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 solutions that will keep you running at peak performance.

Repairs done right. Service made simple.

irtools.com/tools/fastening





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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DC Electric Fastening Systems

Tools, Controllers, and Software



Distributed by:



Because every assembly is critical



You've got a critical job to do, and there are a lot of people counting on you to get it done right. At Ingersoll Rand, we know what's at stake, too. That's why we deliver the most innovative and reliable fastening systems in the industry.

Fastening applications involve more than simply selecting tools from a catalog. It's an intricate matter of linking users, applications, and systems to deliver an uncompromised combination of accuracy, durability, speed and ergonomics to maximize your line's productivity. The solution: Ingersoll Rand DC Electric Fastening Systems.

We understand that the ever increasing demand for higher quality, safer, and more environmentally friendly products at a competitive price means our customers need their processes to be best-in-class and cost effective. That is why our dedicated team of professionals design, test, manufacture, and support every component, assembly, and detail of our systems and services to deliver best-in-class, costeffective solutions for our customers. We do this because we know that we all have a lot riding on our efforts. Work with our team and learn how Ingersoll Rand delivers the complete solution to meet your requirements, including the after-sales service and support you should expect from a leader in the industry.

Trusted tools, proven experience

Ingersoll Rand has extensive experience with threaded fastening processes. For more than 100 years, we've worked with many of the world's leading manufacturers in various industries. We understand the interface between the tool and operator; we know how to leverage the power of ergonomically designed equipment to maximize productivity and inspire progress.

Ingersoll Rand fastening portfolio

Ingersoll Rand offers a full line of production fastening equipment, including air and electric screwdrivers, nutrunners, drills, riveters, pulse tools, as well as handheld and multispindle fixtured DC nutrunners. Whether you need a solution for a single, specific application or an entire assembly line, you can trust our century of tool design experience to meet your needs.





QE and QM Series

Delivering a full line of world-class tools — whether handheld or fixtured, Ingersoll Rand provides superior accuracy, ergonomics, and durability to meet your critical fastening requirements. Whether you are in the motor vehicle, aerospace, electronics, white goods, or general industries, we can help maximize your productivity.

Features

- Torque coverage from 0.3 to 2500 Nm
- \cdot Full closed-loop transducerized control delivers excellent capability
- Highly configurable platforms allow selection of the perfect tool for the application including inline, pistol, angle, offset, and motor configurations
- \cdot All models are compatible with both ICD and ICM Insight controllers and ICS software
- Excellent durability
- Compact, lightweight, and high-speed designs
- Easy to use interfaces allow the operator to focus on the job, not the tool including bright LED headlights and status indicator lights, low force actuation and reverse functions, and patented TactAlert that provides tactile feedback to the operator
- ESD-safe and RoHS-compliant model options
- Super durability cables keep life cycle costs low
- Comfortable, ergonomically contoured grips enhance operator comfort
- Complete line of accessories to maximize productivity



We design our tools with the end user and your bottom line in mind. Keeping the operator happy is one key factor in making your line run efficiently. But we don't stop there. Our featurerich line of tools provides best-in-class performance and cost-effective solutions to meet your critical fastening requirements.



All Ingersoll Rand tools are designed with durability in mind and are tested to the extreme to prove it. We drop, flex, torque, shock, and literally abuse the tools for millions of cycles to ensure that whatever the real world throws at them, our tools will perform to the same high standards as they do on day one.



All QE Series tools offer the performance and ergonomics operators love. Our commitment to the highest quality products means your operators will focus on the workpiece and forget about the tool.

Handheld tools

Inline Push-to-Stai

Pistol Grip

Angle

Inline

Inline Offset

Angle

		0 Nm	5	Nm
	Model			▼
	QE2TS			
	QE4TS			
_				
		0 Nm	20 Nm	40 N
	Model			▼
	QE2S			
	QE4S			
	QE6S			
	QE8S			
		0 Nm	5	Nm
	Model			▼
	QE2P			

Fixtured tools

QE4P.

