112 99 |
| RTX14-07 | Cylinder End Cap Screws | 4222 2113 02 |
| RTX14-08 | Fixed Upper Pin | 4222 2113 05 |
| RTX14-09 | Fixed Upper Pin Ring | 4222 2113 08 |
| RTX14-10 | Link Pin Short | 4222 2113 11 |
| RTX14-11 | Link Pin Long | 4222 2113 14 |
| RTX04-10 DR | Link Pin Short - Double Ring | 4222 2134 50 |
| RTX04-11 | Link Pin Long | 4222 2109 21 |
| RTX04-11-OS | Link Pin On Side Reaction Arm | 4222 2134 53 |
| RTX04-11-XL | Link Pin Long (Extra Large) | 4222 2134 56 |
| RTX04-12 | Link Pin Retainer | 4222 2109 24 |
| RTX04-13 | Housing Seal Kit | 4222 2134 59 |

## RTX-14 Ratchet Link Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX14-22 | Primary Drive Pawl | 4222 2113 20 |
| RTX14-23 | Drive Pawl Sec-ondary | 4222 2113 23 |
| RTX14-27 | Drive Pawl Spring | 4222 2113 26 |
| RTX14-28-100MM | Ratchet | 4222 2122 18 |
| RTX14-28-110MM | Ratchet | 4222 2141 52 |
| RTX14-28-115MM | Ratchet | 4222 2141 55 |
| RTX14-28-120MM | Ratchet | 4222 2141 58 |
| RTX14-28-209 | Ratchet | 4222 2141 61 |
| RTX14-28-212 | Ratchet | 4222 2141 63 |
| RTX14-28-215 | Ratchet | 4222 2141 64 |
| RTX14-28-302 | Ratchet | 4222 2141 67 |
| RTX14-28-308 | Ratchet | 4222 2141 70 |
| RTX14-28-314 | Ratchet | 4222 2141 73 |
| RTX14-28-404 | Ratchet | 4222 2141 76 |
| RTX14-28-408 | Ratchet | 4222 2141 79 |
| RTX14-28-410 | Ratchet | 4222 2122 22 |
| RTX14-28-71MM | Ratchet | 4222 2113 29 |
| RTX14-28-75MM | Ratchet | 4222 2113 32 |
| RTX14-28-80MM | Ratchet | 4222 2141 82 |
| RTX14-28-85MM | Ratchet | 4222 2141 85 |
| RTX14-28-90MM | Ratchet | 4222 2122 25 |
| RTX14-28-95MM | Ratchet | 4222 2141 88 |
| RTX14-32 | Drive Spring Roll Pin | 4222 2113 35 |
| RTX14-33 | Drive Pin | 4222 2113 38 |
| RTX14-34 | Drive Pin Spring | 4222 2113 41 |

| Description | extra Description | part number |
|---|---|---|
| RTX14-35-L* #1 | Side Plate (Left) | 4222 2141 91 |
| RTX14-35-L* #11 | Side Plate (Left) | 4222 2141 94 |
| RTX14-35-L* #2 | Side Plate (Left) | 4222 2141 97 |
| RTX14-35-L* #3 | Side Plate (Left) | 4222 2142 00 |
| RTX14-35-L* #4 | Side Plate (Left) | 4222 2142 03 |
| RTX14-35-L* #5 | Side Plate (Left) | 4222 2142 06 |
| RTX14-35-L* #6 | Side Plate (Left) | 4222 2142 09 |
| RTX14-35-L* #7 | Side Plate (Left) | 4222 2142 12 |
| RTX14-35-L* #8 | Side Plate (Left) | 4222 2142 15 |
| RTX14-35-L* #9 | Side Plate (Left) | 4222 2122 28 |
| RTX14-35-L*#10 | Side Plate (Left) | 4222 2142 18 |
| RTX14-35-R #1 | Drive Plate(Right) | 4222 2142 21 |
| RTX14-35-R #11 | Drive Plate(Right) | 4222 2142 24 |
| RTX14-35-R #2 | Drive Plate(Right) | 4222 2142 27 |
| RTX14-35-R #3 | Drive Plate(Right) | 4222 2142 30 |
| RTX14-35-R #4 | Drive Plate(Right) | 4222 2142 33 |
| RTX14-35-R #5 | Drive Plate(Right) | 4222 2142 36 |
| RTX14-35-R #6 | Drive Plate(Right) | 4222 2142 39 |
| RTX14-35-R #7 | Drive Plate(Right) | 4222 2142 42 |
| RTX14-35-R #8 | Drive Plate(Right) | 4222 2142 45 |
| RTX14-35-R #9 | Drive Plate(Right) | 4222 2142 48 |
| RTX14-35-R#10 | Drive Plate(Right) | 4222 2142 51 |
| RTX14-36 #1 | Reaction Pawl | 4222 2142 54 |
| RTX14-36 #10 | Reaction Pawl | 4222 2142 57 |
| RTX14-36 #2 | Reaction Pawl | 4222 2142 60 |
| RTX14-36 #3 | Reaction Pawl | 4222 2142 63 |
| RTX14-36 #4 | Reaction Pawl | 4222 2142 66 |

| Description | extra Description | part number |
|---|---|---|
| RTX14-36 #5 | Reaction Pawl | 4222 2142 69 |
| RTX14-36 #7 | Reaction Pawl | 4222 2122 32 |
| RTX14-36 #9 | Reaction Pawl | 4222 2142 58 |
| RTX14-37 | Reaction Pawl Spring | 4222 2113 50 |
| RTX14-43 #1 | Shroud | 4222 2122 35 |
| RTX14-43 #10 | Shroud | 4222 2142 72 |
| RTX14-43 #11 | Shroud | 4222 2142 75 |
| RTX14-43 #2 | Shroud | 4222 2142 78 |
| RTX14-43 #3 | Shroud | 4222 2142 81 |
| RTX14-43 #4 | Shroud | 4222 2142 84 |
| RTX14-43 #5 | Shroud | 4222 2142 87 |
| RTX14-43 #6 | Shroud | 4222 2142 90 |
| RTX14-43 #7 | Shroud | 4222 2142 93 |
| RTX14-43 #8 | Shroud | 4222 2142 96 |
| RTX14-43 #9 | Shroud | 4222 2142 99 |
| RTX14-44 | Shroud Screw | 4222 2143 02 |
| RTX14-45 #1 | Reaction Block Spacer | 4222 2122 33 |
| RTX14-45 #10 | Reaction Block Spacer | 4222 2113 71 |
| RTX14-45 #2 | Reaction Block Spacer | 4222 2122 34 |
| RTX14-45 #3 | Reaction Block Spacer | 4222 2122 36 |
| RTX14-45 #4 | Reaction Block Spacer | 4222 2122 37 |
| RTX14-45 #5 | Reaction Block Spacer | 4222 2122 38 |
| RTX14-45 #6 | Reaction Block Spacer | 4222 2122 41 |

| Description | extra Description | part number |
|---|---|---|
| RTX14-45 #7 | Reaction Block Spacer | 4222 2122 44 |
| RTX14-45 #8 | Reaction Block Spacer | 4222 2122 47 |
| RTX14-45 #9 | Reaction Block Spacer | 4222 2122 50 |
| RTX14-46 | Top Spacer | 4222 2143 05 |
| RTX14-47 | Reaction Pawl Spring Spacer | 4222 2143 08 |
| RTX14-48 | Side Plate Roll Spring | 4222 2113 74 |
| RTX14-49 | Spring Seat | 4222 2113 77 |
| RTX14-50 | Side Plate Screw Bottom | 4222 2113 80 |
| RTX14-51 | Side Plate Screw Top | 4222 2113 83 |
| RTX14-52-L* #2 | Side Plate (Left) | 4222 2113 86 |
| RTX14-52-L* #3 | Side Plate (Left) | 4222 2143 11 |
| RTX14-52-L* #4 | Side Plate (Left) | 4222 2143 14 |
| RTX14-52-L* #5 | Side Plate (Left) | 4222 2143 17 |
| RTX14-52-L* #6 | Side Plate (Left) | 4222 2143 20 |
| RTX14-52-L* #7 | Side Plate (Left) | 4222 2143 21 |
| RTX14-52-L* #9 | Side Plate (Left) | 4222 2143 23 |
| RTX14-52-R #2 | Side Plate (Right) | 4222 2143 26 |
| RTX14-52-R #3 | Side Plate (Right) | 4222 2143 29 |
| RTX14-52-R #4 | Side Plate (Right) | 4222 2143 30 |
| RTX14-52-R #6 | Side Plate (Right) | 4222 2143 32 |
| RTX14-52-R #7 | Side Plate (Right) | 4222 2143 35 |
| RTX14-99 | Reaction Pawl Pin | 4222 2116 65 |

# RTX-18 Spare Parts

## RTX-18 Powerhead Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX18-02 | End Cap | 4222 2113 88 |
| RTX18-05 | Rod End | 4222 2113 89 |
| RTX18-06 | Piston Rod Assembly | 4222 2143 50 |
| RTX18-07 | Cylinder End Cap Screws | 4222 2143 52 |
| RTX18-08 | Fixed Upper Pin | 4222 2143 53 |
| RTX18-09 | Fixed Upper Pin Ring | 4222 2113 92 |
| RTX18-10 | Link Pin Short | 4222 2113 95 |
| RTX18-11 | Link Pin Long | 4222 2113 98 |
| RTX18-12 | Link Pin Retainer | 4222 2114 00 |
| RTX18-13 | Housing Seal Kit | 4222 2114 01 |

## RTX-18 Ratchet Link Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX18-22 | Drive Pawl Primary | 4222 2143 56 |
| RTX18-23 | Drive Pawl Sec-ondary | 4222 2143 59 |
| RTX18-27 | Drive Pawl Spring | 4222 2114 04 |
| RTX18-28-#10-B | Ratchet Blank | 4222 2143 62 |
| RTX18-28-#1-B | Ratchet Blank | 4222 2143 65 |
| RTX18-28-#2-B | Ratchet Blank | 4222 2143 68 |
| RTX18-28-#3-B | Ratchet Blank | 4222 2143 71 |
| RTX18-28-#4-B | Ratchet Blank | 4222 2143 74 |
| RTX18-28-#5-B | Ratchet Blank | 4222 2143 77 |
| RTX18-28-#6-B | Ratchet Blank | 4222 2143 80 |
| RTX18-28-#7-B | Ratchet Blank | 4222 2143 83 |
| RTX18-28-#8-B | Ratchet Blank | 4222 2143 86 |
| RTX18-28-#9-B | Ratchet Blank | 4222 2143 89 |
| RTX18-28-302 | Ratchet | 4222 2114 07 |
| RTX18-28-80MM | Ratchet | 4222 2143 92 |
| RTX18-28-95MM | Ratchet | 4222 2143 95 |
| RTX18-32 | Drive Spring Roll Pin | 4222 2114 10 |
| RTX18-33 | Drive Pin | 4222 2114 13 |
| RTX18-34 | Drive Pin Spring | 4222 2114 16 |
| RTX18-35-L* #4 | Drive Plate (left) | 4222 2114 17 |
| RTX18-35-R #4 | Drive Plate (right) | 4222 2114 18 |
| RTX18-36 #4 | Reaction Pawl | 4222 2114 20 |
| RTX18-37 | Reaction Pawl Spring | 4222 2114 19 |
| RTX18-43 #5 | Shroud | 4222 2143 98 |
| RTX18-43 #6 | Shroud | 4222 2144 01 |

| Description | extra Description | part number |
|---|---|---|
| RTX18-43-#4 | Shroud | 4222 2144 04 |
| RTX18-45 #1 | Reaction Block Spacer | 4222 2114 22 |
| RTX18-45 #10 | Reaction Block Spacer | 4222 2114 25 |
| RTX18-45 #2 | Reaction Block Spacer | 4222 2114 28 |
| RTX18-45 #3 | Reaction Block Spacer | 4222 2114 31 |
| RTX18-45 #4 | Reaction Block Spacer | 4222 2114 34 |
| RTX18-45 #5 | Reaction Block Spacer | 4222 2114 37 |
| RTX18-45 #6 | Reaction Block Spacer | 4222 2114 40 |
| RTX18-45 #7 | Reaction Block Spacer | 4222 2114 43 |
| RTX18-45 #8 | Reaction Block Spacer | 4222 2114 46 |
| RTX18-45 #9 | Reaction Block Spacer | 4222 2114 49 |
| RTX18-46 | Top Spacer | 4222 2114 52 |
| RTX18-47 | Reaction Pawl Spring Spacer | 4222 2144 07 |
| RTX18-49 | Spring Seat | 4222 2114 55 |
| RTX18-50 | Side Plate Screw Top | 4222 2114 58 |
| RTX18-51 | Side Plate Screw Bottom | 4222 2144 10 |
| RTX18-99 | Reaction Pawl Pin | 4222 2114 61 |



# RTX-30 Spare Parts List

## RTX30 Powerhead Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX30-01 | Housing | 4222 2144 34 |
| RTX30-05 | Rod End | 4222 2144 37 |
| RTX30-06 | Piston Rod Assembly | 4222 2114 64 |
| RTX30-07 | Cylinder End Cap Screws | 4222 2100 12 |
| RTX30-10 | Link Pin Short | 4222 2100 15 |
| RTX30-11 | Link Pin Long | 4222 2100 18 |
| RTX30-12 | Link Pin Retainer | 4222 2144 40 |
| RTX30-13 | Housing Seal Kit | 4222 2100 21 |

## RTX30 Ratchet Link Spare Parts

| Description | extra Description | part number |
|---|---|---|
| RTX30-22 | Drive Pawl Primary | 4222 2144 46 |
| RTX30-23 | Drive Pawl Sec-ondary | 4222 2100 24 |
| RTX30-27 | Drive Pawl Spring | 4222 2144 49 |
| RTX30-28-#1-B | Ratchet Blank | 4222 2144 52 |
| RTX30-28-#2-B | Ratchet Blank | 4222 2144 55 |
| RTX30-28-#3-B | Ratchet Blank | 4222 2144 58 |
| RTX30-28-#4-B | Ratchet Blank | 4222 2144 61 |
| RTX30-28-#5-B | Ratchet Blank | 4222 2144 64 |
| RTX30-28-#6-B | Ratchet Blank | 4222 2144 67 |
| RTX30-28-#7-B | Ratchet Blank | 4222 2144 70 |
| RTX30-28-#8-B | Ratchet Blank | 4222 2144 73 |
| RTX30-28-#9-B | Ratchet Blank | 4222 2144 76 |
| RTX30-28-110MM | Ratchet | 4222 2144 79 |
| RTX30-28-309 | Ratchet | 4222 2144 82 |
| RTX30-28-500 | Ratchet | 4222 2144 83 |
| RTX30-28-95MM | Ratchet | 4222 2100 27 |
| RTX30-28-98MM | Ratchet | 4222 2144 85 |
| RTX30-32 | Drive Spring Roll Pin | 4222 2100 30 |
| RTX30-33 | Drive Pin | 4222 2144 88 |
| RTX30-34 | Drive Pin Spring | 4222 2144 91 |
| RTX30-35-L* #4 | Side Plate (Left) | 4222 2144 94 |
| RTX30-35-R #4 | Side Plate (Right) | 4222 2144 97 |
| RTX30-36 #3 | Reaction Pawl | 4222 2145 00 |
| RTX30-36 #4 | Reaction Pawl | 4222 2145 03 |
| RTX30-36 #6 | Reaction Pawl | 4222 2145 04 |
| RTX30-36-115MM | Reaction Pawl | 4222 2145 06 |
| RTX30-37 | Reaction Pawl Spring | 4222 2100 33 |
| RTX30-43 #2 | Shroud | 4222 2145 09 |
| RTX30-43 #3 | Shroud | 4222 2145 12 |
| RTX30-43 #4 | Shroud | 4222 2145 15 |
| RTX30-43 #5 | Shroud | 4222 2145 18 |

| Description | extra Description | part number |
|---|---|---|
| RTX30-43 #6 | Shroud | 4222 2145 21 |
| RTX30-44 | Shroud Screws | 4222 2145 22 |
| RTX30-45 #1 | Reaction Block Spacer | 4222 2145 23 |
| RTX30-45 #10 | Reaction Block Spacer | 4222 2145 25 |
| RTX30-45 #2 | Reaction Block Spacer | 4222 2145 26 |
| RTX30-45 #3 | Reaction Block Spacer | 4222 2145 28 |
| RTX30-45 #4 | Reaction Block Spacer | 4222 2145 29 |
| RTX30-45 #5 | Reaction Block Spacer | 4222 2145 31 |
| RTX30-45 #6 | Reaction Block Spacer | 4222 2145 32 |
| RTX30-45 #7 | Reaction Block Spacer | 4222 2145 34 |
| RTX30-45 #8 | Reaction Block Spacer | 4222 2145 35 |
| RTX30-46 | Top Spacer | 4222 2100 37 |
| RTX30-47 | Reaction Pawl Spring Spacer | 4222 2100 36 |
| RTX30-48 | Side Plate Roll Pin | 4222 2100 39 |
| RTX30-49 | Spring Seat | 4222 2100 40 |
| RTX30-50 | Side Plate Screw Top | 4222 2100 42 |
| RTX30-51 | Side Plate Screw Bottom | 4222 2100 45 |
| RTX30-52-L* #3 | Side Plate (Left) | 4222 2145 24 |
| RTX30-52-L* #5 | Side Plate (Left) | 4222 2145 37 |
| RTX30-52-L* #6 | Side Plate (Left) | 4222 2145 27 |
| RTX30-52-L* #7 | Side Plate (Left) | 4222 2145 30 |
| RTX30-52-R #1 | Side Plate (Right) | 4222 2145 33 |
| RTX30-52-R #2 | Side Plate (Right) | 4222 2145 36 |
| RTX30-52-R #3 | Side Plate (Right) | 4222 2145 38 |
| RTX30-52-R #5 | Side Plate (Right) | 4222 2145 40 |
| RTX30-52-R #6 | Side Plate (Right) | 4222 2145 39 |
| RTX30-52-R #8 | Side Plate (Right) | 4222 2145 42 |

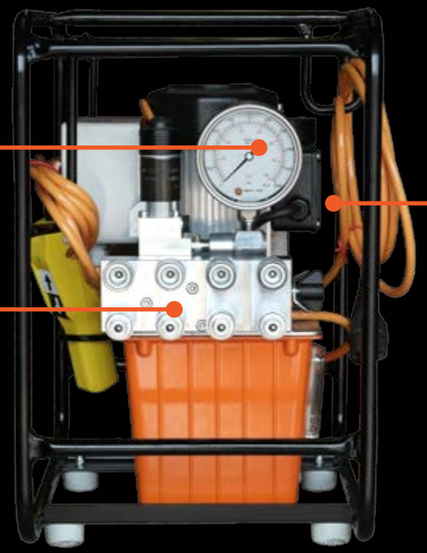
# 10,000 PSI/700 BAR HYDRAULIC PUMPS

## Electrical Pumps

- Available in 110V or 220V
- Four models available
- 700 bar/10,000 psi double effect pump
- Quiet operation (-80dB)
- Multi-stage hydraulic piston pumps
- Exceptional design is rated IP54
- Auto-shutoff after idling 1 minute (electric models)
- 24V Remote control with 4.5m/15ft cable
- Extensive accessories available, including extended cables and quick-connect couplers

## Air-driven pumps

- ATEX certified explosion proof*
- Four models available
- 700 bar/10,000 psi double effect pump
- Quiet operation (-80dB)
- Multi-stage hydraulic piston pumps
- Reaches 700bar/10kpsi with just 50 psi air
- Minimum required air flow 50 cfm (24 l/s)
- Remote control with 4.5m/15ft cable
- Extensive accessories available, including extended cables and quick-connect couplers



CLASS 1 CALIBRATED GAUGE
All Rapid-Torc pumps are shipped for better torquing accuracy.

FOUR PORT MANIFOLD
Four ports are available on almost all models. This makes multi-tool operation a breeze

HEAT EXCHANGER
Built-in heat exchanger keeps the oil cool even in extreme conditions

CLASS 1 CALIBRATED GAUGE
All Rapid-Torc pumps are shipped for better torquing accuracy.

