

BOLTING SOLUTIONS BOX

For your major bolting challenges, our bolting range has solutions which will increase your assembly quality and productivity, reduce risks of operators injuries and solve accessibility issues.



Atlas Copco



OUR GOAL IS TO PROVIDE THE BEST SOLUTIONS FOR YOUR CURRENT BOLTING CHALLENGES

The Rapid-Torc product line is forging ahead new technologies and solutions for the worldwide bolting market. As new technologies are brought to Oil & Gas applications, we have to quickly innovate to help our customers produce at a high level year round. These solutions are the result of forward thinking problem solving. The following solutions have in mind four goals:

QUALITY

Producing quality components day in day out leads to increased productivity. Unique tools are available to ensure quality of your output.

SAFETY

Operator safety is paramount in order to avoid lost time for key employees but also lost production time. Unique products are available to increase safety.

ACCESSIBILITY

Applications with tighter clearances are coming online, so our tools have to support this trend.

PRODUCTIVITY

We have tools that complement our powerful hydraulic torque wrenches.

RAPID-TORC BOLTING SOLUTIONS BOX

ORDERING NO. 8434 2150 19



This leaflet presents our Bolting Solutions Box, providing key solutions to current bolting application challenges. In the following pages we present challenges related to quality, safety, accessibility and productivity. You can test the solutions right on your applications and understand the great value each of these brings to your operation.

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CHALLENGE #1

ACCESSIBILITY ISSUE ON COMPACT FLANGES

Flanges are becoming more compact. Although the RTX direct fit tool is the ideal choice for most flanges, some designs call for even tighter clearances.

QUALITY

SAFETY

ACCESSIBILITY

PRODUCTIVITY

Among challenges we have found:

- 1** the RTX fitted with a traditional link is a bit too wide, causing accessibility issues.
- 2** even if the tool was able to clear this spot to access the nut, the nose radius would also prevent it from fitting entirely around the nut



SOLUTION EA SPANNER WRENCH



The EA spanner is the perfect tool to access cramped spaces using the RTX Powerhead. The spanners are non-ratcheting and comes in both open and closed versions. The EA Spanner Wrench consists of three separate components, which must be ordered separately. Order your items as follows:

Choose your power



Choose your link



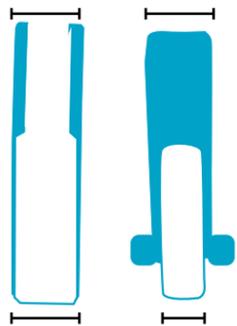
Choose your spanner



BENEFITS

1 The width of the EA Spanner allows it to easily fit in compact flanges. Though the EA link adapter has the same width of the standard link, the EA spanner has a reduced width.

Side by Side view



Tool width

Powerhead	Standard	EA Tool
RTX-02	1.26"	0.75"
RTX-04	1.65"	1.00"
RTX-08	2.08"	1.25"

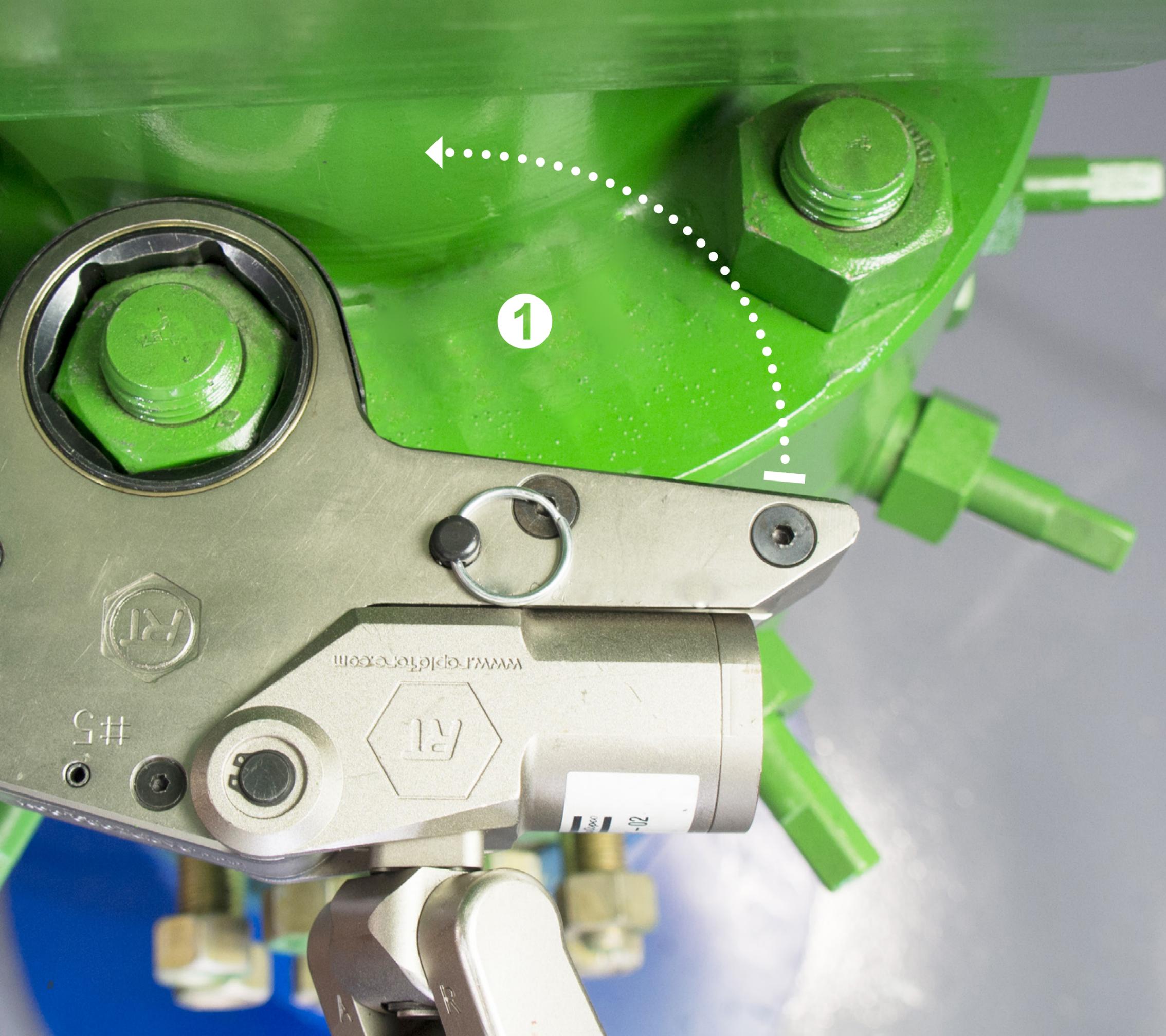
2 The reduced radius of the spanner wrench allows the EA tool to fully engage the nut.