Model	0 Nm ▼	20 Nm ▼	40 Nm ▼
QM SERIES			
QM3S			
QM5S			
QM7S			
QM9S			
QE SERIES			
QE2SC			
QE4SC			
QE6SC			
QE8SC			

Model	0 Nm ▼	50 Nm ▼	100 Nm ▼	
QM SERIES				
QM5ZS				
QM7ZS				
QM9ZS				
QE SERIES				
QE6ZC				
QE8ZC				

	0 Nm	50 Nm	100 Nm
Model	$\mathbf{\nabla}$	\mathbf{V}	$\mathbf{\nabla}$
QE2AC			
QE4AC			
QE6AC			
QE8AC			

Refer to Assembly Tool catalog, IRPS-1007-052, or irtools.com for a complete list of models and specifications.







OE2 Series

The ultimate world-class combination — QE2 Series tools and IC Series controllers team up to provide superior accuracy, ergonomics and durability to meet your critical fastening requirements. Full closed-loop transducerized control in a compact, lightweight package allows you to maximize your productivity on low-torque applications.

Features

- Torque coverage from 0.3 to 15 Nm
- Full closed-loop transducerized control delivers excellent capability and traceability
- Compact, lightweight, high-speed design
- Bright LED headlights illuminate work space
- Multicolored light ring shows cycle status
- Seamlessly runs on either ICD or ICM controllers
- Highly configurable platform allows users to select output torque, body style, actuation and spindle type to create the perfect tool for the application
- ESD-safe and RoHS-compliant
- High durability cable
- Comfortable, ergonomically contoured grip
- · Easy-to-use push-button reverse and indicator light









ESD-safe design helps protect sensitive electronics

Bright multicolored light ring provides highly visible status signal

Super bright LED headlights illuminate workpiece

Compact, lightweight, high-speed designs with easily accessible controls

Brilliant blue reverse indicator light signals mode to operator

Ideally positioned pushbutton reverse allows easy, one-handed control

Ergonomically contoured grips enhance operator comfort

Sculpted hand rest helps reduce operator fatigue and slipping

Available with trigger, lever, push-to-start, trigger/lever permit, and remote start actuation options

TactAlert provides positive tactile operator feedback without distraction from the task at hand

High temperature motor protection

QE4/6/8 Series

QE4 / 6 / 8 Series handheld and fixtured tools take productivity, ergonomics, and reliability to new levels. With angle, inline, pistol, push-to-start, and offset configurations, three motor platforms, and torque coverage to 400 Nm, the QE Series tools are engineered for enhanced productivity with impressive features. When matched with an ICD or ICM controller and ICS software, the QE Series will take your operations to the next level.

Features

- Torque coverage from 1 to 400 Nm
- Full closed-loop transducerized control delivers excellent capability and traceability
- Seamlessly runs on either ICD or ICM controllers
- Compact, high-speed, easily accessible controls
- Easy-to-use reverse ring
- Comfortable ergonomic grips
- Bright LEDs provide visible status indicators
- Highly configurable platform allows users to select output torque, body style, and spindle type to create the perfect tool for the application
- An onboard sensor monitors the motor temperature and protects the unit from excessive heat
- Advanced tightening strategies
- Preventive maintenance alerts