FOUR PORT MANIFOLD
Four ports are available on almost all models. This makes multi-tool operation a breeze

BUILT-IN INTERCOLLER SYSTEM
Allows oil to run cooler even during heavy-duty work shifts.

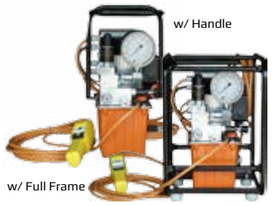
FRL
ensures optimal air quality is present during pump operation

*ATEX certified EX II 2 GDc +1°C  Ta  +40°C

# 10,000 PSI/700 Bar Hydraulic Pump Models

## Electric Pumps 110V or 220V

Electric Pumps can be ordered for use with 110V or 220V.



| | | Panther 025 | Panther 55 | Lynx | Panther 150 |
|---|---|---|---|---|---|
| **Ordering Numbers** | | 110 V w/handle 8434 2040 31<br>110V w/full frame 8434 2040 33<br>220V w/handle 8434213022<br>220V w/full frame 8434 2059 54 | 110V 8434 2040 35<br>220V 8434 2040 37 | 110V 8434 2059 51<br>220V 8434 2059 52 | 110V 8434 2040 39<br>220V 8434 2040 41 |
| **Made in:** | | Germany | Germany | USA | Germany |
| **Dimensions (LXWXH)** | **inches** | 12.6 x 8.3 x 15.3 | 17.3 x 9.4 x18.5 | 9.5 x 17.14 x 18.12 | 20.1 x 15.7 x 23.2 |
| | **mm** | 320 x 210.8 x 388.6 | 439.4 x 238.7 x 469.9 | 541.3 x 435.3 x 460.2 | 510.5 x 398.7 x 589.2 |
| **Weight** | **lb** | 33 | 48 | 75 | 72 |
| | **kg** | 15 | 22 | 34 | 33 |
| **Oil Capacity** | **Gallons** | 0.5 | 1.5 | 2.5 | 1.5 |
| | **Liters** | 1.89 | 5.67 | 9.5 | 5.67 |
| **Intercooler System** | | No | Yes | Yes | Yes |
| **Oil Flow@ 1250psi/700bar** | **cu.in** | 195 cu. in/min | 391 cu. in/min | - | 641 cu. in/min |
| | **l/min** | 3.2 l/min | 6.4 l/min | - | 10.5 l/min |
| **Oil Flow@ 3600psi/250bar** | | 54 cu. in/min | 110 cu. in/min | - | 153 cu. in/min |
| | | 0.9 l/min | 1.8 l/min | - | 2.5 l/min |
| **Oil Flow@ 10,000psi/700bar** | | 21 cu. in/min | 42 cu. in/min | 56 cu. in/min | 92 cu. in/min |
| | | 0.35 l/min | 0.7 l/min | .9 l/min | 1.5 l/min |
| **Ports** | | 1 | 4 | 4 | 4 |
| Recommended Tools | RTP5 | • | • | • | |
| | RT1 | • | • | • | |
| | RT3 | • | • | • | |
| | RT5 | | • | • | |
| | RT8 | | • | • | • |
| | RT10 | | • | • | • |
| | RT20 | | • | • | • |
| | RT25 | | • | • | • |
| | RT50 | | • | • | • |
| | RTX2 | • | • | • | • |
| | RTX4 | | • | • | • |
| | RTX8 | | • | • | • |
| | RTX14 | | • | • | • |
| | RTX18 | | • | • | • |
| | RTX30 | | • | • | • |



## Air-driven Pumps

Air-driven pumps connect to 100psi/7bar power source. ATEX certified explosion proof. (ATEX certified EX II 2 GDc +1° Ta +40°C)

| | | Panther A110 | Panther A380 | TigAir | Cougar |
|---|---|---|---|---|---|
| **Ordering Numbers** | | Small Frame 8434 2040 19<br>Full Frame 8434 2040 17 | 8434 2056 22 | 8434 2040 43 | 8434 2040 29 |
| **Made in:** | | Germany | Germany | USA | Germany |
| **Dimensions (LXWXH)** | **inches** | 13.4 x 13.7 x 16.5 | 15.7 x14.9 x 18.1 | 18 x 10.5 x 18.5 | 15.7 x 14.9 x 18.1 |
| | **mm** | 340.3 x 347.9 419.1 | 398.7x 378.4 x 459.7 | 457.2 x 266.7 x 439.9 | 398.7 x 378.4 x 459.7 |
| **Weight** | **lb** | 33 | 48 | 75 | 72 |
| | **kg** | 15 | 22 | 34 | 33 |
| **Oil Capacity** | **Gallons** | 0.5 | 1.5 | 2.5 | 1.5 |
| | **Liters** | 1.89 | 5.67 | 9.5 | 5.67 |
| **Intercooler System** | | yes | yes | yes | yes |
| **Oil Flow@ 1250psi/700bar** | **cu.in** | 275 cu.in/min | 701 cu. in/min | - | 734 cu. in/min |
| | **l/min** | 4.5 l/min | 11.5 l/min | - | 12 l/min |
| **Oil Flow@ 3600psi/250bar** | | 67 cu in./min | 213 cu. in/min | - | 196 cu.in/min |
| | | 1.1 l/min | 3.5 l/min | - | 3.2 l/min |
| **Oil Flow@ 10,000psi/700bar** | | 24 cu. in/min | 79 cu.in/min | 72 cu. in/min | 86 cu.in/min |
| | | 0.4 l/min | 1.3 l/min | 1.1 l/min | 1.4 l/min |
| **Ports** | | 1 | 4 | 4 | 4 |
| Recommended Tools | RTP5 | • | • | • | |
| | RT1 | • | • | • | |
| | RT3 | • | • | • | |
| | RT5 | | • | • | |
| | RT8 | | • | • | • |
| | RT10 | | • | • | • |
| | RT20 | | • | • | • |
| | RT25 | | • | • | • |
| | RT50 | | • | • | • |
| | RTX2 | • | • | • | • |
| | RTX4 | | • | • | • |
| | RTX8 | | • | • | • |
| | RTX14 | | • | • | • |
| | RTX18 | | • | • | • |
| | RTX30 | | • | • | • |



Hydraulic Torque Wrenches

# Accessories for 10,000 psi/ 700 bar hydraulic pumps

Hoses and oil not included with the pump. Be sure to order corresponding amount of oil for your pump and select hose length for your application.

## 10kpsi/700 bar hoses

Non-conductive, twin-line hoses are extremely safe, featuring a 4:1 safety ratio and safety hose burst guards. Batch numbers are printed directly on the hose for traceability. This is the absolute best 10,000 psi/700 bar hose on the market. Couplers and nipples included.

| Model | Description | Ordering no. |
|---|---|---|
| 90172 | 4.5M / 14.7 ft | 8434 2050 08 |
| 090172-7 | 7M / 22.9 ft | 8434 2123 95 |
| 090172-10 | 10M / 32 ft | 8434 2123 74 |
| 090172-15 | 15M / 49.2 ft | 8434 2050 10 |
| 090172-20 | 20M / 65.6 ft | 8434 2123 83 |

## Calibrated Gauges

Our gauges are calibrated and have a class 1 accuracy. An accurate pressure reading contributes to accurate torquing values.

| Model | Description | Ordering no. |
|---|---|---|
| 090228-2 | Gauge 70 Mpa Back Mounted | 8434 2124 01 |
| 090233-2 | Gauge 70Mpa Back Mounted | 8434 2124 07 |
| 090233-1 | Gauge 700bar-10kpsi | 8434 2124 04 |

## Couplers/Nipples

Standard connections or quick connect are available.

| Model | Description | Ordering no. |
|---|---|---|
| 090156-1 | Coupler Female 1/8IN | 8434 2050 06 |
| 090156 | 1/4" Female Coupler | 8434 2123 41 |
| 090157 | 3/8" Female Coupler | 8434 2123 44 |
| 090159 | Female coupler O-ring | 8434 2123 47 |
| 090155-1 | 1/8" Male Coupler | 8434 2123 65 |
| QC-COUPLERS | Quick Connect Couplers | 8434 2131 36 |
| 090101 | Nipple Male-Male 1/4INx1/4IN | 8434 2050 00 |
| 090103 | Nipple Male 1/4INx1/8IN | 8434 2050 02 |
| 090135 | Nipple NPT 1/4INx1/4IN | 8434 2050 04 |
| 10-115-6402 | Nipple Female NPT 1/4IN | 8434 2050 48 |
| 10-116-6202 | Nipple Female BSP 1/4IN | 8434 2050 52 |
| 090155 | 1/4" Male Female Nipple | 8434 2123 38 |
| 090155-M | 1/4" Male Nipple | 8434 2123 68 |

## Hydraulic Oil

Hydraulic oil for use in our high quality pumps. Comes in 5L (1.32G) container.

| Model | Description | Ordering no. |
|---|---|---|
| Tellus 46 | 5L / 1.32G Container | 8434 2040 45 |

Maintenance kits are available for every pump model. Consult your local Rapid-Torc® representative for ordering information.



# Sample Set up

## Scenario 1

Location requires an air connection, needs to run two RT10s and we need about 30 feet of length on the hose.

### Solution

One Panther A380 **8434 2056 22**

Two 32-foot (10m) hoses to have enough range. **(8434 2123 74)**

Two 5L / 1.32G containers to fill the 1.5G tank **8434 2040 45**

## Scenario 2

Location is in the U.S., has electrical connection, and allows electrical pump to run. We need to run one RTX2, but the environment is a bit rough so the pump needs to be protected. Not working too far from electrical connection.

### Solution

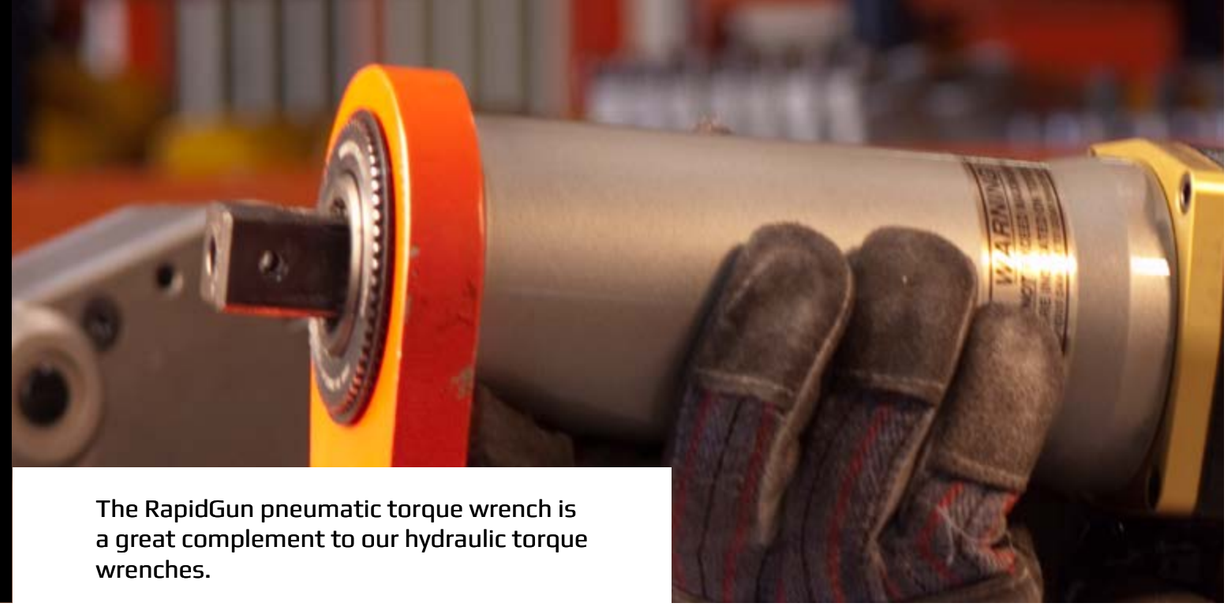
One 110V Panther 025 with full, rugged frame **8434 2040 31**

One 15ft (5m) hose **4222 2124 12**

One 5L/ 1.32G container of oil to fill the .5G tank **8434 2040 45**



Hydraulic Torque Wrenches



The RapidGun pneumatic torque wrench is a great complement to our hydraulic torque wrenches.

## Pre-torque or post break-out.

The RapidGun has become a valuable complement to our hydraulic torque wrenches. Teams normally use the RapidGun to pretorque the application, and then finish up the final passes of high torque values with the RT or RTX series. When breaking out the application, teams use the ultra-powerful RT or RTX to break out nuts, and then finish up with the RapidGun. Our four RapidGun models cover most popular applications.



Double ended reaction arm

Blank reaction arm

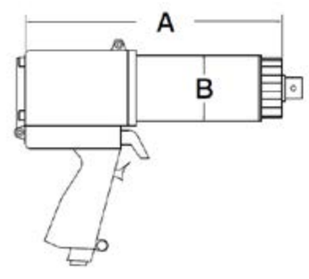
Double bank reaction arm

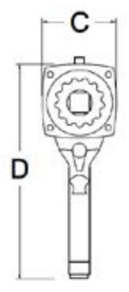
# RapidGun. Complementing our powerful hydraulic torque wrenches.



### RapidGun Key Features

- Up to 6,800 Nm/5,000 ft.lbs.
- Extremely quiet, produces noise at only 75 dB
- Low vibration at only 2.5m/s$^2$
- Tooling accuracy guaranteed within +/-5%
- Comes standard with carrying case and standard reaction arm
- Application-specific reaction arms can be designed

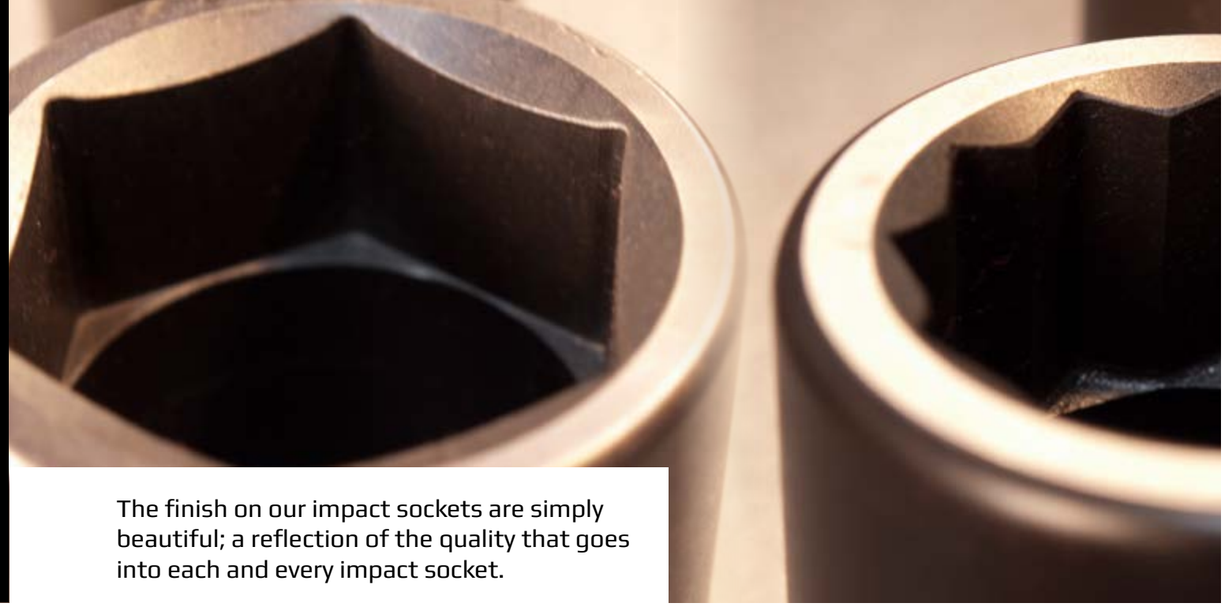



| dimensions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| a | | b | | c | | d | | weight | | noise |
| mm | in | mm | in | mm | in | mm | in | kg | lbs | db |
| 207.01 | 8.15 | 63.50 | 2.50 | 69.85 | 2.75 | 204.98 | 8.07 | 3.63 | 8 | 80 |
| 246.38 | 9.70 | 78.74 | 3.10 | 83.82 | 3.30 | 241.30 | 9.50 | 6.12 | 13.5 | 85 |
| 317.50 | 12.50 | 86.36 | 3.40 | 93.98 | 3.70 | 274.32 | 10.80 | 5.44 | 12 | 85 |
| 347.98 | 13.70 | 101.60 | 4.00 | 101.60 | 4.00 | 276.86 | 10.90 | 12.52 | 27.6 | 85 |

## Torque Range by Model

| torque range | | | | | |
|---|---|---|---|---|---|
| model | square drive | nM | ft.lbs | RPM | Ordering no. |
| RG-10GX | 3/4” | 271-1355 | 200-1000 | 20 | 8434 2030 05 |
| RG-25GX | 1” | 677-3389 | 500-2500 | 9 | 8434 2131 63 |
| RG-34GX | 1” | 1355-4609 | 1000-3400 | 12 | 8434 2030 07 |
| RG-60DX | 1-1/2” | 2711-8133 | 2000-6000 | 6.6 | 8434 2131 75 |



The finish on our impact sockets are simply beautiful; a reflection of the quality that goes into each and every impact socket.

# Rapid-Torc Impact Power Sockets. Truly unbreakable.

6 point

12 point

- Produced in Sweden since 1951
- Stringent production standards to ensure quality
- Produced in the world's only ISO 14001:2004 compliant socket plant

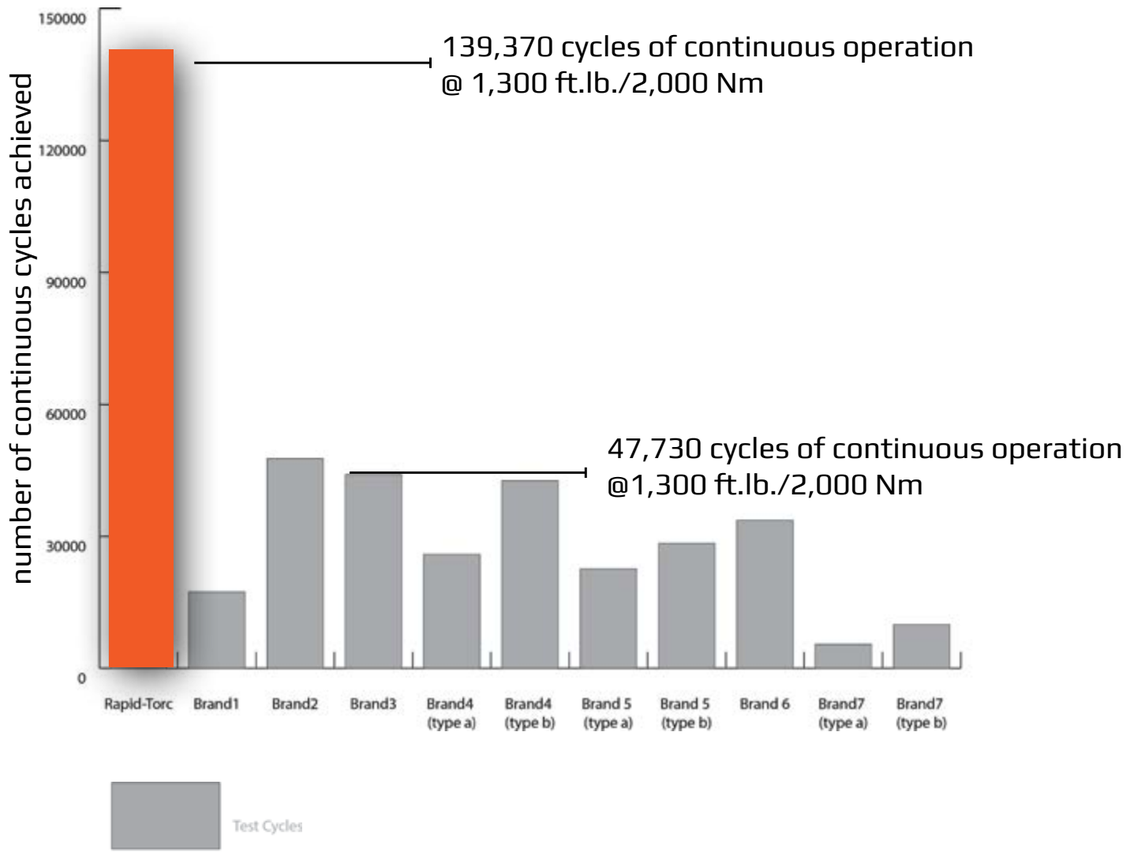




## Your work is too critical, and your people too valuable.

Rapid-Torc sockets are beyond doubt the most durable and safe sockets in the market. We tested our 3/4" Square drive 24mm AF, against 9 similar sockets from 7 major brands*. The test consisted of cycling the sockets at 1,300 ft.lb./2000 Nm, continuously until failure. Rapid-Torc sockets lasted 139,370 cycles until breakage, while the nearest competitor only reached 47,730 cycles, 65% less.

