

Productivity (Fig. 1)

DC Electric Fastening Systems



Toll-Free 1-866-763-6226 Phone: 905-672-5557 Fax: 905-672-5559 Email: sales@dobcoeqp.com

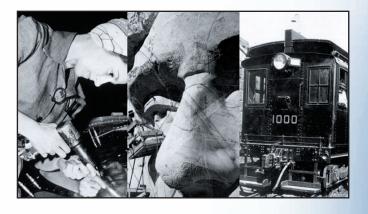


A Century of Innovation. A Legacy of Results.

For generations, Ingersoll-Rand has consistently delivered the most durable and reliable products in the industry. This legacy began with the creation of our first steam-powered rock drill more than 100 years ago,

and has continued through countless innovations ever since.





When you choose Ingersoll-Rand, you're getting more than precision, durability, and performance. You're partnering with a company that is as committed to your success as you are. Everyone on the Ingersoll-Rand team — from our engineers to factory technicians; from our sales team to your local distributors — is dedicated to supporting your investment and maximizing your productivity.

Taking Productivity Even Further.



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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.

The foundation of your improved process is our newest technology — the IC1D and IC1M Series of closed-loop DC tool controllers. Matched with a new ICS software suite and our QE hand-held tools or new QM spindles, the IC controllers will deliver measurable improvements to your productivity, your process quality, and your bottom line.

It's productivity redefined, and it's only from Ingersoll-Rand.



Insight IC Controllers



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IC1G / IC2Graphics

The IC1M, IC1D, and IC1G / IC2G controllers are powerfully precise, fully programmable, and can be seamlessly integrated with any QE or QM Series tools

to deliver real performance advantages.

Productivity

Ask users of Ingersoll-Rand Insight controllers and they'll tell you our interface is best-in-class. The crisp, bright display on the IC1G / IC2G and IC1D provides instant feedback to the operator. Programming is quick and easy, and can either be done on-screen, from a computer with ICS Connect, or with the unique Parameter Transfer Key (PTK) (depending on the unit). You'll spend less time on set-up and more time assembling product.

Simplicity

All QE Series tools and QM Series spindles run on every single IC1D, IC1M, and IC1G / IC2G controller, without exception. This is a best-in-class feature that puts your productivity first.

IC1Display

IC1M odule

Innovation

Ingersoll-Rand IC1D and IC1M controllers offer industry-leading functionality for their size. We pack extensive torque and angle control, as well as process management capabilities, into a small package saving you valuable real estate on the plant floor.

Configuration

Select exactly the system you need — no more, no less — by using our simple product selection guides. Simply specify your power supply, display type, input / output, communications, and accessories and we'll deliver your custom controller.

Reduced Cost of Ownership

Standard features like Ethernet and I/O connections on every unit mean no hidden charges for maximizing communication to your network. Also, there's no need for expensive hardware keys or back-up units. Common designs and components save you time and money in training and spare parts management.



Get maximum performance from your QE or QM tools with Ingersoll-Rand IC1G / IC2G controllers. The IC1G / IC2G controllers offer unmatched data storage, convenient menu navigation, and highly visible graphical displays.

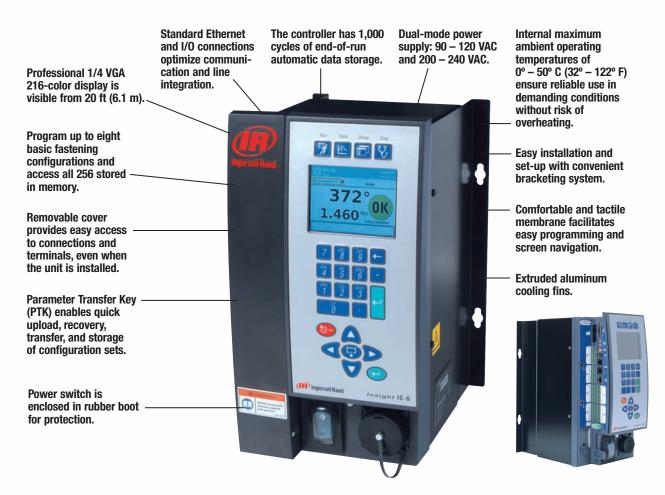


Insight IC1D Controllers



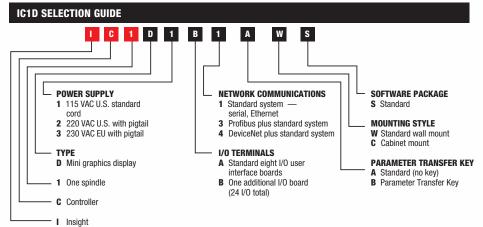
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The new Ingersoll-Rand Insight IC1D controllers give you full closed-loop control in an industry-leading compact size. With features like a VGA color display and intuitive programming interface, the IC1D units provide unmatched performance and value.





