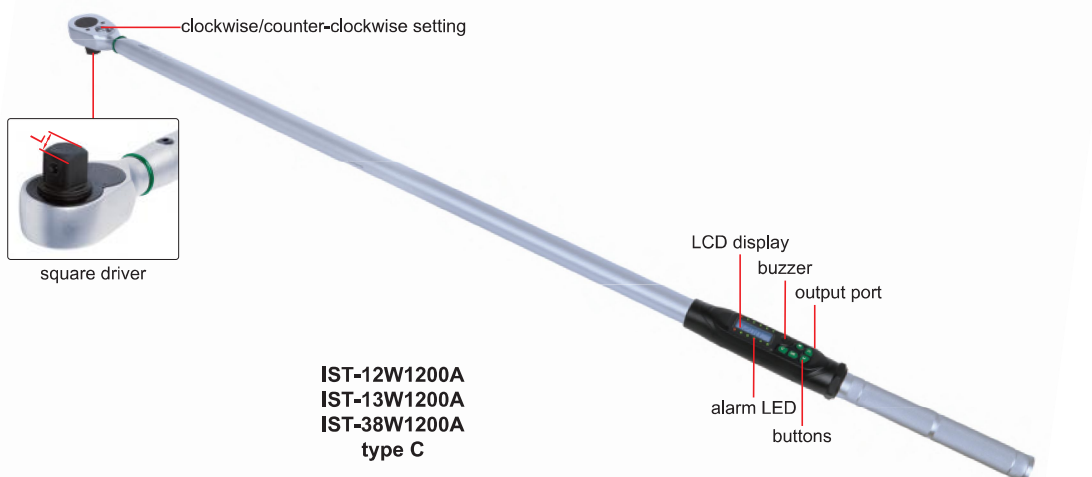


TWO-WAY WIRELESS DIGITAL TORQUE WRENCHES

DATA
OUTPUT

RANGE 6~340N.m OPTIONAL ACCURACY:
CLOCKWISE: $\pm 1\%$, COUNTER-CLOCKWISE: $\pm 2\%$

INSIZE
CERTIFICATE



Torque wrench:

- Clockwise and counter-clockwise operation
- Peak and track working mode
- Upper and lower tolerance limits can be set to determine pass or fail by LED lights
- 10 preset target torque values and usage modes, parameters can be locked to prevent change
- With audible and visible alarm:
 - Green LED light on in sequence and buzzer sounds louder and louder when torque value is 80%~99.5% of target torque
 - Both green and red LED light on and buzzer sounds long-lasting alarm when torque value is over 99.5% of target torque
- Measurement results automatically calculate % difference from target value
- With storage and browsing on the wrench
- Measurement results can be sent manually by pressing M button or automatically
- Counting function, over 20% of the range counts once
- Power off in 2 minutes automatically
- Non-slip grip handle
- With overload record (once the torque reaches 110% of the maximum range)

Bluetooth transmission:

- Built-in Bluetooth 4.0 module in Windows10 system version 1709 or above, maximum transmission distance is 10m (no obstacles, no electromagnetic interference)

Radio transmission:

- Radio communication, using the 433MHz radio channel, maximum transmission distance is 100m (no obstacles)

WIFI transmission:

- A good wireless WIFI network (4G/5G) is required, and the communication status depends on the network