**Socket Comparison Test**



# 3/4" Drive Sockets.
## Standard, 12 point, and Long Socket.

### Metric

| Model | Across Flat | Ordering no. |
|---|---|---|
| 2-012/19MM | 3/4"=19mm | 8434 2050 58 |
| 2-012/19MM 12pt* | 3/4"=19mm-12 pt* | 8434 2050 60 |
| 2-16MM | 16mm | 8434 2051 12 |
| 2-17MM | 17mm | 8434 2051 14 |
| 2-18MM | 18mm | 8434 2051 16 |
| 2-20MM | 20mm | 8434 2051 38 |
| 2-21MM | 21mm | 8434 2051 42 |
| 2-22MM | 22mm | 8434 2051 44 |
| 2-22MM 12pt* | 22mm-12pt* | 8434 2124 85 |
| 2-22MM L | 22mm-L* | 8434 2124 88 |
| 2-23MM | 23mm | 8434 2124 91 |
| 2-24MM | 24mm | 8434 2051 46 |
| 2-26MM | 26mm | 8434 2051 48 |
| 2-28MM | 28mm | 8434 2124 94 |
| 2-29MM | 29mm | 8434 2124 97 |
| 2-32MM | 32mm | 8434 2051 50 |
| 2-32MM 12pt* | 32mm-12pt* | 8434 2051 52 |
| 2-33MM | 33mm | 8434 2125 00 |
| 2-34MM | 34mm | 8434 2125 03 |
| 2-36MM | 36mm | 8434 2125 06 |
| 2-36MM L | 36mm-L* | 8434 2051 54 |
| 2-37MM | 37mm | 8434 2125 09 |
| 2-41MM | 41mm | 8434 2051 56 |
| 2-41MM L | 41mm-L* | 8434 2051 58 |
| 2-42MM | 42mm | 8434 2125 12 |
| 2-47MM | 47mm | 8434 2125 15 |
| 2-50MM | 50mm | 8434 2051 60 |
| 2-50MM 12pt* | 50mm-12pt* | 8434 2125 18 |
| 2-50MM L | 50mm-L* | 8434 2125 21 |
| 2-52MM | 52mm | 8434 2125 24 |
| 2-55MM | 55mm | 8434 2051 62 |
| 2-55MM Long | 55mm-L* | 8434 2051 63 |
| 2-60MM | 60mm | 8434 2051 66 |
| 2-212=70MM | 2 3/4'-70mm | 8434 2051 40 |

12 Point, Thin Wall and Custom sizes available upon request.



# 3/4" Drive (continued)
## Standard, 12 point, and Long Socket.

### Imperial

| Model | Across Flat | Ordering no. |
|---|---|---|
| 2-010 | 5/8' AF | 8434 2059 01 |
| 2-011 | 11/16"AF | 8434 2050 54 |
| 2-011 12pt* | 11/16"AF-12 pt* | 8434 2050 56 |
| 2-012 L | 3/4" Sq Dr | 8434 2124 37 |
| 2-013 | 13/16" AF | 8434 2050 62 |
| 2-013 12pt* | 13/16"-12 pt* | 8434 2050 64 |
| 2-014 | 7/8" | 8434 2124 40 |
| 2-015 | 15/16" | 8434 2050 66 |
| 2-015 12pt* | 15/16"-12pt* | 8434 2050 68 |
| 2-100 | 1" | 8434 2050 70 |
| 2-100 12pt* | 1"-12pt* | 8434 2050 72 |
| 2-101 | 1 1/16"-27 | 8434 2050 74 |
| 2-101 | 1 1/16"-27 | 8434 2050 74 |
| 2-101 12pt* | 1 1/16"-27-12pt* | 8434 2050 76 |
| 2-101 12pt* | 1 1/16"-27-12pt* | 8434 2050 76 |
| 2-102 | 1 1/8" | 8434 2050 78 |
| 2-102 12 PT | 1 1/8"-12pt** | 8434 2124 43 |
| 2-103 | 1 3/16-30" | 8434 2050 80 |
| 2-103 12pt* | 1 3/16"-30-12pt* | 8434 2050 82 |
| 2-103 12pt* | 1 3/16"-30-12pt* | 8434 2050 82 |
| 2-103 L | 1 3/16"-30-L* | 8434 2050 84 |
| 2-103 L | 1 3/16"-30-L* | 8434 2050 84 |
| 2-104 | 1 1/4" | 8434 2124 46 |
| 2-104 12pt* | 1 1/4"-12pt* | 8434 2050 86 |
| 2-105 | 1 5/16" | 8434 2124 49 |
| 2-106 | 1 3/8"-35 | 8434 2124 52 |
| 2-106 | 1 3/8"-35 | 8434 2124 52 |
| 2-106 12pt* | 1 3/8"-35-12pt* | 8434 2050 88 |
| 2-106 12pt* | 1 3/8"-35-12pt* | 8434 2050 88 |
| 2-107 | 1 7/16" | 8434 2124 55 |
| 2-107 12pt* | 1 7/16"-12pt* | 8434 2050 90 |
| 2-107 L | 1 7/16"L* | 8434 2124 58 |
| 2-108 | 1 1/2"-38 | 8434 2124 61 |
| 2-108 | 1 1/2"-38 | 8434 2124 61 |
| 2-108 12pt* | 1 1/2"-38-12pt* | 8434 2050 92 |
| 2-108 12pt* | 1 1/2"-38-12pt* | 8434 2050 92 |
| 2-109 | 1 9/16" | 8434 2050 94 |
| 2-109 12pt* | 1 9/16"-12pt* | 8434 2050 96 |
| 2-110 | 1 5/8" | 8434 2050 98 |
| 2-110 L | 1 5/8"L* | 8434 2124 64 |
| 2-111 | 1 11/16"-43 | 8434 2051 00 |
| 2-111 | 1 11/16"-43 | 8434 2051 00 |
| 2-111 12pt* | 1 11/16"-43-12pt* | 8434 2051 02 |
| 2-111 12pt* | 1 11/16"-43-12pt* | 8434 2051 02 |
| 2-112 | 1 3/4" | 8434 2124 67 |
| 2-112 12pt* | 1 3/4"-12pt** | 8434 2051 04 |
| 2-113 | 1 13/16"-46 | 8434 2051 06 |
| 2-113 | 1 13/16"-46 | 8434 2051 06 |
| 2-113 12pt* | 1 13/16"-46-12pt* | 8434 2051 08 |
| 2-113 12pt* | 1 13/16"-46-12pt* | 8434 2051 08 |
| 2-113 L | 1 13/16-46L* | 8434 2124 70 |
| 2-114 | 1 7/8" | 8434 2124 73 |
| 2-114 12pt* | 1 7/8"12pt* | 8434 2051 10 |
| 2-200 | 2" | 8434 2124 76 |
| 2-200 12pt* | 2"-12pt* | 8434 2051 18 |
| 2-200-L* | 2"-L* | 8434 2051 20 |

12 Point, Thin Wall and Custom sizes available upon request.

# 1" Drive Sockets

## Standard, 12 point, and Long Socket.

### Metric

| Model | Across Flat | Ordering no. |
|---|---|---|
| 9-19MM | 3/4"-19 | 8434 2054 48 |
| 9-19MM 12pt* | 3/4"-19-12pt* | 8434 2126 89 |
| 9-19MM L | 3/4"-19-L* | 8434 2054 49 |
| 9-21MM | 21mm | 8434 2055 58 |
| 9-22MM | 22mm | 8434 2055 60 |
| 9-22MM Long | 22mm-L* | 8434 2055 62 |
| 9-24MM | 24mm | 8434 2127 85 |
| 9-24MM 12pt* | 24mm-L* | 8434 2127 88 |
| 9-27MM | 1 1/16"-27 | 8434 2054 64 |
| 9-27MM 12pt* | 1 1/16"-27-12pt* | 8434 2054 66 |
| 9-30MM | 1 3/16"-30 | 8434 2054 72 |
| 9-30MM 12pt* | 1 3/16"-30-12pt* | 8434 2054 74 |
| 9-30MM L | 1 3/16"-30-L* | 8434 2126 98 |
| 9-32MM | 32mm | 8434 2055 88 |
| 9-32MM 12pt* | 32mm-12pt* | 8434 2128 18 |
| 9-36MM | 36mm | 8434 2055 90 |
| 9-36MM 12pt* | 36mm-12pt* | 8434 2128 30 |
| 9-41MM | 41mm | 8434 2056 00 |
| 9-41MM 12pt* | 41mm-12pt* | 8434 2128 45 |
| 9-46MM | 1 13/16"-46 | 8434 2055 00 |
| 9-46MM 12pt* | 46mm-12pt* | 8434 2128 57 |
| 9-46MM L | 1 13/16"-46-L* | 8434 2055 04 |
| 9-46MM-12pt* | 1 13/16"-46-12pt* | 8434 2054 95 |
| 9-46MM-L* | 1 13/16"-46-L* | 8434 2054 93 |
| 9-50MM | 50mm | 8434 2056 02 |
| 9-50MM 12pt* | 50mm-12pt* | 8434 2128 66 |
| 9-55MM | 55mm | 8434 2056 04 |
| 9-55MM 12pt* | 55mm-12pt* | 8434 2128 72 |

| Model | Across Flat | Ordering no. |
|---|---|---|
| 9-55MM L | 55mm-L* | 8434 2056 06 |
| 9-60MM | 60mm | 8434 2056 08 |
| 9-60MM 12pt* | 60mm-12pt* | 8434 2128 78 |
| 9-65MM | 2 9/16"-65 | 8434 2055 36 |
| 9-65MM 12 PT | 2 9/16"-65-12pt* | 8434 2055 37 |
| 9-65MM L | 2 9/16"-65-L* | 8434 2055 38 |
| 9-70MM | 2 3/4"-70 | 8434 2055 48 |
| 9-70MM 12pt* | 2 3/4"-70-12pt* | 8434 2055 50 |
| 9-70MM L | 23/4"-70-L* | 8434 2055 52 |
| 9-75MM | 75mm | 8434 2056 10 |
| 9-80MM | 80mm | 8434 2056 12 |
| 9-85MM | 85mm | 8434 2056 14 |
| 9-85MM L | 85mm-L* | 8434 2056 16 |
| 9-90MM | 90mm | 8434 2056 18 |
| 9-95MM | 3 3/4"-95 | 8434 2055 86 |
| 9-95MM 12pt* | 3 3/4"-95-12pt* | 8434 2128 12 |
| 9-100MM | 100mm | 8434 2054 62 |

12 Point, Thin Wall and Custom sizes available upon request.



# 1" Drive (continued)

## Standard, 12 point, and Long Socket.

### Imperial

| Model | Across Flat | Ordering no. |
|---|---|---|
| 9-012 | 3/4"-19 | 8434 2054 48 |
| 9-012 12pt* | 3/4"-19-12pt* | 8434 2126 89 |
| 9-012 L | 3/4"-19-L* | 8434 2054 49 |
| 9-014 | 7/8" | 8434 2054 50 |
| 9-014 12pt* | 7/8"-12pt* | 8434 2054 52 |
| 9-100 | 1" | 8434 2054 58 |
| 9-100 12pt* | 1"-12pt* | 8434 2054 60 |
| 9-100 L | 1"-L* | 8434 2126 92 |
| 9-100 L 12pt* | 1"-12pt*-L* | 8434 2126 95 |
| 9-104 | 1 1/14" | 8434 2127 01 |
| 9-104 12 PT | 1 1/4"-12pt* | 8434 2127 04 |
| 9-104 L 12pt* | 1 1/4"-12pt*-L* | 8434 2054 76 |
| 9-107 | 1 7/16" | 8434 2054 82 |
| 9-107 12pt* | 1 7/16"-12pt* | 8434 2127 13 |
| 9-107 L | 1 7/16"-L* | 8434 2054 84 |
| 9-107 L 12pt* | 1 7/16"-12pt*-L* | 8434 2054 86 |
| 9-108 | 1 1/12"-38 | 8434 2127 16 |
| 9-108 12pt* | 1 1/2"-38-12pt* | 8434 2127 19 |
| 9-108-L*-12pt* | 1 1/2"-38-L*-12pt* | 8434 2054 87 |
| 9-110 | 1 5/8" | 8434 2054 92 |
| 9-110 12pt* | 1 5/8"-12pt* | 8434 2054 94 |
| 9-110 L | 1 5/8"-L* | 8434 2127 22 |
| 9-113 | 1 13/16"-46 | 8434 2055 00 |
| 9-113 L | 1 13/16"-46-L* | 8434 2055 04 |
| 9-113-12pt* | 1 13/16"-46-12pt* | 8434 2054 95 |
| 9-113-L* | 1 13/16"-46-L* | 8434 2054 93 |
| 9-200 | 2" | 8434 2127 34 |
| 9-200 12pt* | 2"-12pt* | 8434 2055 14 |
| 9-200 L | 2"-L* | 8434 2055 16 |
| 9-200 L 12pt* | 2"-12pt*-L* | 8434 2055 18 |
| 9-200 TW | 2"-TW* | 8434 2127 37 |
| 9-203 | 2 3/16" | 8434 2127 46 |
| 9-203 12pt* | 2 3/16"-12pt* | 8434 2127 49 |
| 9-203 L | 2 3/16"-L* | 8434 2127 52 |
| 9-206 | 2 3/8" | 8434 2127 55 |

| Model | Across Flat | Ordering no. |
|---|---|---|
| 9-206 12pt* | 2 3/8"-12pt* | 8434 2127 58 |
| 9-206 L | 2 3/8"-L* | 8434 2127 61 |
| 9-209 | 2 9/16"-65 | 8434 2055 36 |
| 9-209 12 PT | 2 9/16"-65-12pt* | 8434 2055 37 |
| 9-209 L | 2 9/16"-65-L* | 8434 2055 38 |
| 9-209=65M 12 PT | 2 9/16"-65-12pt* | 8434 2055 34 |
| 9-212 | 2 3/4"-70 | 8434 2055 48 |
| 9-212 12pt* | 2 3/4"-70-12pt* | 8434 2055 50 |
| 9-212 L | 23/4"-70-L* | 8434 2055 52 |
| 9-215 | 2 15/16" | 8434 2127 82 |
| 9-215 12pt* | 2 15/16"-12pt* | 8434 2055 56 |
| 9-300 | 3" | 8434 2128 00 |
| 9-300 12pt* | 3"-12pt* | 8434 2055 64 |
| 9-302 | 3 1/8" | 8434 2055 70 |
| 9-302 12pt* | 3 1/8"-12pt* | 8434 2055 72 |
| 9-308 | 3 1/2" | 8434 2055 84 |
| 9-314 | 3 7/8" | 8434 2128 15 |

12 Point, Thin Wall and Custom sizes available upon request.

# 1 ½" Drive Sockets.

## Standard, 12 point, and Long Socket.

### Metric

| Model | Across Flat | Ordering no. |
|---|---|---|
| 5-27MM | 1 1/16"-27 | 8434 2051 78 |
| 5-27MM 12pt* | 1 1/16"-27-12pt* | 8434 2125 42 |
| 5-30MM | 1 3/16"-30 | 8434 2051 84 |
| 5-30MM 12pt* | 1 3/16"-30-12pt* | 8434 2125 48 |
| 5-32MM | 32mm | 8434 2053 28 |
| 5-36MM | 36mm | 8434 2053 30 |
| 5-41MM | 41mm | 8434 2125 93 |
| 5-46MM | 1 1/16"-46 | 8434 2052 24 |
| 5-46MM 12pt* | 1 13/16"-46-12pt* | 8434 2052 26 |
| 5-50MM | 50mm | 8434 2053 56 |
| 5-50MM 12pt* | 50mm-12pt* | 8434 2126 11 |
| 5-50MM L | 50mm-L* | 8434 2126 14 |
| 5-55MM | 55mm | 8434 2053 62 |
| 5-60MM | 60mm | 8434 2053 64 |
| 5-60MM L | 60mm-L* | 8434 2126 23 |
| 5-65MM | 65mm | 8434 2126 29 |
| 5-65MM | 2 9/16"-65 | 8434 2052 76 |
| 5-65MM-12pt* | 2 9/16"-65-12pt* | 8434 2052 78 |
| 5-70MM | 70mm | 8434 2126 32 |
| 5-70MM | 2 3/4"-70 | 8434 2052 86 |
| 5-70MM 12pt* | 2 3/4"-70-12pt* | 8434 2052 88 |
| 5-75MM | 75mm | 8434 2126 35 |
| 5-75MM L | 75mm-L* | 8434 2126 38 |
| 5-80MM | 80mm | 8434 2053 66 |
| 5-85MM | 85mm | 8434 2053 68 |
| 5-90MM | 90mm | 8434 2053 70 |
| 5-95MM | 95mm | 8434 2126 44 |
| 5-95MM | 3 3/4"-95 | 8434 2053 24 |
| 5-100MM | 100mm | 8434 2051 76 |

| Model | Across Flat | Ordering no. |
|---|---|---|
| 5-105MM | 4 1/8"-105 | 8434 2053 36 |
| 5-110MM | 110mm | 8434 2052 14 |
| 5-115MM | 115mm | 8434 2052 36 |
| 5-120MM | 120mm | 8434 2052 38 |
| 5-125MM | 125mm | 8434 2052 40 |
| 5-130MM | 130MM | 8434 2059 02 |
| 5-135MM | 135mm | 8434 2125 54 |
| 5-145MM | 145mm | 8434 2125 57 |
| 5-150MM | 150MM | 8434 2059 03 |
| 5-155MM | 155MM | 8434 2059 04 |

12 Point, Thin Wall and Custom sizes available upon request.



# 1 ½" Drive (continued)

## Standard, 12 point, and Long Socket.

### Imperial

| Model | Across Flat | Ordering no. |
|---|---|---|
| 5-104 | 1 1/4" | 8434 2051 86 |
| 5-104 12pt* | 1 1/4"-12pt* | 8434 2051 88 |
| 5-107 | 1 7/16" | 8434 2051 98 |
| 5-107 12pt* | 1 7/16"-12pt* | 8434 2052 00 |
| 5-107 L | 1 7/16"L | 8434 2052 02 |
| 5-108 | 1 1/2"-38 | 8434 2052 04 |
| 5-108 12pt* | 1 1/2"-38-12pt* | 8434 2052 06 |
| 5-110 | 1 5/8" | 8434 2052 10 |
| 5-110 12pt* | 1 5/8"-12pt* | 8434 2052 12 |
| 5-113 | 1 1/16"-46 | 8434 2052 24 |
| 5-113 12pt* | 1 13/16"-46-12pt* | 8434 2052 26 |
| 5-200 | 2" | 8434 2052 42 |
| 5-200 12pt* | 2"-12pt* | 8434 2052 44 |
| 5-203 | 2 3/16" | 8434 2052 54 |
| 5-203 12pt* | 2 3/16"-12pt* | 8434 2052 56 |
| 5-206 | 2 3/8" | 8434 2125 60 |
| 5-206 12pt* | 2 3/8"-12pt* | 8434 2052 66 |
| 5-206 L | 2 3/8"L | 8434 2052 68 |
| 5-209 | 2 9/16"-65 | 8434 2052 76 |
| 5-209-12pt* | 2 9/16"-65-12pt* | 8434 2052 78 |
| 5-212 | 2 3/4"-70 | 8434 2052 86 |
| 5-212 12pt* | 2 3/4"-70-12pt* | 8434 2052 88 |
| 5-212-SP | 2 3/4" special | 8434 2125 69 |
| 5-215 | 2 15/16" | 8434 2052 96 |
| 5-215 12pt* | 2 15/16"-12pt* | 8434 2052 98 |
| 5-300 | 3" | 8434 2053 00 |
| 5-300 12pt* | 3"-12pt* | 8434 2053 02 |
| 5-302 | 3 1/8" | 8434 2125 72 |
| 5-302 12pt* | 3 1/8"-12pt* | 8434 2053 08 |

| Model | Across Flat | Ordering no. |
|---|---|---|
| 5-302-TW* | 3 1/8"-TW** | 8434 2125 75 |
| 5-308 | 3 1/2" | 8434 2053 18 |
| 5-308 12pt* | 3 1/2"-12pt* | 8434 2053 20 |
| 5-314 | 3 7/8" | 8434 2053 26 |
| 5-401 | 4 1/16" | 8434 2053 35 |
| 5-404 | 4 1/4" | 8434 2053 38 |
| 5-404 12pt* | 4 1/4"-12pt* | 8434 2053 40 |
| 5-410 | 4 5/8" | 8434 2053 44 |
| 5-500 | 5" | 8434 2053 48 |
| 5-506 | 5 3/8" | 8434 2053 54 |
| 5-512 | 5 3/4" | 8434 2053 58 |
| 5-514 | 5 7/8" | 8434 2053 60 |
| 5-602 | 6 1/8" | 8434 2059 05 |

