



QTA Series

Torque Reaction Arms



 **LOUZAMPINI & ASSOCIATES**
Industrial Grade Air, Electric, and Automation Tools
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See and feel the difference of Ingersoll Rand

There's a lot riding on the quality of your assemblies, regardless of your manufacturing process. People are counting on you to get the work done right. That's why at Ingersoll Rand we're committed to providing the best-built, most reliable, and most accurate fastening technologies in the industry.

- DC electric fastening systems
- Screwdrivers
- Air nutrunners
- Pulse tools



For decades Ingersoll Rand has delivered proven engineering and expertise to manufacturers of all types worldwide. Through this experience, we've come to

firmly understand how the interface between tool and operator can impact productivity and assembly integrity.

Assembly tools typically produce an undesirable torque reaction that normally passes on to an operator's hand. Over time, this can cause or aggravate repetitive stress injuries anywhere from the fingers to the neck, resulting in reduced productivity and operator absenteeism.

To help mitigate these unwanted reaction forces, we offer an impressive line of ergonomic torque reaction arms that help operators work more safely and more comfortably, while maximizing efficiency, ensuring product quality, and minimizing downtime. Whether you're assembling vehicles, appliances, or anything in between, Ingersoll Rand QTA bench- and floor-mounted torque reaction arms set the standard for ergonomics, ease of use, and durability.

Bench-mounted torque arms



Ingersoll Rand QTA bench-mounted torque reaction arms are constructed of lightweight aluminum and are available in a variety of torque capacities, ranging from 10 to 150 Nm. They include an Ingersoll Rand spring-loaded, die-cast aluminum balancer for impressive strength and reduced weight.

Spring balancer adjusts easily and offers effortless vertical movement

Simple, proven design for trouble-free set-up and dependability

Anodized aluminum body delivers toughness in a lightweight design

Chrome plated pole paired with a self-lubricating bearing provides unmatched durability

Position arm at 90° angle for optimum torque reaction performance. Arm should not be used in fully-extended or fully-collapsed position as this reduces reaction capabilities.

Cable or air line clamps keeps work area clear and organized (clamps are included with all QTA arms)

Multiple tool holder options such as right angle, swivel, and pistol grip (standard inline tool holder included with QTA models up to 100 Nm capacity)

Adjustable reach for easy use and convenience when locating fasteners

Custom tool holder options enable seamless integration with Ingersoll Rand QA and QE tools

