



Smart Cordless Hand Tools



REAL TOOLS FOR REAL WORK.™

ETC Series Cordless Digital Display Wrench

In the modern production process, it is common to encounter situations such as narrow space and lack of precision of power tools, and manual torque wrench becomes an indispensable modern production partner.

Ingersoll-Rand ETC series digital hand wrenches are developed for production-oriented applications, incorporating modern production requirements into manual torque wrenches. It supports wireless control of the fastening process and wireless data traceability (compatible with OP protocol). Aerospace materials are used to reduce weight, while the accuracy of forward and reverse can reach $\pm 1\%$, and the whole series is equipped with angle detection and residual torque detection as standard.



Advanced material is applied, the 1000NM specification weighs only 4.1KG.



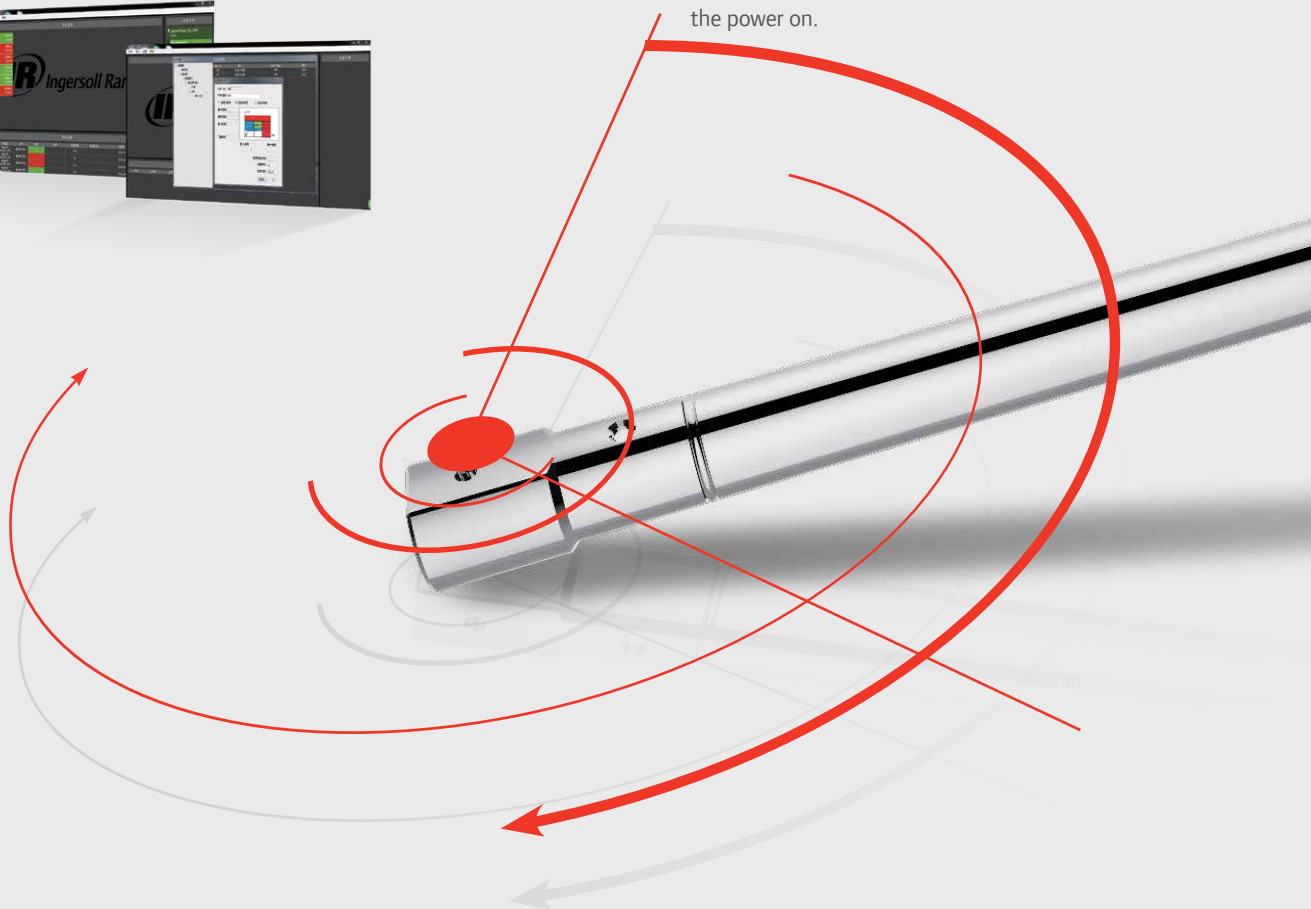
Color screen full Chinese operation interface, with ring LED, vibration and buzzer to alert a variety of methods.