Tool Radius

Powerhead	Standard	EA Tool
RTX-02	.35"	.21"
RTX-04	.47"	.33"
RTX-08	.59"	.37"





CHALLENGE #2

REACTION POINTS

The inline reaction pad for the RTX model works great on most applications. However, there may be times where the inline reaction pad won't properly react of the closest surface.

QUALITY

SAFETY

ACCESSIBILITY

PRODUCTIVITY

1 Inline reaction pad fits fine on would not react correctly on the adjacent nut.

SOLUTION ON SIDE REACTION ARM



The on side reaction arm for RTX requires no modification and connects with the included long link pin. This is a quick and easy solution. It consists of two components:

Standard RTX Setup



Onside reaction arm with link



BENEFITS

- 1 The onside reaction arm is very compact and safely reacts off the flange surface, distributing the force on the rigid inline reaction pad.





CHALLENGE #3

POSSIBLE PINCH POINTS DURING TOOL OPERATION

The RT Series standard reaction arm is perfect for most uses. The RT Series was designed to be operated hands-free. On some applications, however, the application could present challenges in when using the standard reaction arm reaction points and could lead operator's improper handling of the tool.

QUALITY

SAFETY

ACCESSIBILITY

PRODUCTIVITY

1 One some angles operator could have tendency of holding tool in place during operation. This can lead to pinch points, which in turn, leads to injuries.