QE Series DC electric nutrunners

QE	4 A	Т	013	P A2 S04	1
		7	5		
Series Motor	Body To	ol	Maxim	um Mounting Output	Drive
	Style Activ	ation	Torque (Nm)	
↓ ↓			,		1
	OF4	OF6	OF8	Angle	004 = 1/4" Ouick
QE 4		Angle	Angle	A2 = Size 2 Anglehead	Change
0	013	030	065	A4 = Size 4 Anglehead	H04 = 1/4'' Internal
•	020	040	070	A5 = Size 5 Anglehead	Hex
¥	027	055	090	A6 = Size 6 Anglehead	S04 = 1/4" Square
A = Angle	034	080	115	A7 = Size 7 Anglehead	S06 = 3/8" Square
S = Inline			150	A8 = Size 8 Anglehead	S08 = 1/2" Square
T = Inline			225	Inling / Pictol	S12 = 3/4" Square
(Push to Start)			400	10 - Pictol Solid	
Z = Offset	Inline	Inline	Inline	11 - Puch to Start Trigg	or Pormit
M = Motor	010	020	055	20 = 50 mm Spindle no	float
P = Pistoi	015	028	070	21 = 50 mm Spindle 19	mm float
+	020	033	090	41 = 100 mm Spindle, 19) mm float
T = Trigger	025	050	150	61 = 150 mm Spindle, 38	3 mm float
L = Lever			230	81 = 200 mm Spindle, 38	8 mm float
E = Extended Lever			62 = 150 mm Spindle, 50) mm float	
P = Trigger + Push P = Standard Gearcase		earcase	82 = 200 mm Spindle, 50) mm float	
S = Push to Start	F = Flan	ged Gea	ircase	02 = 250 mm Spindle, 50) mm float
C = Remote Start	R = Rea	ction Ba	r	22 = 300 mm Spindle, 50) mm float
	B = Bolt	on Flan	ige, 1pc.		
	J = Bolt	on Flan	ge, 2pc.		



QM Series

QM Series tools are the workhorse of your multispindle application. With four platforms that provide broad torque and speed coverage, Ingersoll Rand QM spindles deliver at the highest levels of performance, durability, and reliability in the industry. The QM3, QM5, QM7, and QM9 platforms are so durable, in fact, that we stopped testing them after three million fault-free cycles.

Features

- Torque coverage from 0.8 to 2500 Nm
- Full closed-loop transducerized control delivers better than five percent capability across all four motor platforms
- Highly durable with little preventive maintenance required
- Seamlessly runs on either ICD or ICM controllers
- Flexible mounting options include front-mounting or sandwich-mounting for any unit
- External electronics pod simplifies mounting and connectivity
- Highly configurable platform allows users to select output torque, body style, and spindle type to create the perfect tool for the application
- An onboard sensor monitors the motor temperature and protects the unit from excessive heat
- \cdot Easy to service no special tools required











Controllers

Insight IC Series controllers are powerfully precise, fully programmable, and can be seamlessly integrated with any QE or QM Series tools to deliver real performance advantages. We pack extensive torque and angle control, as well as process management capabilities into a small package. Standard features like Ethernet and I/O connections on every unit mean no hidden charges for maximizing communication to your network and there's no need for expensive hardware keys or back-up units.

IC1M controllers

The IC1M Insight controller is a basic single line display controller that works with all Ingersoll Rand QE and QM DC electric tools and can be either rack- or cabinet-mounted as a single unit or in groups of up to 40 units for multiple-spindle systems.





Expand the capabilities of

Controllers

Insight IC1D isplay and IC1M odule

Measurement torque: Accuracy	±0.2% of torque full scale ±1 count of angle (degrees)
Measurement resolution	±0.025% of torque full scale
Torque transducer bridge excitation	±5V DC/GND
Torque transducer zero offset / drift compensation	±0.4% of full scale
Input signal sensitivity	2.0 mV/V
Calibration	Values read from spindle memory Automatic digital correction
Frequency response (torque filter)	Selectable 75 Hz, 150 Hz, 350 Hz, 500 Hz, 750 Hz
Keypad (IC-D only)	Membrane keypad containing 4 hot keys, 4 function keys, numerical keypad and directional keypad
Display	IC-D: 3.5-inch diagonal, 320 px by 240 px, 8-bit 65K backlit color (QVGA) flat panel display IC-M: 5-character, 7-segment numerical LED display
Parameter sets	256
Number of cycles stored in memory	IC-D: 1,000 IC-M: 200
Communication	Serial RS232, Ethernet, optional PROFIBUS, DeviceNet, Interbus-S, EtherNet / IP, Modbus - TCP
1/0	8 inputs / 8 outputs, with behavior assignable through ISC software: with optional I/O card, an additional 16 inputs and outputs are available
Indicators	Power ON lamp
Input voltage	Single-phase 120 volts, 50/60 Hz, 16 amps Single-phase 230 volts, 50/60 Hz, 8 amps
Ambient operating conditions	0 – 50° C, 20/90% non-condensing humidity
Enclosure	IP-52
System weight	5.6 kg (12.4 lb)
Dimensions (mm)	152 h x 191 w x 23 d

