



RAPID-TORC®

B I G N U T S - B I G T O O L S ®
WWW.RAPIDTORC.COM



What we do every day makes us
the most comprehensive bolting solutions company in the world.



We don't waste time reminiscing on how good we did yesterday; we are looking at what we're doing for you today, and how we can continue to surpass expectations tomorrow.

Rapid-Torc has evolved to be the preeminent bolting solutions provider in three major bolting categories used by industries worldwide: torque, tension and induction bolt heating. Rapid-Torc believes that by having choices for bolting methods we avoid forcing unneeded solutions on the end user.

We carry tools in-stock and can immediately support any operation, large or small. Custom-tool design is also a part of our core expertise. Excellent tools, excellent vision and excellent customer experience will make Rapid-Torc your company of choice.

Torquing Tools | Reach proper load with torque.

RT Square Drive	RTX Hex Drive	Pumps	Pneumatic Torque Gun	RT Impact Socket
4	6	8	10	12

Tensioning Tools | Reach proper load with tension.

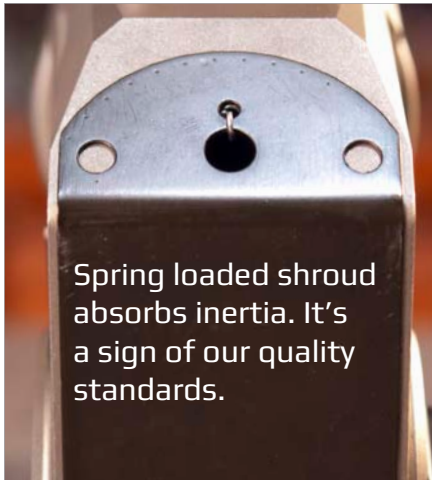
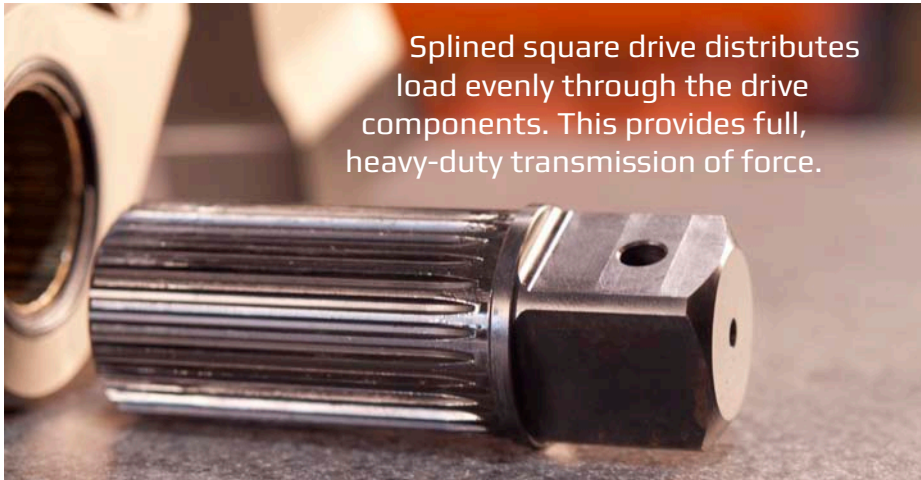
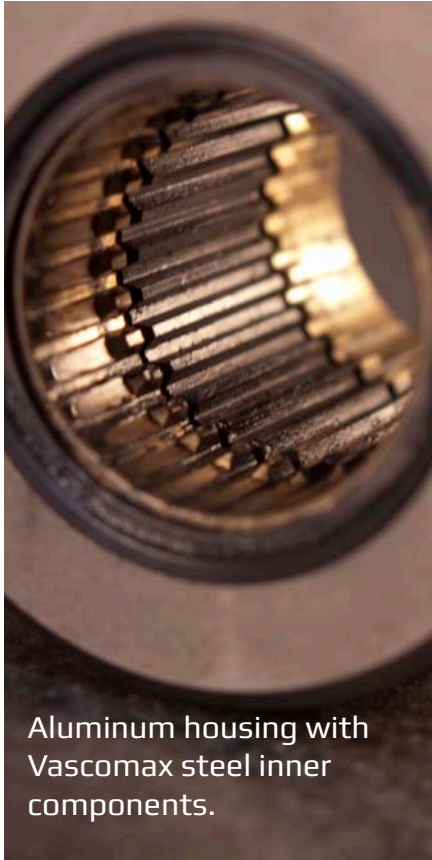
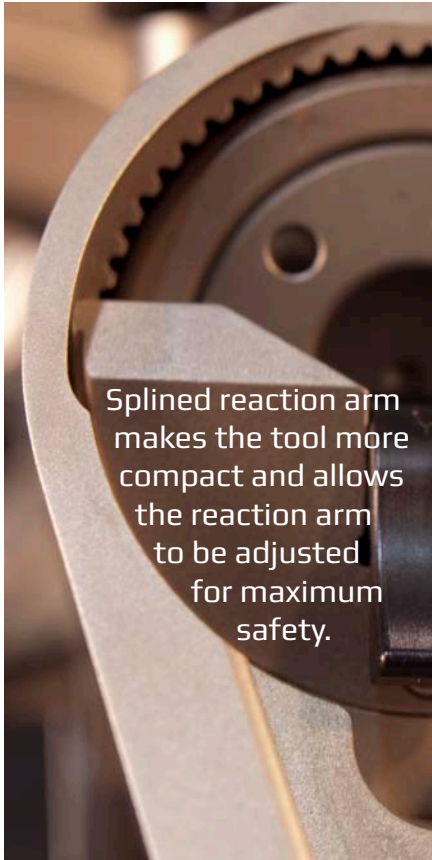
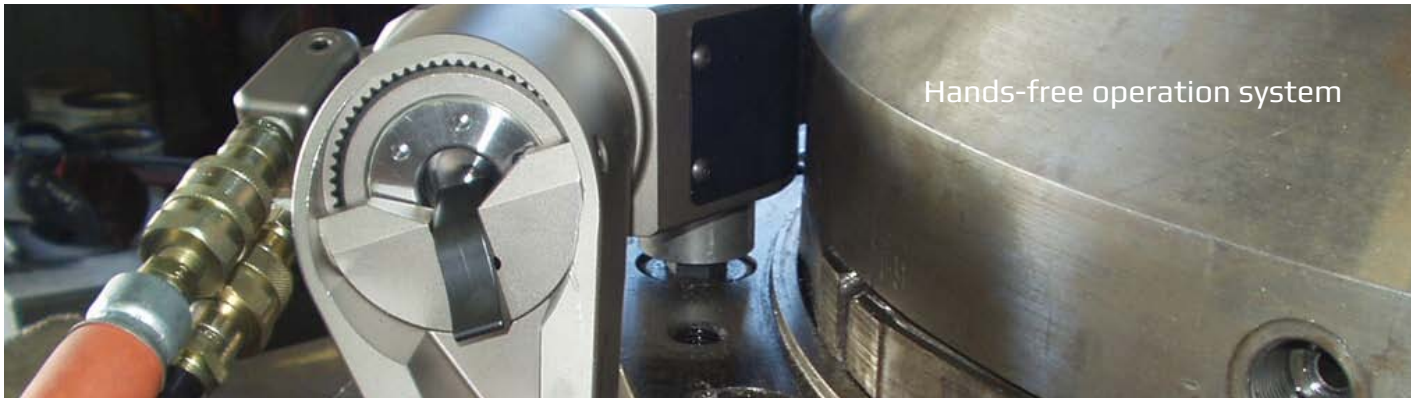
TRM Topside	RPW Wind Turbine	TRTS Subsea	Pumps & accessories
14	16	18	20

Induction Bolt Heating | Reach proper load with induction.