2 Reaction arm can sometimes not react perfectly on the adjacent nut, either due to nut depth or socket height.

SOLUTION SLIDING REACTION ARM

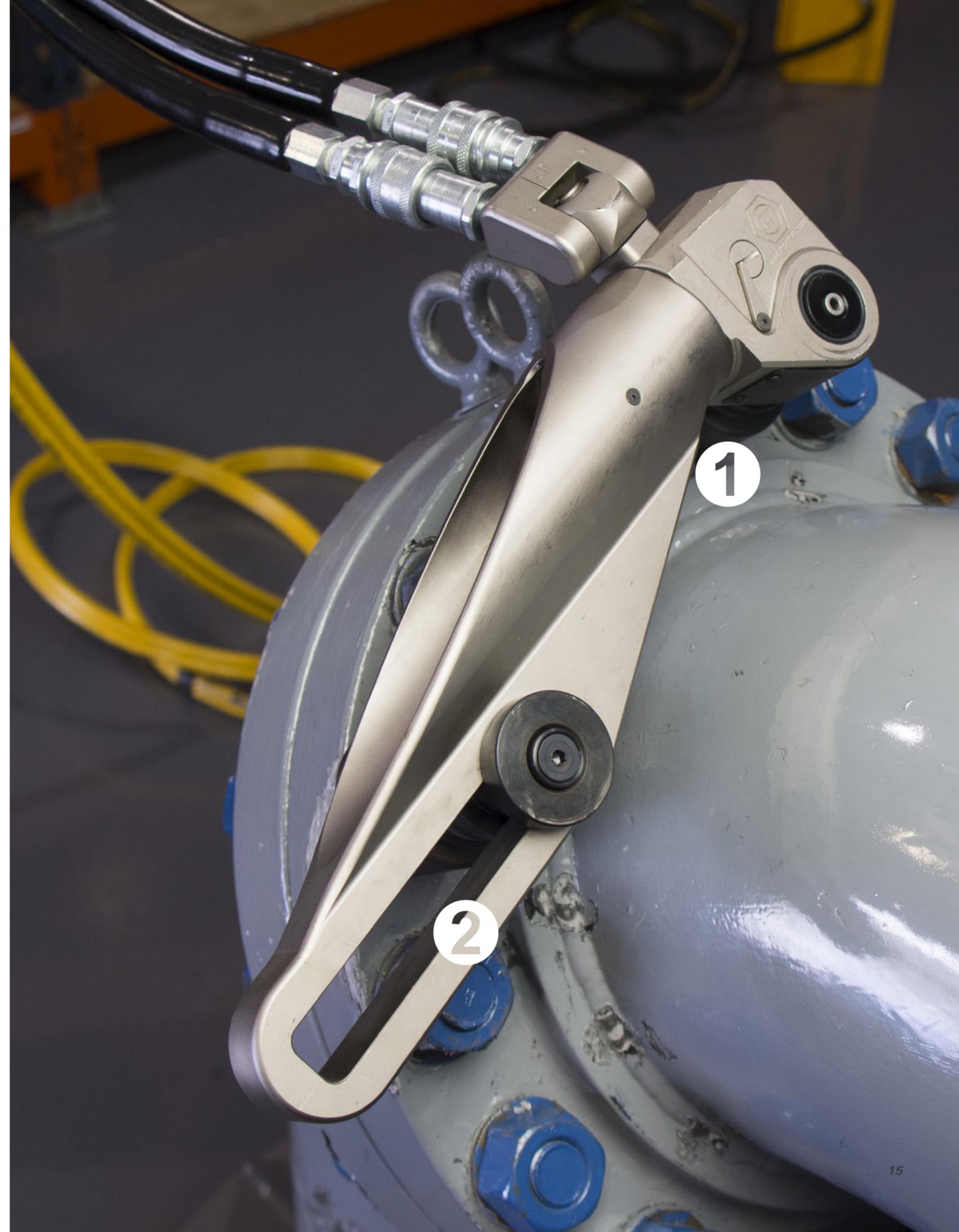


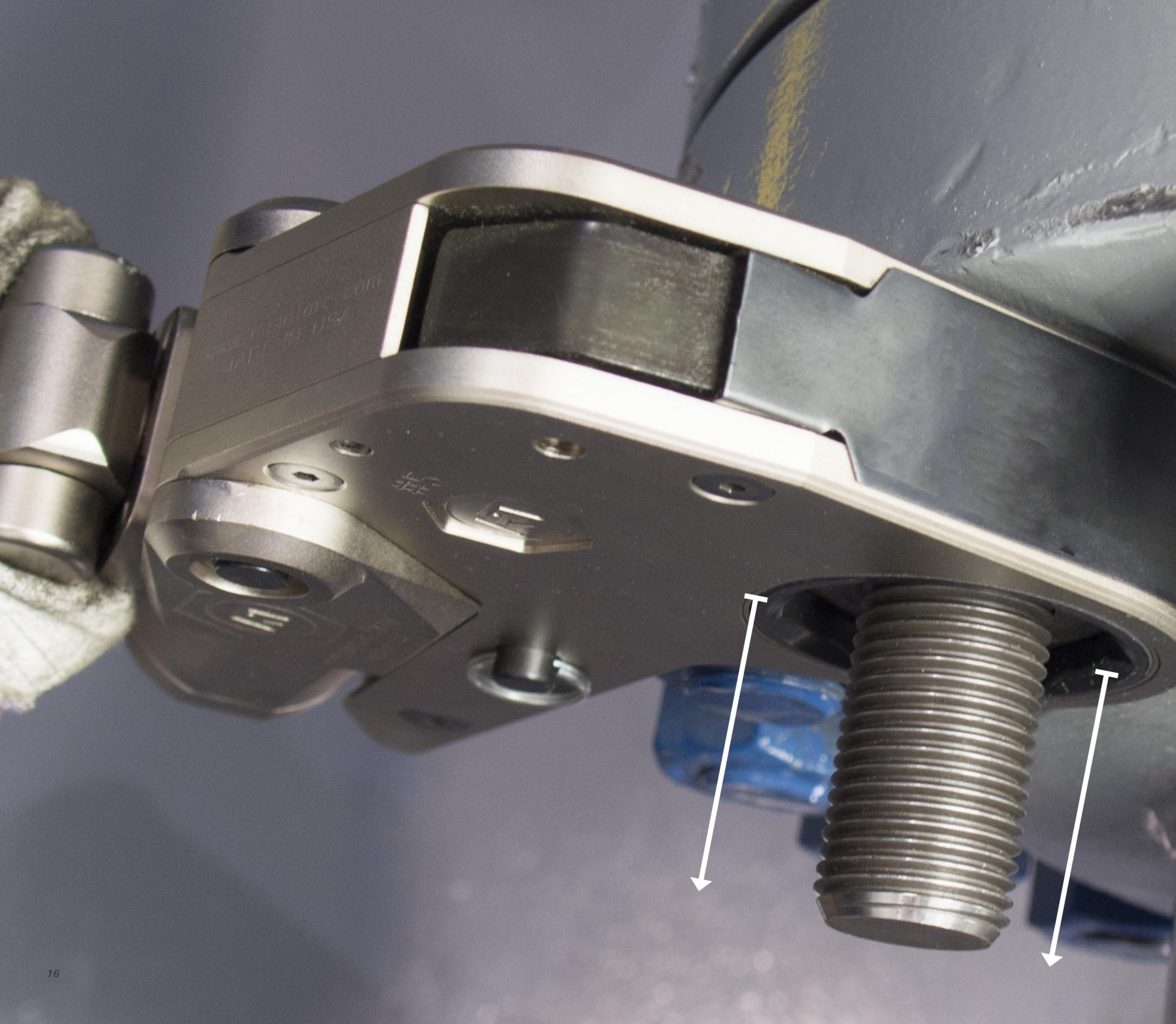
This lightweight and highly durable reaction arm has an adjustable sleeve to match length of adjacent nut distance. Made from aircraft quality aluminum, this reaction arm fits all existing RT models, no modifications needed.



BENEFITS

- 1** RT Series perfectly using the socket for the nut size we are working on.
- 2** A matching socket is used on a non-adjacent nut on the application. The sliding adjustment feature allows the operator to secure the secondary socket at the optimal reaction point. No risk of pinch points.





CHALLENGE #4

WORKING UPSIDE DOWN ON APPLICATIONS

On certain applications, the tool may have trouble staying on the nut.

● **QUALITY**

● **SAFETY**

○ **ACCESSIBILITY**

● **PRODUCTIVITY**

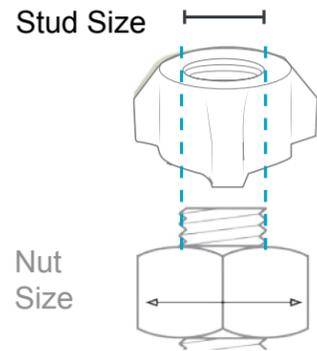
1 RTX is perfect for this bolt length, but this angle the operator may be tempted to hold the tool during operation. This can lead to pinch points.