Expand the capabilities of the IC1D with ICS Software. See page 7.



Insight IC1M Controllers



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The Ingersoll-Rand IC1M controller is a basic single-spindle controller. The IC1M works seamlessly with all QE Series tools and QM Series spindles, and can be mounted in a rack or cabinet as a single unit or in groups of up to 40 to drive multispindle systems.

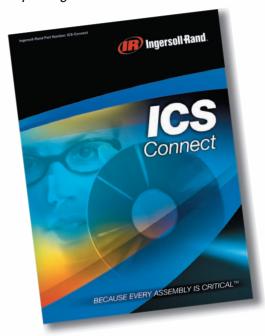


ICS Software Suite



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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.



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.

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.

ICS MultiSync

The ICS MultiSync package facilitates set-up and control of multispindle systems consisting of up to 100 spindles in groups of up to 40 spindles. This package also offers advanced multispindle fastening strategies, remote monitoring, and data archiving.

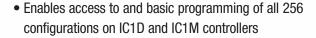
ICS Enterprise

ICS Enterprise offers advanced programming and management of a network of up to 500 IC1D or IC1M controllers using QE tools, QM spindles, or multispindle systems. Also enables ODBC-compliant database archiving, searching, and statistics processing.

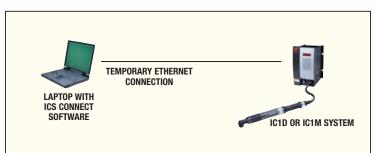


ICS Connect

Features



- Provides the primary means of programming an IC1M controller
- Provides quick functionality set-up for single-step torque and angle strategies on the IC1D and IC1M controllers
- Captures cycle log, event log, and statistical data
- Enables runtime viewing of fastening data with live screen updating



PLANT ETHERNET NETWORK IC1D & IC1M SYSTEMS TEMPORARY ETHERNET CONNECTION LAPTOP WITH ICS NETWORK SOFTWARE IC1D OR IC1M SYSTEM

ICS Network

Features

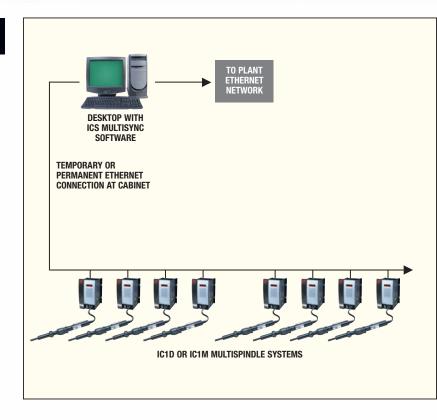
- Allows operators to connect, manage, view, and program up to 500 IC1D or IC1M controllers (depending on license) through a local area network
- Enables programming of advanced multistep tightening strategies including drag torque and prevailing torque on IC1D and IC1M controllers
- Activates the innovative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



ICS MultiSync

Features

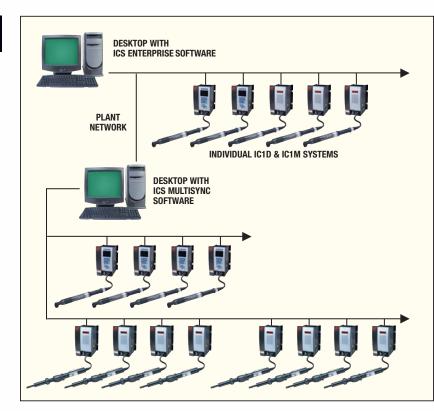
- Programs all regular and powerhead tightening strategies within IC1D and IC1M controllers
- Enables programming and synchronization of up to 100 connected QE Series tools or QM Series spindles
- Enables advanced multispindle strategies such as back-out, fault back-out, final fault back-out, and torque 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



ICS Enterprise

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 ODBC-compliant 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 to mimic IC1G / IC2G display capabilities





The Ingersoll-Rand QE Series hand-held and fixtured tools take productivity, ergonomics, and reliability to new levels. With angle, in-line, pistol, push-to-start, and offset configurations, three motor platforms, and torque coverage to 400 Nm, our QE Series tools are engineered for enhanced productivity with impressive features.