The standard PC software has the functions of product programming, fastening data filtering and curve acquisition, etc.



The products are all delivered with integrated gyroscope + angle encoder as standard, the angle tightening is ready to use, without the need to wait for the horizontal stationary after the power on.





3-1000Nm torque covered.



Torque accuracy $\pm 1\%$, Angle accuracy $\pm 1^\circ$



Ring LED, vibration and buzzer for alerts.



JOB/PSET supported.



Barcode scanner can be connected.



Robust wireless data transfer.



Low power consumption communication with high capacity battery could satisfied 8 hours of use.

Wireless Connection

Fastening control

Data Traceability



Fastening curve collection and residual torque inspection supported.



1200 fastening results and 10 fastening curves can be recorded in the tool.



Open protocol is supported.



LoRa controller supports up to 1 to 8 connection.

Lora Cordless Digital Wrench

Dedicated controller with integrated industrial interface

- Dedicated controller
- Individual communication channel
- Integrated serial interface and IO port can connect multiple external devices
- Up to 8 wrenches can be communicated by 1 controller



LoRa controller

Item Number

Max. Torque	1:1 Kit Module	1:8 Kit Module
30Nm	ETC2-30-L-AP	ETC2-30-D-AP
100Nm	ETC2-100-L-AP	ETC2-100-D-AP
200Nm	ETC2-200-L-AP	ETC2-200-D-AP
400Nm	ETC2-400-L-AP	ETC2-400-D-AP
600Nm	ETC2-600-L-AP	ETC2-600-D-AP
800Nm	ETC2-800-L-AP	ETC2-800-D-AP
1000Nm	ETC2-1000-L-AP	ETC2-1000-D-AP

Specification

ETC Series	Specification
Torque Range (Nm)	3-1000
Torque Accuracy	+/- 1%
Angle Measurement	Angle sensor & Gyroscope
Angle Accuracy	+/- 1°
Battery Capacity	8 hours work or 500 bolts with wireless connection
LED Indicate	R/G/B ring
Wireless Connection	LoRa, 50m distance without occlusion
Controller IO Port	8I/8O
EOR Output	Open Protocol
Max. Job	100
Data Storage	1200 EOR & 10 Trace
Tighten Strategy	Torque/Torque Control & Angle Monitor/ Torque Monitor & Angle Control
Barcode Scanner	Integrated Serial Port
Display	130*42 Colorful Display

Accessory

Controller	
1:1 Module-AP	QCWC1-M-AP
1:8 Module-AP	QCWC1-D-AP

Accessory



Battery & Charger

Charger	BC1141-W-AP
Battery	BL2015-AP

Length & Weight

Torque Range	Driver Plug-in	Ratchet Head in Kit	Image	Length		Weight	
				mm	kg		
3~30	9*12	1/4"		463	1		
10~100	9*12	1/2"		523	1.2		
20~200	14*18	1/2"		533	1.2		
40~400	14*18	3/4"		658	1.63		
60~600	24*32	3/4"		880	3.1		
80~800	24*32	3/4"		1170	4.1		
100~1000	24*32	3/4"		1170	4.1		

Kit contents: ETC digital display wrench, two batteries, charger, debugging data wire, ratchet head, manual, factory verification report.

CTW Series Digital Click Torque Wrench

How to make 1+1 larger than 2?

CTW series products combine the data of smart tools with the high efficiency of click wrenches, adding accurate measurement of fastening results, wireless traceable data, and robust flexible error-proof functions to efficient production. The new products cover a maximum torque of 1000Nm and are widely used in vehicle manufacturing, construction machinery, railroad locomotive and other industries.

Improving productivity is the pursuit of modern production scenarios, and Ingersoll-Rand is committed to providing our customers with more convenient productivity tools.

Wireless data transfer

- Adopt different communication channel from Bluetooth or WIFI channel, ensuring fast and reliable data transmission



Fastening data visualization

- Click wrenches no longer just click, torque sensors help you see the fastening results directly
- Digitalized the mechanism feedback to add traceability

High Definition OLED LCD

- An intuitive display of the current fastening status and results
- Color LED clearly indicates fastening pass/fail
- Intuitive operation of the keyboard for quick start-up