2 Our bigger models are lighter than many hydraulic torque wrenches, but the weight can still lead to operator fatigue affecting operator's attention to quality.

SOLUTION SAFETY NUT



The Safety Nut is a product which reduces the risk of falling objects and crush injuries. These are the most frequent causes of injury to the operator when using hydraulic torque tools. Choose your safety nut based on the stud size, not the nut size.



STUD SIZE	NUT SIZE	RL SIZE	STUD SIZE	NUT SIZE	RL SIZE
1-1/8"	1-13/16"	113	1-1/2"	2-3/8"	206
1"	1-5/8"	110	1-5/8"	2-9/16"	209
7/8"	1-7/16"	107	2-1/4"	3-1/2"	308
1-1/4"	2"	200	2"	3-1/8"	302
1-7/8"	2-15/16"	215	2-1/2"	3-7/8"	314
1-3/8"	2-3/16"	203	2-3/4"	4-1/4"	404
1-3/4"	2-3/4"	212	3"	4-5/8"	410

BENEFITS

- 1 After setting the torque wrench in position, the Safety Nut is screwed on to the bolt end. This means that the operator does not have to hold the tool during the operation.
- 2 Quality is increased when the tool is correctly acting on the nut. The Safety Nut holds tool in place when working upside operation.
- 3 Reduced operator strain leads to less fatigue. The operator can work longer and more efficiently.





CHALLENGE #5

USE OF SLUGGING WRENCHES TO HOLD OPPOSITE NUT

Using slugging wrenches, also known as hammer wrenches or flogging spanners, can cause quality and safety issues.

● **QUALITY**

● **SAFETY**

○ **ACCESSIBILITY**

○ **PRODUCTIVITY**

1 Hammer is used to remove a slugging wrench once the torquing is done. Although the nut was held in place, the slugging wrench 'freezes' in place until brute force is applied.

2 Slugging Wrenches can fly off the application after being struck, landing on feet or hitting people in the area. Additionally, the risk exists of affecting torque if nut moves.

SOLUTION BACKUP WRENCH



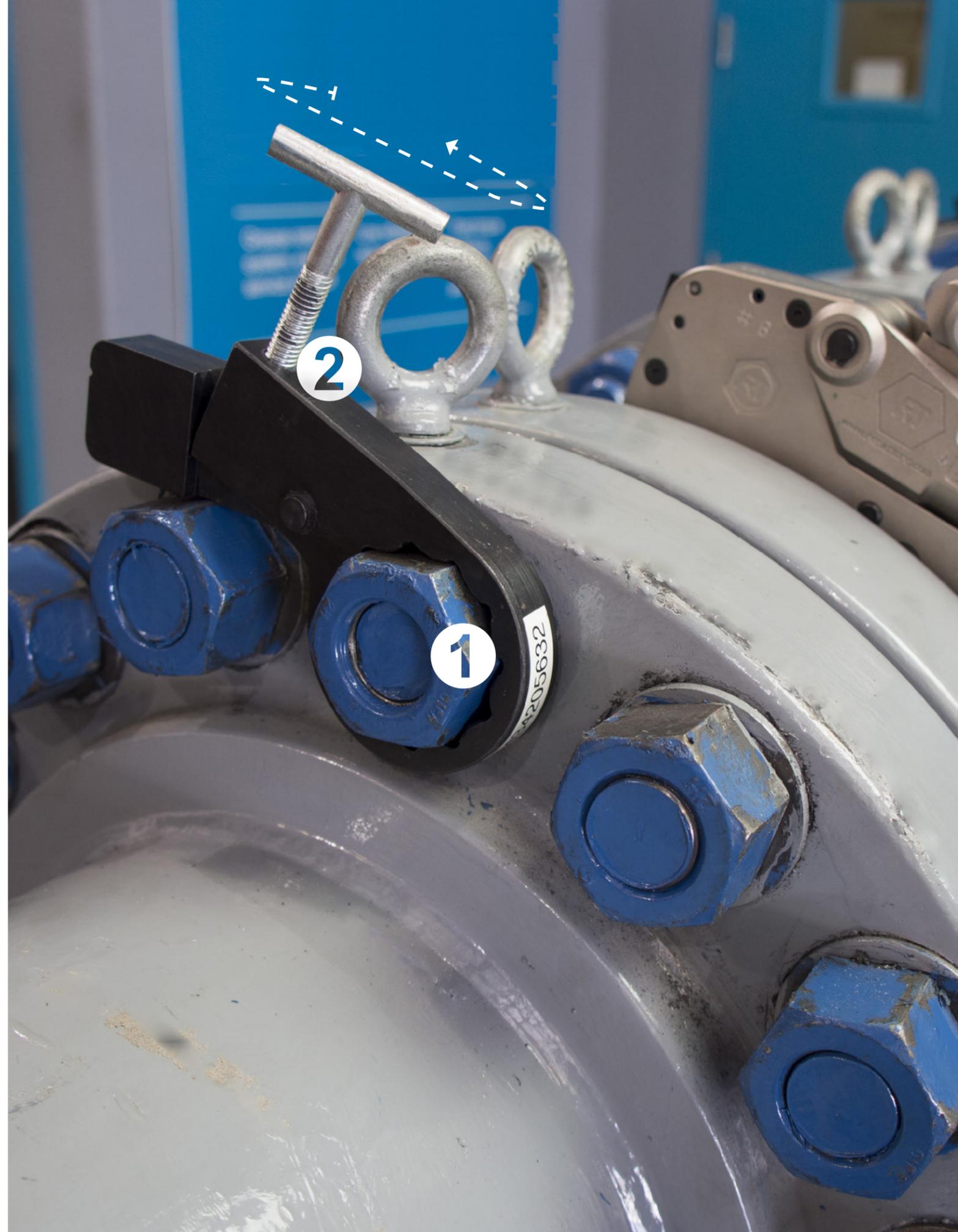
Rapid-Torc backup wrench works in conjunction with any of our bolting tools and safely prevents the nut from rotating. High strength steel, minimal moving parts and the build in t-handle allows this tool to be extremely easy to use.