12 Point, Thin Wall and Custom sizes available upon request.

# 2 ½" Drive Sockets

## Standard, 12 point, and Long Socket.

### Metric

| Model | Across Flat | Ordering no. |
|---|---|---|
| 6-55MM | 55mm | 8434 2054 08 |
| 6-60MM | 60MM | 8434 2059 06 |
| 6-75MM | 75MM | 8434 2059 07 |
| 6-80MM | 80mm | 8434 2054 12 |
| 6-85MM | 85mm | 8434 2054 16 |
| 6-90MM | 90mm | 8434 2054 18 |
| 6-65MM | 2 9/16"-65 | 8434 2053 86 |
| 6-70MM | 2 3/4"-70 | 8434 2053 88 |
| 6-95MM | 3 3/4"-95 | 8434 2053 94 |
| 6-100MM | 100mm | 8434 2053 72 |
| 6-105MM | 105mm | 8434 2126 47 |
| 6-110MM | 110mm | 8434 2053 74 |
| 6-115MM | 115mm | 8434 2053 76 |
| 6-120MM | 120mm | 8434 2053 78 |
| 6-125MM | 125mm | 8434 2053 80 |
| 6-130MM | 130mm | 8434 2053 82 |
| 6-135MM | 135mm | 8434 2053 84 |
| 6-140MM | 140mm | 8434 2126 50 |
| 6-145MM | 145MM | 8434 2059 08 |
| 6-150MM | 150MM | 8434 2059 09 |
| 6-155MM | 155MM | 8434 2059 10 |
| 6-160MM | 160MM | 8434 2059 11 |
| 6-165MM | 165MM | 8434 2059 12 |
| 6-170MM | 170MM | 8434 2059 13 |
| 6-175MM | 175MM | 8434 2059 14 |
| 6-180MM | 180MM | 8434 2059 15 |
| 6-185MM | 185MM | 8434 2059 16 |

| Model | Across Flat | Ordering no. |
|---|---|---|
| 6-190MM | 190MM | 8434 2059 17 |
| 6-200MM | 200MM | 8434 2059 18 |
| 6-210MM | 210MM | 8434 2059 19 |
| 6-215MM | 215MM | 8434 2059 20 |
| 6-235MM | 235MM | 8434 2059 21 |
| 6-255MM | 255MM | 8434 2059 22 |

12 Point, Thin Wall and Custom sizes available upon request.



### Imperial

| Model | Across Flat | Ordering no. |
|---|---|---|
| 6-209 | 2 9/16"-65 | 8434 2053 86 |
| 6-212 | 2 3/4"-70 | 8434 2053 88 |
| 6-312 | 3 3/4"-95 | 8434 2053 94 |
| 6-402 | 4 1/8"-105 | 8434 2054 00 |
| 6-200 | 2" | 8434 2053 85 |
| 6-203 | 2 3/16" | 8434 2126 53 |
| 6-206 | 2 3/8" | 8434 2126 56 |
| 6-207 | 2 7/16" | 8434 2126 59 |
| 6-215 | 2 15/16" | 8434 2053 90 |
| 6-300 | 3" | 8434 2126 62 |
| 6-302 | 3 1/8" | 8434 2126 65 |
| 6-308 | 3 1/2" | 8434 2053 92 |
| 6-310 | 3 5/8" | 8434 2126 68 |
| 6-314 | 3 7/8" | 8434 2053 96 |
| 6-400 | 4" | 8434 2053 98 |
| 6-401 | 4 1/16" | 8434 2053 99 |
| 6-404 | 4 1/4" | 8434 2054 02 |
| 6-406 | 4 3/8" | 8434 2126 71 |
| 6-410 | 4 5/8" | 8434 2054 04 |
| 6-500 | 5" | 8434 2126 74 |
| 6-503 | 5 3/16" | 8434 2054 06 |

| Model | Across Flat | Ordering no. |
|---|---|---|
| 6-506 | 5 3/8" | 8434 2126 77 |
| 6-512 | 5 3/4" | 8434 2126 80 |
| 6-602 | 6 1/8" | 8434 2126 83 |
| 6-608 | 6 1/2" | 8434 2054 10 |
| 6-814 | 8 7/8" | 8434 2054 14 |
| 6-206 | 2 3/8" | 8434 2126 56 |
| 6-215 | 2 15/16IN | 8434 2053 90 |
| 6-300 | 3" | 8434 2126 62 |
| 6-302 | 3 1/8" | 8434 2126 65 |
| 6-308 | 3 1/2IN | 8434 2053 92 |
| 6-314 | 3 7/8IN | 8434 2053 96 |
| 6-700 | 7" AF | 8434 2059 23 |
| 6-705 | 7-5/16" AF | 8434 2059 24 |
| 6-713 | 7-13/16" AF | 8434 2059 25 |
| 6-902 | 9 1/8" AF | 8434 2059 26 |
| 6-1000 | 10" AF | 8434 2059 27 |

12 Point, Thin Wall and Custom sizes available upon request.

Backup wrenches complement our powerful hydraulic torque wrenches.

# Rapid-Torc Backup Wrenches

## Rapid-Torc backup wrench works in conjunction with any of our bolting tools and safely prevents the nut from rotating.

| Model | Hex Size | Ordering No. |
|---|---|---|
| BK-30MM | 30mm | 8434 2129 26 |
| BK-36MM | 36mm | 8434 2129 32 |
| BK-41MM | 41 mm/ 110 | 8434 2056 28 |
| BK-46 | 46mm | 8434 2056 30 |
| BK-50 | 50mm | 8434 2056 32 |
| BK-55 | 55mm | 8434 2056 34 |
| BK-60 | 60mm | 8434 2056 36 |
| BK-65 | 65mm | 8434 2056 38 |
| BK-70MM | 70mm | 8434 2129 41 |
| BK-75MM | 75mm | 8434 2056 55 |
| BK-85MM | 85mm | 8434 2129 44 |
| BK-95 | 95mm | 8434 2129 29 |
| BK-100MM | 100mm | 8434 2056 24 |
| BK-110MM | 110mm | 8434 2128 99 |
| BK-120MM | 120mm | 8434 2129 08 |
| | | |
| BK-104=32MM | 1 1/4"-32 | 8434 2128 90 |
| BK-105MM | 1 5/16" | 8434 2128 93 |
| BK-107 | 1 7/8" | 8434 2056 26 |
| BK-108 | 1 1/2" | 8434 2128 96 |
| BK-110 | 1 5/8" | 8434 2056 28 |
| BK-112 | 1 3/4" | 8434 2129 02 |

| Model | Hex Size | Ordering No. |
|---|---|---|
| BK-113 | 1 13/16" | 8434 2056 30 |
| BK-114 | 1 7/8" | 8434 2129 05 |
| BK-200 | 2" | 8434 2056 32 |
| BK-201 | 2 1/16" | 8434 2129 11 |
| BK-202 | 2 1/8" | 8434 2129 14 |
| BK-203 | 2 3/16" | 8434 2056 34 |
| BK-204 | 2 1/4" | 8434 2129 17 |
| BK-206 | 2 3/8" | 8434 2056 36 |
| BK-209 | 2 9/16" | 8434 2056 38 |
| BK-210 | 2 5/8" | 8434 2056 40 |
| BK-212 | 2 3/4" | 8434 2056 42 |
| BK-215 | 2 15/16" | 8434 2056 44 |
| BK-237 | 2 3/8" | 8434 2129 20 |
| BK-300 | 3" | 8434 2129 23 |
| BK-302 | 3 1/8" | 8434 2056 46 |
| BK-302=80MM | 3 1/8"-80 | 8434 2056 53 |
| BK-308 | 3 1/2" | 8434 2056 48 |
| BK-308=90MM | 3 1/2"-90 | 8434 2056 51 |
| BK-312 | 3 3/4" | 8434 2129 29 |
| BK-314 | 3 7/8" | 8434 2056 50 |
| BK-402 | 4 1/8" | 8434 2129 35 |
| BK-404 | 4 1/4" | 8434 2129 38 |





Backup Wrenches drastically improve safety by eliminating the need for hammer wrenches and spanners.

**T-SCREW OPERATION**
Easily remove by twisting the top screw. No hammers needed

**HIGH STRENGTH AXIS**
Adjustable reaction, heat treated for durability

**THIN PROFILE**
Adjusts to any application

**12 POINT**
The backup wrench fits standard and 12 point nuts.

**ALLOY STEEL CONSTRUCTION**
High quality material avoids tool failure

# TorcBox: Customized to your application.

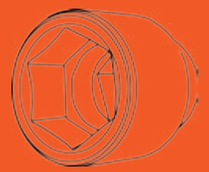
Rapid-Torc can customize a TorcBox tailored to your application. Give us the specifications and we'll put in all the hydraulic torque wrenches, accessories and pumps you need.

Choose your TorcBox.
Scan the QR code to view the TorcBox for your industry.

**Starter Box Now Available!** Includes 1 tool, 1 pump and basic accessories to get you up and running.

## Absolutely everything you need to get the job done*

RT
SQUARE DRIVE



UNBREAKABLE
IMPACT
SOCKETS

RTX
POWERHEADS

COMPLETE
RATCHET LINKS

*Includes a combination of hydraulic torque wrenches, pumps and accessories.

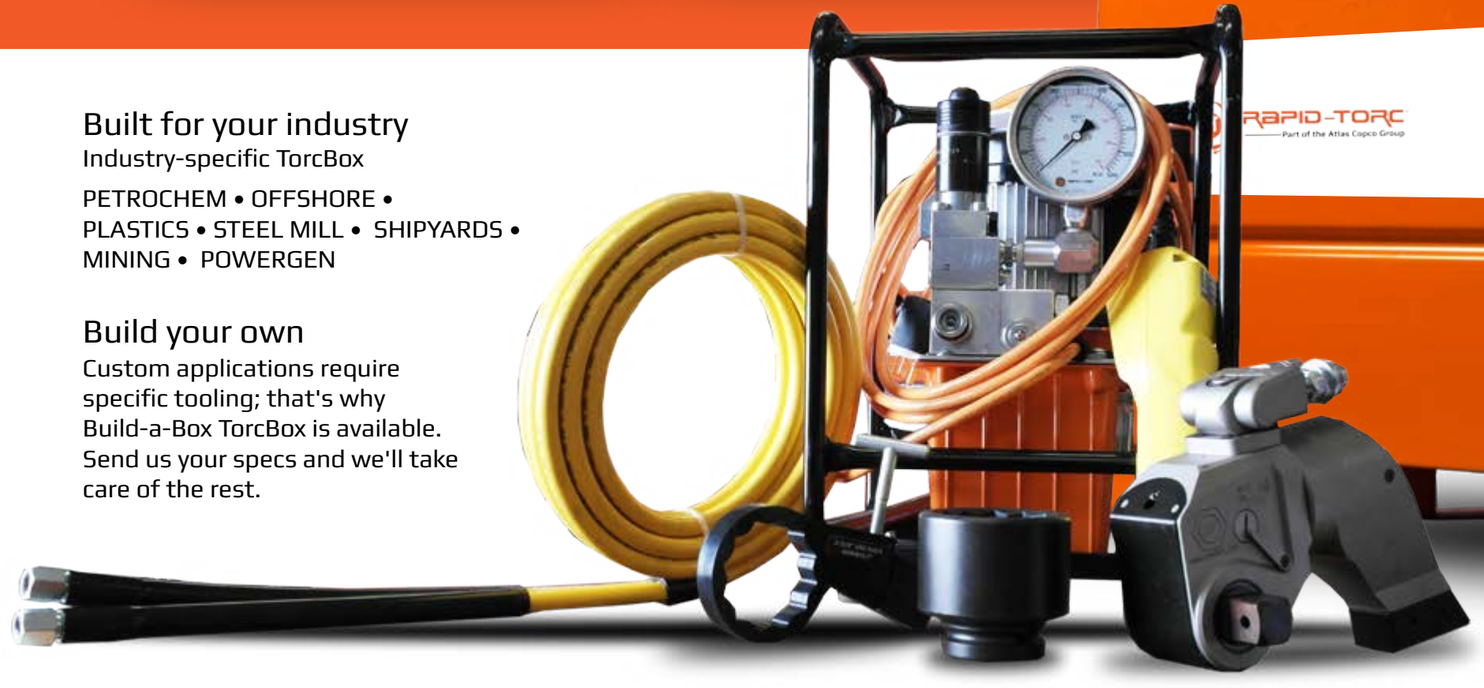
## Built for your industry

Industry-specific TorcBox

PETROCHEM • OFFSHORE •
PLASTICS • STEEL MILL • SHIPYARDS •
MINING • POWERGEN

## Build your own

Custom applications require specific tooling; that's why Build-a-Box TorcBox is available. Send us your specs and we'll take care of the rest.

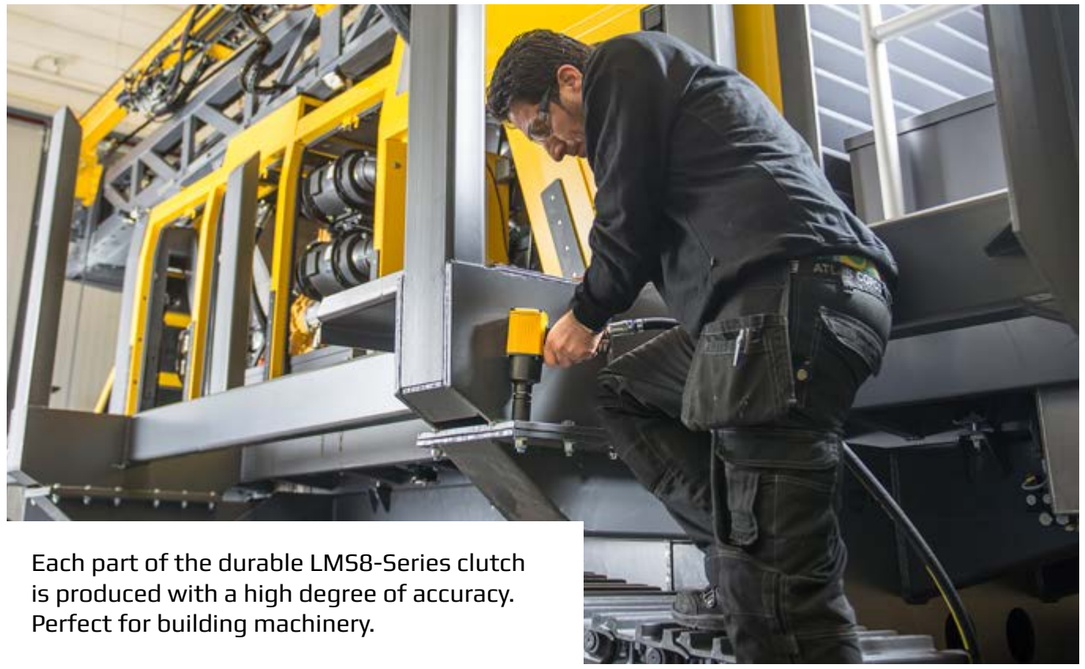






Hydraulic Torque Wrenches

# LMS8. Superduty, Industrial-grade Impact Wrenches.



Each part of the durable LMS8-Series clutch is produced with a high degree of accuracy. Perfect for building machinery.

## LMS8 features GRS

Long service intervals and lasting high performance

The unique and patented Grease Retaining System (GRS) allows for much longer service intervals. Because the grease stays in the clutch, low viscosity grease can be used which reduces friction, decreases wear and increases performance. The result: a very consistent, powerful and high performing tool.