System Features	How it works	Flawless Execution	Speed12 & Speed50
22	23	24	25

Complementary Tools

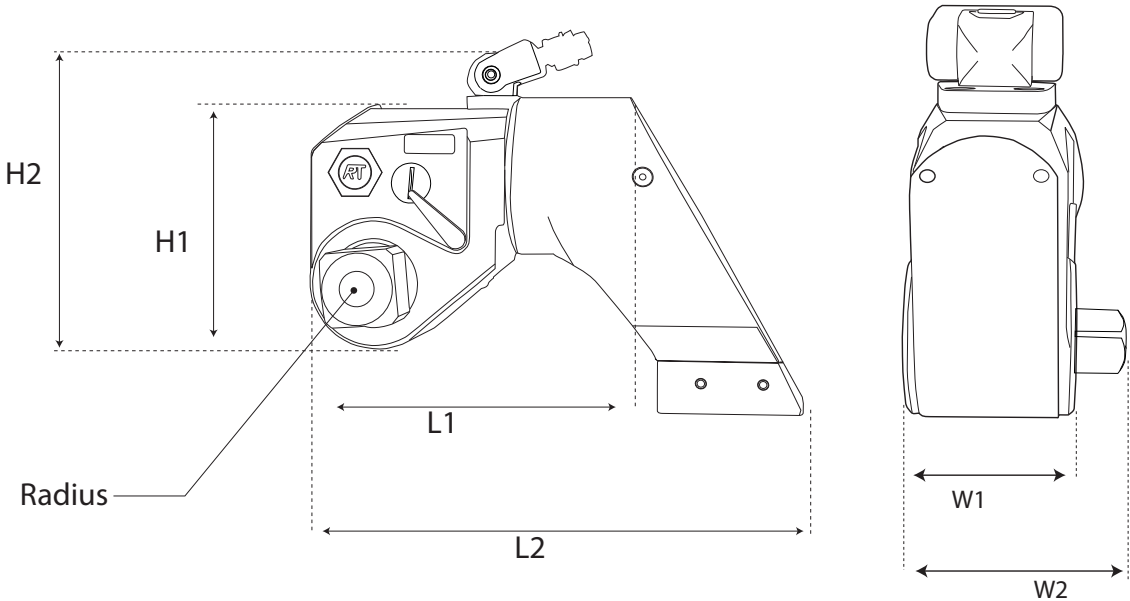
Flange Spreader	Backup Wrench	Stud Extractor	Nutsplitter
26	26	27	27



RT Series. Unsurpassed torquing power.



Made in the USA
9 models from 55 ft.lbs. up to 52,500 ft.lbs.
5 square drive sizes: 1/2", 3/4", 1", 1-1/2" & 2-1/2"
Output accuracy certified at +/-3%



Model	Square Drive	Torque				Weight		Dimensions													
		Ft-lbs		Nm				L1		L2		H1		H2		Radius		W1		W2	
		in	min	max	min	max	lbs	kg	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
RT-5	1/2"	55	397	75	538	0.8	0.4	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	3/4"	200	1340	271	1817	3.8	1.9	4.68	120	7.13	183	3.52	90.5	4.75	122	0.9	23	1.95	50	2.76	71
RT-3	1"	480	3230	651	4379	7.8	3.9	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	1-1/2"	835	5590	1132	7578	15	7.5	7.21	185	11.23	288	5.63	144.5	7.05	181	1.44	37	3.12	80	4.9	126
RT-8	1-1/2"	1200	8000	1627	10845	23	11.5	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	1-1/2"	1755	11520	2379	15617	26.8	13.4	9	232	13.9	357	7.2	186	9.3	239	1.87	48	3.9	100	5.5	142.5
RT-20	2-1/2"	2960	19760	4013	26787	36	18	10.2	259	16.55	420	8.5	216	9.9	251	2.17	55.11	4.7	119	6.7	170
RT-25	2-1/2"	3960	25890	5368	35096	62	31	12	310	18.4	473	9.1	234	11	282	2.37	61	5.2	134	7.4	191
RT-50	2-1/2"	7875	52500	10675	71169	96	48	15.2	390	23.9	615	11.4	294	13.4	344	30.8	79	6.5	167	8.9	228





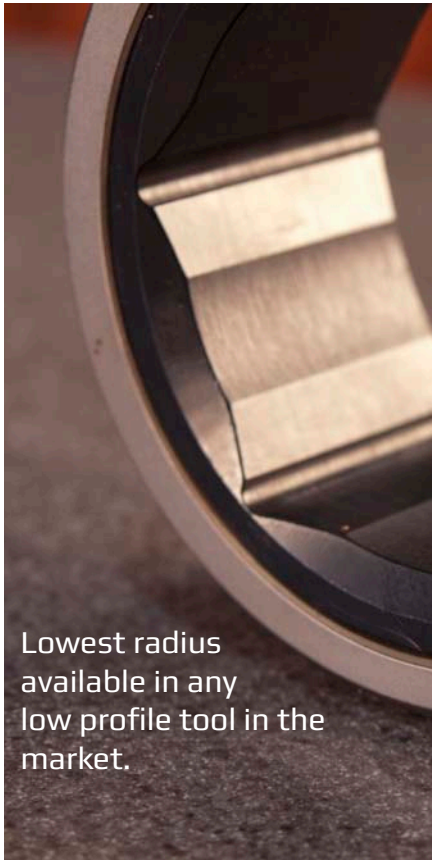
The perfect tool for flanges.



Greatest hex range available in low profile tools.



Automatic internal engagement.



Lowest radius available in any low profile tool in the market.



High strength steel

Aircraft quality aluminum.

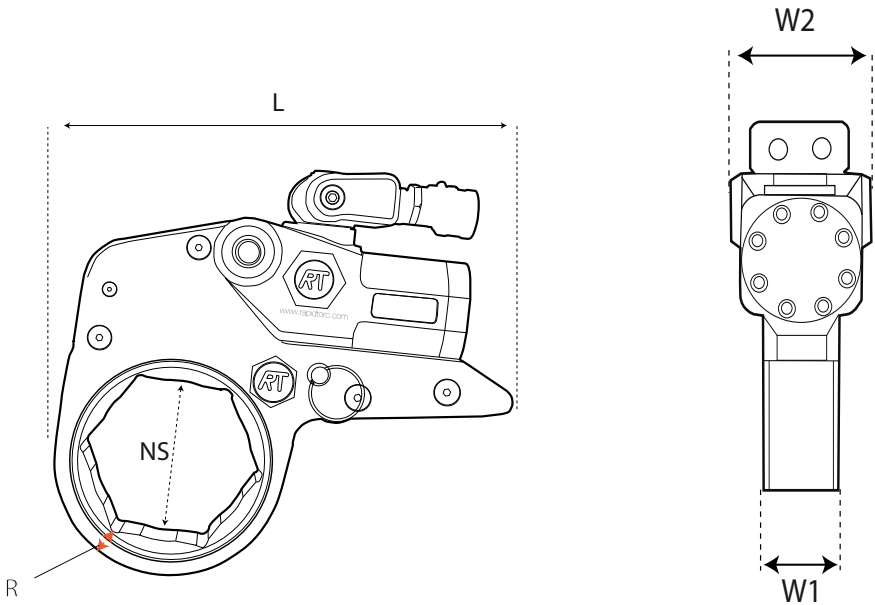


Exclusive swivel design provides 100% safety for the operator.

RTX Series. Tight clearances are no longer an issue.