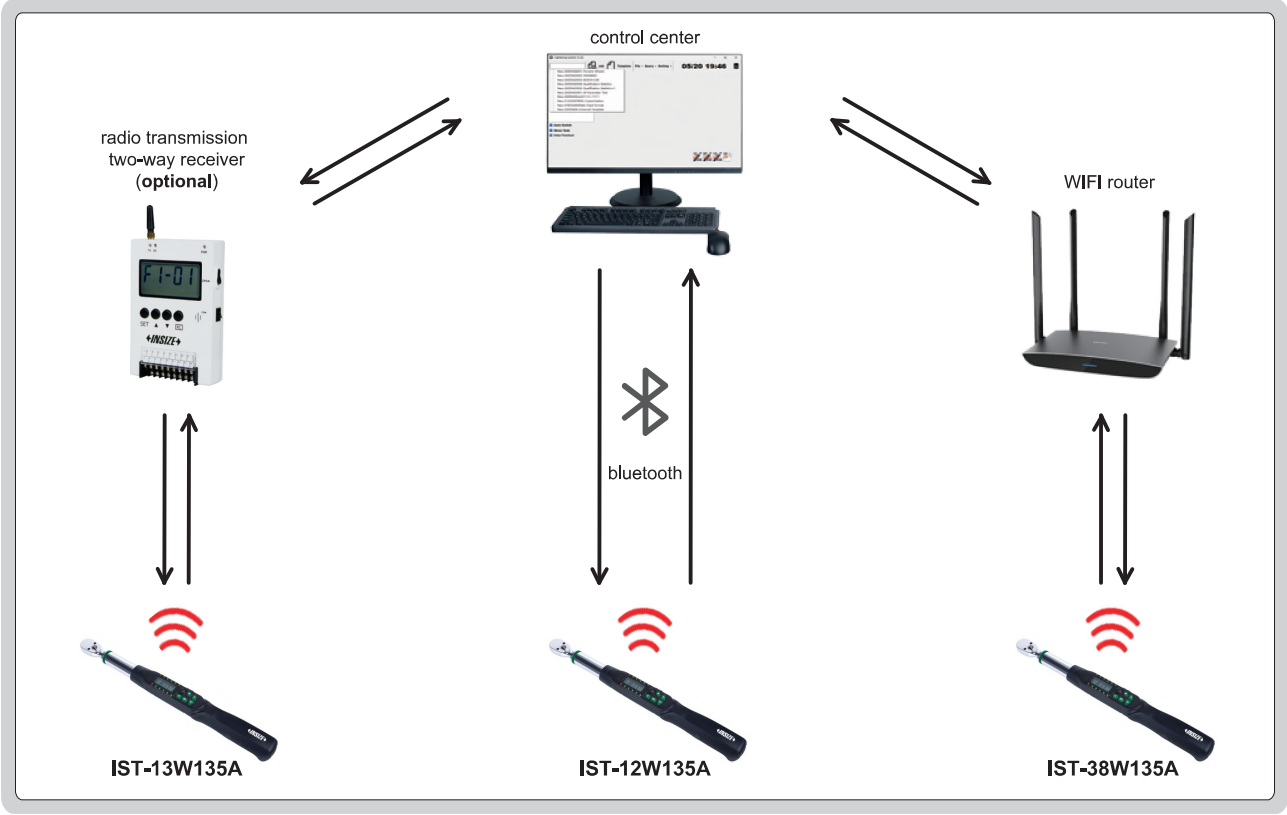


radio transmission two-way receiver (optional)
IST-13WREC-PLC *

RADIO TWO-WAY RECEIVER (OPTIONAL) SPECIFICATION

Signal output to	computer or PLC
Working frequency	432.0~434.8MHz, adjustable
No. of connections	10 wrenches
Power supply	power adapter, 24V, 0.5A
Dimension	200×108×31mm
Weight	500g

*suitable for IST-13W series, necessary for IST-13W series



application

SPECIFICATION

Code	Bluetooth	IST-12W06A	IST-12W12A	IST-12W20A	IST-12W30A	IST-12W60A	IST-12W135A	IST-12W200A
	Radio	IST-13W06A	IST-13W12A	IST-13W20A	IST-13W30A	IST-13W60A	IST-13W135A	IST-13W200A
	WIFI	IST-38W06A	IST-38W12A	IST-38W20A	IST-38W30A	IST-38W60A	IST-38W135A	IST-38W200A
Type		type A			type B			
Range		1.2~6N.m	2.4~12N.m	4~20N.m	6~30N.m	12~60N.m	27~135N.m	40~200N.m
Accuracy	clockwise	±2%						
	counter-clock wise	±3%						
Resolution		0.001N.m	0.01N.m	0.01N.m	0.01N.m	0.01N.m	0.1N.m	0.1N.m
Unit		N.m, in.lb, ft.lb, kg.cm						
Square driver (L)		1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	1/2"
Power supply		2×AAA batteries			2×AA batteries			
Length		215mm	215mm	215mm	390mm	415mm	415mm	530mm
Weight		380g	380g	380g	760g	940g	940g	1340g