We carry a wide range of sizes to best fit the application you're working on.

BENEFITS

- 1** The backup wrench easily handles the force put out by the RT or RTX
- 2** No brute force involved. Once the torquing finishes, the operator simply removes the backup wrench by twisting the t-handle. Eliminates the need for hammers.





CHALLENGE #6

TOOL POSITION AND ANGLE CAN LEAD TO PINCH POINTS

Without the proper accessories, the operator may need to hold the tool in place when working upside down.

QUALITY

SAFETY

ACCESSIBILITY

PRODUCTIVITY

- 1** When threads on the stud are not long enough, the safety nut is not an option. This could lead to operator handling the tool during operation. Although safety instructions indicate the need to stay clear of action and reaction points, operator error can lead to poor hand placement.

SOLUTION SAFETY HANDLE

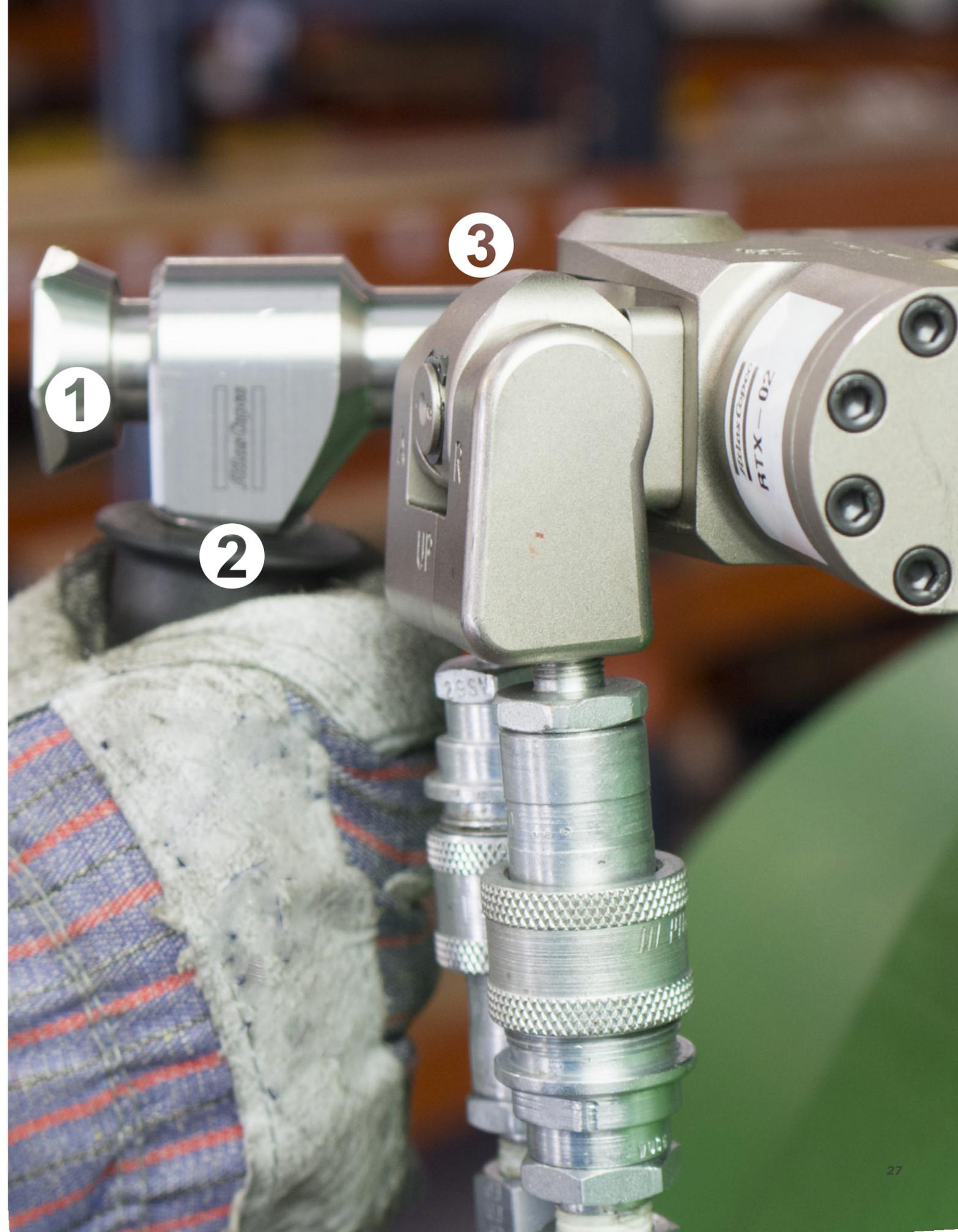
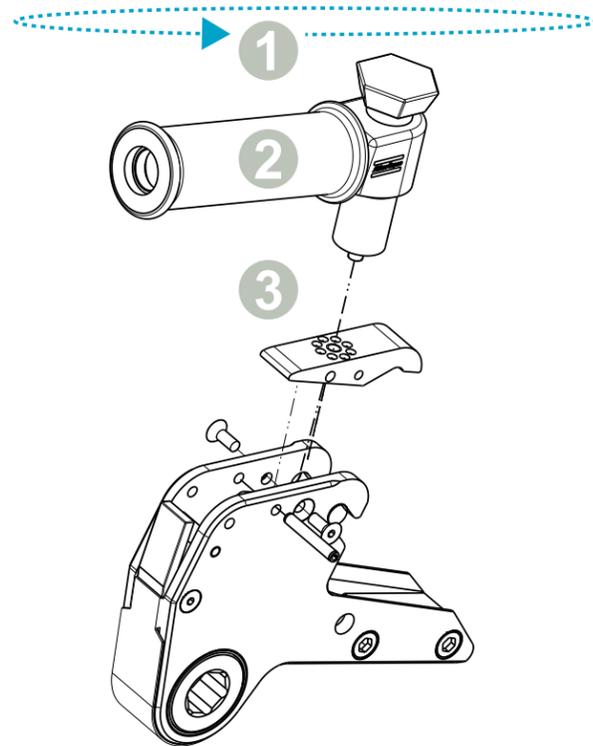