Made in the USA
6 models from 167 ft.lbs up to 45,000 ft.lbs.
Repeatability at +/-1%
Output accuracy certified at +/-3%
Largest hex size range available



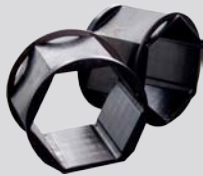
Model	Ratchet Link Hex Size		Torque				Weight		Dimensions									
			Ft-lbs		Nm				L		NS		R		W1		W2	
	in	mm	min	max	min	max	lbs	kg	in	mm	in	mm	in	mm	in	mm	in	mm
RTX-2	¾ – 2 ¾	19-65	255	1710	346	2318	4.5	2	7.2	183	¾ – 2 9/16	19-65	0.35	9	1.26	32	1.92	49
RTX-4	1" – 3 1/8	25-85	580	3855	786	5226	9.7	4.4	9.7	248	1 5/16 – 3 1/8	32-80	0.47	12	1.65	42	2.56	65
RTX-8	1 5/8 – 4 1/8	46-105	1143	8151	1549	11049	19.5	9	12.1	308	1 13/16 – 3 7/8	46-100	0.59	15	2.08	53	3.22	82
RTX-14	2 ½ – 5 3/8 ⁹	60-135	2010	13400	2725	18165	33	15	14.6	372	2 – 4 5/8	50-120	0.72	18.5	2.48	63	3.89	99
RTX-18	3 1/2 ⁹ – 5 1/2 ⁹	75-140	2676	17845	3628	24191	51	23	15.5	393	3" – 5 1/2 ⁹	75-140	.87	22.2	2.75	70	4.37	111
RTX-30	3 ½ – 6 ½	90-165	4770	31800	6466	43108	78	35.5	18	457	3 9/16 – 6 1/8	90-155	1	25.4	3.26	83	5.28	132

ACCESSORIES

One-side reaction arm

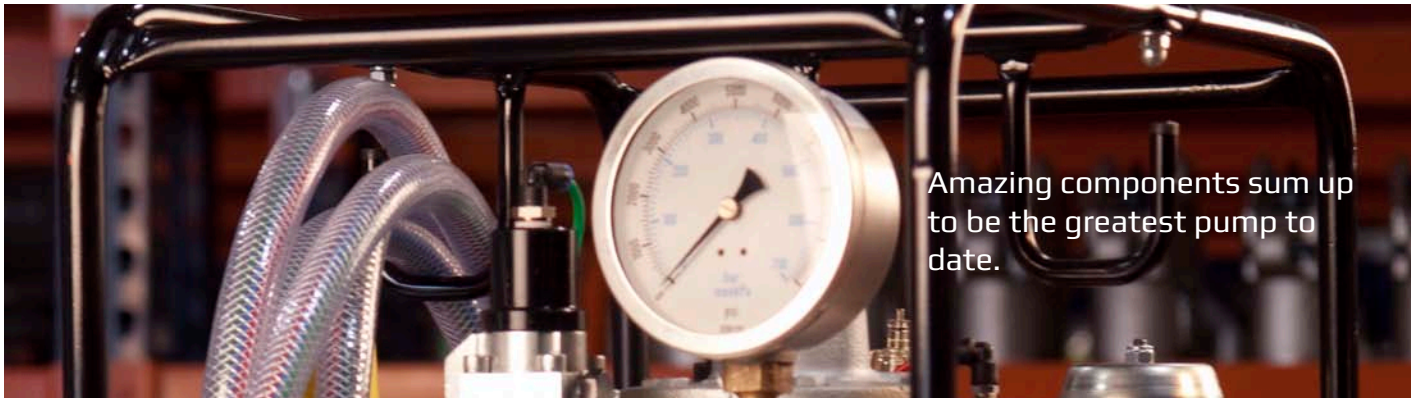


Hex Inserts



Alco reaction arm





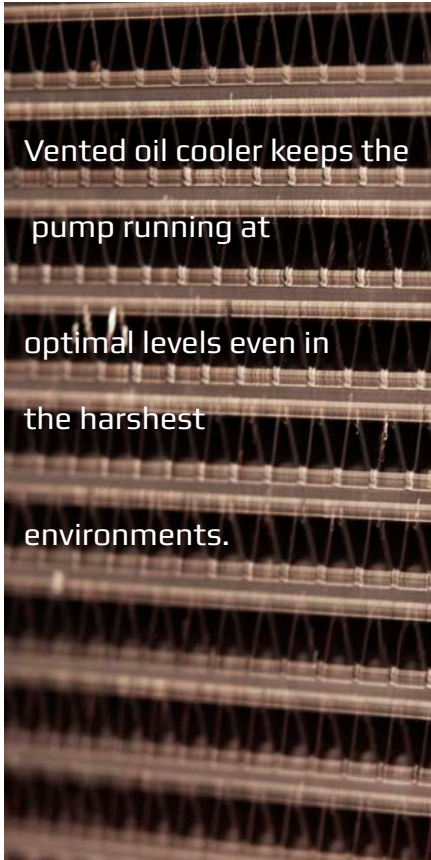
Amazing components sum up to be the greatest pump to date.



The gauge features class 1 accuracy, safety glass, dual-scale and is calibrated according to ISO 17025.



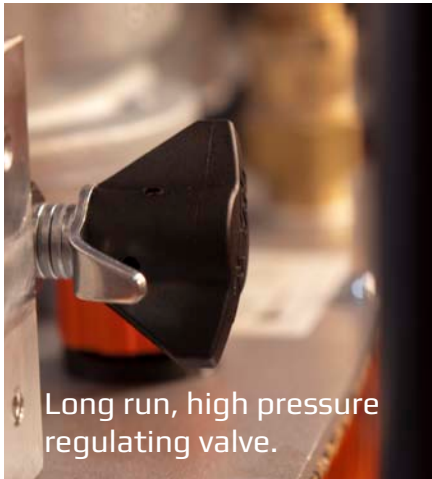
Four-port manifold. Teams can work with up to 4 tools at a time, drastically increasing productivity.



Vented oil cooler keeps the pump running at optimal levels even in the harshest environments.



Full frame for portability and added protection.



Long run, high pressure regulating valve.

Panther. Mind-blowing oil flow for your tools.



- 700 bar/10,000 psi double effect pump
- Quiet operation (-80dB)
- Multi-stage hydraulic piston pumps
- Exceptional design is rated IP54
- Reaches 700bar/10kpsi with just 50 psi air (air-driven models)
- Auto-shutoff after idling 1 minute (electric models)
- 24V Remote control with 5m/15ft cable



			Electric (110V or 220V)			Air driven		
Model			Panther 025	Panther 055	Panther 150	Panther A110	Panther A380	Cougar 734
Oil Flow	1250 psi		195 cu. in/min	391 cu. in/min	641 cu. in/min	275 cu.in/min	701 cu. in/min	734 cu. in/min
	70 bar		3.2 l/min	6.4 l/min	10.5 l/min	4.5 l/min	11.5 l/min	12 l/min
	3600 psi		54 cu. in/min	110 cu. in/min	153 cu. in/min	67 cu in./min	213 cu. in/min	196 cu.in/min
	250 bar		0.9 l/min	1.8 l/min	2.5 l/min	1.1 l/min	3.5 l/min	3.2 l/min
	10000 psi		21 cu. in/min	42 cu. in/min	92 cu. in/min	24 cu. in/min	79 cu.in/min	86 cu.in/min
	700 bar		0.35 l/min	0.7 l/min	1.5 l/min	0.4 l/min	1.3 l/min	1.4 l/min
Intercooler System			No	Yes	Yes	Yes	Yes	Yes
Source			110V or 220V	110V or 220V	110V or 220V	7 bar/100 psi	7 bar/100 psi	7 bar/100 psi
Weight			33 lbs	48 lbs	72 lbs	37 lbs	46 lbs	72 lbs
			15 kg	22 kg	33 kg	17 kg	21 kg	33 kg
Oil Capacity	Gallon		0.5	1	1.5	0.5	1.5	1.5
	Liter		1.89	3.78	5.67	1.89	5.67	5.67
Dimension	L	in	12.6"	17.3"	20.1"	13.4"	15.7"	15.7"
		mm	320.0	439.4	510.5	340.3	398.7	398.7
	W	in	8.3"	9.4"	15.7"	13.7"	14.9"	14.9"
		mm	210.8	238.7	398.7	347.9	378.4	378.4
	H	in	15.3"	18.5"	23.2"	16.5"	18.1"	18.1"
		mm	388.6	469.9	589.2	419.1	459.7	459.7
Number of ports			1	4	4	1	4	4
Full frame			No	Yes	Yes	No	Yes	Yes