Code	Bluetooth	IST-12W340A	IST-12W500A	IST-12W850A	IST-12W1000A	IST-12W1200A	IST-12W1500A	IST-12W2000A
	Radio	IST-13W340A	IST-13W500A	IST-13W850A	IST-13W1000A	IST-13W1200A	IST-13W1500A	IST-13W2000A
	WIFI	IST-38W340A	IST-38W500A	IST-38W850A	IST-38W1000A	IST-38W1200A	IST-38W1500A	IST-38W2000A
Type		type B			type C			
Range		68~340N.m	100~500N.m	170~850N.m	200~1000N.m	240~1200N.m	300~1500N.m	400~2000N.m
Accuracy	clockwise	±2%	±2.5%					
	counter-clock wise	±3%	±3.5%					
Resolution		0.1N.m	0.1N.m	0.1N.m	1N.m	1N.m	1N.m	1N.m
Unit		N.m, in.lb, ft.lb, kg.cm			N.m, ft.lb			
Square driver (L)		1/2"	3/4"	3/4"	1"	1"	1"	1"
Power supply		2×AA batteries						
Length		650mm	950mm	1220mm	1785mm	1785mm	1785mm	1785mm
Weight		1540g	2950g	4260g	9000g	9000g	9000g	10000g

Tightening system test software (included)

■ Setting interface

Operation Setting

☒ Lock Wrench Till Job Start
☐ MultiView
☐ Show CPK
☐ Show Last 10
☒ Assign Wrench
☐ Finish Alarm

Serial Format

Template Code: 20250422001
Serial Date Format: yyyyMMdd
Serial Digits: 3
Serial: 2025042200120250520001

Create Job By Serial#

☒ Template Code Matched
☐ Default Template

Language Setting

Language: English

■ Make job template

Task: ☒ Save

Order: 1 ☐ Canceled

Name: Universal Test +1

Worker: YS168 Worker CHEN

Dept: SHENGCHAI Production

Part: NEISHI Interior

Location: QICHE CAR

Tool: 37:IST-37W135A N.m ☒ Hold

OP PEAK Valid Range: (%) (Value) ☐ Auto

Target 20.0 10.0 22.0 ☒ NG GO

-10.0 18.0 ☒ UP GO

Count: 3 ☒ No Cancel

☐ ONE WAY ☐ NG Auto Send

Note:

Seq#: 202504240220250513001# Measured

1	Universal Test +1	1	19 N.m
2	YS168 Worker CHEN	2	19.8 N.m
3	37 IST-37W135A	3	20.8 N.m

Target: 20 N.m

Valid Range: (%) -10.00% 10.00%

basic template (easy-to-use format without loading EXCEL)

Tightening Audit Form

Job#: H522N12025051 Type#: AS OK Rate: 95.83% Staff: Measured: 24 NG Count: 1

Date: 2025/5/22 Assembly A01 Count: 24

NO	Name	BackTrack	Measured	OK	NG	BackTracked
1	Wheel Screw#12	F20	10	9	1	
2	Front Chair(Bolt)#14	F22	6	6	0	
3	Front Chair(Bolt)#14	F22	8	8	0	

ASMechanic Safety Audit Form

Job#: 20250522N1202505220 Dept: A01 Staff: Worker SHI

Prod#: (BARCODE) Condition

Part#	Bots#	Part#	Bots#	Part#	Bots#	Part#	Bots#
1	0.75	6	0.7				
2	0.74	7	0.71				
3	0.75	8	0.75				
4	0.75	9	0.69				
5	0.65	10	1.05				

Item# NA740121-010

SPRC: 0.4500 0.5500

Range: 0.600 0.800

Target: 0.700

Wrench: 12:

Adaptor: #12

Place: F20

fixed format template
(load fixed EXCEL, divided into monitoring and record table)

Tool List

Tool

- (12)IST-12W135A:135 N.m
- (13)IST-13W135A:135 N.m
- (37)IST-37W135A:135 N.m

Worker List

Worker

- (J067)Worker SHI
- (YS168)Worker CHEN
- (YS34)Worker ZHOU

Generic Codes

PLACE

- FEIJI:AIRPLANE
- LUNCHUAN:SHIP
- QICHE:CAR
- ZHIXINGCHE:BICYCLE

DEPARTMENT

- JISHU:Technology
- SHENGCHAN:Production
- ZHILIANG:Quality

PART

- FADONGJI:Engine
- LUNZI:Wheel
- LUOUANJIANG:Propeller
- NEISHI:Interior
- ZHUZHOU:Spindle

