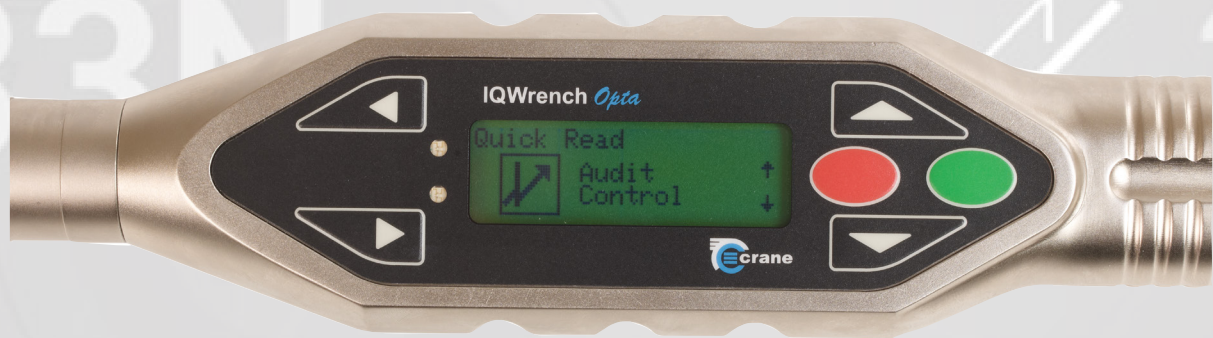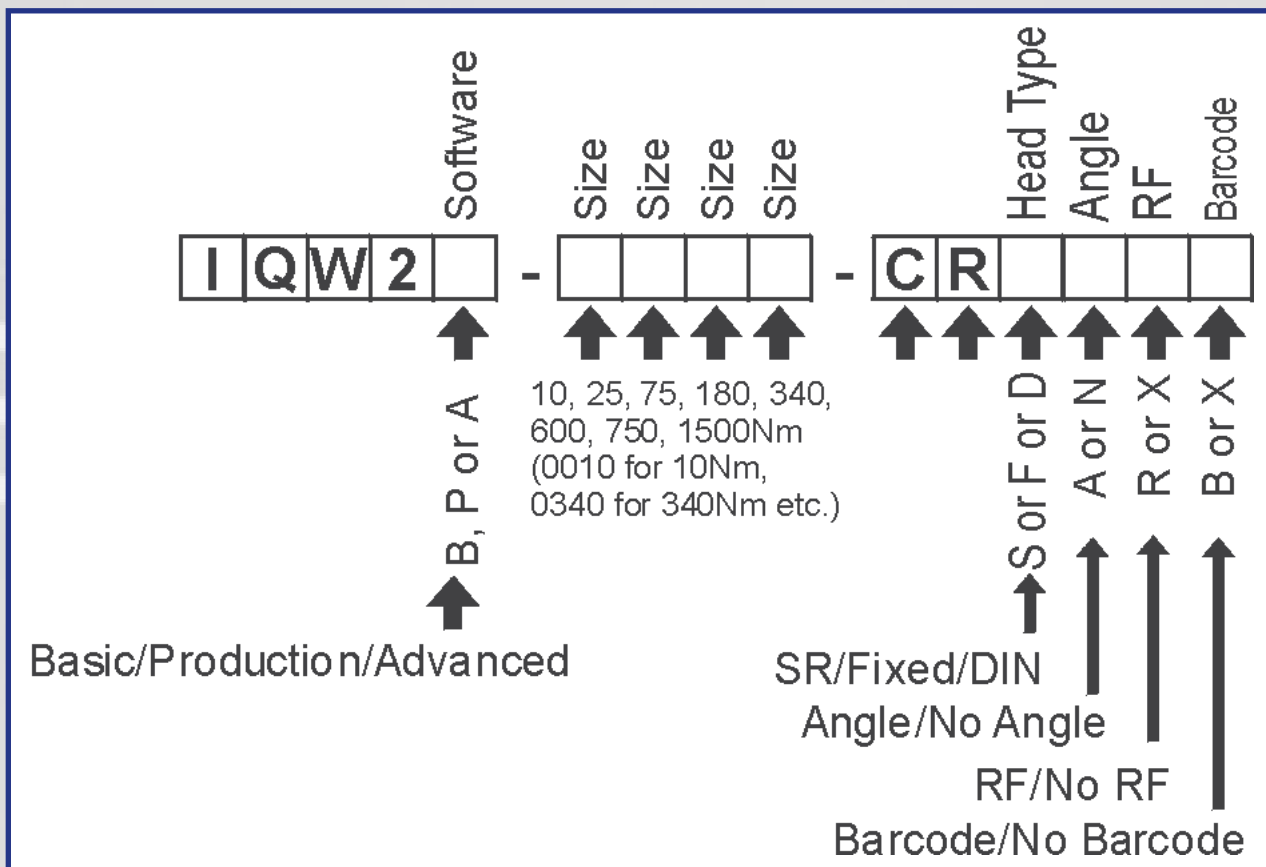# IQWrench2
Intelligent Digital Torque Wrench

crane

The IQWrench2 combines all of the features of a high specification digital torque wrench with a data collection system in one ergonomic, versatile and incredibly powerful package. Its software can be upgraded at any time to give greater flexibility. Basic to advanced versions are available depending on customer's application and requirements. Barcode reader and RF wireless transfer are also optional. Its robust and rugged construction is suitable for harsh production environments.