When matched with an IC1G, IC2G, IC1D, or IC1M controller, the ICS Software Suite, and any of our productivity-enhancing accessories, our QE Series tools redefine your productivity.

Productivity

- Faster speeds at torque than competitive tools
- Automatic tool identification means any Insight controller can instantly recognize any QE tool — without manual entry of tool torque range, motor characteristics, or transducer values
- Improved accuracy with Sine Drive technology
- Programmable momentary switch
- · Optimum flexibility through modular designs
- Patented TactAlert provides the operator with tactile feedback of a tool fault or NOK signal through gentle mechanical oscillation in the grip surface, reducing reliance on visual or audible signals

Ergonomics

- Compact, lightweight designs
- · Comfortable grip surfaces and smooth contours
- Low-force triggers and rotary reverse switches

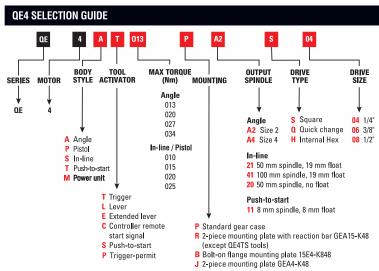
Reliability

- · Digital link between tool and controller
- Durable chassis
- Non-contacting switches
- Two-year standard warranty on all tool cables

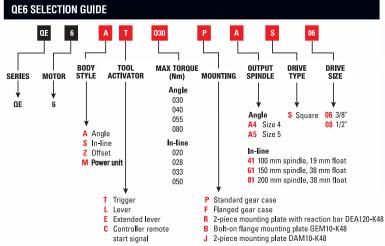




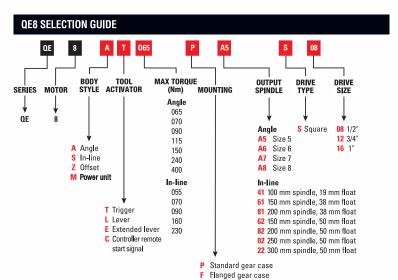












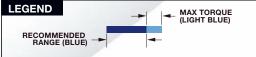
2-piece mounting plate with reaction bar DEA120-K48 Bolt-on flange mounting plate GEM10-K48 2-piece mounting plate DAM10-K48