The Safety Handle for Rapid-Torc Hydraulic Torque Wrenches is used to position the tool and hold in place as the tool is cycling. This minimizes operator risk by reducing pinch points and improper tool handling.



BENEFITS

- 1** 360° adjustable to best accommodate the application and operator position.
- 2** Extremely ergonomic and comfortable to hold.
- 3** The adapted top spacer works with existing ratchet links for RTX Hydraulic Torque Wrench.



ORDERING NUMBERS



“C” refers to closed spanner



“O” stands for open spanner such as this.



Description	Ordering No.
RTL-02 LOW PRO LINK	8434 2022 90
RTL-04 LOW PRO LINK	8434 2022 91
RTL-08 LOW PRO LINK	8434 2022 92
EA-02-012-C	8434 2165 13
EA-02-012-O	8434 2167 88
EA-02-013-C	8434 2165 14
EA-02-013-O	8434 2167 89
EA-02-014-C	8434 2165 15
EA-02-014-O	8434 2167 90
EA-02-015-C	8434 2165 16
EA-02-015-O	8434 2167 91
EA-02-100-C	8434 2165 18
EA-02-100-O	8434 2167 93
EA-02-102-C	8434 2165 20
EA-02-102-O	8434 2167 95
EA-02-103-C	8434 2165 21
EA-02-103-O	8434 2167 96
EA-02-104-C	8434 2165 22
EA-02-104-O	8434 2167 97
EA-02-105-C	8434 2165 24
EA-02-105-O	8434 2167 99
EA-02-106-C	8434 2165 25
EA-02-106-O	8434 2168 00
EA-02-107-C	8434 2165 27
EA-02-107-O	8434 2168 02
EA-02-108-C	8434 2165 28
EA-02-108-O	8434 2168 03
EA-02-109-C	8434 2165 29
EA-02-109-O	8434 2168 04
EA-02-110-C	8434 2165 31
EA-02-110-O	8434 2168 06
EA-02-111-C	8434 2165 33
EA-02-111-O	8434 2168 08
EA-02-112-C	8434 2165 34
EA-02-112-O	8434 2168 09
EA-02-113-C	8434 2165 35
EA-02-113-O	8434 2168 10
EA-02-114-C	8434 2165 36
EA-02-114-O	8434 2168 11
EA-02-115-C	8434 2165 37
EA-02-115-O	8434 2168 12
EA-02-200-C	8434 2165 38
EA-02-200-O	8434 2168 13
EA-02-201-C	8434 2165 39
EA-02-201-O	8434 2168 14

Description	Ordering No.
EA-02-202-C	8434 2165 40
EA-02-202-O	8434 2168 15
EA-02-203-C	8434 2165 42
EA-02-203-O	8434 2168 17
EA-02-204-C	8434 2165 43
EA-02-204-O	8434 2168 18
EA-02-205-C	8434 2165 44
EA-02-205-O	8434 2168 19
EA-02-206-C	8434 2165 46
EA-02-206-O	8434 2168 21
EA-02-207-C	8434 2165 47
EA-02-207-O	8434 2168 22
EA-02-208-C	8434 2165 48
EA-02-208-O	8434 2168 23
EA-02-209-C	8434 2165 49
EA-02-209-O	8434 2168 24
EA-02-210-C	8434 2165 50
EA-02-210-O	8434 2168 25
EA-02-211-C	8434 2165 51
EA-02-211-O	8434 2168 26
EA-02-212-C	8434 2165 52
EA-02-212-O	8434 2168 27
EA-02-213-C	8434 2165 54
EA-02-213-O	8434 2168 29
EA-02-214-C	8434 2165 55
EA-02-214-O	8434 2168 30
EA-02-215-C	8434 2165 56
EA-02-215-O	8434 2168 31
EA-02-24MM-C	8434 2165 17
EA-02-24MM-O	8434 2167 92
EA-02-27MM-C	8434 2165 19
EA-02-27MM-O	8434 2167 94
EA-02-32MM-C	8434 2165 23
EA-02-32MM-O	8434 2167 98
EA-02-36MM-C	8434 2165 26
EA-02-36MM-O	8434 2168 01
EA-02-41MM-C	8434 2165 30
EA-02-41MM-O	8434 2168 05
EA-02-42MM-C	8434 2165 32
EA-02-42MM-O	8434 2168 07
EA-02-50MM-C	8434 2022 04
EA-02-50MM-O	8434 2021 03
EA-02-55MM-C	8434 2165 41
EA-02-55MM-O	8434 2168 16
EA-02-60MM-C	8434 2165 45