Key features

✓ Torque range 0.5 to 1500Nm
✓ Torque and angle measurement technology
✓ Point of load insensitive
✓ Vibrating handle giving a clear indication of fastener status
✓ Advanced software: RF communication, barcode, MoveOn, Trace, Yield
✓ Head type versions: SR, fixed, Din
✓ Interfaces to Crane OMS software
✓ Job/Rounds settings

IQWrench2 Product Code Creator

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Software

Size Size Size Size

Head Type
Angle
RF
Barcode

B, P or A

10, 25, 75, 180, 340,
600, 750, 1500Nm
(0010 for 10Nm,
0340 for 340Nm etc.)

S or F or D
A or N
R or X
B or X

Basic/Production/Advanced

SR/Fixed/DIN
Angle/No Angle
RF/No RF
Barcode/No Barcode

Supplied:

Cradle & mains lead
Calibration certificate
User manual and quick start guide
Communications software

		Torque Range			Length*		Weight	
Size	Head	Nm	lbft	Drive	mms	inches	gms	lbs
10/25	Fixed or Din	1-25	0.74-7.4	1/4"	313	12.32	890	1.96
10/25	Din	1-25	1.8-18.4	1/4"	368	14.49	960	2.12
75	Din	7.5-75	5.5-55.3	3/8"	382	15.04	1030	2.27
180	Din	18-180	13.2-132.7	1/2"	660	23.62	1546	3.41
340	Din	34-340	25-250.6	1/2"	775	30.51	2012	4.44
600	Din	60-600	44.2-442.5	¾"	1100	43.31	3500	10.36
750	Fixed	75-750	55.2-552.7	¾"	1165	45.87	5600	12.35
1500	Fixed	150-1500	110.5-1105	1"	1908	75.12	10900	24.03

*Overall Length

Accessories List

IQWrench2 Opta Charging Cradle	IQW2S-0000-CRCCXX
IQWrench2 Opta Programming Cradle	IQW2S-0000-CRCPUX
IQWrench2 Opa Power Supply	IQW2S-0000-CRPXXX
USB Cable	090260
RS232 Cable	090184
RF Receiver – 2 Volt free relay outputs (UK/EUR version)	IQRX4-0000-NET
RF Receiver – 2 Volt free relay outputs (USA version)	IQRX5-0000-NET
RF Receiver – 10 Volt free relay outputs (UK/EUR version)	IQRX6-0000-NET
RF Receiver – 10 Volt free relay outputs (USA version)	IQRX7-0000-NET
Carry case and foams (Suitable to carry 10,25 and 75Nm only)	IQW2S-0000-CRCFXX

IQWrench2 Technical Specification:

Measurement units:	Nm, Ncm, kgfcm, kgfm, ozin, lbin, lbft (depends on span)
Measurement modes:	Track, Peak (Auto-reset), Angle, Yield, Audit, MoveOn
Data storage:	200 reading memory of both parameter values with time and date stamp
	Up to 50,000 readings in job store mode
	Up to 50 graphs
Printer compatability:	Via RS232 output: 40/80 columns
	English, German, French, Spanish, Italian, Swedish, Czech, Portuguese, Turkish
Construction:	Shaft material: Steel
	Housing: Aluminium
	Overload capacity: 125% rated torque
	Square drives fitted with pin and spring socket retainer
	DIN sockets with quick release function
Display:	Backlit graphic LCD display with backlight auto off to save power
Zero stability:	< ± 0.1% FSD/°C
Static accuracy:	± 0.5% FSD
Operating Environment:	Temperature: +5°C to +40°C
	Ingress Protection rating: IP40. Can be used outdoors
Optional angle measurement:	+/- 1%
Warranty:	12 months parts and labour against faulty workmanship or materials

IQWrench2 software versions: torque only or torque and angle

Basic and basic with angle
Advanced and advanced with angle
Production and production with angle

ID Heads

The IQWrench2 has easy selection of quick release interchangeable heads. The Crane auto ID system can be fitted to standard DIN heads and offers up to 999 unique IDs programmed into OMS.

The use of available automatic digital ID heads ensures a highly accurate reading every time.

ID heads can also be used for automatic Job selection which minimizes the input required by the operator.

Three variants of charging cradles:

Charge cradle – charging (basic & advanced IQWrench2)

RS232 – communications and charging (production IQWrench2)

USB – communications and charging (production IQWrench2)

Cradle functions:
- ✓ Recharging the battery (for 8 hours continuous use)
- ✓ Programming the tool with Jobs/Rounds/ID table
- ✓ Downloading readings (if no wireless option)

RF

IQWrench2 operates at a user programmable frequency of 868/915MHz according to country of installation.

✓ Data transfer from wrench to PC/PLC
✓ Integration into the OMS system to collect production data against multiple Jobs.
✓ Remote selection of Jobs
✓ Integration into 3rd party systems
✓ Transfer of a Job to the wrench

Barcode reader:

IQWrench2 features an optional barcode reader capable of scanning all major 1D barcode formats.

✓ Job or Round selection
✓ User details to login and store against the data
✓ Link data to the part/VIN number

Complete torque management systems from Crane Electronics