QE Hand-held DC Electric Tools • Specifications



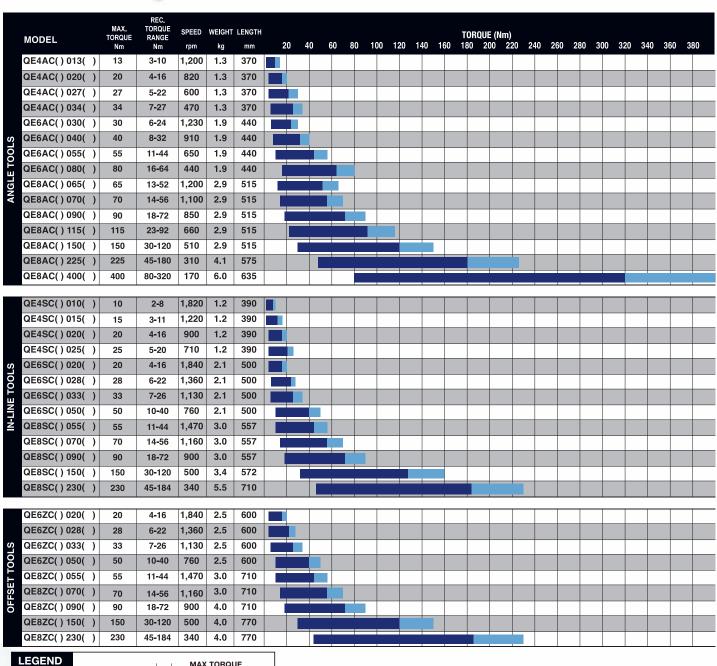
		V	6																						
ı		MAX.	REC. TORQUE	SPEED	WEIGHT	LENGTH								,	TORQUE	(Nm)									
	MODEL	TORQUE Nm	RANGE Nm	rpm	kg	mm	20	40	60	80	100	120	140 1				20 2	40 2	60 2	80 3	00	320	340	360	380
	QE4A() 013()	13	3-10	1,200	1.3	370																			T
	QE4A() 020()	20	4-16	820	1.3	370																			
	QE4A() 027()	27	5-22	600	1.3	370																			
	QE4A() 034()	34	7-27	470	1.3	370																			
	QE6A() 030()	30	6-24	1,230	1.9	440																			
οį	QE6A() 040()	40	8-32	910	1.9	440																			
ANGLE TOOLS	QE6A() 055()	55	11-44	650	1.9	440																			
Ľ	QE6A() 080()	80	16-64	440	1.9	440																			
S.	QE8A() 065()	65	13-52	1,200	2.9	515																			
AN	QE8A()070()	70	14-56	1,100	2.9	515																			
	QE8A() 090()	90	18-72	850	2.9	515	7		_																
	QE8A() 115()	115	23-92	660	2.9	515																			
	QE8A() 150()	150	30-120	510	2.9	515		T				_													_
	QE8A() 225()	225	45-180	310	4.1	575																			
	QE8A() 400()	400	80-320	170	6.0	635								_											
			00 020												-										_
	QE4S() 010()	10	2-8	1,820	1.2	390																			
	QE4S() 015()	15	3-11	1,220	1.2	390																			
	QE4S() 020()	20	4-16	900	1.2	390																			
	QE4S() 025()	25	5-20	710	1.2	390																			
တ	QE6S() 020()	20	4-16	1,840	2.1	500																			
ᇢ	QE6S() 028()	28	6-22	1,360	2.1	500																			_
2	QE6S() 033()	33	7-26	1,130	2.1	500																			
IN-LINE TOOLS	QE6S() 050()	50	10-40	760	2.1	500																			
ż	QE8S() 055()	55	11-44	1,470	3.0	557		_																	
	QE8S() 070()	70	14-56	1,160	3.0	557	_		_																-
	QE8S() 090()	90	18-72	900	3.0	557			_	-															
	QE8S() 150()	150	30-120	500	3.4	572				_															
	QE8S() 230()	230	45-184	340	5.5	710						_	_		_										
	,	200	45-104	040	0.0																				
ᇤ	QE4TS() 010()	10	2-8	1,820	1.2	340																			
STA	QE4TS() 015()	15	3-12	1,220	1.2	340																			
흔	QE4TS() 020()	20	4-16	900	1.2	340																			
PUSH TO START	QE4TS() 025()	25	5-20	710	1.2	340																			
	,, ()																								
P	QE4P() 010()	10	2-8	1,820	1.3	234																			
TOOLS	QE4P() 015()	15	3-12	1,220	1.3	234																			
5	QE4P() 020()	20	4-16	900	1.3	234																			
PISTOL	QE4P() 025()	25	5-20	710	1.3	234																			
_																2ENIC									

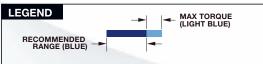




QE Fixtured DC Electric Tools • Specifications









QE Pistol Nutrunners

Features

- Torque coverage to 25 Nm (9 220 in-lb)
- Impressive maximum tool speeds of 1,820 rpm
- Ergonomic housing design based on award-winning Q2 platform
- Three trigger options: push-to-start, trigger-start, and trigger-permit, an industry first
- White LED headlight for work illumination
- Green-yellow-red OK / NOK indicator lights on back cap
- · Dead handle



Other QE Options

Every fastening operation has unique requirements, and Ingersoll-Rand can provide a configured solution designed to meet your needs. We offer tube nut, crows foot, and other geared offset heads in a variety of sizes that can be perfectly matched with a QE4, QE6, or QE8 tool that's right for your application. Contact your local representative today and let Ingersoll-Rand design and deliver your ideal tool.

QM Series Spindles



Toll-Free 1-866-763-6226 Phone: 905-672-5557 Fax: 905-672-5559 Email: sales@dobcoeqp.com



QM Series DC spindles are the workhorse of your multispindle application. With four platforms that provide broad torque and speed coverage, Ingersoll-Rand QM spindles deliver the highest level 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.