Description	Ordering No.
EA-02-60MM-O	8434 2168 20
EA-02-70MM-C	8434 2165 53
EA-02-70MM-O	8434 2168 28
EA-02-75MM-C	8434 2165 57
EA-02-75MM-O	8434 2168 32
EA-04-111-C	8434 2165 70
EA-04-111-O	8434 2168 45
EA-04-112-C	8434 2165 71
EA-04-112-O	8434 2168 46
EA-04-113-C	8434 2165 72
EA-04-113-O	8434 2168 47
EA-04-114-C	8434 2165 73
EA-04-114-O	8434 2168 48
EA-04-115-C	8434 2165 74
EA-04-115-O	8434 2168 49
EA-04-200-C	8434 2165 76
EA-04-200-O	8434 2168 51
EA-04-201-C	8434 2023 01
EA-04-201-O	8434 2168 53
EA-04-202-C	8434 2165 78
EA-04-202-O	8434 2168 54
EA-04-203-C	8434 2021 94
EA-04-203-O	8434 2021 82
EA-04-204-C	8434 2165 81
EA-04-204-O	8434 2168 57
EA-04-205-C	8434 2165 82
EA-04-205-O	8434 2168 58
EA-04-206-C	8434 2021 91
EA-04-206-O	8434 2021 84
EA-04-207-C	8434 2165 85
EA-04-207-O	8434 2168 61
EA-04-208-C	8434 2165 86
EA-04-208-O	8434 2168 62
EA-04-209-C	8434 2021 97
EA-04-209-O	8434 2021 81
EA-04-210-C	8434 2165 88
EA-04-210-O	8434 2168 64
EA-04-211-C	8434 2165 89
EA-04-211-O	8434 2168 65
EA-04-212-C	8434 2021 93
EA-04-212-O	8434 2021 80
EA-04-213-C	8434 2165 92
EA-04-213-O	8434 2168 68
EA-04-214-C	8434 2165 93
EA-04-214-O	8434 2168 69

Description	Ordering No.
EA-04-215-C	8434 2021 96
EA-04-215-O	8434 2021 85
EA-04-300-C	8434 2165 95
EA-04-300-O	8434 2168 71
EA-04-302-C	8434 2023 02
EA-04-302-O	8434 2168 72
EA-04-50MM-C	8434 2165 75
EA-04-50MM-O	8434 2168 50
EA-04-51MM-C	8434 2165 77
EA-04-51MM-O	8434 2168 52
EA-04-55MM-C	8434 2165 79
EA-04-55MM-O	8434 2168 55
EA-04-56MM-C	8434 2165 80
EA-04-56MM-O	8434 2168 56
EA-04-60MM-C	8434 2165 83
EA-04-60MM-O	8434 2168 59
EA-04-61MM-C	8434 2165 84
EA-04-61MM-O	8434 2168 60
EA-04-66MM-C	8434 2165 87
EA-04-66MM-O	8434 2168 63
EA-04-70MM-C	8434 2165 90
EA-04-70MM-O	8434 2168 66
EA-04-71MM-C	8434 2165 91
EA-04-71MM-O	8434 2168 67
EA-04-75MM-C	8434 2165 94
EA-04-75MM-O	8434 2168 70
EA-04-80MM-C	8434 2165 96
EA-04-80MM-O	8434 2168 73
EA-08-100MM-C	8434 2166 46
EA-08-100MM-O	8434 2169 22
EA-08-107-C	8434 2165 97
EA-08-107-O	8434 2168 74
EA-08-108-C	8434 2165 98
EA-08-108-O	8434 2168 75
EA-08-109-C	8434 2165 99
EA-08-109-O	8434 2168 76
EA-08-110-C	8434 2166 01
EA-08-110-O	8434 2168 78
EA-08-111-C	8434 2166 03
EA-08-111-O	8434 2168 80
EA-08-112-C	8434 2166 04
EA-08-112-O	8434 2168 81
EA-08-113-C	8434 2166 05
EA-08-113-O	8434 2168 82
EA-08-114-C	8434 2166 06
EA-08-114-O	8434 2168 83

Description	Ordering No.
EA-08-115-C	8434 2166 07
EA-08-115-O	8434 2168 84
EA-08-200-C	8434 2166 09
EA-08-200-O	8434 2168 86
EA-08-201-C	8434 2166 11
EA-08-201-O	8434 2168 88
EA-08-202-C	8434 2166 12
EA-08-202-O	8434 2168 89
EA-08-203-C	8434 2166 14
EA-08-203-O	8434 2168 91
EA-08-204-C	8434 2166 16
EA-08-204-O	8434 2168 93
EA-08-205-C	8434 2166 17
EA-08-205-O	8434 2168 94
EA-08-206-C	8434 2166 19
EA-08-206-O	8434 2168 96
EA-08-207-C	8434 2166 21
EA-08-207-O	8434 2168 98
EA-08-208-C	8434 2166 22
EA-08-208-O	8434 2168 99
EA-08-209-C	8434 2166 23
EA-08-209-O	8434 2169 00
EA-08-210-C	8434 2166 25
EA-08-210-O	8434 2169 02
EA-08-211-C	8434 2166 26
EA-08-211-O	8434 2169 03
EA-08-212-C	8434 2166 27
EA-08-212-O	8434 2169 04
EA-08-213-C	8434 2166 30
EA-08-213-O	8434 2169 07
EA-08-214-C	8434 2166 31
EA-08-214-O	8434 2169 08
EA-08-215-C	8434 2166 32
EA-08-215-O	8434 2169 09
EA-08-300-C	8434 2166 34
EA-08-300-O	8434 2169 11
EA-08-302-C	8434 2166 35
EA-08-302-O	8434 2169 12
EA-08-304-C	8434 2022 03
EA-08-304-O	8434 2169 14
EA-08-305-C	8434 2166 37
EA-08-306-C	8434 2166 39
EA-08-306-O	8434 2169 16
EA-08-308-C	8434 2166 40
EA-08-308-O	8434 2169 17
EA-08-309-C	8434 2166 42