ACCESSORIES

Flat face/quick connect couplers

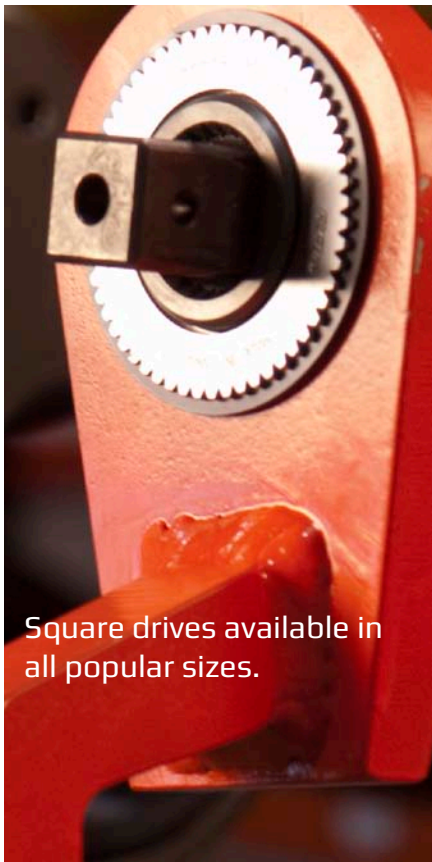


Order standard hoses 15ft/7m through 72ft/20m



Cailbrated MPA or Bar/PSI gauges

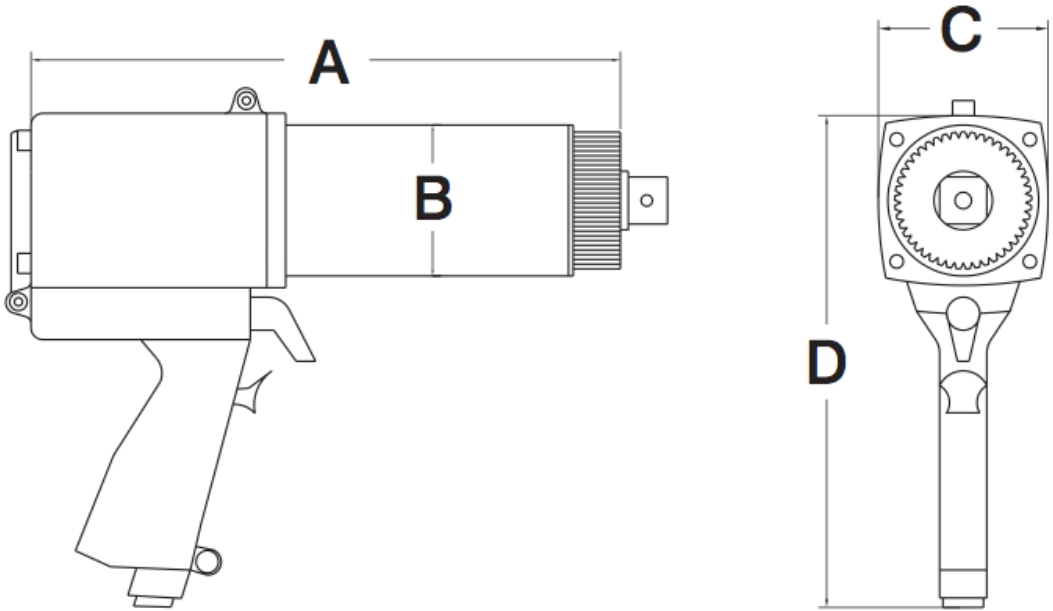




RapidGun. Torquing in the palm of your hand.



Up to 6,800 Nm/5,000 ft.lbs.
Extremely quiet, produces noise at only 75 dB
Low vibration at only 2.5m/s²
Tooling accuracy guaranteed within +/-5%
Comes standard with carrying case and standard reaction arm
Application-specific reaction arms can be designed



Model	Square Drive	Torque		RPM	Dimensions						Weight	
		Min-Max			a		b		c		kg	lbs
		Nm	Ft.lbs		mm	in	mm	in	mm	in		
RG-1100	3/4"	200-1100	150-800	30	196	7.7	72	2.8	83	3.3	4.3	9.5
RG-2400	1"	700-2450	500-1800	10	228	9.0	76	3.0	83	3.3	5.6	12.5
RG-4000	1"	1400-4050	1000-3000	14	335	13.2	78	3.1	93	3.7	9.2	20.5
RG-6800	1 1/2"	2000-6800	1500-5000	7	353	13.9	101	4.0	93	3.7	12.7	28.0

ACCESSORIES

Double ended reaction arm

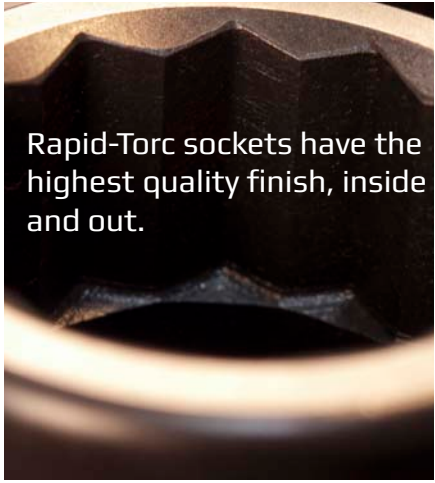
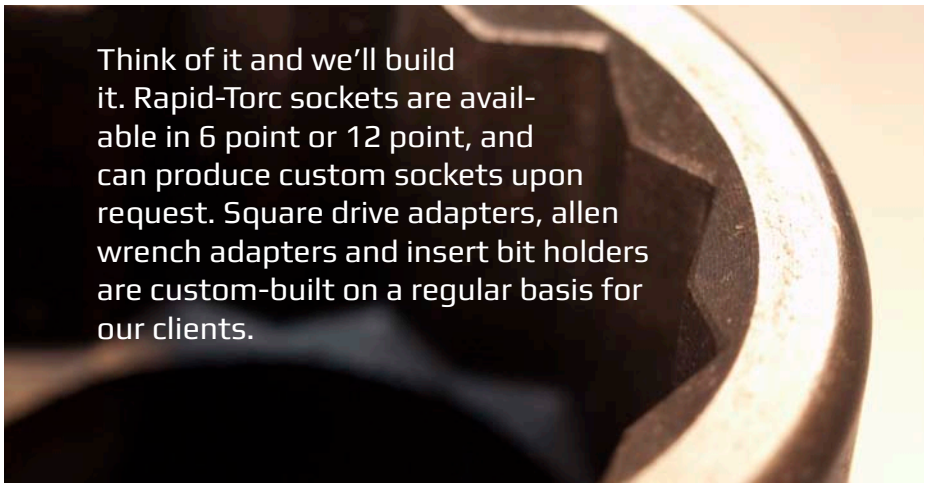