Name: MIPAI

CAR EQ-8888

Torque Unit: N.m Torque Target: 15,000

Wrench ID 13: IST-13W135A Tolerance: -10.0% 10.0%

FL 14.9 15 15.3

FR 14.9 15.6 14.4 14.9

RL 14.9 14 15.2 14.7

RR 15 14.9 14.7 15

Worker: Worker SHI

Sunny Wheels

1682n Western ave. Tel. 0800 555 888

chicago, illinois 60678 Tel. 0800 666 888

customer-defined format template
(load customer-defined EXCEL, associated tightening parameters through excel function)

- Access job template to create work orders and issue job assignments

enter the template number manually or by scanning the code

Job

Template

File

Query

Setting

05/20 19:46

New: 20250422001: Porsche Wheels
New: 20250422002: SHIMANO
New: 20250422003: BOSCH CAR
New: 20250422004: Qualification Statistics
New: 20250423002: Qualification Statistics +1
New: 20250423001: All Parameter Test
New: 20250423ceshi1111: 11111
New: 012345678905: Customization
New: 9787020050642: Fixed Format
New: 20250424: Universal Template

☒ Auto Switch

☒ Show Task

☒ Hide Finished

12° 37° 13° 13°
B 135 W 135 R 135 R 135

wrench online tip

- Work ordered job data storage, access, printing and exporting

Job

Template

File

Query

Setting

05/20 19:51

978702005064220250423001
91234567890520250423002
vudnorn2025060001
978702005064220250423001
01234567890520250423001
978702005064220250423004
01234567890520250423004
978702005064220250423002
01234567890520250423002
978702005064220250423002
01234567890520250423002
978702005064220250423001
01234567890520250423001
978702005064220250423001
01234567890520250423001
978702005064220250423001
01234567890520250423001
2025042420250424001
0111314820250424002
123456789020250424004
123456789020250424002
0111314820250424002
123456789020250424002
0111314820250424001
123456789020250424001

☒ Auto Switch

☒ Show Task

☐ Hide Finished

2025-04-01 08:00
2025-05-20 18:00

time frame for access

Name: MIPAI
CAR: 8888
Torque Unit: N.m Torque Target: 15,000
Wrench ID: 13:IST-13W135A Tolerance: -10, 0N 10, 0N
Worker: Parker SHI
Sunny Wheels
1688n. Western ave. Tel. 0800, 555, 888
chicago, illinois: 60676n. 0800, 666, 888

12° 37° 13° 13°
B 135 W 135 R 135 R 135

print

export excel

original job template format

Code:

Date Time From:
2025-04-01 00:00
Date Time To:
2025-05-20 23:59
Worker:
Tool:
Query
Export Excel
Copy Data To...
Remove Original

2025-04-01 00:00
2025-05-20 23:59

time frame for access

export excel

Code	Code	Name/No	Screw Des	Date Time	Target	Measured	S	R	I	J	K
58	20250423001	All Parameter Test	2025042300120250423001								
59		1 Airplane Propeller Test									
60											
61											
62											
63											
64											
65											
66											
67											
68											
69											
70											
71											
72											
73											
74											
75											
76											
77											
78	20250423002	Qualification Statistics	2025042300220250423001								
79		1 Wheel Screw#12									
80											
81											
82											
83											
84											
85											
86											
87											
88											
89											
90											
91											
92											