All QE and QM Series tools run on every single controller. Programming is quick and easy and can either be done on-screen (with the ICD), from a computer with ICS Connect, or with the controller transfer key. Having all these features means you'll spend less time on set-up and more time assembling product.

Software

ICS software suite

Paired with an Insight IC1D or IC1M controller and a computer, our groundbreaking ICS software suite makes it possible to more precisely control and monitor your fastening process. Optimizing your system is as simple as selecting one of four packages.

Features

- Four software packages allow you to select the best fit for your requirements
- Compatible with all tools, no exceptions
- Connect, manage, view and program controllers remotely over local area network
- Advanced tightening strategies, including yield control and prevailing torque, improve joint quality
- Generate detailed statistical charts and graphs
- Program and view preventive maintenance alarms, cycle and event logs
- Allows remote monitoring, data collection and data archiving
- View and overlay tightening curves
- · Available in Chinese, English, French, German, Italian and Spanish





Advanced Tightening Strategies
Torque control
Torque control with angle monitoring
Torque control with yield override
Angle control
Angle control with torque monitoring
Angle control with yield override
Yield control
Prevailing torque
Drag torque
Backout
Fault backout
Final fault backout
Retorque
Wait
Jog
Bypass

Custom software

Engineered to your unique specifications

Ingersoll Rand also develops custom software to meet the specific needs of our customers. Whether you need to link data from our controllers into your factory control system, download to a special database or need another customized software solution, our experienced team of software engineers and project managers have the capabilities to get the job done. Our installed base of custom software, running at facilities across the globe, handle local requirements for process line control, quality analysis, data archiving, special printing and many other unique needs.

Software

ICS Connect

ICS Connect provides operators the ability to access and program basic fastening strategies, as well as view cycle data with a single IC1D or IC1M controller via a one-to-one Ethernet connection. ICS Connect is supplied standard with all IC1D and IC1M controllers.

Features

- Enables access to and basic programming of all 256 configurations on IC1D and IC1M controllers
- Provides the primary means of programming an IC1M controller
- Provides quick functionality setup for single-step torque and angle strategies on the IC1D and IC1M controllers
- \cdot Captures cycle log, event log, and statistical data
- Enables runtime viewing of fastening data with live screen updating



ICS MultiSync

ICS MultiSync facilitates setup and control of multiple spindle systems consisting of up to 100 spindles in groups of up to 40 spindles. This versatile package offers advanced multiple-spindle fastening strategies such as fault back-out, as well as remote monitoring and data archiving.



ICS Network

ICS Network enables programming of multiple IC1D and IC1M controllers connected through a local area network (LAN) or direct connection. This option also allows operators to program advanced fastening strategies including yield and prevailing torque control.

Features

- Allows operators to connect, manage, view, and program up to 500 IC1D or IC1M controllers (depending on license) through a local area network
- Enables programming of advanced multistep tightening strategies including drag torque and prevailing torque on IC1D and IC1M controllers
- Activates the innovative TactAlert capability of QE Series tools
- $\boldsymbol{\cdot}$ Generates detailed statistical charts and graphs
- $\boldsymbol{\cdot}$ Enables viewing of a single tightening curve
- \cdot Programs preventive maintenance (PM) alarms
- Enables "stats alarms" function
- Provides bar code and field bus interfaces



ICS Enterprise

ICS Enterprise offers advanced programming and management of a network of up to 500 IC1D and IC1M controllers using QE, QM, and multiple-spindle systems. This package includes all elements of ICS MultiSync and SQL Server database archiving, searching, and statistics processing.