Blank reaction arm



Double bank reaction arm





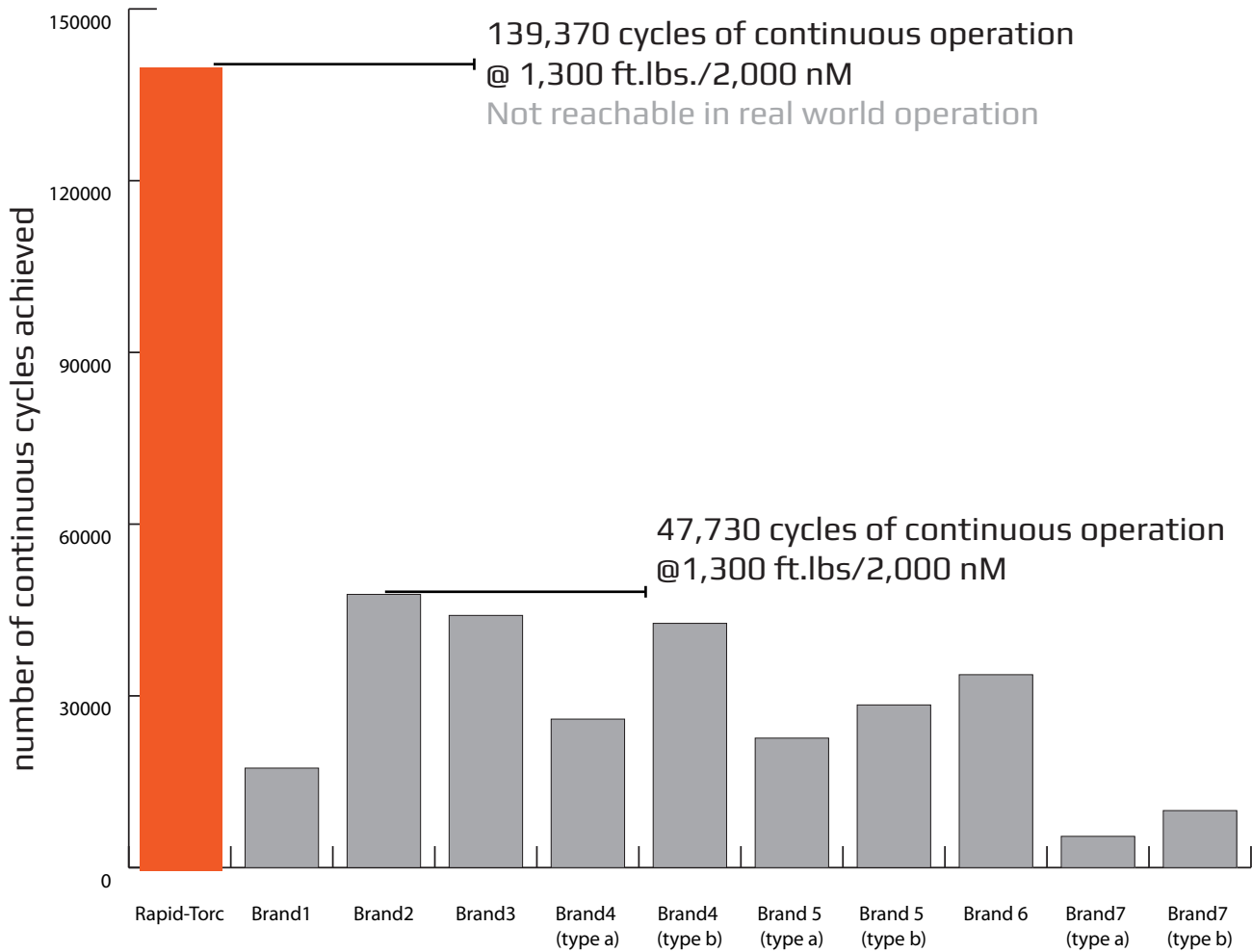
Rapid-Torc Sockets. Truly unbreakable.



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

Your work is too critical; don't trust substandard products.

Rapid-Torc sockets are beyond doubt the most durable 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.lbs./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.



*The full report is available upon request.



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



Uniquely designed seals contribute to long tool life.



Extra bridges, pullers and sockets can be purchased 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.

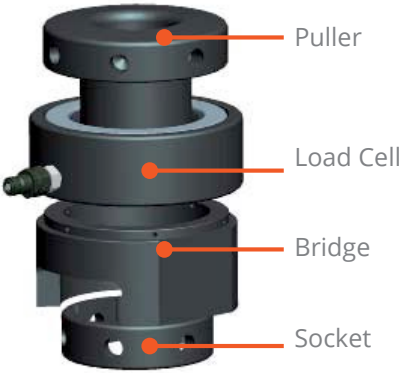


Versatile design allows for quick customization.



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 number	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											
	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		
	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		
	2-1/2"	M64											
TRM25	2-3/4"	M72	18.90	12197	1830	183.66	411400.36	7.87	200	10.03	255		
	3"	M76											
TRM26	3-1/4"	M80	25.85	16682	2502	251.10	562471.97	9.25	235	11.33	288		
	3-1/2"	M90											
TRM27	3-3/4"	M95	27.17	17530	2629	263.84	591022.71	9.64	245	12.59	320		
	4"	M100											
TRM29	1-7/8"	M48	10.82	6983	1047	105.07	235374.96	6.141	156	9.055	230		
	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

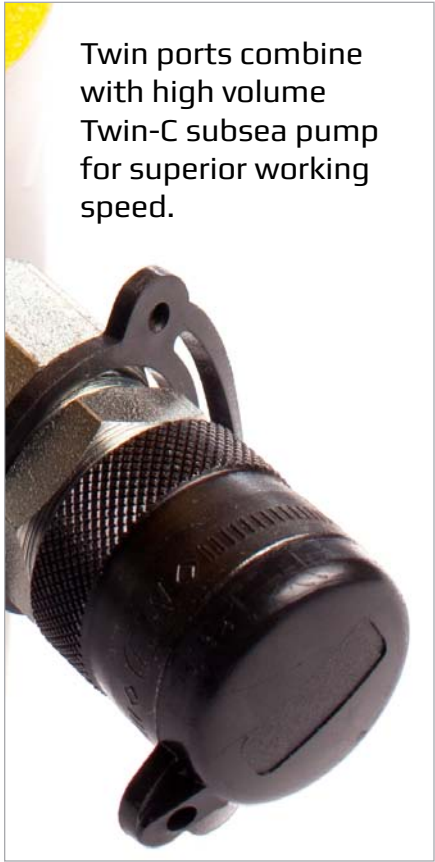
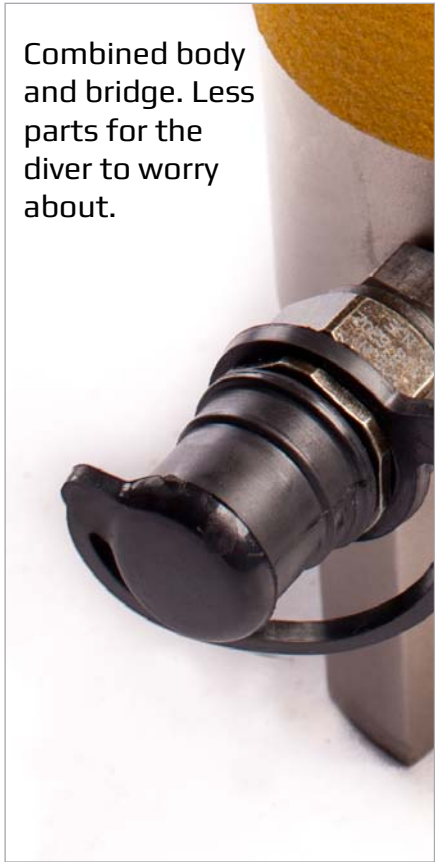
BOLT DIAMETER		MAX LOAD			TENSIONER DIAMETER		TENSIONER HEIGHT		TENSIONER STROKE	
imperial	metric	lbf	tonf	kN	in	mm	in	mm	in	mm
1	M24	65,192	29.10	290	3.35	85	3.86	98	0.31	8
1-1/8	M27	84,300	37.64	375	3.58	91	4.09	104		
1-1/8	M30	103,408	46.17	460	3.86	98	4.21	107		
1-1/4	M33	128,136	57.21	570	4.29	109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

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		
1-1/8	M30	103,858	46.37	462	2.83	72	7.91	201	0.31	8
1-1/4	M33	128,586	57.41	572	3.07	78	8.5	216		
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		
15/8	M42	206,928	92.38	920.5	3.86	98	10.31	262		
1-3/4	M45	243,234	108.59	1082	4.13	105	10.91	281.5		
1-7/8	M48	274,706	122.64	1222	4.37	111	11.56	293.5		
2	M52	326,410	145.72	1452	4.72	120	12.8	325		
2-1/4	M56	376,540	168.10	1675	5.04	128	12.99	330	0.47	12
2-1/2	M64	494,560	220.79	2200	5.83	148	14.23	361.5		





TRTS Subsea Series. Diver-friendly technology.