data processing format

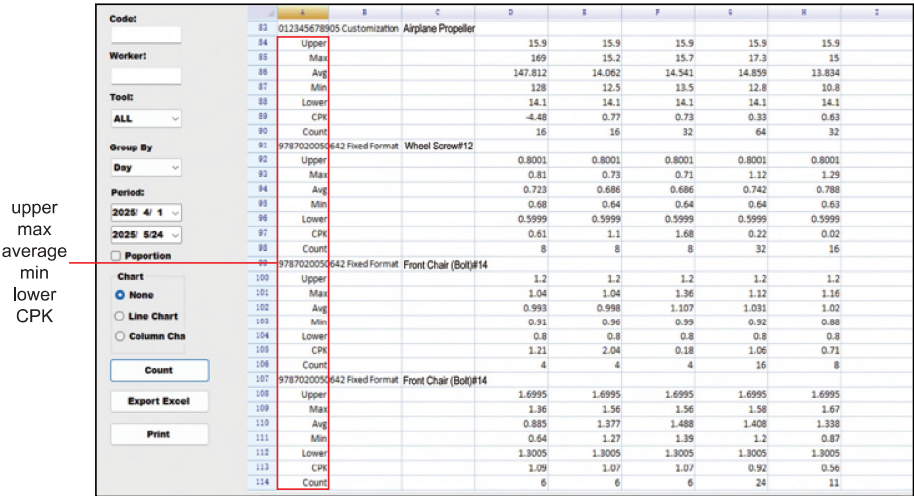
■ Data outside of job template

Unfiltered

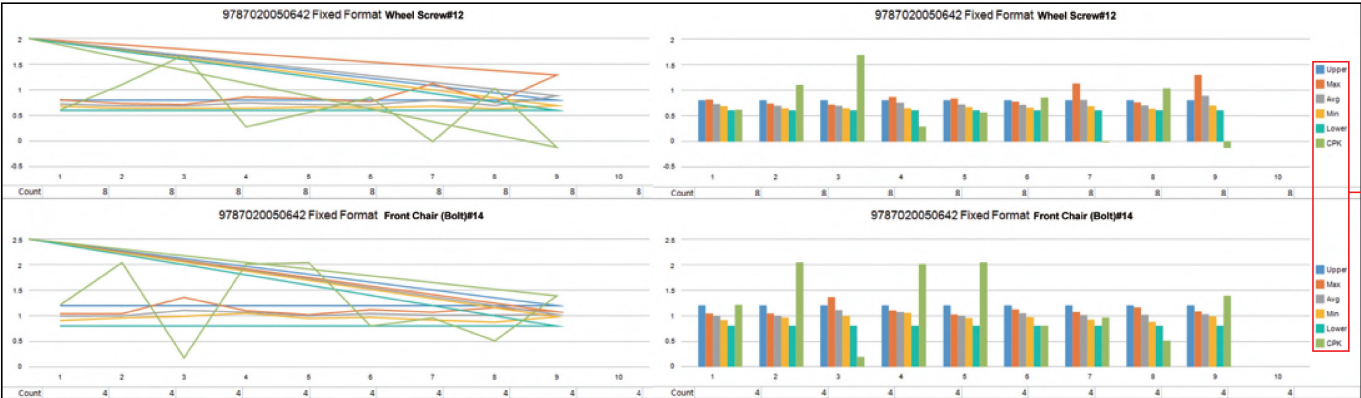
ID	#	Date Time	Measured	Target(Tolerance)
37	6	2025/05/06 09:13:49	65 kg.cm	150(-13.3%~13.3%)
12	3	2025/04/29 17:49:21	75 kg.cm	70(-14.3%~14.3%)
12	2	2025/04/29 17:49:15	69 kg.cm	70(-14.3%~14.3%)
12	1	2025/04/29 17:49:10	77 kg.cm	70(-14.3%~14.3%)
12	1	2025/04/24 16:35:57	81 kg.cm	70(-14.3%~14.3%)
37	1	2025/04/24 10:24:57	130 kg.cm	150(-13.3%~13.3%)
13	1	2025/04/24 10:24:53	106 kg.cm	100(-20%~20%)
12	1	2025/04/24 10:24:51	75 kg.cm	70(-14.3%~14.3%)
12	10	2025/04/24 10:14:25	7.8 N.m	7
12	9	2025/04/24 10:14:23	6.5 N.m	7
37	8	2025/04/24 10:14:13	10 N.m	10(-10%~10.6%)
37	7	2025/04/24 10:14:10	9 N.m	10(-10%~10.6%)
13	6	2025/04/24 10:13:53	6.9 N.m	6.8
13	5	2025/04/24 10:13:49	8 N.m	6.8

data outside of job template placed in unfiltered area

■ Data stability statistic



numerical statistic



line chart and bar chart statistic