With our QM Series spindles on your assembly line, you'll be able to redefine the productivity of your process through these outstanding features:

- Torque coverage from 3 to 1000 Nm*
- Better than five percent capability with all four motor platforms
- Highly durable with limited standard preventive maintenance
- All QM spindles run seamlessly on any IC1G / IC2G, IC1D, or IC1M controller
- Flexible mounting options include front-mounting or sandwich-mounting for any unit
- · External electronics pod simplifies mounting and connectivity (QM spindles use the same tool cables as the QE Series hand-held tools)
- Highly configurable platform allows users to select output torque, body style, sensor type, and spindle type to create the perfect tool for the application
- An onboard PTC monitors the motor temperature and protects the unit from excessive heat
- Easy to service no special tools needed
- CE certified

*Higher torque QM spindles are available. Contact your local Ingersoll-Rand representative for details.





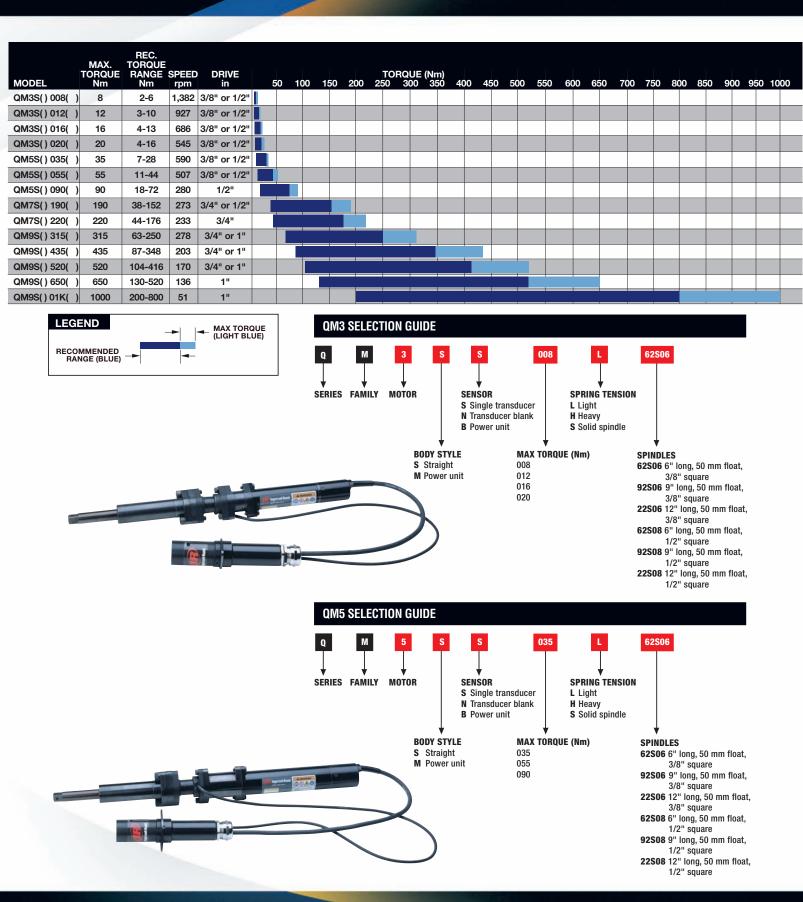




QM Series Spindles

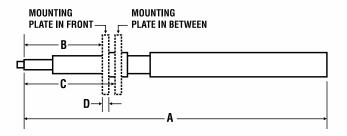


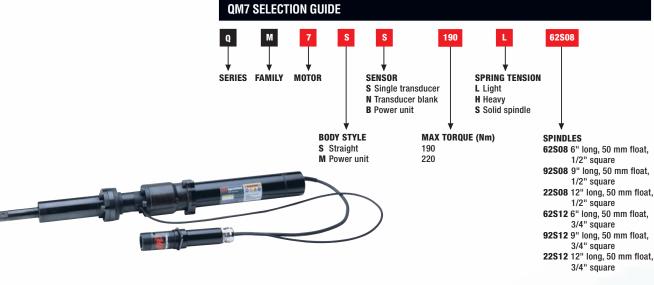
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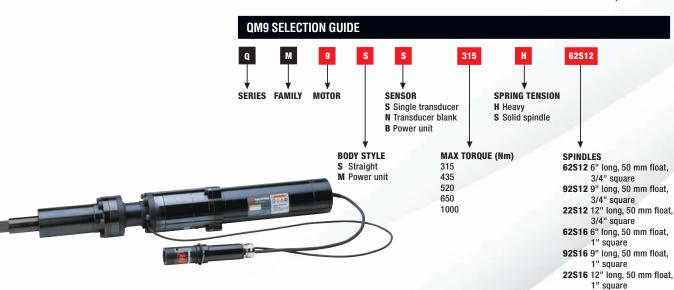