Model QTA020 shown

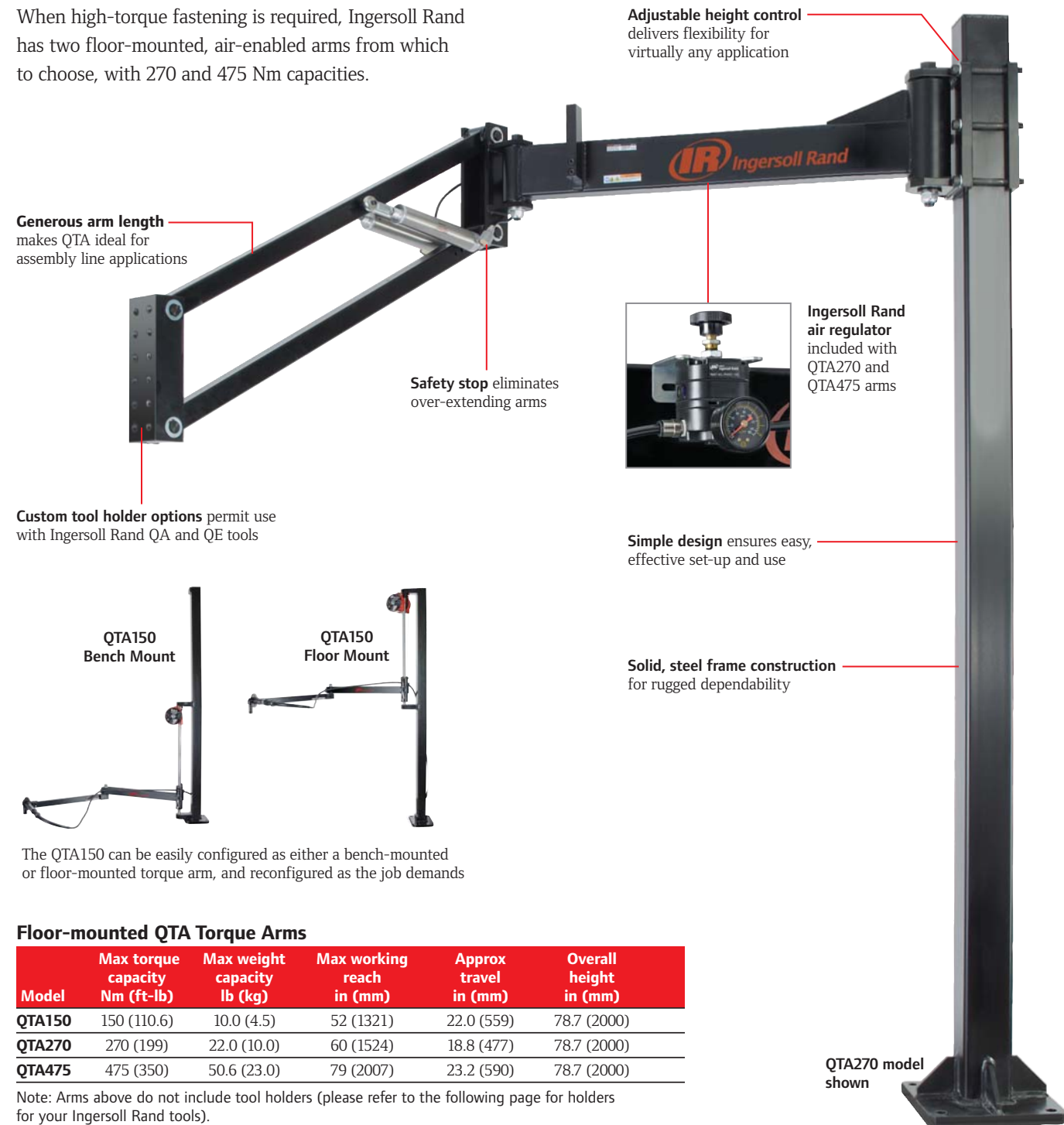
Bench-mounted QTA Torque Arms

Model	Max torque capacity Nm (ft-lb)	Max weight capacity lb (kg)	Max working reach in (mm)	Vertical travel in (mm)	Overall height in (mm)
QTA010	10 (7.4)	2.64 (1.20)	15 (381)	13.0 (330)	27.8 (706)
QTA020	20 (14.8)	5.00 (2.27)	20 (508)	14.5 (368)	31.8 (808)
QTA040	40 (29.5)	6.50 (2.95)	25 (635)	17.5 (445)	39.7 (1008)
QTA100	100 (73.8)	8.00 (3.63)	30 (762)	17.5 (445)	39.7 (1008)
QTA150	150 (110.6)	10.00 (4.54)	52 (1321)	22.0 (559)	78.7 (2000)

NOTE: QTA150 is adjustable to mount to the floor or a bench and does not include a tool holder.

Floor-mounted torque arms

When high-torque fastening is required, Ingersoll Rand has two floor-mounted, air-enabled arms from which to choose, with 270 and 475 Nm capacities.



Floor-mounted QTA Torque Arms

Model	Max torque capacity Nm (ft-lb)	Max weight capacity lb (kg)	Max working reach in (mm)	Approx travel in (mm)	Overall height in (mm)
QTA150	150 (110.6)	10.0 (4.5)	52 (1321)	22.0 (559)	78.7 (2000)
QTA270	270 (199)	22.0 (10.0)	60 (1524)	18.8 (477)	78.7 (2000)
QTA475	475 (350)	50.6 (23.0)	79 (2007)	23.2 (590)	78.7 (2000)

Note: Arms above do not include tool holders (please refer to the following page for holders for your Ingersoll Rand tools).