Item Number






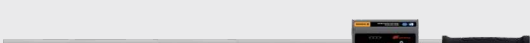

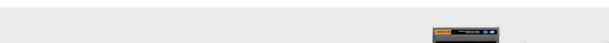
Max. Torque	1:1 Kit Module
30Nm	CTW-30-L-AP
60Nm	CTW-60-L-AP
125Nm	CTW-125-L-AP
200Nm	CTW-200-L-AP
330Nm	CTW-330-L-AP
500Nm	CTW-500-L-AP
800Nm	CTW-800-L-AP
1000Nm	CTW-1000-L-AP

Controller specification	Model
1:1 Module	QCWC1-M-CTW-AP

Specification

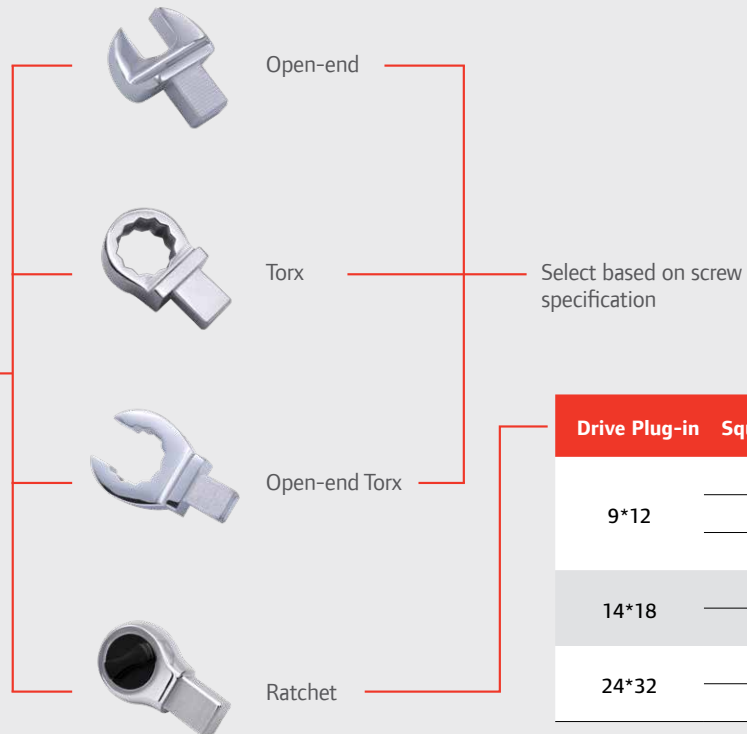
ETC Series	Specification
Torque Range (Nm)	10-1000
Torque Accuracy	+/- 1%
Battery Capacity	8 hours work or 500 bolts with wireless connection
LED Indicate	R/G/B 360°
Display	128*64 HD OLED LCD
Wireless Connection	LoRa, 50m distance without occlusion
Controller IO Port	8I/8O
EOR Output	Open Protocol
Data Storage	1200 EOR
Torque adjusting method	Mechanical adjustment of jump-off pre-load force

Length & Weight

Torque Range	Driver Plug-in	Ratchet Head in Kit	Image	Length		Weight	
				mm	kg		
10-30	9*12	1/4"		300	0.7		
20-60	9*12	1/2"		360	0.8		
50-125	9*12	1/2"		405	0.95		
80-200	14*18	1/2"		465	1		
132-330	14*18	3/4"		540	1.5		
200-500	24*32	3/4"		750	4.4		
300-800	24*32	3/4"		950	5.3		
400-1000	24*32	3/4"		950	5.3		



Drive Head

Wrench	Drive Plug-in
30 Nm	9*12
100 Nm	9*12
200 Nm	14*18
400 Nm	14*18
600 Nm	24*32
800 Nm	24*32
1000 Nm	24*32



Drive Plug-in	Square Size
9*12	1/4"
	3/8"
	1/2"
14*18	1/2"
	3/4"
24*32	3/4"
	1"

Drive Head List

Drive Type	Item Name	Plug-in (mm)	Square Size (in)	Tooth Number	Weight (g)
Ratchet					
	ET9-R-14	9*12	1/4"	45	135
	ET9-R-38	9*12	3/8"	45	160
	ET9-R-12	9*12	1/2"	45	160
	ET14-R-12	14*18	1/2"	45	265
	ET14-R-34	14*18	3/4"	45	305
	ET24-R-34	24*32	3/4"	45	1040
	ET24-R-1	24*32	1"	45	1140
Open-end					
	ET9-O-7	9*12	7	22	5
	ET9-O-8	9*12	8	22	5
	ET9-O-9	9*12	9	26	5.5
	ET9-O-10	9*12	10	26	5.5
	ET9-O-11	9*12	11	26	5.5
	ET9-O-12	9*12	12	30	7
	ET9-O-13	9*12	13	30	7
	ET9-O-14	9*12	14	35	8
	ET9-O-15	9*12	15	35	8
	ET9-O-16	9*12	16	38	8
	ET9-O-17	9*12	17	38	8
	ET9-O-18	9*12	18	42	8
	ET9-O-19	9*12	19	42	8
	ET9-O-20	9*12	20	48	8
	ET9-O-21	9*12	21	50	8
	ET9-O-22	9*12	22	50	8
	ET9-O-23	9*12	23	53	8
	ET9-O-24	9*12	24	53	8
	ET9-O-27	9*12	27	64	8