MODEL	C-C DISTANCE (mm)	WEIGHT lb (kg)	SPINDLE RETRACTION (mm)	A (mm)	B (mm)	C (mm)	D (mm)
QM3	34	5.21 (2.36)	50	446.4	168.6	178.6	10
QM5	44	8.59 (3.9)	50	565	168.6	178.6	11.2
QM7	70	18.61 (8.44)	50	643.1	193.6	202.9	11.2
QM9	89	41.03 (18.6)	50	731	221.3	234	18







Custom Fastening Systems



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Ingersoll-Rand provides more than just the building blocks for your fastening applications. We offer the global depth of engineering expertise to design and build turn-key, multispindle assembly solutions for nearly any industrial application. Whether for motor vehicle wheel installation, engine assembly, or component assembly, Ingersoll-Rand has designed and

installed fixtured multispindle systems around the world. Contact your local Ingersoll-Rand representative or your local distributor for a quotation on your next multispindle system. Let Ingersoll-Rand show you how to transform QM spindles, ICS Software, and IC1D and IC1M controllers into a configured solution that helps redefine your productivity.











Complete your total assembly solution with a wide assortment of Ingersoll-Rand fastening system accessories. Whether you need tool holders, torque arms, spare cables, light towers, or socket trays, our parts and accessories are guaranteed to provide the durability and reliability you expect from Ingersoll-Rand.













DESCRIPTION		PART NUMBER
CABLES		
Tool Cables	3 m	GEA40-CORD-3M
NEW!	6 m	GEA40-CORD-6M
	10 m	GEA40-CORD-10M
90° Tool Cables	3 m	GEA40-CORD-3M-90
NEW!	6 m	GEA40-CORD-6M-90
	10 m	GEA40-CORD-10M-90
Extension Cables	10 m	GEA40-EXT-10M
	20 m	GEA40-EXT-20M
	40 m	GEA40-EXT-40M
LEVER KITS		
Short Lever Kit	QE Series	GEA40-K98SL
Extended Lever Kit	QE Series	GEA40-K98EL (shown)
SWIVEL HANGER KIT	QE6 & QE8 Series	GEA40-K364
SUSPENSION BAIL	QE Series	7L-365
REACTION BAR KITS (for retrofitting	ng add DAA4-27)	
	QE4 Series	GEA15-K48
	QE4TS Series	GEPTS15-K48
	QE6 & QE8 Series	DEA120-K48
FLANGED MOUNTING KITS (for re	trofitting add DAA4-27)	
	QE4 Series	15E4-K48
	QE6 & QE8 Series	GEM120-K48
MOUNTING PLATE KITS (for retro	fitting add DAA4-27)	
	QE4 Series	GEA4-K48
	QE6 & QE8 Series	DAM120-K48













DESCRIPTION		PART NUMBER
SOCKET TRAYS	4-position Socket Tray	IC-SOCKET-4 (shown)
	8-position Socket Tray	IC-SOCKET-8
SELECTOR SWITCHES	4-position Remote Selector Switch	IC-SELECT-4
	8-position Remote Selector Switch	IC-SELECT-8
PALM BUTTON RESET STATIO	N	IC-PALM-RESET (shown)
EMERGENCY STOP BUTTON		IC-ESTOP (shown)
LIGHT TOWER		LCE-FB (shown)
COMMUNICATION HUBS		
	Industrial-duty 5-port Switch	IC-SW-5 (shown)
	Industrial-duty 16-port Switch	IC-SW-16
	IP67 Sealed 5-port Switch	IC-SWS-5
	IP67 Sealed 16-port Switch	IC-SWS-16
WALL MOUNTING BRACKET		3002007
CABINET MOUNTING BRACKE	Г	3002010
PARAMETER TRANSFER KEY		8015013 (shown)