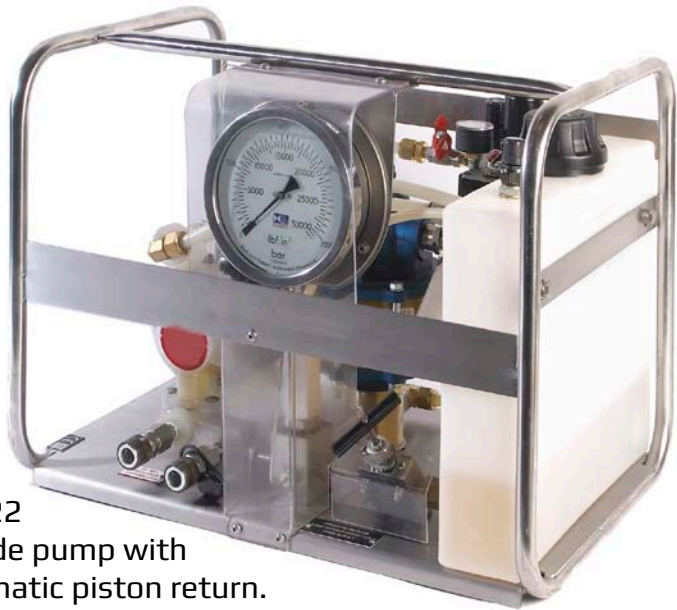
Pressures up to 21,750 psi/1500 bar
Any number of tools can be connected together for simultaneous operation
Single or twin hydraulic connections available
Custom thread forms available upon request

Model	Bolt Diameter		Max load			Tool OD		Height	
	inch	metric	kn	tonf	lbf	in	mm	in	mm
TRTS1	7/8"	M24	361	36.2	81088	3.54	90	6.73	171
	1"	M27							
	1-1/8"	M30							
	1-1/4"	M33							
TRTS2	1-3/8"	M36	544	54.6	122,304	4.29	109	7.04	179
	1-1/2"	M39							
	1-5/8"	M42							
TRTS3	1-3/4"	M45	812	81.5	182,560	5.11	130	7.79	198
	1-7/8"	M48							
	2"	M52							
TRTS4	2-1/4"	M56	1550	155.5	348,320	6.77	172	9.25	235
	2-1/2"	M64							
	2-3/4"	M72							
TRTS5	3"	M76	2562	2557	5,727,680	8.46	215	10.66	271
		M80							
	3-1/4"	M85							
	3-1/2"	M90							

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

Tensioning



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.

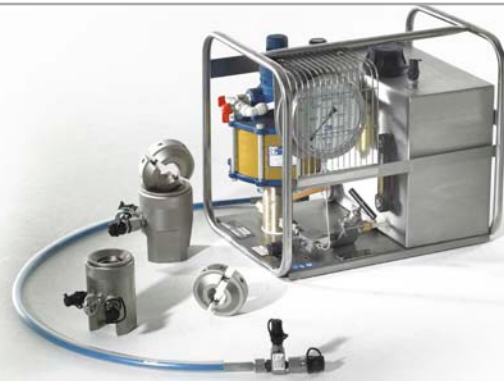
Twin-Light pumps



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.

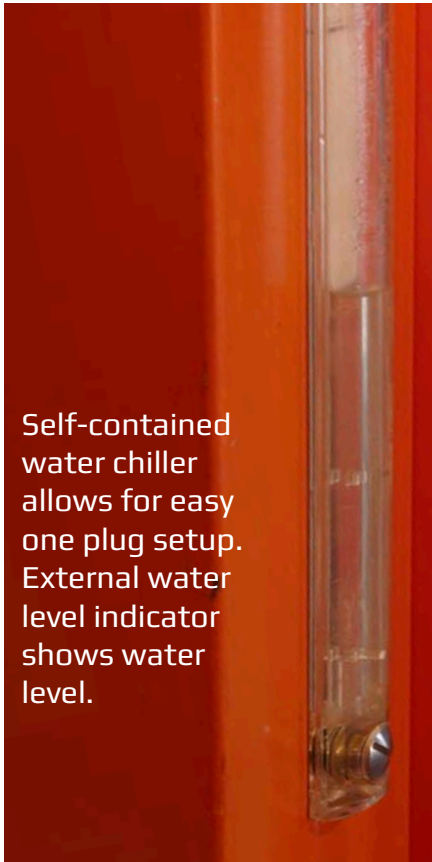


Rapid-Torc® can custom-design tensioners for your application!

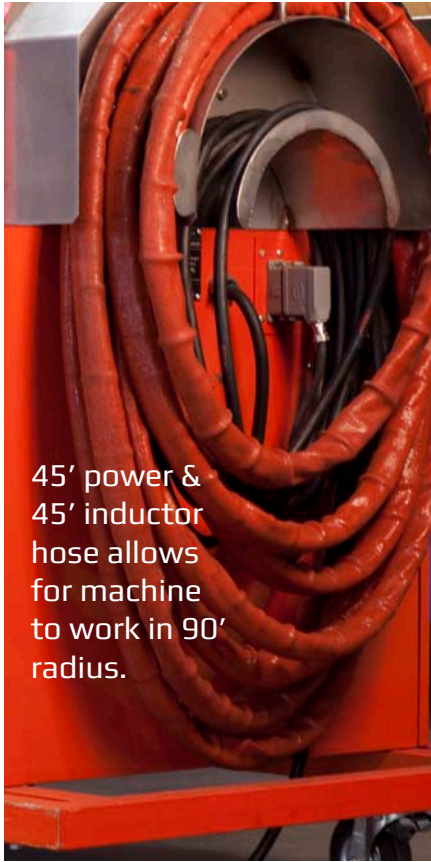
Tensioning



Drastically reduces downtime compared to other bolt heating methods.



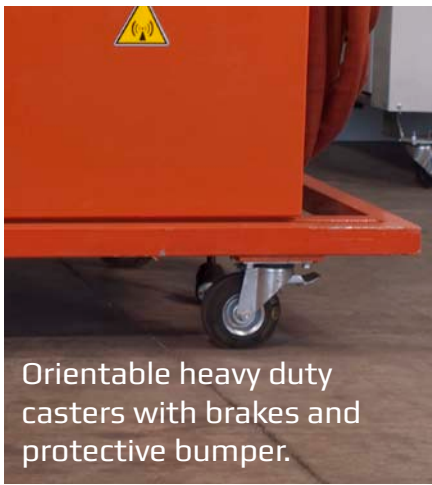
Self-contained water chiller allows for easy one plug setup. External water level indicator shows water level.



45' power & 45' inductor hose allows for machine to work in 90' radius.



Easy-to-use control panel.



Orientable heavy duty casters with brakes and protective bumper.