Features

- Programs all regular and powerhead tightening strategies within IC1D and IC1M controllers
- Enables programming and synchronization of up to 100 connected QE Series tools or QM Series spindles
- Enables advanced multispindle strategies such as back-out, fault back-out, final fault back-out, and torque recovery
- Programs and synchronizes spindles to function without software intervention
- Archives tightening data to an internal data table when running in stand-alone powerhead mode
- Collects and supplies data as required when used with ICS Enterprise
- · Archives data for all spindles connected

Features

- Provides all of the functionality of ICS Connect, ICS Network, and ICS MultiSync
- Offers advanced programming and network management of up to 500 IC1D or IC1M controllers with QE Series tools, QM Series spindles, or multispindle systems (depending on license)
- Enables output of data to SQL Server database to archive cycle data, curves, parameter settings, diagnostics, event logs, and statistics
- Schedules regular archiving based on time or number of cycles
- Enables data sorting, searching, and reporting by shift, tool ID, VIN, and more
- Provides 10-curve, on-screen tightening curve overlay

Quick multiples

Modular designs, flexible solutions

Ouick multiples consist of pre-engineered modular component designs that allow quick quoting, manufacture, and delivery of more common fixtured fastening solutions for up to six spindles. Depending on the application, vertical, horizontal, or rotating horizontal systems can be assembled with easily customized handles, displays, fixtures, and integrated handling devices for optimal operator ergonomics and performance.

Modular design provides for easy customization of open- or closed-frame fixtures in vertical, horizontal, or rotating horizontal configurations

Mounts are available in several options that adjust to give operators the most ergonomic position, visibility, and control possible

Handle module provides multiple switch options based on the application

VERTICAL AND HORIZONTAL FIXTURE

Interface module

The **Interface's** modular design provides for easy customization to meet your needs. The module comes standard with a configurable LED display to match your bolt pattern, an E-Stop switch, label kit, and enclosure assembly, and can be customized with any four of the six additional display and control options to suit your application.



Customizable interface provides the control and feedback you desire. Standard LED display shows individual spindle and master OK / NOK signals.

Modular design offers flexibility for easy customization, rapid quotes, and lead-times.

World-class tools deliver accuracy and durability to maximize your line's productivity.

> • QM and QE Series • QA4 / 6 / 8 Series

ROTATING HORIZONTAL FIXTURE

Handle module

The **Handle's** modular design provides the flexibility to order exactly what you need for your job. Whether you need to outfit your fixture with trigger or slide-electronic switching, pneumatic control, or only a dead handle, we offer the solution to fit your application.

Actuation options include:

- Trigger, slide switch, or both
- Pneumatic
- Dead handle (none)

Slide switch can be configured as momentary or detent style.

Ball, flange, or direct mounting options allow optimal handle orientation with the operator.

Custom multiples

Engineered to your unique specifications

Custom engineered fixtured fastening systems are available for more complex jobs with requirements such as adjustable bolt centers, more than six spindles, specialized clamping, indexing, custom fixture design, and automation. Ingersoll Rand's worldwide network of solution centers can serve your "Rail-to-Floor" project requirements from start to finish. Our full-range offering starts with joint analysis and process audits, and spans system design, project management,

installation, and after-sales support.

	- Cable tray provides secure cables safe and out of the w	routing path, which keeps vay, and reduces sharp bends.
	-Multiple suspension and	torque reaction options:
	 Balancers Torque tubes Articulating arms 	Custom devicesJib cranesPneumatic suspension
· · · ·	 Heavy-duty bearing deliv and adjustable stops for up provides for an ideal cable 	ers smooth rotation o to six spindles and exit.
	- Circular handle allows rap positioning of sockets on b	id olts.
	- Mounting plates can be q machined to the exact job	uickly and easily specifications.



20 possible configurations deliver the exact combination needed.

Ergonomic grip provides both comfort and durability.

Trigger and slide switch can be aligned (shown left) or rotated 90 degrees based on desired hand positioning.