QTA tool holders

Ingersoll Rand offers a variety of customized tool holders to accompany our bench and floor-mounted torque reaction arms. Whether you're using one of our assembly tools or a competitive model, our tool holders ensure that the tool is secured correctly and safely for both the tool and the operator.

Torque Arm Tool Holders

Generic clamp-on, inline tool holders are provided with the QTA010, QTA020, QTA040, and QTA100 Torque Arms. Additional clamp-on style tool holder options are available for right angle and pistol tools; a 1/4" NPT threaded tool holder is available for low-torque inline air tools.

Ingersoll Rand tool holders are available for all torque arm models, and are recommended when using any Ingersoll Rand QE or QA tool. For proper tool holder selection, refer to specific part numbers provided in tables below.



Generic Clamp Style Tool Holders

TOOL HOLDER	TORQUE ARMS			
	QTA010	QTA020	QTA040	QTA100
Inline (included with arm)	ITC010-1C	ITC040-1C	ITC040-1C	ITC100-1C
Right Angle	ATC010-1C	ATC040-1C	ATC040-1C	ATC100-1C
Pistol	PTC010-1C	PTC040-1C	PTC040-1C	N/A
Rotating	RTC010-1C	RTC040-1C	RTC040-1C	N/A
1/4" NPT	NTC010-1T	N/A	N/A	N/A

Generic Tool holders are not available for arms 150 Nm and above
 Flange mounting is recommended for inline tools with torque capacity above 40 Nm
 Please note the tool diameter range for generic holders:
 QTA010: 25 – 40 mm (1" – 1.57")
 QTA020 / QTA040 / QTA100: 28 – 52 mm (1.1" – 2")

Ingersoll Rand QA Series and QE Series Tool Holders

TOOLS	TORQUE ARMS						
	QTA010	QTA020	QTA040	QTA100	QTA150	QTA270	QTA475
QE4 (non-push to start)	N/A	CTC040-K1B	CTC040-K1B	N/A	N/A	N/A	N/A
QE4 (push to start)	CTC040-K1P	CTC040-K1P	CTC040-K1P	N/A	N/A	N/A	N/A
QE6	N/A	CTC040-K2B	CTC040-K2B	CTC100-K2B	N/A	N/A	N/A
QE8 (using bolt-on flange GEM120-K48)	N/A	N/A	N/A	CTC100-K2B	CTC150-K2B	N/A	N/A
QE8 (using integrated flanged gearcase)	N/A	N/A	N/A	CTC100-K3B	CTC150-K3B	CTC270-K3B	N/A
QE8 (230 Nm inline)	N/A	N/A	N/A	N/A	N/A	CTC270-K4B	N/A
QE8 (400 Nm angle)	N/A	N/A	N/A	N/A	N/A	N/A	CTC475-K5B
QA4 (angle)	N/A	CTC040-K6B	CTC040-K6B	CTC100-K6B	N/A	N/A	N/A
QA4 (27 Nm max inline) & QA6	N/A	CTC040-K1B	CTC040-K1B	CTC100-K1B	N/A	N/A	N/A
QA4 (46 Nm inline)	N/A	N/A	N/A	CTC100-K2B	N/A	N/A	N/A
QA8 (150 Nm max angle, 55 Nm max inline)	N/A	N/A	CTC040-K1B	CTC100-K1B	CTC150-K2B	N/A	N/A
QA8 (above 150 Nm angle, above 55 Nm inline)	N/A	N/A	N/A	CTC100-K2B	CTC150-K3B	CTC270-K3B	N/A

Note: Every Ingersoll Rand QE- or QA-specific tool holder listed in the table above accepts both angle and inline tools but requires an integrated flanged gear case or bolt-on mounting flange to attach the tool holder to the tool. If your tool came with mounting style "P," "R," or "J," order Part No. 15E4-K48 for any Ingersoll Rand-specific tool holder that ends with "1B." Order Part No. GEM120-K48 for any Ingersoll Rand-specific tool holder that ends with "2B." Order Part No. QA4-K48 for any Ingersoll Rand-specific tool holder that ends with "6B."