Torque Arms

PARALLEL TORQUE ARM							
Model	IRBP3-E30						
Length	30 in (762 mm)						
Range	0 – 10 Nm						
Torque Absorber	Yes						

EZ TOOL ARM*	
Part Number	Description
EZTA080500	Torque arm with tool holder
43146000	Torque arm without tool holder
GEPTS15-K48	QE4TS Tool Adapter

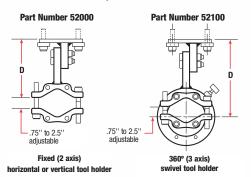
^{*}Torque range 0 – 30 Nm.

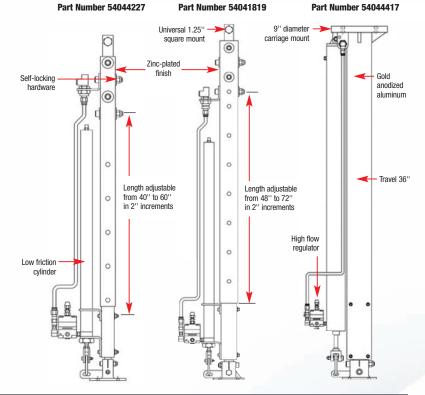
32.5' (826 mm) 32.5' (826 mm) 32.5' (826 mm) 32.5' (826 mm) 15' (406 mm)* *Measurements taken with base at extended height. *Adjustable between 15'' and 22''.

15" (381 mm)

Torque Tubes

- Available in three torque capacities 100 Nm, 250 Nm, and 500 Nm
- Linear bearings for effortless vertical travel and maintenance-free operation
- Lifting capacities of 60 and 400 lb
- Four Delrin wheels for torque reaction and side loading in all directions
- Adjustable lengths every 2 inches to eliminate the need for extension tubes
- Available bolt-on attachments for tool holders and suspension





TORQUE TUBES									
Part Number	Description	Torque Capacity ft-lb (Nm)	Lift Capacity @ 100 psi lb (kg)	Weight Ib (kg)	Travel in (mm)				
54044227	IRZ-TT-100	74 (100)	60 (27)	40 (18)	20 (508)				
54041819	IRZ-TT-250	184 (250)	60 (27)	50 (23)	24 (610)				
54044417*	IRZ-TT-500	368 (500)	400 (182)	75 (75)	36 (914)				

^{*}Carriage mount option only; custom tool holder required. Contact factory for details.

TOOL HOLDERS								
Part Number	For Use With	Description	"D" Dimension in (mm)	Weight lb (kg)				
52000	54044227	Fixed (2 axis) horizontal/vertical	4.82 (122)	2.30 (.90)				
52100	54041819	360° (3 axis) swivel	5.38 (136.7)	5.00 (2.27)				

Expert Torque Analysis Systems

DOBCO

Toll-Free 1-866-763-6226 Phone: 905-672-5557 Fax: 905-672-5559 Email: sales@dobcoeqp.com

ETA Series Expert Torque Analyzer

The Ingersoll-Rand Expert Torque Analyzer is designed for use with a broad range of transducers to dynamically measure and record the torque output of all types of fastening tools, including pulse tools. The Expert Torque Analyzer has full statistical capability, and all data can be downloaded to a computer or printer via the RS232 port. The full line of joint kits facilitates testing of fastening tools in the tool crib, quality lab, or on the line.



Features

- Full touch membrane keypad
- Four-line LED display
- Torque status lights
- High strength aluminum case
- Protective rubber trim
- Neck strap connector
- Contoured bottom
- · Battery charger status

ETA Transducers

Ingersoll-Rand rotary and stationary transducers span the range of $1.5-1000\,\mathrm{Nm}$. These transducers will work with pulse tools, nutrunners, screwdrivers, click wrenches, hand torque wrenches, and direct drive tools and motors in either a clockwise or counterclockwise direction. Their patented "wraparound" brush system reduces the chance of noise in the signal and eliminates the possibility of contact loss.

Standard industry transducers will work with the ETA Series and other equipment that utilizes standard transducers. The ETA "Smart" Series transducers are specifically designed to work with the ETA analyzers. The ETA2 and ETA5 analyzers will automatically identify the transducer's range and calibration through data stored on their "Smart" chip. The ETA Series transducers are available to measure torque and angle of rotation.