QTA torque arms

Ingersoll Rand offers an impressive line of ergonomic torque reaction arms that help operators work more safely and comfortably while maximizing efficiency, to ensure product quality and minimize downtime. See the full QTA torque arm brochure (IRPS-0907-044) for a complete listing of torque arm products and specifications.



Global support Productivity beyond product

When you work with Ingersoll Rand, you get Productivity Beyond Product. Our experts know assembly environments inside and out, and we have the sales, engineering, and service teams in place around the world to deliver a local solution tailored to your unique operational needs.

Our 360-degree approach to maximizing your productivity includes world-class auditing, products, integration, and service in all areas of the assembly process. It's an integrated approach that will not only meet your needs, but exceed your expectations.

Audits

Ingersoll Rand consultants can spend time with you, observing and auditing the layout, ergonomic design, and productivity of your assembly process. Our service and sales teams are uniquely qualified to assess your individual applications and recommend solutions that make sense for you You can also take advantage of our best-in-class joint consulting capabilities by sending your components and fasteners to one of our application labs. We'll recommend a fastening strategy that gives you the clamp load you need and the quality your customers demand

Application testing

Systems capability study

Ergonomic audit

Russia Ingersoll Rand Company

Pavlovo ul. Chapaeva, 43 Telephone : 7 83171 61486

France Ingersoll Rand Company 70, rue Jacquard 77400 Lagny sur Marne, France Telephone: +33 1 64 76 00 00

North America

Indersoll Rand Company 1872 Enterprise Drive Rochester Hills, MI 48309, USA Telephone: (248) 293-5700

Mexico

Ingersoll Rand Company Boulevard Centro Industrial No. 11 Industrial Puente de Vigas 54070 Tlalnenantla México Telephone: +52 (55) 8503 6600

Innovative products are the core of our integrated "rail-to-floor" approach. From world-class DC electric fastening tools, controllers, and software to ergonomic handling systems, our product portfolio spans the full fastening continuum to provide you with the best technology for your application. Add calibration equipment and choose from our full line of accessories including user interfaces, cabinets, cables, selector switches, and sockets to complete your system design.

World-class tools World-class controllers

Products

- World-class software
- World-class ergonomic handling

20

Integration

Our extensive knowledge of systems integration makes connecting your new equipment to your existing facilities a seamless process. The Ingersoll Rand service team has years of experience in program management, custom networking and software, PLC programming, and line integration exactly the combination you need to get up and running.

- Installation support
- Acceptance testing
- System commissioning
- Networking and programming

Financing

India

Ingersoll Rand Industrial Products Pvt. Ltd. 37-A, Site-4, Sahibabad Industrial Area Ghaziabad-201010, India Telephone: +91 (0)120-2895116

Nizhegorodskaya Oblast, 606130, Russia

Service

Want to minimize downtime? No problem. Ingersoll Rand provides unmatched customer service, and a variety of services to keep you running at your peak productivity - from installation and training to preventive maintenance, calibration, and repairs

- Operator and skilled trades training
- Calibration and repair
- Preventive maintenance contracts
- Refurbishment programs
- Global network coverage

China

Ingersoll Rand Company 335 Lv Chun Road Minhang Industrial Zone Shanghai 200245, P.R.C. Telephone: 86-21-6463 8018

Accessories and literature

Controller accessories

Part Number	Description	
IC-PALM-RESET	Palm button reset station	
IC-ESTOP	Emergency stop button	
IC-LIGHT-TOWER	Light tower	
3002007	Wall mounting bracket for IC1D/M	
3002010	Cabinet mounting bracket for IC1D/M	
IC-SELECT-2	2-position remote selector switch	
IC-SELECT-4	4-position remote selector switch	
IC-SELECT-6	6-position remote selector switch	
PC80150113	Controller transfer key	

Angle head boots

	A2 & A3	A4	A5	A6	A7	
Standard	GEA40-171	GEA40-172	GEA40-172	GEA40-173	GEA40-173	
Extended	GAA2-170	GAA4-170	GAA5-170	GAA6-170	GAA7-170	