Accessories

Optimize the ergonomics and performance of your assembly process with any of our genuine Ingersoll Rand accessories, including spring balancers, mounting kits, work stations, FRLs, and operator gloves. Please visit irtools.com for the complete line of Ingersoll Rand accessories.

QTA Torque Arm Accessories

Torque arm accessories include inverse mounting kits to provide mounting to overhead structure and upper pole clamps which help limit travel of the bearing and add support to the top of the arm. Use the table below to select the proper accessory for each torque arm.

ACCESSORIES	TORQUE ARMS			
	QTA010	QTA020	QTA040	QTA100
Inverse mounting kit	IMK010	IMK020	IMK100	IMK100
Upper pole clamp	PUC010	PUC020	PUC100	PUC100



Light Duty Work Stations

These steel-constructed, lightweight workstations offer the operator tool flexibility while supporting the tool weight. Add a torque absorber rod to help relieve minor torque reaction forces while fastening.



PART NUMBER	
IRBS3-E0	Basic station (no absorber)
IRBS3-N30	Air tool station with torque absorber
IRBS3-E30	Electric tool station with torque absorber

NOTE: Work stations do not include tool, spring balancer, air hose, or FRL. All must be purchased separately.

Balancers

With more than 50 models to choose from, there's an Ingersoll Rand balancer to satisfy virtually any balancing requirement. Each of our rugged models is built of die cast aluminum for strength and reduced weight. Most models also feature a locking device for increased operator safety.



Gloves

With work gloves from Ingersoll Rand, you can pair up the industry's toughest tools with gloves that offer the utmost in protection, comfort, and performance. Gloves are offered in packs of 10 each.

PART NUMBER	
IR-GL-1	Standard Black, Large
IR-GXL-1	Standard Black, Extra Large
TGSL-GL-1	Thunder Gun Series, Large
TGSL-GXL-1	Thunder Gun Series, Extra Large
TNT-GL-1	Titanium Series, Large
TNT-GXL-1	Titanium Series, Extra Large



Filters, Regulators, Lubricators (FRLs)

With Ingersoll Rand / ARO FRLs in your operation, you get a cost-effective solution to increasing the life of your pneumatic equipment. You can save space, time, and piping costs. Our FRLs also give you greater mounting flexibility and convenience.



The best equipment deserves the best service



At Ingersoll Rand, we know how important your equipment is to your livelihood. That's why for the past 100 years we've been setting the standard for not just powerful and durable products, but also for providing total solutions that help you get the job done right.

As tough as our equipment is, we also know that it needs to be maintained. When the time comes, let Ingersoll Rand meet your service and repair needs through our expansive Certified Service Network.

Each Certified Service provider has the specialized testing equipment, genuine parts, and skilled training to ensure you're back up and running at Original Equipment Manufacturer (OEM) specifications.

Global reach, local service

No matter where your facility is located, Ingersoll Rand is committed to serving you 24 hours a day, seven days a week. Our worldwide network of distributors, certified, factory-trained technicians, and engineers are a phone call away — ready to support you with innovative and cost-effective service solutions that will keep you running at peak performance.

(866) 284-5509

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Ingersoll Rand Industrial Technologies provides products, services and solutions that enhance our customers' energy efficiency, productivity and operations. Our diverse and innovative products range from complete compressed air systems, tools and pumps to material and fluid handling systems and environmentally friendly microturbines. We also enhance productivity through solutions created by Club Car®, the global leader in golf and utility vehicles for businesses and individuals.

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