Drive Type	Item Name	Plug-in (mm)	Square Size (in)	Tooth Number	Weight (g)
	ET9-O-30	9*12	30	70	8
	ET9-O-32	9*12	32	70	8
	ET9-O-34	9*12	34	80	8
	ET9-O-36	9*12	36	80	8
	ET9-O-38	9*12	38	82	8
	ET9-O-41	9*12	41	85	8
	ET9-O-46	9*12	46	100	8
	ET14-O-13	14*18	13	32	7
	ET14-O-14	14*18	14	35	8
	ET14-O-15	14*18	15	35	8
	ET14-O-16	14*18	16	38	9
	ET14-O-17	14*18	17	38	9
	ET14-O-18	14*18	18	42	10
	ET14-O-19	14*18	19	42	10
	ET14-O-21	14*18	21	50	11
	ET14-O-22	14*18	22	50	11
	ET14-O-24	14*18	24	53	13
	ET14-O-26	14*18	26	53	13
	ET14-O-27	14*18	27	64	13
	ET14-O-29	14*18	29	68	13
	ET14-O-30	14*18	30	70	13
	ET14-O-32	14*18	32	70	13
	ET14-O-34	14*18	34	78	13
	ET14-O-36	14*18	36	80	13
	ET14-O-38	14*18	38	85	13
	ET14-O-41	14*18	41	90	13
	ET14-O-42	14*18	42	93	13
	ET14-O-43	14*18	43	95	13
	ET14-O-44	14*18	44	98	13
	ET14-O-46	14*18	46	100	13
	ET14-O-48	14*18	48	104	13
	ET14-O-50	14*18	50	106	13
	ET14-O-55	14*18	55	116	13
	ET14-O-60	14*18	60	121	13
	ET24-O-17	24*32	17	62	25
	ET24-O-19	24*32	19	65	25
	ET24-O-22	24*32	22	68	25
	ET24-O-24	24*32	24	70	25
	ET24-O-27	24*32	27	72	25
	ET24-O-30	24*32	30	75	25
	ET24-O-32	24*32	32	76	25
	ET24-O-34	24*32	34	78	25
	ET24-O-36	24*32	36	80	25
	ET24-O-38	24*32	38	91	25
	ET24-O-41	24*32	41	95	25
	ET24-O-46	24*32	46	100	25
	ET24-O-48	24*32	48	104	25
	ET24-O-50	24*32	50	106	25
	ET24-O-55	24*32	55	119	25
	ET24-O-60	24*32	60	121	25
	ET24-O-65	24*32	65	130	25
	ET24-O-70	24*32	70	132	25

Torx



	ET9-P-7	9*12	7	13	8
	ET9-P-8	9*12	8	14	8
	ET9-P-10	9*12	10	17	9
	ET9-P-11	9*12	11	18.5	9
	ET9-P-12	9*12	12	20	12



Drive Type	Item Name	Plug-in (mm)	Square Size (in)	Tooth Number	Weight (g)
	ET9-P-13	9*12	13	22	12
	ET9-P-14	9*12	14	23	12
	ET9-P-15	9*12	15	24	12
	ET9-P-16	9*12	16	26	13
	ET9-P-17	9*12	17	27	13
	ET9-P-18	9*12	18	28.5	13
	ET9-P-19	9*12	19	30	13
	ET9-P-21	9*12	21	33	13
	ET9-P-22	9*12	22	34.5	13
	ET14-P-13	14*18	13	21.5	11
	ET14-P-14	14*18	14	23	11
	ET14-P-15	14*18	15	24	11
	ET14-P-16	14*18	16	26	12
	ET14-P-17	14*18	17	27	12
	ET14-P-18	14*18	18	28.5	12
	ET14-P-19	14*18	19	30.5	12
	ET14-P-21	14*18	21	33	15
	ET14-P-22	14*18	22	34.5	15
	ET14-P-24	14*18	24	37.5	15
	ET14-P-27	14*18	27	41.5	16
	ET14-P-30	14*18	30	45	16
	ET14-P-32	14*18	32	47.5	16
	ET14-P-34	14*18	34	51	16
	ET14-P-36	14*18	36	54	16
	ET14-P-41	14*18	41	61	16
	ET24-P-24	24*32	24	65	25
	ET24-P-27	24*32	27	68	25
	ET24-P-30	24*32	30	72	25
	ET24-P-32	24*32	32	74	25
	ET24-P-34	24*32	34	76	25
	ET24-P-36	24*32	36	80	25
	ET24-P-38	24*32	38	80	25
	ET24-P-41	24*32	41	80	25
	ET24-P-46	24*32	46	86	25
	ET24-P-50	24*32	50	98	25
	ET24-P-55	24*32	55	105	25
	ET24-P-60	24*32	60	110	25
	ET24-P-65	24*32	65	128	25
	ET24-P-70	24*32	70	128	25
	ET24-P-55	24*32	55	105	25
	ET24-P-60	24*32	60	110	25
	ET24-P-65	24*32	65	128	25
	ET24-P-70	24*32	70	128	25