Rotary Transducers

	Transducer Range			ETA Series "Sm	art" Transducers
Drive Size	Nm	(in-lb) ft-lb	Standard*	Torque	Torque & Angle
1/4" Hex	.10 – 2	(1.0 - 18)	TR2H4	_	_
1/4" Hex	.25 – 5	(2.2 - 44)	TR5H4	TRD5H4	TRDA5H4
1/4" Hex	1 – 20	(9.0 - 180)	TR20H4	TRD20H4	TRDA20H4
1/4" Square	1 – 20	(9.0 - 180)	TR20S4	TRD20S4	TRDA20S4
3/8" Square	3.8 – 75	2.8 - 55	TR75S6	TRD75S6	TRDA75S6
1/2" Square	9 – 180	6.7 - 133	TR180S8	TRD180S8	TRDA180S8
3/4" Square	12.5 – 250	9.2 – 185	TR250S12	_	_
3/4" Square	25 – 500	18.5 – 370	TR500S12	TRD500S12	TRDA500S12

^{*}Industry standard transducers require ETA2-TC cable

Stationary Transducers

	Transduc	er Range	Stationary	ETA Series
Drive Size	Nm	ft-lb	Transducer	"Smart" Transducers
1/4" Square	1.5 – 30	1.1 – 22	TS30S4	TSD28S4
3/8" Square	7.5 – 150	5.5 – 110	TS150S6	TSD135S6
1/2" Square	15 – 300	11 – 221	TS300S8	TSD270S8
3/4" Square	50 - 1000	37 – 738	TS1000S12	TSD1000S12



Rotary Transducers





Joint Simulator

ETT Torque Tester

	Torque Range					
Model	Nm	in-lb				
ETT-1-US	0.1 – 1.0	0.88 - 8.8				
ETT-4-US	0.4 - 4.0	3.5 – 35				
ETT-12-US	1.2 – 12.0	10.6 - 106				
ETT-30-US	3.0 - 30.0	26.5 - 265				

ETA Series Joint Simulators

The joint simulators have a range up to 1000 Nm. Their rate can be changed to emulate different joint conditions from hard to soft. They are useful in tool cribs to preset tools for production and test capabilities under controlled joint rates. The joint kits are available as separate items or as a kit with a stationary transducer.

ETT Series Expert Torque Testers

- Recommended for most hand screwdrivers, wrenches, or power tools
- Ideal for testing output torque of assembly tools in the calibration lab, repair crib, or on the production line
- Six different languages (English, French, German, Italian, Spanish, and Swedish) standard on all units
- Nine units of measurement for compatibility with global standards
- Charger is equipped with different adaptors for use around the world
- Four operation modes: Peak, Click, Impulse, and Track modes
- High / Pass / Low LED lights
- Auto and manual reset function
- Data transfer function to a PC or printer via the RS232 port
- Diagnostics keep track of past and future calibration dates and current software release
- Eight hours of battery power under normal use
- Auto power down timer keeps unit charged longer
- Quick-clamp mounts integrated into housing
- Quick-disconnect plate available for convenient mounting structure
- Certificate of calibration from National Institute of Standards and Technology included with every unit

Productivity Beyond Product.



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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 solution tailored to your unique operational needs.

Our 360-degree approach to enhancing your performance includes world-class auditing, products, integration, and service in all areas of the assembly process — fastening, ergonomic handling, lifting, drilling, and dispensing. It's a total solutions 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 parts, components, and fasteners to our Fastening Lab. We'll recommend a fastening strategy that gives you the clamp load you need and the quality and precision your customers demand.



Products



Innovative products are the core of our total solutions approach. From DC electric fastening systems to pulse tools and ESD-safe screwdrivers, our product portfolio spans the full fastening continuum to provide

you with the best technology for your application. Add calibration equipment and ergonomic handling solutions to complete your system design. We also offer a comprehensive line of spare parts and accessories including light towers, tool holders, torque arms, cables, sockets, and software.



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, software and PLC programming, and line integration — exactly the combination you need to get up and running.



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 —
from installation and training to preventive

maintenance, calibration, and repairs.

For more information and pricing,

Please Contact:

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