## LMS Straight

## LMS Pistol Grip

| Model | Bolt size mm | Square drive in | Torque range Nm | Torque range ft lb | Max torque Nm | Max torque ft lb | Impacts per min | Free speed r/min | Weight kg | Weight lb | Length excl. anvil mm | CS distance mm | Air consumption under load l/s | Air consumption under load cfm | Rec. hose size mm | Air inlet thread in | Ordering No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LMS08 HR10 | 6-8 | 3/8 | 7-45 | 5-33 | 65 | 48 | 1650 | 14000 | 0.90 | 2.0 | 185 | 21 | 2.5 | 5 | 6.3 | 1/4 | 8434108000 |
| LMS08 HR42 | 6-8 | 1/4 [a] | 7-35 | 5-26 | 60 | 44 | 1650 | 14000 | 0.9 | 2.0 | 186 | 21 | 2.5 | 5 | 6.3 | 1/4 | 8434108005 |
| LMS08 SR42 | 6-8 | 1/4 [a] | 7-35 | 5-26 | 60 | 44 | 1650 | 12500 | 0.85 | 1.9 | 185 | 20 | 4.3 | 9.1 | 6.3 | 1/4 | 8434108106 |
| LMS08 SR10 | 6-8 | 3/8 | 7-45 | 5-33 | 65 | 48 | 1650 | 12500 | 0.85 | 1.9 | 184 | 20 | 4.3 | 9.1 | 6.3 | 1/4 | 8434108111 |
| LMS18 HR13 | 10 | 1/2 | 10-110 | 7-81 | 150 | 110 | 1500 | 8100 | 1.45 | 3.2 | 144 | 26 | 8.5 | 18 | 10 | 1/4 | 8434118000 |
| LMS18 HR10 | 10 | 3/8 | 10-90 | 7-66 | 120 | 88 | 1650 | 8100 | 1.45 | 3.2 | 148 | 26 | 6.5 | 14 | 10 | 1/4 | 8434118001 |
| LMS18 HR13/F | 10 | 1/2 | 10-110 | 7-81 | 150 | 110 | 1500 | 8100 | 1.45 | 3.2 | 144 | 26 | 8.5 | 18 | 10 | 1/4 | 8434118002 |
| LMS18 HR10/F | 10 | 3/8 | 10-90 | 7-66 | 120 | 88 | 1650 | 8100 | 1.45 | 3.2 | 148 | 26 | 6.5 | 14 | 10 | 1/4 | 8434118003 |
| LMS28 HR13 | 12 | 1/2 | 30-210 | 22-155 | 390 | 287 | 1500 | 9500 | 1.85 | 4.1 | 146 | 29 | 8.5 | 18 | 10 | 3/8 | 8434128000 |
| LMS28 HR13/F | 12 | 1/2 | 30-210 | 22-155 | 390 | 287 | 1500 | 9500 | 1.85 | 4.1 | 146 | 29 | 8.5 | 18 | 10 | 3/8 | 8434128001 |
| LMS38 HR13 | 14-16 | 1/2 | 40-375 | 29-276 | 850 | 627 | 1350 | 8000 | 2.6 | 5.7 | 167 | 29 | 10 | 21 | 10 | 3/8 | 8434138000 |
| LMS38 HR13/F | 14-16 | 1/2 | 40-375 | 29-276 | 850 | 627 | 1350 | 8000 | 2.6 | 5.7 | 167 | 29 | 10 | 21 | 10 | 3/8 | 8434138001 |
| LMS48 HR20 | 16-18 | 3/4 | 100-550 | 74-405 | 1375 | 1014 | 1100 | 6500 | 3.3 | 7.3 | 173 | 38 | 12 | 25.2 | 12.5 | 3/8 | 8434148000 |
| LMS58 HR25 | 20-22 | 1 | 300-800 | 221-590 | 1900 | 1401 | 900 | 5500 | 4.8 | 10.6 | 210 | 42 | 14.5 | 30.5 | 12.5 | 3/8 | 8434158000 |
| LMS58 HR20 | 18-20 | 3/4 | 300-800 | 221-590 | 1900 | 1401 | 900 | 5500 | 4.8 | 10.6 | 210 | 42 | 14.5 | 30.5 | 12.5 | 3/8 | 8434158001 |
| LMS68 GIR25 | 22-30 | 1 | 600-1800 | 442-1400 | 4450 | 3282 | 780 | 5000 | 9.6 | 21.1 | 339 | 55 | 28 | 58.9 | 16 | 1/2 | 8434168000 |
| LMS68 HR25 | 22-30 | 1 | 600-1800 | 442-1400 | 4450 | 3282 | 780 | 5000 | 9.8 | 21.5 | 252 | 55 | 28 | 58.9 | 16 | 1/2 | 8434168001 |
| LMS68 GOR25 | 22-30 | 1 | 600-1800 | 442-1400 | 4450 | 3282 | 780 | 5000 | 9.6 | 21.1 | 339 | 55 | 28 | 58.9 | 16 | 1/2 | 8434168002 |
| LMS68 HR S5 | 22-30 | 1 5/8 [b] | 600-1800 | 442-1400 | 4450 | 3282 | 780 | 5000 | 9.8 | 21.5 | 252 | 55 | 28 | 58.9 | 16 | 1/2 | 8434168003 |
| LMS68 GIR S5 | 22-30 | 1 5/8 [b] | 600-1800 | 442-1400 | 4450 | 3282 | 780 | 5000 | 9.6 | 21.1 | 339 | 55 | 28 | 58.9 | 16 | 1/2 | 8434168005 |
| LMS68 GOR S5 | 22-30 | 1 5/8 [b] | 600-1800 | 442-1400 | 4450 | 3282 | 780 | 5000 | 9.6 | 21.1 | 339 | 55 | 28 | 58.9 | 16 | 1/2 | 8434168010 |
| LMS88 GIR38 | 30-42 | 1 1/2 | 1000-5500 | 737-4054 | 10000 | 7370 | 540 | 3800 | 15.0 | 33.0 | 381 | 63.5 | 33 | 69.4 | 16 | 1/2 | 8434188000 |
| LMS88 GOR38 | 30-42 | 1 1/2 | 1000-5500 | 737-4054 | 10000 | 7370 | 540 | 3800 | 15.0 | 33.0 | 381 | 63.5 | 33 | 69.4 | 16 | 1/2 | 8434188001 |
| LMS88 GIR S5 | 30-42 | 1 5/8 [b] | 1000-5500 | 737-4054 | 10000 | 7370 | 540 | 3800 | 15.0 | 33.0 | 381 | 63.5 | 33 | 69.4 | 16 | 1/2 | 8434188005 |
| LMS88 GOR S5 | 30-42 | 1 5/8 [b] | 1000-5500 | 737-4054 | 10000 | 7370 | 540 | 3800 | 15.0 | 33.0 | 381 | 63.5 | 33 | 69.4 | 16 | 1/2 | 8434188010 |

[a] Female hex. quick change chuck.
[b] Spline drive No. 5.
GOR = Outside trigger.
GIR = Inside trigger.
F= friction ring anvil

### Whip hose

### MultiFlex

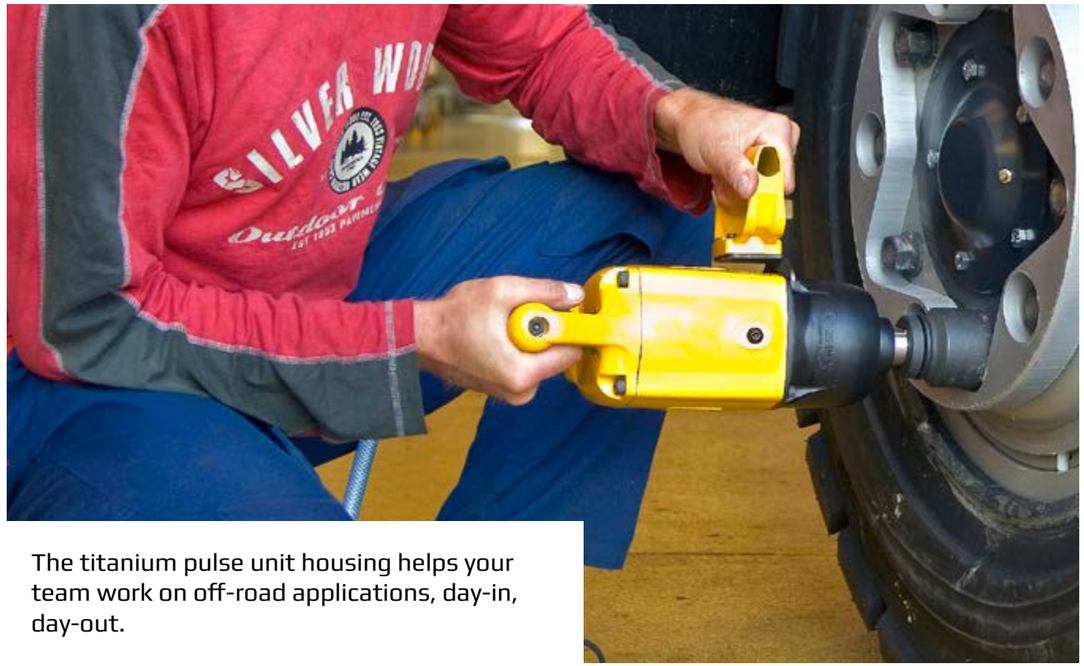
### Productivity kit

| Model | Productivity kit Ordering No. | MultiFlex Ordering No. | Whip hose Ordering No. |
|---|---|---|---|
| LMS08 HR10 | 8202 0850 00 | 8202 1350 20 | not necessary |
| LMS08 HR42 | 8202 0850 00 | 8202 1350 20 | not necessary |
| LMS08 SR42 | 8202 0850 00 | 8202 1350 20 | not necessary |
| LMS08 SR10 | 8202 0850 00 | 8202 1350 20 | not necessary |
| LMS18 HR13 | 8202 0850 16 | 8202 1350 22 | not necessary |
| LMS18 HR10 | 8202 0850 16 | 8202 1350 22 | not necessary |
| LMS28 HR13 | 8202 0850 17 | 8202 1350 22 | not necessary |
| LMS38 HR13 | 8202 0850 17 | 8202 1350 22 | not necessary |
| LMS48 HR20 | 8202 0850 14 | 8202 1350 22 | not necessary |
| LMS58 HR25 | 8202 0850 14 | 8202 1350 22 | not necessary |
| LMS58 HR20 | 8202 0850 14 | 8202 1350 22 | not necessary |
| LMS68 GIR25 | 8202 0850 20 | 8202 1350 24 | 8202118028 |
| LMS68 HR25 | 8202 0850 20 | 8202 1350 24 | 8202118028 |
| LMS68 GOR25 | 8202 0850 20 | 8202 1350 24 | 8202118028 |
| LMS68 GIR S5 | 8202 0850 20 | 8202 1350 24 | 8202118028 |
| LMS68 GOR S5 | 8202 0850 20 | 8202 1350 24 | 8202118028 |
| LMS88 GIR38 | 8202 0850 20 | 8202 1350 24 | 8202118028 |
| LMS88 GOR38 | 8202 0850 20 | 8202 1350 24 | 8202118028 |
| LMS88 GIR S5 | 8202 0850 20 | 8202 1350 24 | 8202118028 |
| LMS88 GOR S5 | 8202 0850 20 | 8202 1350 24 | 8202118028 |

The Atlas Copco FRL-stand has been developed for rough and heavy-duty use both outdoors and indoors. The metal casing with its handle will ensure durability and flexibility.

| Ordering No. | Connection: | Coupling |
|---|---|---|
| 9090 3030 01 | NPT | ErgoCIQ 10US |
| 9090 3030 02 | BSP | ErgoQIC 10 |

# ErgoPulse. Fast, Reliable and Ergonomic



The titanium pulse unit housing helps your team work on off-road applications, day-in, day-out.

The speed, reliability, and accuracy of ErgoPulse hydraulic impulse nutrunners, combined with the fact that they are comfortable to operate, make them suitable for continuous heavy production. Since there is no metal-to-metal impact in a pulse tool, it provides a softer, more controlled pulse with considerably less vibration and noise than an impact wrench.



## ErgoPulse Key Features

ErgoPulse 25PTX – the facts at a glance

- Maximum torque 900 Nm.
- High performance pulse unit: camshaft piston design, improved check valve design.
- Robust, heavy duty body with titanium pulse unit housing.
- Weight 10.3 kg.
- Length 406 mm.
- Steel-lined aluminum motor.
- Air lubrication reservoir in handle for continuous lubrication of the motor.
- Ergonomic design with turnable handle.
- Low maintenance requirements.

| Model | | Bolt Size mm | Square Drive in | Torque Range Nm | Torque Range ft lb | Free speed r/min | Weight kg | Weight lb | Length mm | CS distance mm | Air consumption under load cfm | Air consumption under load l/s | Rec. hose size mm | Air inlet thread in | Ordering No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EP14XS | HR13 | M14 | 1/2 | 110-160 | 81-118 | 3500 | 2.4 | 5.3 | 188 | 34 | 14 | 30 | 13 | 3/8 | 8431 0371 50 |
| EP16XS | HR20 | M16 | 3/4 | 160-240 | 118-177 | 2800 | 3.3 | 7.3 | 205 | 37 | 15 | 32 | 13 | 3/8 | 8431 0371 55 |
| EP20XS | HR20 | M20 | 3/4 | 300-400 | 221-295 | 3700 | 5.1 | 11.2 | 240 | 43 | 16 | 34 | 13 | 3/8 | 8431 0371 60 |
| EP25PTX900 | GR25-RE | M24 - M27 | 1 | 450-900 | 330-660 | 4500 | 10.3 | 22.7 | 406 | 58.5 | 63 | 30 | 13 | 1/2 | 8431 0376 90 |
| EP15PTX250 | HR20-RE | M12-M16 | 3/4 | 125-250 | 92-184 | 4300[d] | 3.1 | 6.8 | 216 | 36.5 | 45 | 21 | 13 | 3/8 | 8431 0376 70 |
| EP19PTX450 | HR20-RE | M16-M20 | 3/4 | 225-450 | 166-332 | 3300[d] | 4.2 | 9.2 | 221 | 44 | 49 | 23 | 13 | 3/8 | 8431 0376 80 |
| EP15PTX250 | HR20-AT | M12-M16 | 3/4 | 125-250 | 92-184 | 4200[c] | 3.1 | 6.8 | 216 | 36.5 | 45 | 21 | 13 | 3/8 | 8431 0376 72 |
| EP19PTX450 | HR20-AT | M16-M20 | 3/4 | 225-450 | 166-332 | 3300[c] | 4.2 | 9.2 | 221 | 44 | 49 | 23 | 13 | 3/8 | 8431 0376 82 |
| EP14PTS250 | HR20-RE | M12-M16 | 3/4 | 125-250 | 92-185 | 4000[c] | 3.3 | 7.2 | 216 | 37 | 20 | 42 | 13 | 3/8 | 8431 0374 95 |
| EP18PTS410 | HR20-RE | M16-M20 | 3/4 | 225-410 | 166-302 | 3000[c] | 4.3 | 9.5 | 202 | 42 | 22 | 46 | 13 | 3/8 | 8431 0374 98 |
| EP14PTS250 | HR20-AT | M12-16 | 3/4 | 125-250 | 92-185 | 3900[d] | 3.3 | 7.2 | 216 | 37 | 20 | 42 | 13 | 3/8 | 8431 0374 97 |
| EP18PTS410 | HR20-AT | M16-20 | 3/4 | 225-410 | 166-332 | 2900[d] | 4.3 | 9.5 | 202 | 42 | 22 | 46 | 13 | 3/8 | 8431 0374 99 |

To be used as a guide only, final torque depends on type of joint, accessories used and air pressure

c With TRIM valve fully open

d In full speed mode.

# LMP/LTP. Accurate and Fast.

The LMP/LTP is fast and accurate to speed up maintenance and production.

An optimum combination of torque, speed and weight

With the LMP/LTP61 range of pistol grip nutrunners from Atlas Copco you get the highest possible torque and speed in relation to the weight of the tool. Fast, accurate and highly operator friendly, the tools are available in reversible versions for maximum flexibility.

**Fast and accurate**
In LTP/LMP61 tools the twin motor concept provides extremely fast rundown with good torque accuracy, even on soft joints.

**Operator friendly**
Our pistol grip nutrunners are comfortable to operate. The reaction bar eliminates reaction forces and the exhaust through the handle arrangement keeps noise levels low.

**Reversible for maximum flexibility**
Being able to loosen fasteners without changing tools saves time and effort and raises productivity.



# LMP Models Non-shutoff

| Model | Bolt size mm | Square drive in | Max torque at 6.3 bar Nm | Max torque at 6.3 bar ft lb | Min torque at 3 bar Nm | Min torque at 3 bar ft lb | Free speed r/min | Weight[a] kg | Weight[a] lb | Length mm | CS distance mm | Air consumption at free speed l/s | Air consumption at free speed cfm | Air inlet thread in | Spline type | Ordering No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Non-reversible** | | | | | | | | | | | | | | | | |
| LMP61 H100-13 | M12 | 1/2 | 100 | 75 | 60 | 45 | 2200 | 3.0 | 6.6 | 223 | 29 | 20 | 42 | 3/8 | 3 | 8431 0803 05 |
| LMP61 H170-13 | M14 | 1/2 | 170 | 125 | 100 | 75 | 1400 | 3.0 | 6.6 | 223 | 29 | 20 | 42 | 3/8 | 3 | 8431 0803 12 |
| LMP61 H230-19 | M16 | 3/4 | 230 | 170 | 130 | 95 | 1000 | 3.0 | 6.6 | 223 | 29 | 20 | 42 | 3/8 | 3 | 8431 0803 19 |
| LMP61 H350-20 | M18 | 3/4 | 350 | 260 | 200 | 145 | 650 | 3.9 | 8.6 | 260 | 31 | 20 | 42 | 3/8 | 4 | 8431 0803 26 |
| LMP61 H500-20 | M20 | 3/4 | 500 | 370 | 300 | 220 | 450 | 3.9 | 8.6 | 260 | 31 | 20 | 42 | 3/8 | 4 | 8431 0803 33 |
| LMP61 H700-25 | M22 | 1 | 700 | 520 | 400 | 295 | 350 | 4.5 | 9.9 | 305 | 34 | 20 | 42 | 3/8 | 5 | 8431 0803 40 |
| LMP61 H900-25 | M24 | 1 | 900 | 665 | 500 | 365 | 260 | 4.5 | 9.9 | 282 | 34 | 20 | 42 | 3/8 | 5 | 8431 0803 47 |
| **Reversible** | | | | | | | | | | | | | | | | |
| LMP61 HR100-13 | M12 | 1/2 | 100 | 75 | 60 | 45 | 2200 | 3.0 | 6.6 | 235 | 30 | 20 | 42 | 3/8 | 3 | 8431 0804 04 |
| LMP61 HR170-13 | M14 | 1/2 | 170 | 125 | 100 | 75 | 1400 | 3.0 | 6.6 | 238 | 30 | 20 | 42 | 3/8 | 3 | 8431 0804 11 |
| LMP61 HR230-19 | M16 | 3/4 | 230 | 170 | 130 | 95 | 1000 | 3.0 | 6.6 | 275 | 34 | 20 | 42 | 3/8 | 3 | 8431 0804 18 |
| LMP61 HR350-20 | M18 | 3/4 | 350 | 260 | 200 | 145 | 650 | 3.9 | 8.6 | 275 | 34 | 20 | 42 | 3/8 | 4 | 8431 0804 25 |
| LMP61 HR500-20 | M20 | 3/4 | 500 | 370 | 300 | 220 | 450 | 3.9 | 8.6 | 320 | 35 | 21 | 42 | 3/8 | 4 | 8431 0804 32 |
| LMP61 HR700-25 | M22 | 1 | 700 | 520 | 400 | 295 | 350 | 4.5 | 9.9 | 305 | 34 | 20 | 42 | 3/8 | 5 | 8431 0804 39 |
| LMP61 HR900-25 | M24 | 1 | 900 | 665 | 500 | 365 | 260 | 4.5 | 9.9 | 305 | 34 | 20 | 42 | 3/8 | 5 | 8431 0804 46 |
| LMP61 HR1500-25 | M30 | 1 | 1600 | 1180 | 900 | 660 | 140 | 6.8 | 14.9 | 345 | 42 | 20 | 42 | 3/8 | 9 | 8431 0804 53 |

[a] Weight excluding reaction bar.
Recommended hose size 13 mm for hose length up to 5 m.