Description	Ordering No.
EA-08-309-O	8434 2169 19
EA-08-314-C	8434 2166 44
EA-08-314-O	8434 2169 21
EA-08-400-C	8434 2166 45
EA-08-404-C	8434 2166 47
EA-08-41MM-C	8434 2166 00
EA-08-41MM-O	8434 2168 77
EA-08-42MM-C	8434 2166 02
EA-08-42MM-O	8434 2168 79
EA-08-50MM-C	8434 2166 08
EA-08-50MM-O	8434 2168 85
EA-08-51MM-C	8434 2166 10
EA-08-51MM-O	8434 2168 87
EA-08-55MM-C	8434 2166 13
EA-08-55MM-O	8434 2168 90
EA-08-56MM-C	8434 2166 15
EA-08-56MM-O	8434 2168 92
EA-08-60MM-C	8434 2166 18
EA-08-60MM-O	8434 2168 95
EA-08-61MM-C	8434 2166 20
EA-08-61MM-O	8434 2168 97
EA-08-66MM-C	8434 2166 24
EA-08-66MM-O	8434 2169 01
EA-08-70MM-C	8434 2166 28
EA-08-70MM-O	8434 2169 05
EA-08-71MM-C	8434 2166 29
EA-08-71MM-O	8434 2169 06
EA-08-75MM-C	8434 2166 33
EA-08-75MM-O	8434 2169 10
EA-08-80MM-C	8434 2166 36
EA-08-80MM-O	8434 2169 13
EA-08-85MM-C	8434 2166 38
EA-08-85MM-O	8434 2169 15
EA-08-90MM-C	8434 2166 41
EA-08-90MM-O	8434 2169 18
EA-08-95MM-C	8434 2166 43
EA-08-95MM-O	8434 2169 20



ON SIDE REACTION ARM

Description	Ordering No.
RTX02-14	4222 2107 14
RTX04-14	4222 2109 27
RTX08-14	4222 2110 44
RTX14-14	4222 2141 22
RTX18-14	4222 2141 23
RTX30-14	4222 2144 43



SAFETY NUT

Description	Ordering No.
Safety Nut for 2" stud	8434212919
Safety Nut for 2-1/2" stud	8434212918
Safety Nut for 2-1/4" stud	8434212916
Safety Nut for 1-7/8" stud	8434212915
Safety Nut for 3" stud	8434212913
Safety Nut for 2-3/4" stud	8434212912
Safety Nut for 1-3/4" stud	8434212910
Safety Nut for 1-5/8" stud	8434212909
Safety Nut for 1-1/2" stud	8434212907
Safety Nut for 1-3/8" stud	8434212906
Safety Nut for 1-1/4" stud	8434212904
Safety Nut for 1-1/8" stud	8434212903
Safety Nut for 1" stud	8434212901
Safety Nut 7/8" stud	8434212900



HANDLE

Description	Ordering No.
HANDLE KIT RT0.5, RT1	8434217034
HANDLE KIT RT3, RT5	8434217033
HANDLE KIT RT8, RT10	8434217032
HANDLE KIT RL-02	8434217035
HANDLE KIT RL-04	8434217036
HANDLE KIT RL-08	8434217037
HANDLE KIT RL-14	8434217038
HANDLE KIT RL-18	8434217039
HANDLE KIT RL-30	8434217040

The handle comes as a complete retrofit kit. All necessary components are included.



BACKUP WRENCH

Description	Ordering No.
1 11/16IN BK-111	8434 2129 57
1 5/16IN BK-105	8434 2056 31
2 7/16IN BK-207	8434 2128 95
BK-014 7/8IN	8434 2056 27
BK-100MM	8434 2056 24
BK-101 1-1/16IN	8434 2056 29
BK-104=32MM	8434 2128 90
BK-105MM	8434 2128 93
BK-107	8434 2056 26
BK-108	8434 2128 96
BK-110	8434 2056 28
BK-110MM	8434 2128 99
BK-112	8434 2129 02
BK-113	8434 2056 30
BK-114	8434 2129 05
BK-120MM	8434 2129 08
BK-200	8434 2056 32
BK-201	8434 2129 11
BK-202	8434 2129 14
BK-203	8434 2056 34
BK-204	8434 2129 17
BK-206	8434 2056 36
BK-209	8434 2056 38
BK-210	8434 2056 40
BK-212	8434 2056 42
BK-215	8434 2056 44



SLIDING REACTION ARM

Description	Ordering No.
BK-24MM	8434 2056 23
BK-300	8434 2129 23
BK-302	8434 2056 46
BK-302=80MM	8434 2056 53
BK-308=90MM	8434 2056 48
BK-30MM	8434 2129 26
BK-312	8434 2129 29
BK-314	8434 2056 50
BK-34MM	8434 2128 91
BK-36MM	8434 2129 32
BK-402	8434 2129 35
BK-404	8434 2129 38
BK-410	8434 2056 52
BK-43MM	8434 2129 33
BK-500	8434 2056 54
BK-506	8434 2056 56
BK-55MM	8434 2128 92
BK-70MM	8434 2129 41
BK-75MM	8434 2056 55
BK-85MM	8434 2129 44

Description	Ordering No.
RT-01 STD	8434 2150 95
RT-01 EXT	8434 2057 33
RT-03 STD	8434 2150 30
RT-03 EXT	8434 2150 37
RT-05 STD	8434 2150 35
RT-05 EXT	8434 2150 36
RT-08 STD	8434 2150 31
RT-08 EXT	8434 2150 32
RT-10 STD	8434 2150 33
RT-10 EXT	8434 2150 34
RT20 STD	8434 2150 89
RT20 EXT	8434 2150 90
RT25 STD	8434 2150 91
RT25 EXT	8434 2150 92
RT50 STD	8434 2150 93
RT50 EXT	8434 2150 94

STD= Standard EXT=Extended

COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time. This is what we call - Sustainable Productivity.

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The Atlas Copco logo consists of the brand name "Atlas Copco" in a blue, italicized serif font, centered between two horizontal blue bars of equal length.

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