Lever kits

Part Number	Description
GEA40-K98SL	Short lever kit
GEA40-K98EL	Extended lever kit

Hanging and mounting accessories

Part Number	Description	For Use With
GEA15-K364	Swivel hanger kit	QE4
GEA40-K364	Swivel hanger kit	QE6 & QE8
CPS2-A365	Angle tool hanger	QE2 Series
7L-365	Suspension bail	All QE Series
CPS2-48	Pistol reaction Bar	QE2 Series
GEA15-K48	Reaction bar kit	QE4, QA4 inline up to 27 Nm
GEPTS15-K48	Reaction bar kit	QE4TS
DEA120-K48	Reaction bar kit	QE6 & QE8, QA4 inline 46 Nm
15E4-K48	Flanged mounting kit	QE4, QA4 / QA8 inline up to 55 Nm, angle up to 55 Nm
GEM120-K48	Flanged mounting kit	QE6 & QE8 , QA6 / QA8 inline 70 / 90 Nm, angle 115 / 150 Nm
GEA4-K48	Mounting plate kit	QE4 , QA6 / QA8 inline up to 55 Nm, angle up to 90 Nm
DAM120-K48	Mounting plate kit	QE6 & QE8 , QA6 / QA8 inline 70 / 90 Nm, angle 115 / 150 Nm
SBB4-QE2	Bio brace	QE2 Series

Bit and socket trays and accessories

Part Number	Description
IC-BIT-8	8-position bit tray
IC-SOCKET-4	4-position socket tray
IC-SOCKET-8 8-position socket tray	
IC-10PIN-6M	6 m cable for 4-position tray
IC-10PIN-10M	10 m cable for 4-position tray
IC-19PIN-5M	5 m cable for 8-position tray
IC-19PIN-10M	10 m cable for 8-position tray
GEA15-38KIT-5	3/8" socket pin kit
GEA40-12KIT-5	1/2" socket pin kit
IRPS-0506-016	Impact socket brochure







Emergency stop

Light tower



Lever kit

Mounting plate kit



Flange mounting kit



Swivel hanger kit







Impact sockets



Handle Module Extension Cable	es (2 m)	(4 m)
Handle extension cordset	QMMC-46-2M	QMMC-46-4M
Interface Module Cables		
Interface extension cable (10 m)		
Interface extension cable (20 m)		
Powerhead cable (2 m)		
DC Tool Cables	(3 m)	(6 m)
Tool cable (QE2)	GPS2-CORD-3M	GPS2-CORD-6M
90° tool cable (QE2)	—	GPS2-CORD-6M-90
Tool cable (QM, QE4/6/8)	GEA40-CORD-3M	GEA40-CORD-6M
90° tool cable (QM, QE4/6/8)	GEA40-CORD-3M-90	GEA40-CORD-6M-90
DC Tool Extension Cables	(10 m)	(20 m)
Extension cable	GEA40-EXT-10M	GEA40-EXT-20M
	(50")	(60'')
90° extension cable	GEA40-INT-01	GEA40-INT-02
	(80'')	(90")
90° extension cable	GEA40-INT-04	GEA40-INT-05
	(110")	(120'')
90° extension cable	GEA40-INT-07	GEA40-INT-08