**NOTE:** Change over torque is around 4% of maximum torque on a given air pressure.

# LTP Models Shut-off

| Model | Bolt size mm | Square drive in | Torque range at 6.3 bar Nm | Torque range at 6.3 bar ft lb | Min torque at 3 bar Nm | Min torque at 3 bar ft lb | Free speed r/min | Weight[a] kg | Weight[a] lb | Length mm | CS distance mm | Air consumption at free speed l/s | Air consumption at free speed cfm | Air inlet thread in | Spline type | Ordering No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Non reversible** | | | | | | | | | | | | | | | | |
| LTP61 H100-13 | M12 | 1/2 | 55-100 | 40-75 | 45 | 35 | 1800 | 3.0 | 6.6 | 223 | 29 | 20 | 42 | 3/8 | 3 | 8431 0800 07 |
| LTP61 H170-13 | M14 | 1/2 | 95-170 | 70-125 | 70 | 50 | 1100 | 3.0 | 6.6 | 223 | 29 | 20 | 42 | 3/8 | 3 | 8431 0800 14 |
| LTP61 H230-19 | M16 | 3/4 | 125-230 | 90-170 | 85 | 60 | 820 | 3.0 | 6.6 | 223 | 29 | 20 | 42 | 3/8 | 3 | 8431 0800 21 |
| LTP61 H350-20 | M18 | 3/4 | 190-350 | 140-255 | 145 | 105 | 520 | 3.9 | 8.6 | 260 | 31 | 20 | 42 | 3/8 | 4 | 8431 0800 28 |
| LTP61 H500-20 | M20 | 3/4 | 275-500 | 200-370 | 220 | 160 | 360 | 3.9 | 8.6 | 260 | 31 | 20 | 42 | 3/8 | 4 | 8431 0800 35 |
| LTP61 H700-25 | M22 | 1 | 360-650 | 265-480 | 280 | 207 | 280 | 4.5 | 9.9 | 305 | 34 | 20 | 42 | 3/8 | 5 | 8431 0800 42 |
| LTP61 H900-25 | M24 | 1 | 480-870 | 350-640 | 300 | 220 | 210 | 4.5 | 9.9 | 282 | 32 | 20 | 42 | 3/8 | 5 | 8431 0800 49 |
| LTP61 H1500-25 | M30 | 1 | 850-1500 | 625-1100 | 700 | 516 | 115 | 6.8 | 14.5 | 323 | 42 | 20 | 42 | 3/8 | 9 | 8431 0800 56 |
| **Reversible** | | | | | | | | | | | | | | | | |
| LTP61 HR100-13 | M12 | 1/2 | 55-100 | 40-75 | 45 | 35 | 1800 | 3.0 | 6.6 | 235 | 30 | 20 | 42 | 3/8 | 3 | 8431 0801 08 |
| LTP61 HR170-13 | M14 | 1/2 | 95-170 | 70-125 | 70 | 50 | 1100 | 3.0 | 6.6 | 238 | 30 | 20 | 42 | 3/8 | 3 | 8431 0801 15 |
| LTP61 HR230-19 | M16 | 3/4 | 125-230 | 90-170 | 85 | 60 | 820 | 3.0 | 6.6 | 275 | 34 | 20 | 42 | 3/8 | 3 | 8431 0801 22 |
| LTP61 HR350-20 | M18 | 3/4 | 190-350 | 140-255 | 145 | 105 | 520 | 3.9 | 8.6 | 275 | 34 | 20 | 42 | 3/8 | 4 | 8431 0801 29 |
| LTP61 HR500-20 | M20 | 3/4 | 275-500 | 200-370 | 220 | 160 | 360 | 3.9 | 8.6 | 275 | 34 | 20 | 42 | 3/8 | 4 | 8431 0801 36 |
| LTP61 HR700-25 | M22 | 1 | 360-650 | 265-480 | 280 | 207 | 280 | 4.5 | 9.9 | 305 | 34 | 20 | 42 | 3/8 | 5 | 8431 0801 43 |
| LTP61 HR900-25 | M24 | 1 | 480-870 | 350-640 | 300 | 220 | 210 | 4.5 | 9.9 | 305 | 34 | 20 | 42 | 3/8 | 5 | 8431 0801 50 |
| LTP61 HR1500-25 | M30 | 1 | 850-1500 | 625-1100 | 700 | 516 | 115 | 6.8 | 14.5 | 345 | 42 | 20 | 42 | 3/8 | 9 | 8431 0801 57 |
| LTP61 HR1900-38 | M30 | 1 1/2 | 1050-1900 | 770-1400 | 800 | 590 | 90 | 14.1 | 31.0 | 380 | 68 | 20 | 42 | 3/8 | 8 | 8431 0801 64 |
| LTP61 HR2800-38 | M36 | 1 1/2 | 1550-2800 | 1140-2060 | 1200 | 885 | 65 | 14.1 | 31.0 | 380 | 68 | 20 | 42 | 3/8 | 8 | 8431 0801 71 |
| LTP61 HR3800-38 | M42 | 1 1/2 | 2100-3800 | 1540-2800 | 1600 | 1180 | 50 | 14.1 | 31.0 | 380 | 68 | 20 | 42 | 3/8 | 8 | 8431 0801 78 |

[a] Without reaction bar.
Recommended hose size: 13 mm

**NOTE:** Change over torque is around 4% of maximum torque on a given air pressure.

| Model | Bolt size mm | Square drive in | Torque range at 6.3 bar Nm | Torque range at 6.3 bar ft lb | Min torque at 3 bar Nm | Min torque at 3 bar ft lb | Free speed r/min | Weight[a] kg | Weight[a] lb | Length mm | CS distance mm | Air consumption at free speed l/s | Air consumption at free speed cfm | Air inlet thread in | Spline type | Ordering No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Non-reversible** | | | | | | | | | | | | | | | | |
| LTP61 PH100-13 | M12 | 1/2 | 60-110 | 45-80 | 45 | 33 | 700 | 3.0 | 6.6 | 223 | 34 | 20 | 42 | 3/8 | 3 | 8431 0807 04 |
| LTP61 PH170-13 | M14 | 1/2 | 100-180 | 75-135 | 70 | 52 | 440 | 3.0 | 6.6 | 223 | 34 | 20 | 42 | 3/8 | 3 | 8431 0807 12 |
| LTP61 PH230-19 | M16 | 3/4 | 130-240 | 95-180 | 90 | 66 | 320 | 3.0 | 6.6 | 223 | 34 | 20 | 42 | 3/8 | 3 | 8431 0807 17 |
| LTP61 PH350-20 | M18 | 3/4 | 210-370 | 155-275 | 150 | 110 | 200 | 3.9 | 8.6 | 260 | 34 | 20 | 42 | 3/8 | 4 | 8431 0807 24 |
| LTP61 PH500-20 | M20 | 3/4 | 300-520 | 220-380 | 200 | 150 | 140 | 3.9 | 8.6 | 260 | 34 | 20 | 42 | 3/8 | 4 | 8431 0807 31 |
| LTP61 PH700-25 | M22 | 1 | 400-680 | 295-500 | 280 | 205 | 100 | 4.5 | 9.9 | 305 | 34 | 20 | 42 | 3/8 | 5 | 8431 0807 38 |
| LTP61 PH900-25 | M24 | 1 | 500-900 | 370-665 | 350 | 260 | 80 | 4.5 | 9.9 | 282 | 34 | 20 | 42 | 3/8 | 5 | 8431 0807 41 |
| LTP61 PH1500-25 | M30 | 1 | 900-1600 | 665-1180 | 650 | 480 | 45 | 6.8 | 14.9 | 323 | 42 | 20 | 42 | 3/8 | 9 | 8431 0807 52 |
| **Reversible** | | | | | | | | | | | | | | | | |
| LTP61 PHR700-25 | M22 | 1 | 400-680 | 295-500 | 280 | 205 | 100 | 4.5 | 9.9 | 305 | 34 | 20 | 42 | 3/8 | 5 | 8431 0807 55 |
| LTP61 PHR900-25 | M24 | 1 | 500-900 | 370-665 | 350 | 260 | 80 | 4.5 | 9.9 | 305 | 34 | 20 | 42 | 3/8 | 5 | 8431 0807 62 |
| LTP61 PHR1500-25 | M30 | 1 | 900-1600 | 665-1180 | 650 | 480 | 45 | 6.8 | 14.9 | 345 | 42 | 20 | 42 | 3/8 | 9 | 8431 0807 68 |
| **Reversible with Multi Torque unit** | | | | | | | | | | | | | | | | |
| LTP61 PHR900-25-MT | M24 | 1 | 500-900 | 370-665 | 350 | 260 | 80 | 4.8 | 10.6 | 305 | 34 | 20 | 42 | 3/8 | 5 | 8431 0807 81 |

[a] Without reaction bar.
Recommended hose size 13 mm for hose length up to 5 m and 16 mm hose size for lenght 5-10 m.

**NOTE:** Change over torque is around 10% of maximum torque on a given air pressure.

| Model | Bolt size mm | Square drive in | Torque range at 6.3 bar Nm | Torque range at 6.3 bar ft lb | Min torque at 3 bar Nm | Min torque at 3 bar ft lb | Free speed r/min | Weight[a] kg | Weight[a] lb | Length mm | CS distance mm | Air consumption at free speed l/s | Air consumption at free speed cfm | Air inlet thread in | Spline type | Ordering No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTP61 HR100-13-MT | M12 | 1/2 | 55-100 | 40-75 | 45 | 35 | 1800 | 3.3 | 7.3 | 288 | 30 | 20 | 42 | 3/8 | 3 | 8431 0806 02 |
| LTP61 HR170-13-MT | M14 | 1/2 | 95-170 | 70-125 | 70 | 50 | 1100 | 3.3 | 7.3 | 288 | 30 | 20 | 42 | 3/8 | 3 | 8431 0806 09 |
| LTP61 HR230-19-MT | M16 | 3/4 | 125-230 | 90-170 | 85 | 60 | 820 | 3.3 | 7.3 | 288 | 34 | 20 | 42 | 3/8 | 3 | 8431 0806 16 |
| LTP61 HR350-20-MT | M18 | 3/4 | 190-350 | 140-255 | 145 | 105 | 520 | 4.2 | 9.2 | 325 | 34 | 20 | 42 | 3/8 | 4 | 8431 0806 23 |
| LTP61 HR500-20-MT | M20 | 3/4 | 275-500 | 200-370 | 220 | 160 | 360 | 4.2 | 9.2 | 325 | 34 | 20 | 42 | 3/8 | 4 | 8431 0806 30 |
| LTP61 HR700-25-MT | M22 | 1 | 360-650 | 265-480 | 280 | 207 | 280 | 4.8 | 10.6 | 355 | 34 | 20 | 42 | 3/8 | 5 | 8431 0806 33 |
| LTP61 HR900-25-MT | M24 | 1 | 480-870 | 350-640 | 300 | 220 | 210 | 4.8 | 10.6 | 355 | 34 | 20 | 42 | 3/8 | 5 | 8431 0806 37 |
| LTP61 HR1500-25-MT | M30 | 1 | 850-1500 | 625-1100 | 700 | 516 | 115 | 7.1 | 15.6 | 395 | 42 | 20 | 42 | 3/8 | 9 | 8431 0806 44 |

[a] Without reaction bar.
Recommended hose size: 13 mm.

**NOTE:** Change over torque is around 4% of maximum torque on a given air pressure.



# Productivity Kits

| Model | Max air flow | Hose, 5 m | Coupling | Lubrication | Ordering No. |
|---|---|---|---|---|---|
| **For small nutrunners with 3/8" BSP air inlet** | | | | | |
| MIDI Optimizer F/RD EQ08-C10 | 16 l/s | Cablair 10 mm | ErgoQIC 08 | Yes | 8202 0850 07 |
| **For small nutrunners with 1/4" BSP air inlet** | | | | | |
| MIDI Optimizer F/RD EQ08-C10 | 16 l/s | Cablair 10 mm | ErgoQIC 08 | Yes | 8202 0850 03 |
| MIDI Optimizer F/RD EQ10-R10 | 16 l/s | Rubair 10 mm | ErgoQIC 10 | Yes | 8202 0850 16 |
| **For nutrunners with 3/8" BSP air inlet** | | | | | |
| MIDI Optimizer F/RD EQ10-C13 | 23 l/s | Cablair 13 mm | ErgoQIC 10 | Yes | 8202 0850 02 |
| **For nutrunners with 1/4" BSP air inlet** | | | | | |
| MIDI Optimizer F/RD EQ10-C13-1/4 | 23 l/s | Cablair 13 mm | ErgoQIC 10 | Yes | 8202 0850 11 |
| **For nutrunners with 3/8" BSP air inlet** | | | | | |
| MIDI Optimizer F/RD EQ10-T13 | 35 l/s | Turbo 13 mm | ErgoQIC 10 | Yes | 8202 0850 17 |
| **For nutrunners with 1/2" BSP air inlet** | | | | | |
| MIDI Optimizer F/R EQ10-T13 | 35 l/s | Turbo 13 mm | ErgoQIC 10 | No | 8202 0850 04 |
| MIDI Optimizer F/RD EQ10-T13 | 35 l/s | Turbo 13 mm | ErgoQIC 10 | Yes | 8202 0850 13 |

# Optional Accessories

**For LMP/LTP61**

| Model | Ordering No. |
|---|---|
| Hose nipple | 9000 0242 00 |
| Exhaust hose | 4210 2201 00 |
| Protective cover | |
| Standard LTP61 | 4210 4672 00 |
| LTP 61 with MT unit | 4210 4672 01 |
| Multi torque selector LTP61 | 4210 4636 95 |
| Quick change retainer | |
| – 1/2" square models | 4250 1190 00 |
| – 3/4" square models | 4210 3476 80 |
| – 1" square models | 4210 3524 80 |
| Shut-off override for LTP61 | 4210 3545 80 |
| Swivelling type MultiFlex connector 3/8" (BSP) | 8202 1350 22 |
| Swivelling type MultiFlex connector 3/8" (NPT) | 8202 1350 28 |

*Multi torque selector LTP61*

*Protective cover*

**Swivelling suspension yoke LMP/LTP61**

| Model | Ordering No. |
|---|---|
| **Mounting dia Ø 54 mm** | |
| PH/H 100-13 | 4210 3088 80 |
| PH/H 170-13 | |
| PH/H 230-19 | |
| PH/H 350-20 | |
| PH/H 500-20 | |
| PH/H 700-25 | |
| PH/H 900-25 | |
| **Mounting dia Ø 60 mm** | |
| HR 100-13 | 4210 3088 84 |
| HR 170-13 | |
| HR 230-19 | |

| Model | Ordering No. |
|---|---|
| **Mounting dia Ø 63.5 mm** | |
| H 1900-38 | 4210 3088 83 |
| H 2800-38 | |
| H 3800-38 | |
| **Mounting dia Ø 67 mm** | |
| HR 350-20 | 4210 3088 82 |
| HR 500-20 | |
| PHR/HR 700-25 | |
| PHR/HR 900-25 | |
| HR 1900-38 | 4210 3088 85 |
| HR 2800-38 | |
| HR 3800-38 | |

| Model | Ordering No. |
|---|---|
| **Mounting dia Ø 83.5 mm** | |
| PH/H 1500-25 | 4210 3088 81 |
| PHR/HR 1500-25 | |

# Tensor Revo Transducerized Electric Nutrunner

Even when being used on underside of applications, the Tensor Revo is a breeze to use.

## State-of-the-art accuracy technology

When choosing assembly tools for high torque joints, the challenge is often to combine high quality tightening with acceptable ergonomics and usability. Some tools provide higher quality but can be large and heavy. Other tools are lighter, but may not live up to quality and durability requirements.

- Programmable torque and angle
- Unique and patented 360° swivel with transducer.
- Ultra-compact size improves access.
- Reduced weight means less need for fi xtures.
- Display on tool gives direct feedback of tightening result.
- Program selection is made directly on tool.
- Ideal for handheld application or fixtures with reduced space.
- Torque range from 60-4000 Nm.

| | Model | Square drive in | Torque Range Nm | Torque Range ft lb | Speed r/min | Weight kg | Weight lb | Length mm | CS distance mm | Spline | Ordering No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ETP | ST101-200-20-F | 3/4 | 60-200 | 45-145 | 396 | 5.2 | 11.5 | 303 | 32.5 | 3 | 8433 2302 02 |
| ETP | ST101-500-20-F | 3/4 | 150-500 | 110-365 | 186 | 5.9 | 13 | 334 | 33.5 | 4 | 8433 2305 02 |
| ETP | ST101-750-25-F | 1 | 220-750 | 160-550 | 132 | 6.2 | 13.7 | 353 | 33.5 | 5 | 8433 2307 52 |
| ETP | ST101-1000-25-F | 1 | 300-1000 | 220-735 | 99 | 6.4 | 14.1 | 364 | 33.5 | 5 | 8433 2310 02 |
| ETP | ST101-1500-25-F | 1 | 450-1500 | 332-1106 | 47 | 8.8 | 19.4 | 402 | 43.5 | 9 | 8433 2321 52 |
| ETP | ST101-2000-38-F | 1 1/2 | 600-2000 | 442-1475 | 38 | 11.5 | 25.4 | 454 | 48 | 7 | 8433 2322 02 |
| ETP | ST101-3000-38-F | 1 1/2 | 900-3000 | 664-2212 | 24 | 14.8 | 33 | 476 | 59 | 8 | 8433 2323 02 |
| ETP | ST101-4000-38-F | 1 1/2 | 1200-4000 | 885-2950 | 20 | 15 | 33 | 481 | 59 | 8 | 8433 2324 02 |



# Tensor Revo Reaction Bars

| Spline diameter mm | L/W/H | CC distance mm | Ordering No. |
|---|---|---|---|
| **Steel bar** | | | |
| Spline 1 | 268/36/18 | | 4210 1798 01 |
| Spline 2 | 270/35/10 | | 4220 1903 00 |
| Spline 3 | 400/56/12 | | 4210 2219 80 |
| Spline 4 | 500/62/15 | | 4210 2183 80 |
| Spline 5 | 500/62/15 | | 4210 2726 80 |
| Spline 6 | 560/80/15 | | 4220 1200 01 |
| Spline 7 | 500/100/20 | | 4210 3899 02 |
| Spline 8 | 500/150/20 | | 4210 3899 03 |
| Spline 9 | 500/85/20 | | 4210 3899 80 |
| Ø 26 mm | 270/34/8 | | 4220 3491 00 |
| **Square steel bracket** | | | |
| Spline 3 | 100/50/12 | | 4210 2219 03 |
| Spline 4 | 125/65/16 | | 4210 2183 01 |
| Spline 5 | 125/65/16 | | 4210 2726 01 |
| Spline 6 | 200/100/15 | | 4220 1200 00 |
| Spline 7 | 250/150/20 | | 4220 1445 00 |
| Spline 8 | 250/160/20 | | 4220 1972 91 |
| Spline 9 | 150/85/20 | | 4210 3899 01 |
| Ø 24 mm | 100/60/8 | | 4220 1029 00 |
| Ø 26 mm | 100/60/8 | | 4220 1029 02 |
| Ø 28 mm | 100/60/8 | | 4220 1029 01 |
| **Triangular steel bracket** | | | |
| Spline 2 | 73/72/14 | | 4220 2137 02 |
| Spline 3 | 82/80/15 | | 4220 2137 03 |
| Spline 6 | 112/109/15 | | 4220 2137 06 |
| Spline 6 | 150/145/20 | | 4220 2137 16 |
| **S-Type reaction bar** | | | |
| Spline 3 | 110/18/12 | | 4210 4480 03 |
| Spline 4 | 120/22/15 | | 4210 4480 04 |
| Spline 5 | 130/25/15 | | 4210 4480 05 |
| Spline 6 | 125/25/15 | | 4210 4480 06 |
| Spline 7 | 170/40/20 | | 4210 4480 07 |
| Spline 8 | 200/65/20 | | 4210 4480 08 |
| Spline 9 | 160/40/20 | | 4210 4480 09 |
| **L-Type aluminum bar** | | | |
| Spline 3 | 266x300/29/15 | | 4210 2219 08 |
| Spline 4 | 144x150/42/15 | | 4210 2183 08 |
| **Bracket stepped** | | | |
| Spline 1 | 70/36/13 | | 4210 1798 02 |
| Spline 2 | 70/41/14 | | 4210 2134 02 |
| **Straight aluminum bar** | | | |
| Spline 3 | L = 400 | | 4210 2219 01 |

| Spline diameter mm | Square drive size (in) | CC distance mm | Ordering No. |
|---|---|---|---|
| **Sliding drive reaction bar** | | | |
| Spline 3 | 1/2 | 70-120 | 4210 4481 83 |
| Spline 3 | 3/4 | 70-120 | 4210 4481 63 |
| Spline 4 | 3/4 | 76-126 | 4210 4481 84 |
| Spline 4 | 3/4 | 82-218 | 4210 4616 84 |
| Spline 5 | 1 | 80-125 | 4210 4481 85 |
| Spline 5 | 1 | 82-218 | 4210 4616 85 |
| Spline 9 | 1 | 80-130 | 4210 4481 89 |
| Spline 9 | 1 | 80-280 | 4210 4616 89 |

*Steel bar*

*Square steel bracket*

*Triangular steel bracket*

*Sliding drive reaction bar*

*S-Type reaction bar*

*L-Type aluminum bar*

*Straight aluminum bar*

*Extended sliding drive reaction bar*

*Extended sliding tube reaction bar*

*Bracket stepped*

# Controllers and Software for Tensor Revo

Power Focus 4000
The Power Focus range controls tools from the Tensor DS, ST, SR, STR, STB and ETX families. With its built-in functions, it also participates in controlling the station or line segment. The PowerFocus and associated software packages provide easy-to-understand information for everyone, from operators to plant managers.

The Power Focus is based on standard hardware and software components which, when combined, will fulfill all demands, from the most basic stand-alone installation to full integration into the factory network. The modules fit together using the “plug-and-play” concept. Assembly process control and quality
assurance is made easy by advanced control functions. On receipt of assembly information, the Power Focus automatically selects the correct tightening sequence and parameters. The operator is guided through the process, avoiding mistakes that can result in costly quality problems.