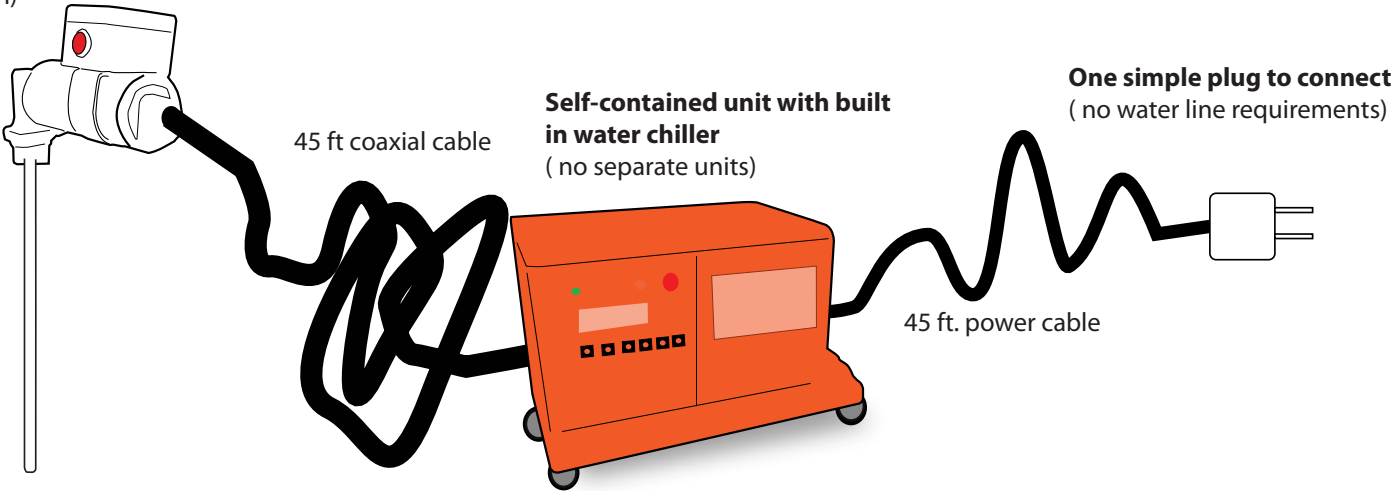


Compact, self-contained unit.

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 (water-cooled and has the smallest transformer available built-in)



Rapid-Torc® IBH does not generate heat, as the case with electric, gas and radiant heating technologies. It uses induction heating, causing 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 Speedorange technicians to have fast on-site installation and setup.

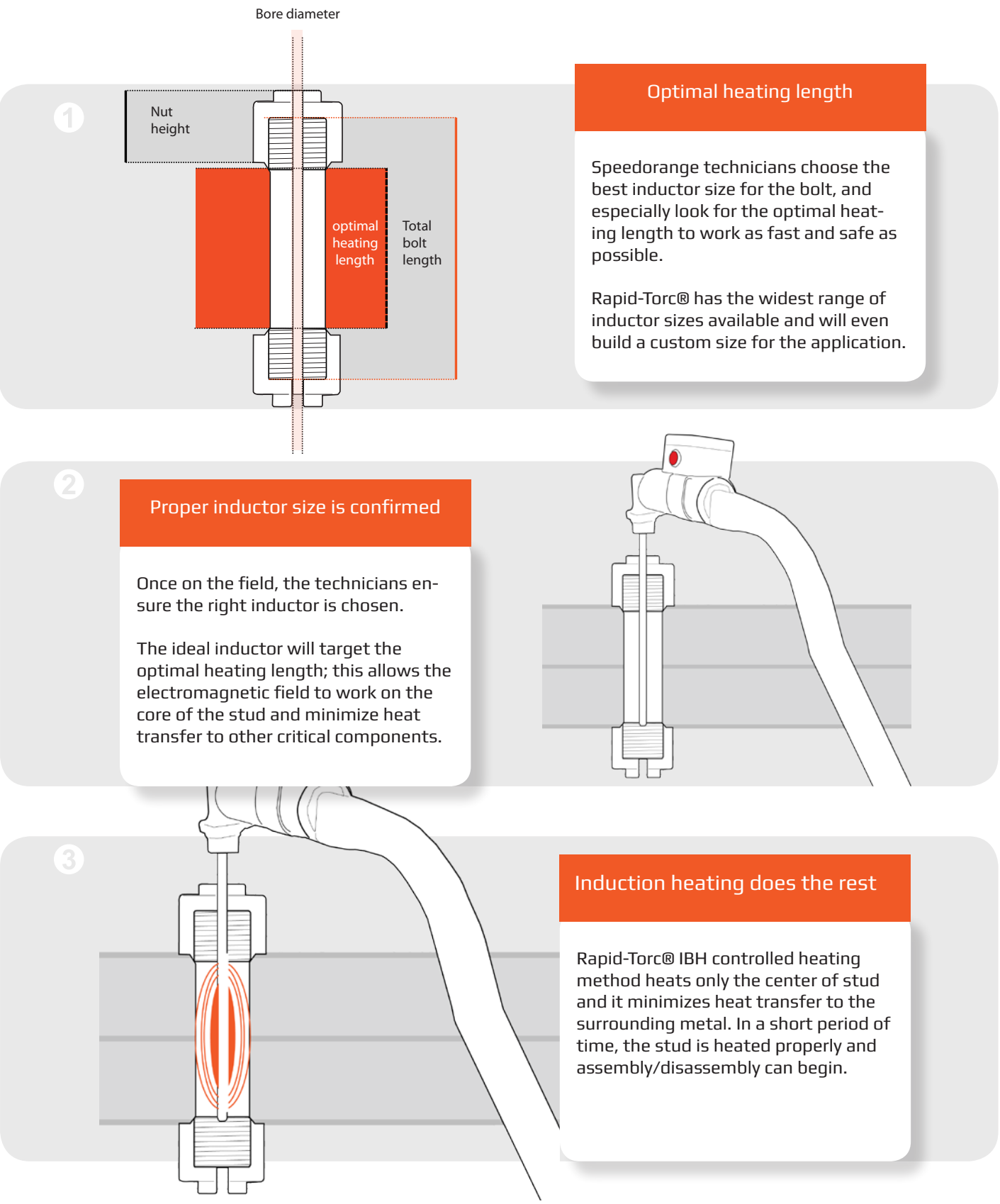
Water

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 Speedorange to start working.

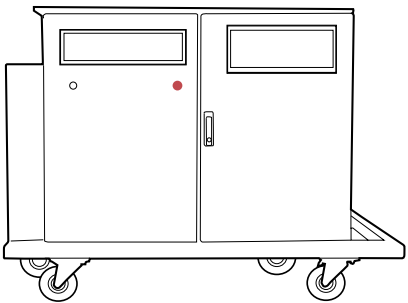
Friendly

Metallurgically friendly process. Speedorange 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.