Open-end Torx



	ET9-OP-8	9*12	8	22	5
	ET9-OP-9	9*12	9	26	5.5
	ET9-OP-10	9*12	10	26	5.5
	ET9-OP-11	9*12	11	26	5.5
	ET9-OP-12	9*12	12	30	7
	ET9-OP-13	9*12	13	30	7
	ET9-OP-14	9*12	14	35	8
	ET9-OP-15	9*12	15	35	8
	ET9-OP-16	9*12	16	38	8
	ET9-OP-17	9*12	17	38	8
	ET9-OP-18	9*12	18	42	8
	ET9-OP-19	9*12	19	42	8
	ET9-OP-21	9*12	21	50	8
	ET9-OP-22	9*12	22	50	8



Drive Type	Item Name	Plug-in (mm)	Square Size (in)	Tooth Number	Weight (g)
	ET9-OP-24	9*12	24	53	8
	ET9-OP-27	9*12	27	64	8
	ET9-OP-30	9*12	30	70	8
	ET9-OP-32	9*12	32	70	8
	ET9-OP-36	9*12	36	80	8
	ET9-OP-41	9*12	41	85	8
	ET9-OP-46	9*12	46	100	8
	ET14-OP-13	14*18	13	32	7
	ET14-OP-14	14*18	14	35	8
	ET14-OP-15	14*18	15	35	8
	ET14-OP-16	14*18	16	38	9
	ET14-OP-17	14*18	17	38	9
	ET14-OP-18	14*18	18	42	10
	ET14-OP-19	14*18	19	42	10
	ET14-OP-21	14*18	21	50	11
	ET14-OP-22	14*18	22	50	11
	ET14-OP-24	14*18	24	53	13
	ET14-OP-26	14*18	26	53	13
	ET14-OP-27	14*18	27	64	13
	ET14-OP-29	14*18	29	68	13
	ET14-OP-30	14*18	30	70	13
	ET14-OP-32	14*18	32	70	13
	ET14-OP-34	14*18	34	78	13
	ET14-OP-36	14*18	36	80	13
	ET14-OP-38	14*18	38	85	13
	ET14-OP-41	14*18	41	90	13
	ET14-OP-44	14*18	44	98	13
	ET14-OP-46	14*18	46	100	13
	ET14-OP-50	14*18	50	106	13
	ET14-OP-55	14*18	55	116	13
	ET14-OP-60	14*18	60	121	13
	ET24-OP-19	24*32	19	65	25
	ET24-OP-24	24*32	24	70	25
	ET24-OP-27	24*32	27	72	25
	ET24-OP-30	24*32	30	75	25
	ET24-OP-32	24*32	32	76	25
	ET24-OP-34	24*32	34	78	25
	ET24-OP-36	24*32	36	80	25
	ET24-OP-38	24*32	38	91	25
	ET24-OP-19	24*32	19	65	25
	ET24-OP-24	24*32	24	70	25
	ET24-OP-27	24*32	27	72	25
	ET24-OP-30	24*32	30	75	25
	ET24-OP-32	24*32	32	76	25
	ET24-OP-34	24*32	34	78	25
	ET24-OP-36	24*32	36	80	25
	ET24-OP-38	24*32	38	91	25



Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to helping make life better for our employees, customers and communities. Customers lean on us for our technology-driven excellence in mission-critical flow creation and industrial solutions across 40+ respected brands where our products and services excel in the most complex and harsh conditions. Our portfolio of products consists of air compressors, pumps, blowers, and systems for fluid management, loading and material handling as well as power tools. With over 16,000 employees globally, our team develops customers for life through their daily commitment to expertise, productivity and efficiency. For more information, visit www.IRCO.com.

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