Programming software ToolsTalk PF
ToolsTalk PF is the user-friendly tool that enables you to communicate with your
Power Focus tool controller. It makes programming and process analysis of a tightening station simple.

| General<br>Functionality Level / RBU<br>Runs Tool Types | Power Focus 4000<br>Bronze<br>ST/SR/STR | <br>Silver<br>ST/SR/STR | <br>Gold<br>ST/SR/STR |
|---|---|---|---|
| **Tensor controllers** | | | |
| Compact hardware | x | x | x |
| LED display | x | x | x |
| 6 button keyboard | x | x | x |
| Graph hardware | | x | x |
| LCD display | | x | x |
| Full keyboard | | x | x |
| **Functionality** | | | |
| Number of tools | 1 | 1 | 1 |
| Number of Psets | 64 | 250 | 250 |
| Batch count | x | x | x |
| Open end spanner | x | x | x |
| Quick programming | x | x | x |
| Cross thread / Rehit detection | x | x | x |
| Tool service indicator | x | x | x |
| Autoset | x | x | x |
| Lock on reject | x | x | x |
| Line control | | x | x |
| Transducer torque traceability | x | x | x |
| Tightening status storage (default) | 5 000 | 5 000 | 5 000 |
| Tightening data storage (default) | 5 000 | 5 000 | 5 000 |
| MultiStages | | 8 | 8 |
| Trace storage | 8 | 8 | 8 |
| Real time statistics | x | x | x |
| SPC | x | x | x |
| RBU | x | x | x |
| Bar code reading | | x | x |
| ID input to select Pset | | x | x |
| Job function | | x | x |
| Number of jobs (default) | | 99 | 99 |
| ID input to select job | | x | x |
| Logic Configurator (4000 only) | | x | x |
| Cell programming | | x | x |
| Label printer (via Open protocol) | | x | x |
| Cell Job | | | x |
| **Strategies and options** | | | |
| Two stage/Quick step/Ergoramp | x | x | x |
| Torque control and angle monitoring | x | x | x |
| DS control | | x | x |
| Auto zoom step | x | x | x |
| CW / CCW operation | x | x | x |
| Rundown angle monitoring | x | x | x |
| Self tap / PVT monitoring | x | x | x |
| Reverse angle | x | x | x |
| Rotate spindle | x | x | x |
| Click wrench input | x | x | x |
| Torque and angle control | x | x | x |
| Angle control and torque monitoring | x | x | x |
| Current monitoring | x | x | x |
| Post view torque | | x | x |
| Yield control (PF 4000 and ETX combination only) | | | x |
| StepSync, SynchroTork (PF 4000 only) | | | x |
| Home position | | | x |
| Snug gradient | | | x |
| **I/O** | | | |
| RS232 programming port | x | x | x |
| USB port (PF 4000 only) | x | x | x |
| Discrete I/O | x | x | x |
| Remote start | x | x | x |
| Socket selector (optional) | x | x | x |
| RE Alarm (optional) | x | x | x |
| Parallel printer port | x | x | x |
| I/O Expander (optional) | x | x | x |
| Expandable I/O (up to 124 in / 124 out) | x | x | x |
| Operator ID card input | | x | x |
| Fieldbus card | | Optional | Optional |
| RS232 bar code reader port | | x | x |
| Easily programmed fieldbus protocol | | x | x |
| Ethernet port for remote prog | | x | x |
| Ethernet port for data collection | | x | x |
| **Protocols** | | | |
| Open protocol serial | x | x | x |
| Open protocol Siemens 3964R serial | x | x | x |
| Open protocol Ethernet | | x | x |

# Controllers and Software for Tensor Revo

**Advanced process control and monitoring functions**

Power Focus is a modular range of controllers, with full flexibility, designed for applications ranging from single spindle hand-held operations to fixtured multiple nutrunnning systems. Advanced process control and monitoring functions make it easy to view and collect data using the Internet infrastructure.

- Choose your controller – either Graph or Compact.
- Choose your RBU software key to run a tool.
- Choose from various ways to use the controller, as a stand-alone or in a network.
- Run many different kinds of tool, standard, FS, crowfoot or open tools.
- Realtime statistics analysis.
- Error-proofing solution.
- Advanced tightening control and/or monitoring method.
- Trace view.
- Logic configurator.
- Can handle different level of communication.

Compact

Graph

The Power Focus 4000 is available in two versions, Compact and Graph. The difference between them is the user interface, where the Graph features the color display and a full keyboard.

**Compact**

This version offers full functionality at a lower cost, but requires a PC with the ToolsTalk PF software for process set-up.

**Graph**

With the Graph hardware, you have full stand-alone programming possibilities. When networked, the Graph can function as a programming terminal for other Power Focus units.

**RBU cuts downtime**

Atlas Copco's patented Rapid Backup Unit (RBU) concept transfers functionality to a non-configured hardware unit, ensuring that hardware can easily be upgraded should functionality requirements change. The RBU also acts as back-up for programming and configuration. If a change of hardware is required, just fit the RBU to the new hardware, switch on the unit and you're ready. All programming and network configurations are transferred in seconds. The RBU cuts downtime to a minimum.

**Power Focus 4000 for Tensor DS, ST, SR, STR, STB and ETX**

| Model | Ordering No. |
|---|---|
| **Power Focus 4000 W 10** | |
| PF 4000-G-HW | 8433 7100 00 |
| PF 4000-C-HW | 8433 7100 05 |
| PF 4000-G-DN- HW | 8433 7140 00 |
| PF 4000-C-DN-HW | 8433 7140 05 |
| PF 4000-G-FLN-HW | 8433 7141 00 |
| PF 4000-C-FLN-HW | 8433 7141 05 |
| PF 4000-G-PB-HW | 8433 7142 00 |
| PF 4000-C-PB-HW | 8433 7142 05 |
| PF 4000-G-CC-HW | 8433 7143 00 |
| PF 4000-C-CC-HW | 8433 7143 05 |
| PF 4000-G-IB-HW | 8433 7145 00 |
| PF 4000-C-IB-HW | 8433 7145 05 |
| PF 4000-G-MB-HW | 8433 7147 00 |
| PF 4000-C-MB-HW | 8433 7147 05 |
| PF 4000-G-PN-HW | 8433 7148 00 |
| PF 4000-C-PN-HW | 8433 7148 05 |
| PF 4000-G-EIP-HW | 8433 7149 00 |
| PF 4000-C-EIP-HW | 8433 7149 05 |

**Controller functionality**

| Hardware key | Ordering No. |
|---|---|
| RBU-Bronze | 8433 0010 10 |
| RBU-Silver | 8433 0015 20 |
| RBU-Gold | 8433 0020 20 |
| RBU-DS | 8433 0005 10 |
| RBU-X | 8433 0080 20 |



Controllers and Software for Tensor Revo

**ToolsTalk PF**

ToolsTalk PF provides tightening parameter set-up, fieldbus and Logic Configurator set-up, plus customized reporting and presentation of statistics. With a simple click, results can be exported into other commercial file formats.

ToolsTalk communicates with the PowerFocus via Ethernet, USB or serial RS232. If you are networking from your office desk, ToolsTalk PF allows for quickest access to the different control units connected.

| Model | Ordering No. |
|---|---|
| **ToolsTalk PF W10** | |
| 1-user license | 8092 1190 01 |
| 5-user license | 8092 1190 05 |
| 10-user license | 8092 1190 10 |
| Plant license | 8092 1190 99 |

**ToolsTalk PF Functionality**

| General | | | |
|---|---|---|---|
| **Functionality Level of RBU** | **Bronze** | **Silver** | **Gold** |
| Serial connection | x | x | x |
| Off line programming | x | x | x |
| Real time analysis | x | x | x |
| Tightening database to PC (Excel) | x | x | x |
| Tightening simulation | x | x | x |
| Operator monitor | x | x | x |
| Picture monitor | x | x | x |
| Fieldbus quick set-up | | x | x |
| Job monitor | | x | x |
| Bar code reader configration | | x | x |
| Ethernet connection | | x | x |
| Remote programming | | x | x |
| View tightening traces | x | x | x |
| Overlay traces | x | x | x |
| Logic Configurator (PF 4000 only) | x | x | x |
| Multiple identifiers | | x | x |
| Tensor ST sound files | | x | x |



Pneumatic and Electric Wrenches

# Hydraulic Bolt Tensioners

To complement torquing and induction bolt heating, Rapid-Torc offers hydraulic bolt tensioners. Stretching the bolt to an accurate load has advantages in certain applications. Rapid-Torc offers Standard Tensioner, Wind Turbine Tensioners and Subsea Tensioners.

Hydraulic bolt tensioners working on cylinder head bolts on a large diesel engine.

Foundation Bolts with severe restrictions are easily tensioned with our topside modular tensioning system.

RPW Series wind turbine tensioners precisely tensioning critical wind turbine bolted connections.

Tensioning 50% bolts simultaneously on a heat exchanger

Rapid-Torc recommends operation with a minimum of 50% tensioners (1 tensioner for every 2 studs).

Uniquely designed seals contribute to long tool life.

Purchase extra bridges, pullers and sockets to adapt the load cell. Quickly change to other bolt sizes on site.

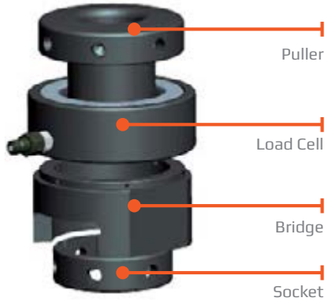
Quick connect couplers come standard on all Rapid-Torc tensioners and hoses. The seconds saved add up to provide great momentum to any project.

Versatile design allows for quick customization.

Puller and cylinder have easy to grasp texture.



# TRM Topside Series. Hands down, best-in-class.




- Pressures up to 21,750 psi/1500 bar
- Simultaneous operation for any number of tools
- Single or twin hydraulic connections available
- Custom thread forms available upon request
- Custom design available for any application type

*Rapid-Torc recommends operation with a minimum of 50% tensioners (1 tensioner every 2 studs).*

| Model No. | Bolt Diameter | | Hydraulic Area | | Max Load | | | Tool OD | | Nearest Obstruction | | Stroke | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | in | metric | in2 | mm2 | kN | tonf | lbf | in | mm | in | mm | in | mm |
| TRM21 | 3/4" | M20 | 2.41 | 1555 | 233 | 23.38 | 52380.48 | 2.87 | 73 | 5.70 | 145 | 0.472 | 12 |
| | 7/8" | M22 | | | | | | | | | | | |
| | 1" | M24 | | | | | | | | | | 0.59 | 15 |
| | 1-1/8" | M27 | | | | | | | | | | | |
| TRM22 | 1-1/4" | M33 | 4.470 | 2884 | 433 | 43.45 | 97342.27 | 4.25 | 108 | 6.88 | 175 | 0.59 | 15 |
| | 1-3/8" | M36 | | | | | | | | | | | |
| | 1-1/2" | M39 | | | | | | | | | | | |
| TRM23 | 1-5/8" | M42 | 8.17 | 5271 | 791 | 79.38 | 177823.87 | 5.35 | 136 | 7.87 | 200 | 0.59 | 15 |
| | 1-3/4" | M45 | | | | | | | | | | | |
| | 1-7/8" | M48 | | | | | | | | | | | |
| | 2" | M52 | | | | | | | | | | | |
| TRM24 | 2-1/4" | M56 | 13.08 | 8445 | 1267 | 127.15 | 284832.93 | 6.77 | 172 | 9.055 | 230 | 0.59 | 15 |
| | 2-1/2" | M64 | | | | | | | | | | | |
| TRM25 | 2-3/4" | M72 | 18.90 | 12197 | 1830 | 183.66 | 411400.36 | 7.87 | 200 | 10.03 | 255 | 0.59 | 15 |
| | 3" | M76 | | | | | | | | | | | |
| TRM26 | 3-1/4" | M80 | 25.85 | 16682 | 2502 | 251.10 | 562471.97 | 9.25 | 235 | 11.33 | 288 | 0.59 | 15 |
| | 3-1/2" | M90 | | | | | | | | | | | |
| TRM27 | 3-3/4" | M95 | 27.17 | 17530 | 2629 | 263.84 | 591022.71 | 9.64 | 245 | 12.59 | 320 | 0.59 | 15 |
| | 4" | M100 | | | | | | | | | | | |
| TRM29 | 1-7/8" | M48 | 10.82 | 6983 | 1047 | 105.07 | 235374.96 | 6.141 | 156 | 9.055 | 230 | 0.59 | 15 |
| | 2" | M52 | | | | | | | | | | | |
| | 2-1/4" | M56 | | | | | | | | | | | |

Each tool consists of one load cell, bridge, puller and socket. Extra bridges, pullers and sockets can be purchased to adapt the load cell to fit other bolt sizes. The tools are assembled, filled with oil, pressure tested and delivered with a test certificate.

With blade wingspans over 260ft and power generation over 7.5 MW, there is no room for error. RPW Wind Series stands up to the challenge.

Comprehensive range of sizes for all your applications.

High quality materials go into each tool, ensuring long service life.

Swivel ports come standard on the dual-stage tensioners, which allow easier placement of the tool. The swivel can be moved even while the system is pressurized.

Integrated gear drive has a field-proven design that makes it the longest lasting in the market.



# RPW Wind Turbine Series. Building the future.

## Single-stage

Ideal for low overhead clearance applications
Compact, single stage design for minimal installation height

| Bolt Diameter | | Max load | | | Tensioner diameter | | Tensioner height | | Tensioner Stroke | |
|---|---|---|---|---|---|---|---|---|---|---|
| imperial | metric | lbf | tonf | kN | in | mm | in | mm | in | mm |
| 1 | M24 | 65,192 | 29.10 | 290 | 3.35 | 85 | 3.86 | 98 | 0.31 | 8 |
| 1-1/8 | M27 | 84,300 | 37.64 | 375 | 3.58 | 91 | 4.09 | 104 | 0.31 | 8 |
| 1-1/8 | M30 | 103,408 | 46.17 | 460 | 3.86 | 98 | 4.21 | 107 | 0.31 | 8 |
| 1-1/4 | M33 | 128,136 | 57.21 | 570 | 4.29 | 109 | 4.53 | 115 | 0.31 | 8 |
| 1-3/8 | M36 | 150,616 | 67.24 | 670 | 4.49 | 114 | 4.65 | 118 | 0.31 | 8 |
| 1-1/2 | M39 | 179,840 | 80.29 | 800 | 5.04 | 128 | 4.88 | 124 | 0.39 | 10 |
| 15/8 | M42 | 206,816 | 92.33 | 920 | 5.2 | 132 | 5.2 | 132 | 0.39 | 10 |
| 1-3/4 | M45 | 242,784 | 108.39 | 1080 | 5.59 | 142 | 5.28 | 134 | 0.39 | 10 |
| 1-7/8 | M48 | 274,256 | 122.44 | 1220 | 5.94 | 151 | 5.43 | 138 | 0.39 | 10 |
| 2 | M52 | 325,960 | 145.52 | 1450 | 6.38 | 162 | 5.51 | 140 | 0.39 | 10 |
| 2-1/4 | M56 | 376,540 | 168.10 | 1675 | 6.73 | 171 | 5.91 | 150 | 0.39 | 10 |
| 2-1/2 | M64 | 494,560 | 220.79 | 2200 | 7.17 | 182 | 6.38 | 162 | 0.47 | 12 |

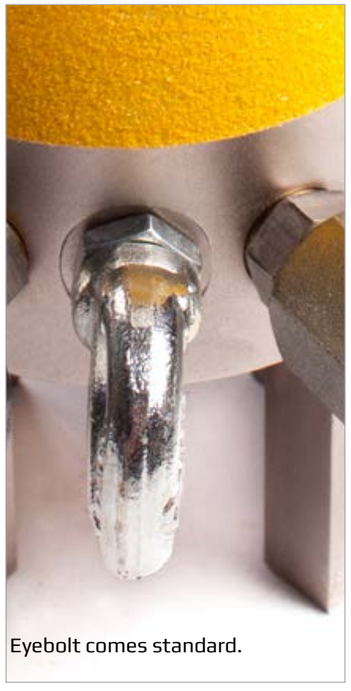
## Dual-stage

Ideal for applications with low radial clearance
Dual-stage design for easy installation into narrow apertures

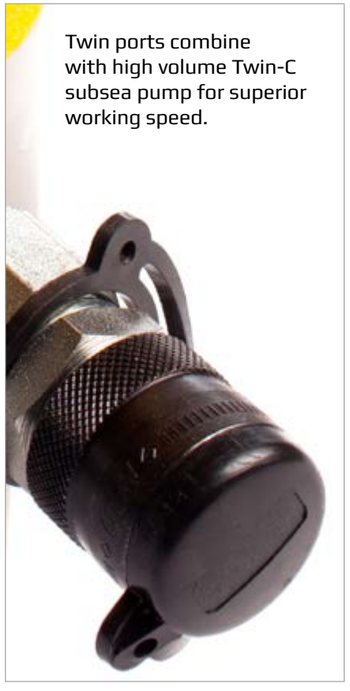
| Bolt Diameter | | Max load | | | Tensioner diameter | | Tensioner height | | Tensioner Stroke | |
|---|---|---|---|---|---|---|---|---|---|---|
| imperial | metric | lbf | tonf | kN | in | mm | in | mm | in | mm |
| 1 | M24 | 64,742 | 28.90 | 288 | 2.36 | 60 | 7.4 | 188 | 0.28 | 7 |
| 1-1/8 | M27 | 84,300 | 37.74 | 376 | 2.6 | 66 | 7.62 | 193.5 | 0.28 | 7 |
| 1-1/8 | M30 | 103,858 | 46.37 | 462 | 2.83 | 72 | 7.91 | 201 | 0.28 | 7 |
| 1-1/4 | M33 | 128,586 | 57.41 | 572 | 3.07 | 78 | 8.5 | 216 | 0.31 | 8 |
| 1-3/8 | M36 | 150,616 | 67.24 | 670 | 3.25 | 82.5 | 9.04 | 229.5 | 0.39 | 10 |
| 1-1/2 | M39 | 180,290 | 80.49 | 802 | 3.62 | 92 | 10.31 | 263 | 0.39 | 10 |
| 15/8 | M42 | 206,928 | 92.38 | 920.5 | 3.86 | 98 | 10.31 | 262 | 0.39 | 10 |
| 1-3/4 | M45 | 243,234 | 108.59 | 1082 | 4.13 | 105 | 10.91 | 281.5 | 0.39 | 10 |
| 1-7/8 | M48 | 274,706 | 122.64 | 1222 | 4.37 | 111 | 11.56 | 293.5 | 0.39 | 10 |
| 2 | M52 | 326,410 | 145.72 | 1452 | 4.72 | 120 | 12.8 | 325 | 0.39 | 10 |
| 2-1/4 | M56 | 376,540 | 168.10 | 1675 | 5.04 | 128 | 12.99 | 330 | 0.39 | 10 |
| 2-1/2 | M64 | 494,560 | 220.79 | 2200 | 5.83 | 148 | 14.23 | 361.5 | 0.47 | 12 |

This is the most diver-friendly tool available. Every aspect on this tool was designed to reduce dive time.

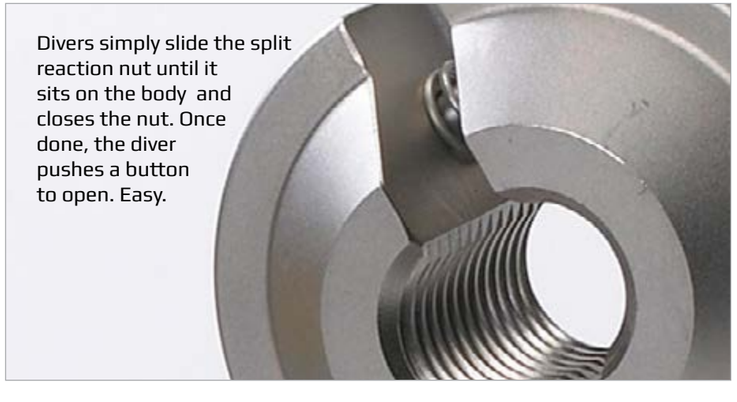
Combined body and bridge. Less parts for the diver to worry about.



Eyebolt comes standard.



Twin ports combine with high volume Twin-C subsea pump for superior working speed.



Divers simply slide the split reaction nut until it sits on the body and closes the nut. Once done, the diver pushes a button to open. Easy.

The finish is not there for looks, it protects the tool from corrosive sea water.



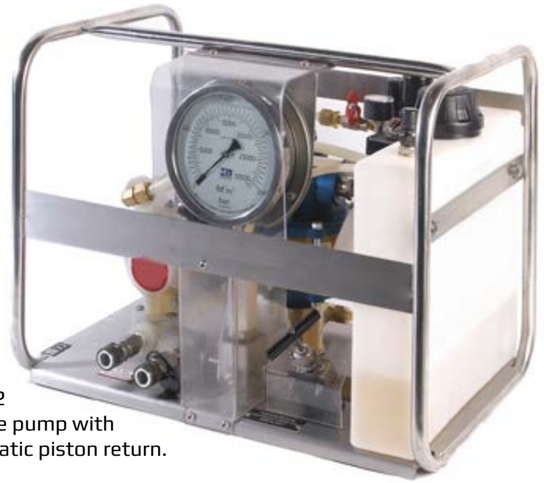
# TRTS Subsea Series. Diver-friendly technology.