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

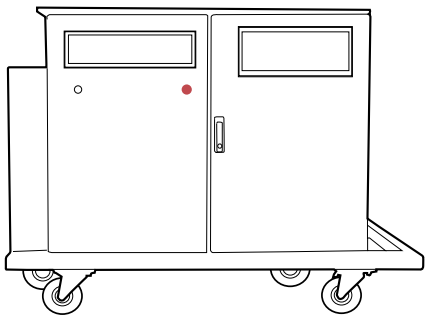


Due to popular demand, Rapid-Torc is now selling it's self contained units upon request. Choose your size.*



Speed12

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

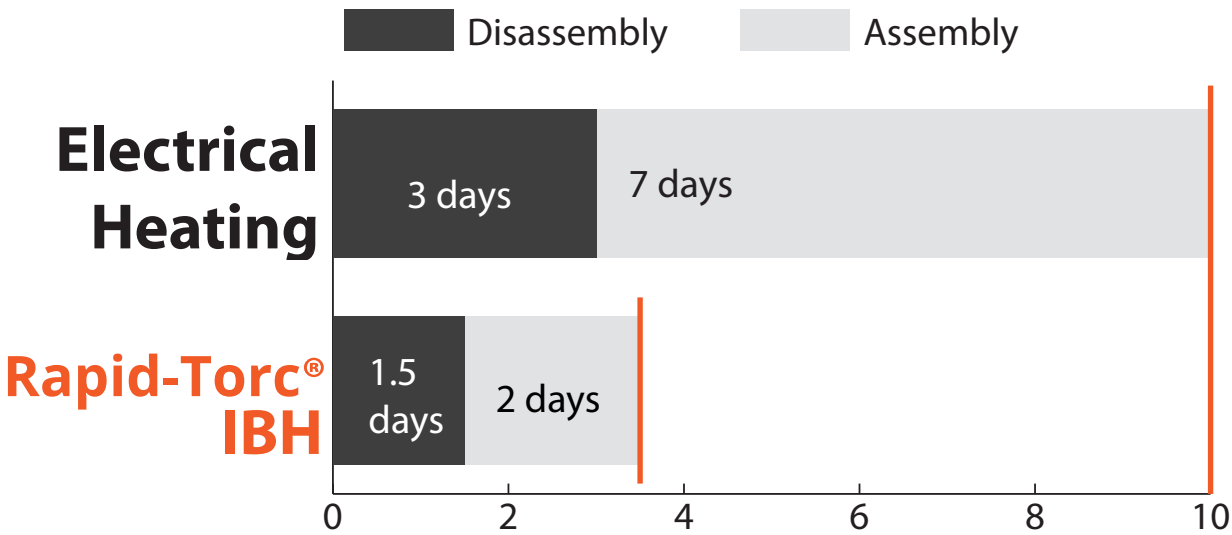


Speed50

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.

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

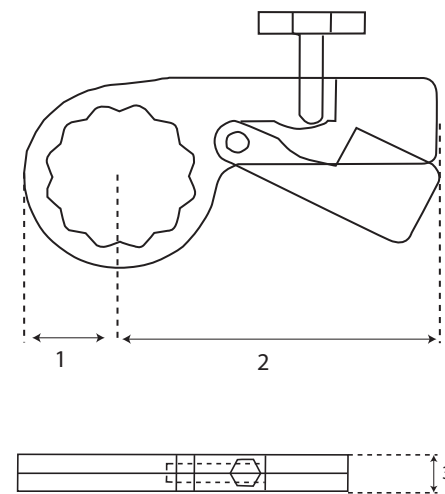


Rapid-Torc® Backup Wrenches



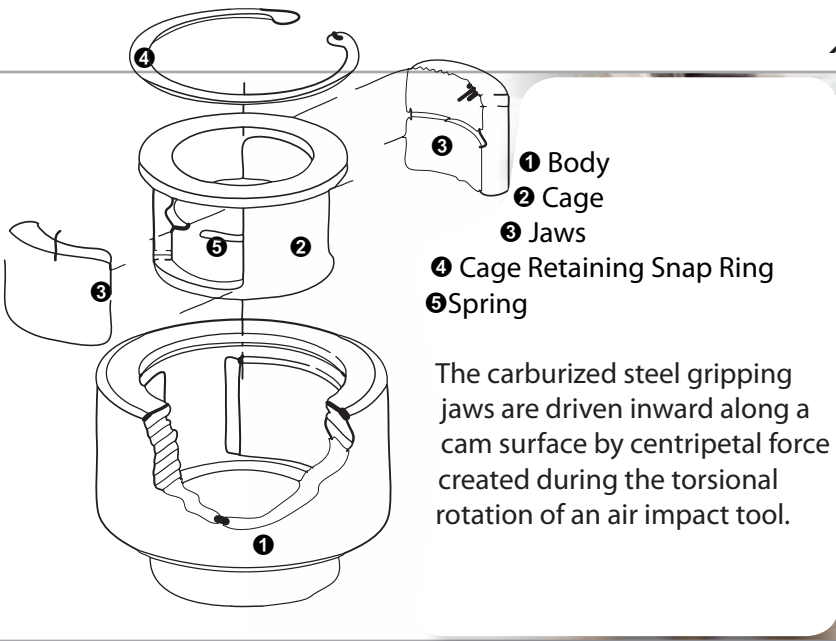
Rapid-Torc backup wrench works in conjunction with any of our bolting tools and prevents the nut from rotating.

Rapid-Torc® Backup wrenches are made of high strength steel and have minimal moving parts. This allows the product to last for years without any significant wear. Available in any nut size.



Part number	Hex Size	Dimensions (in inches)		
		1	2	3
BK14	7/8"	.95	4.68	½"
BK101	1 1/16"	.95	4.68	½"
BK104	1 ¼"	.95	4.68	½"
BK107	1 7/16"	1.13	5.25	¾"
BK110	1 5/8"	1.24	5.25	¾"
BK113	1 13/16"	1.35	5.25	¾"
BK200	2"	1.45	5.25	¾"
BK203	2 3/16"	1.56	5.25	¾"
BK206	2 3/8"	1.67	5.25	¾"
BK209	2 9/16"	1.88	7	1"
BK212	2 ¾"	1.99	7	1"
BK215	2 15/16"	2.19	7	1"
BK302	3 1/8"	2.20	7	1"
BK308	3 ½"	2.62	10.5	1 ½"
BK314	3 7/8"	2.84	10.5	1 ½"
BK401	4 1/16"	2.96	10.5	1 ½"
BK404	4 ¼"	3.05	10.5	1 ½"
BK410	4 5/8"	3.27	10.5	1 ½"
BK415	4 15/16"	3.54	12.2	2 ½"
BK-500	5"	3.69	14	2 ½"

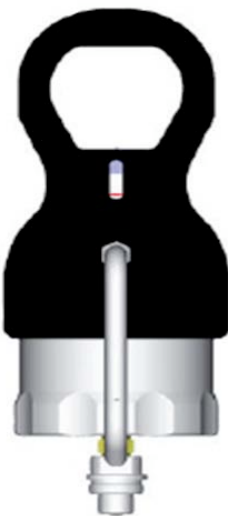
X-TRACT series Stud Extractors



X-TRACT series Stud extractors are a must-needed tool. The tool is driven by impact guns and are available up to 6" diameter.

X-TRACT series Stud extractors are in stock and available from 1/2" up to 6" stud sizes. When used with Rapid-Torc's powerful Pneumatic Impact guns, studs are removed in seconds.

NUTCRACKER series compact nutsplitter



Rapid-Torc stock includes nutsplitters for bolt diameters from 3/4" (M20) to 3-1/2" (M90) and everything in between.

- Fits BS1560/ANSI B16.5 Flanges
- Low maintenance
- Disposable cutting wedges
- Adjustable cutting depth
- Topside and subsea versions available

NUTCRACKER series nutsplitter breezes through frozen nuts. Use with Panther pumps equipped with manifold adapter.

NUTCRACKER series will cut through any nut. When ordering, be sure to add additional cutting wedges. Replacing the cutting wedges every few bolts allows the machine to breeze through any operation.



Hey, where are your services I need, like calibration, repair and renting and training?

Rapid-Torc, Inc. saw the need to separate the service aspect of the company to better focus on its core business, which is producing high quality products. In 2010, Speedorange Inc was created with the sole purpose of becoming the service company of choice for the energy industry. Speedorange inc. is the official service company for Rapid-Torc, Inc , concentrating on providing critical services (such as onsite bolting, renting and training). For more information or to schedule service, please visit www.speedorange.com.

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