Calibration equipment

EXPERT TO	DRQUE WREN	юн			
			Ŵ	→	
			ft-lb (Nm)	in	
ETW-E25			18 (25)	1/4" 🗖	
ETW-E75			40 (55)	3/8" 🗖	
ETW-E180			133 (180)	1/2"	
ROTARY T	RANSDUCER	S			
	"Sn	nart"			
Industry Standard*	Trans	ducers Torque & Angle	in-lh (Nm)	in	
TR2H4	Torque		10 - 18(010 - 2)	1/4"	
TR5H4	TRD5H4	TRDA5H4	2.2 = 44(0.25 = 5)	1/4"	
TD20U4			2.2 - 44(0.23 - 3)	1/4"	
TD2004	TRD20114	TRDA20114	9.0 - 180 (1 - 20)		
TR2054	TRD2054	TRDA2034	9.0 - 160 (1 - 20)		
IR/586	IRD/556	IRDA/556	2.8 - 55 (3.8 - 75)	3/8"	
TR180S8	TRD180S8	TRDA180S8	6.7 – 133 (9 – 180)	1/2"	
TR250S12	-	-	9.2 - 185 (12.5 - 250)	3/4" 🔄	
TR500S12	TRD500S12	TRDA500S12	18.5 – 370 (25 – 500)	3/4" 🗖	
STATIONARY TRANSDUCERS					
Stationary	"Sn	nart" sducers	ft-lb (Nm)	in	
T\$30\$4	TST	12854	11 - 22(15 - 30)	1 ///"	
TS15054		12556	5.5 110 (7.5 150)	2 /0"	
TS20050	TSD27058		3.3 - 110(7.3 - 130)	1/2"	
1330030	1302/030		11 - 221 (13 - 300)		
TS1000S12 TSD1000S12			37 - 738 (50 - 1000)	3/4" 🗖	
*Industry-standard transducers require ETA2-TC cable.					
Literature					

	Catalog Name	lame Form Number		Catalog Name	Form Number	
	QA4/6/8 air tools	IRPS-1007-053	Torque arms		IRPS-0907-044	
	Impact screwdriver	IRITS-1107-044		Pulse tools	SW041107	
	Audit wrench	ASM-1106-128 Fixtured faste IRPS-1007-052 Cordless tools		Fixtured fastening	IRITS-1107-043	
	Assembly tools			Cordless tools	VSS-0806-060	
Feed drill		52475-AT-C	52475-AT-C Ergonomic handling		MHD55226	
To order Ingersoll Rand literature please e-mail: irlitorders@kencook.com						



(6 m)
QMMC-46-6M
QMMC-A240-10
QMMC-A240-20
QMMC-A240-2
(10 m)
GPS2-CORD-10M
_
GEA40-CORD-10M
GEA40-CORD-10M-90
(40 m)
GEA40-EXT-40M
(70")
GEA40-INT-03
(100")
GEA40-INT-06
(130")
GEA40-INT-08



Suspension and reaction devices

TORQUE TUBES		See literature listed below for more details				
Model	Description	Lift Capacity @100 psi lb (kg)	Torque Capacity lb (kg)	Vertical Travel in (mm)	Weight lb (kg)	
54044227	IRZ-TT-100	60 (27)	74 (100)	20 (508)	40 (18)	
54041819	IRZ-TT-250	60 (27)	184 (250)	24 (610)	50 (23)	
54044417	IRZ-TT-500	400 (182)	368 (500)	36 (914)	75 (75)	
BALANCERS		See li	See literature listed below for more details			
			Vertic	al		
Model	Туре	Lift Capacity lb (kg)	Trave in (m	el 1)	Weight lb (kg)	
BLD Series	Spring	0.9-6.6 (0.4-3.3)	5.2 (1.	6) 1.3	3-1.5 (0.6-0.7)	
BMD Series	Spring	2.2-22 (1-10)	6.5-8.2 (2	2-2.5) 4	.4-8.8 (2-4)	
BHD Series	Spring	22-143 (10-65)	6.5 (2.	0) 23	3-30 (10-14)	
BSD Series	Spring	33-363 (15-165)	8.2 (2.	5) 42	-106 (19-48)	
BSDL Series	Spring	33-330 (15-150)	9.8 (3.	0) 42	-100 (19-46)	
BA/ZA Series	Pneumatic	up to 2000 (907)	up to 120	(3.0) up	to 225 (102)	



QA4/6/8 air tools



Torque arms



Impact screwdrivers



Pulse tools



Audit wrench Assembly tools



Fixtured fastening





Cordless tools



Feed drill



Cordless accessories