- Pressures up to 21,750 psi/1500 bar
- Any number of tools can be connected together for
- simultaneous operation
- Single or twin hydraulic connections available
- Custom thread forms available upon request
- Contact your Rapid-Torc representative for ordering numbers

| Model no. | Bolt Diameter | | Max Load | | | Tood OD | | Height | |
|---|---|---|---|---|---|---|---|---|---|
| | in | mm | kn | tonf | lbf | in | mm | in | mm |
| TRTS1 | 7/8" | M24 | 361 | 36.2 | 81088 | 3.54 | 90 | 6.73 | 171 |
| | 1" | M27 | 361 | 36.2 | 81088 | 3.54 | 90 | 6.73 | 171 |
| | 1-1/8" | M30 | 361 | 36.2 | 81088 | 3.54 | 90 | 6.73 | 171 |
| | 1-1/4" | M33 | 361 | 36.2 | 81088 | 3.54 | 90 | 6.73 | 171 |
| TRTS2 | 1-3/8" | M36 | 544 | 54.6 | 122,304 | 4.29 | 109 | 7.04 | 179 |
| | 1-1/2" | M39 | 544 | 54.6 | 122,304 | 4.29 | 109 | 7.04 | 179 |
| | 1-5/8" | M42 | 544 | 54.6 | 122,304 | 4.29 | 109 | 7.04 | 179 |
| TRTS3 | 1-3/4" | M45 | 812 | 81.5 | 182,560 | 5.11 | 130 | 7.79 | 198 |
| | 1-7/8" | M48 | 812 | 81.5 | 182,560 | 5.11 | 130 | 7.79 | 198 |
| | 2" | M52 | 812 | 81.5 | 182,560 | 5.11 | 130 | 7.79 | 198 |
| TRTS4 | 2-1/4" | M56 | 1550 | 155.5 | 348,320 | 6.77 | 172 | 9.25 | 235 |
| | 2-1/2" | M64 | 1550 | 155.5 | 348,320 | 6.77 | 172 | 9.25 | 235 |
| | 2-3/4" | M72 | 1550 | 155.5 | 348,320 | 6.77 | 172 | 9.25 | 235 |
| TRTS5 | 3" | M76 | 2562 | 2557 | 5,727,680 | 8.46 | 215 | 10.66 | 271 |
| | | M80 | 2562 | 2557 | 5,727,680 | 8.46 | 215 | 10.66 | 271 |
| | 3-1/4" | M85 | 2562 | 2557 | 5,727,680 | 8.46 | 215 | 10.66 | 271 |
| | 3-1/2" | M90 | 2562 | 2557 | 5,727,680 | 8.46 | 215 | 10.66 | 271 |

STRT Subsea series has available many accessories and complementary tools. Page 21 features some of the highest requested items. However, our engineers can create a solution tailored to your application.

# Tensioning System products



Twin22
topside pump with
automatic piston return.

Teams can work faster with Automatic Piston Return, only from Rapid-Torc. Your team no longer has to count on manual return or twin ports. Let Twin22 do all the work.

Automatic Piston Return Adapter.
Increases piston return speed on any brand high pressure tensioner pump.

Twin-Light pumps

T-blocks are essential for multi-tool operation. Add extra connections to your order.

Nipples are in stock to customize your order.

Twin-C Subsea pump.

Beauty and power combined. The Twin-C pump stands up to harsh environments with stainless steel components while providing the high volume pumping required for deep dives.

Rapid-Torc Subsea hose reel

Use in combination with Twin-C Subsea pump and Rapid-Torc high pressure hose for easy handling.

Segmented tensioner systems can be quickly produced for the flange design your team works with the most.

Subsea variant cuts dive time thanks to simultaneous tensioning, minimal hydraulic connections and the ability to make up a flange on one side.

Protect bolt threadings with end caps.

Hydraulic nuts for
topside & subsea use.

Subsea flange puller helps line up misaligned flanges. Available in rope-type and bar type.



Rapid-Torc® can custom-design tensioners for your application!

# Induction Bolt Heating

Rapid-Torc® Induction Bolt Heating is used across the globe to cut downtime and increase safety. Some of the largest energy producers in the world choose Rapid-Torc® Induction Bolt Heating over any other technology.

Disassembly and assembly of horizontal joint bolts  on steam turbines

Custom Inductor Rods are standard issue with any application we work on.

Horizontal split on turbine.

Vertical split on combustion turbine and steam are easily tightened and loosened.

# Rapid-Torc® IBH

## INDUCTION BOLT HEATING

### Advanced Bolt Heating

Rapid-Torc engineers saw an opportunity to greatly reduce wasted downtime. With costs for downtime quickly escalating, there had to be a way to work fast, safe and efficiently. Rapid-Torc IBH is the answer.

### Rapid-Torc® Induction Bolt Heating Key Features

Built-in air/water heat exchanger
No water connection needed
HF generator power=20KW
Accepts any voltage from 250 to 500 volts
Worldwide operation without modification

EASY-TO-USE CONTROL PANEL
The control panel makes the machine easy to use.

SELF-CONTAINED WATER CHILLER
Self-contained water chiller allows for easy one plug setup. External water level indicator shows water level.

ONE-PLUG CONNECTION
Rapid-Torc® Induction Bolt Heating only needs one connection: the power. No complicated pre-work water connections needed.

45' INDUCTOR HOSE
The range on the IBH System allows the tool to move around the application with ease.

EASY-TO-MOVE
The IBH unit is easy to move. All models feature orientable heavy-duty casters with brakes.

Our induction bolt heating system works on any size stud. This is a 16" bolt in a steel mill.

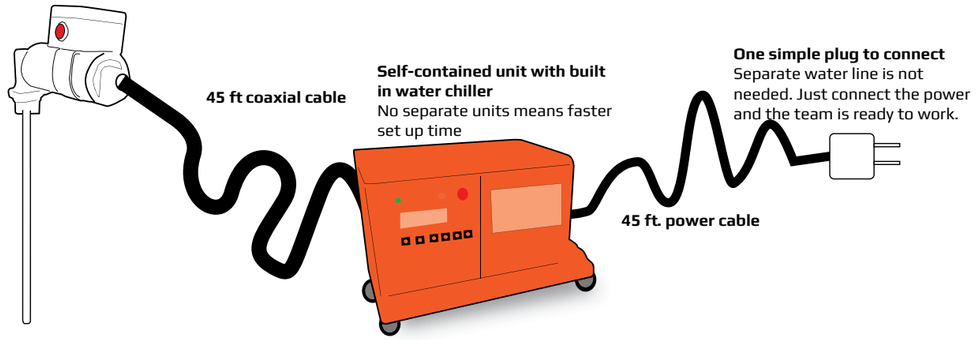
Feed pump are an easy task for our induction machines.

Horizontal Split on steam turbine.

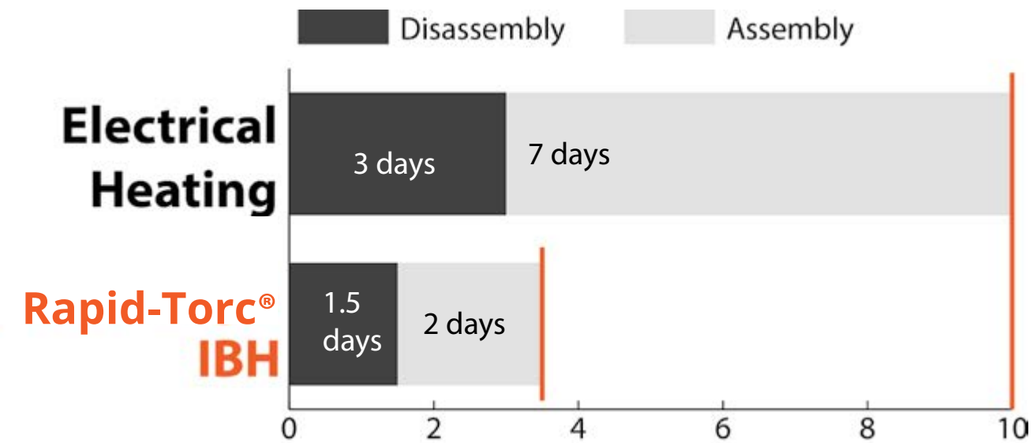
# Rapid-Torc IBH System. Even our technicians continue to be amazed by the technology.

## The most advanced bolt heating system in the world. And it's easy to use.

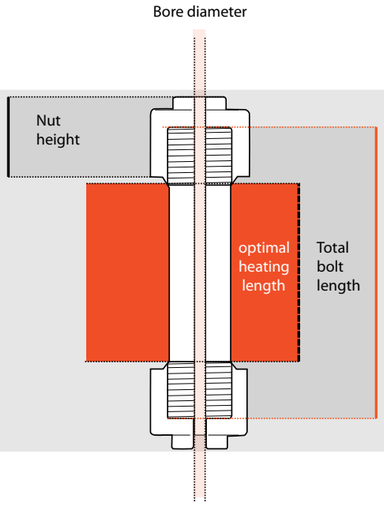
**One self-contained inductor**
The inductor is water-cooled and features the smallest built-in transformer available.




## Here is just one example of what it can do for your application.



## By collecting the appropriate data, the system works flawlessly. Our qualified technicians will get the job done in record time.




### Optimal heating length

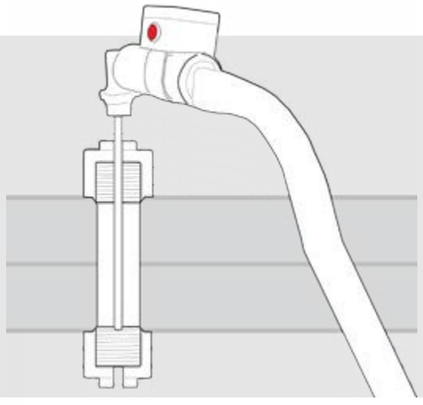
Rapid-Torc technicians choose the best inductor size for the bolt's optimal heating length.

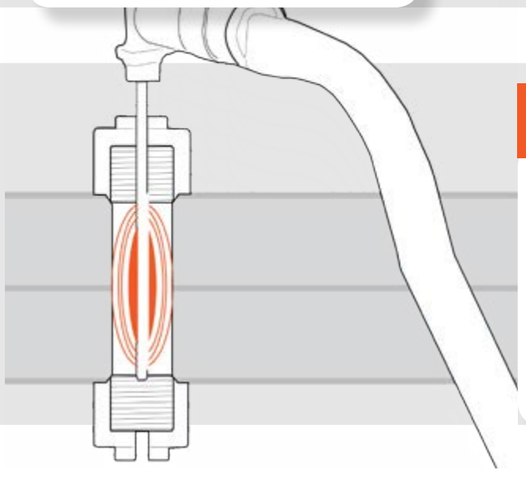
Rapid-Torc® has the widest range of inductor sizes available and will even build a custom size for the application.

### Proper inductor size is confirmed

Once on the field, the technicians ensure the right inductor is chosen.

The ideal inductor will target the optimal heating length; this allows the electromagnetic field to work on the core of the stud and minimize heat transfer to other critical components.



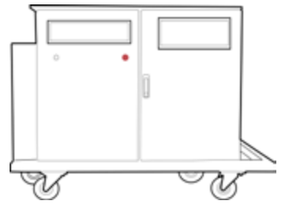


### Induction heating does the rest

Rapid-Torc® IBH controlled heating method heats only the center of stud and it minimizes heat transfer to the surrounding metal. In a short period of time, the stud is heated properly and assembly/disassembly can begin.



## Due to popular demand, Rapid-Torc is now selling its self contained units upon request.



### Speed15

Ideal for studs up to 3”.
Upon ordering, you can provide your application details and Rapid-Torc will customize inductor sizes for you.

### Speed50

Ideal for studs up to whatever anyone has ever produced (we’ve worked on 16” studs with no problem). Power is fully controllable to perform on any large stud project. Custom inductors can be produced.

*Customization and training is included with the purchase of the system.

**Rapid-Torc® IBH** does not generate heat, as is the case with electric, gas and radiant heating technologies. It uses induction heating, which causes the bolt to heat itself. Induction heating occurs when a material capable of conducting electrical current, not necessarily ferrous or magnetic, is placed in a varying magnetic field. The material becomes heated as a result of hysteresis and eddy current losses. Hysteresis occurs with magnetic materials and is produced by retardation of the magnetization effect caused by the friction of the molecules, when the material is magnetized in one direction, then reversed at a very high frequency.

### Power

Variable power connections- as low as 32A (380 or 480V 3 Phase). This feature allows Rapid-Torc technicians to have fast on-site installation and setup.

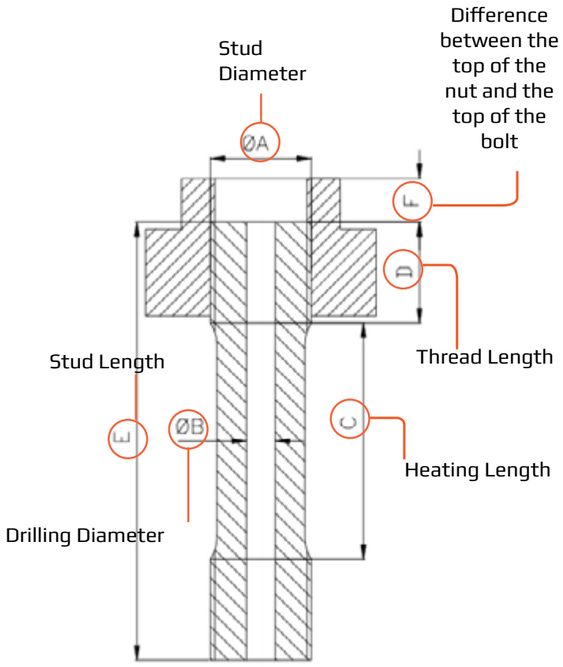
### Water

No external water connection needed to operate thanks to a built-in water cooler. This means that you only need to provide one single electrical connection for Rapid-Torc IBH to start working.

### Friendly

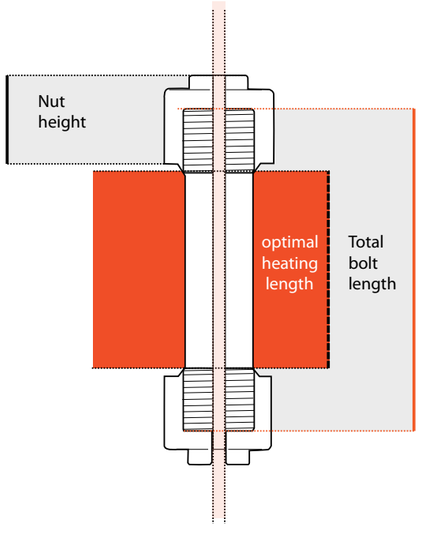
Metallurgically friendly process. Rapid-Torc IBH heats only the core of the stud, only at the optimal temperature and the ideal speed. Other critical components aren’t affected during the process.

# Induction Bolt Heating Inductor Selection Guide




Several values are needed in order to choose the best inductor size.

The goal is to reach the optimal heating length.








## Fill in the values on this sheet.

Use this worksheet to gather information about the application. This will help Rapid-Torc engineers customize the system for you.

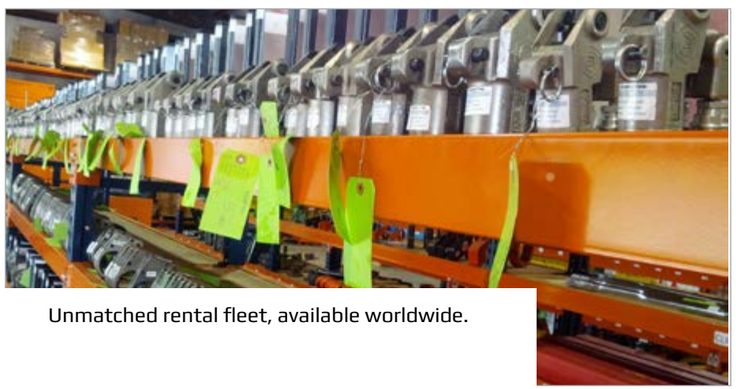
| | ØA Stud Diameter | ØB Drilling Diameter | C Heating Length | D Thread Length | E Stud Length | F Difference between the top of the nut and the top of the bolt |
|---|---|---|---|---|---|---|
| Stud 1 | | | | | | |
| Stud 2 | | | | | | |
| Stud 3 | | | | | | |
| Stud 4 | | | | | | |
| Stud 5 | | | | | | |
| Stud 6 | | | | | | |
| Stud 7 | | | | | | |
| Stud 8 | | | | | | |
| Stud 9 | | | | | | |
| Stud 10 | | | | | | |

Induction Bolt Heating

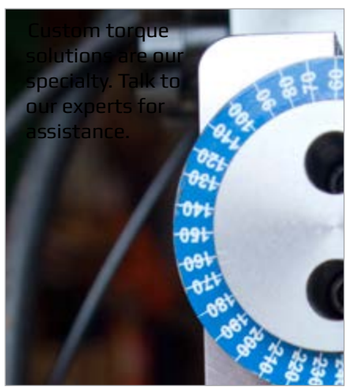
# Hydraulic Torque Wrench Rental Services

## Top of the line bolting products, easy on your bottom line. Huge inventory in stock and just a call away.

Industry leading response times and amazing customer support.



Unmatched rental fleet, available worldwide.



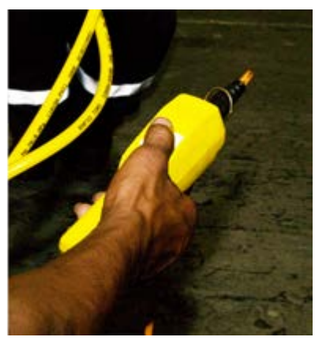



# Hands-On Bolting Training

## Rapid-Torc Training can help decrease workplace accidents & make teams more efficient.

Customized training at our place or yours. We can set up training courses customized to your applications to fully train your team in the environment they'll face day in day out.

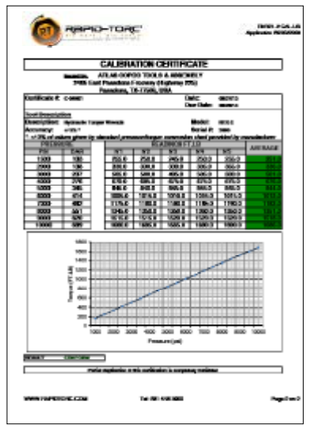
Hands-on training and certification increases safety and productivity while decreasing downtime and liability.



Certificates are issued for each participant that successfully completes the course.

# Calibration

## Accurate bolting depends on accurate tools. Contact us to schedule your yearly calibration today.

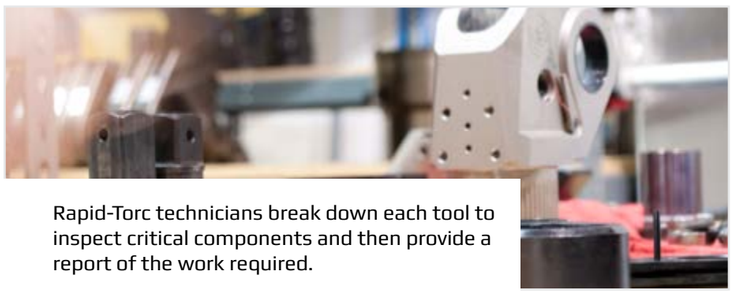



Calibration is done on all tools that are shipped out and the calibration certificate provides traceability.

The sticker on each tool is backed by calibration labs using only the most accurate workstations.

# Repairs

## Rapid-Torc has repair centers around the world. Send us your tools for maintenance or complete overhaul.



Rapid-Torc technicians break down each tool to inspect critical components and then provide a report of the work required.

Quality control process prevents errors. You'll receive your tool in great working condition.

BOLTING
SERVICES
SCOTLAND

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Or email:

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