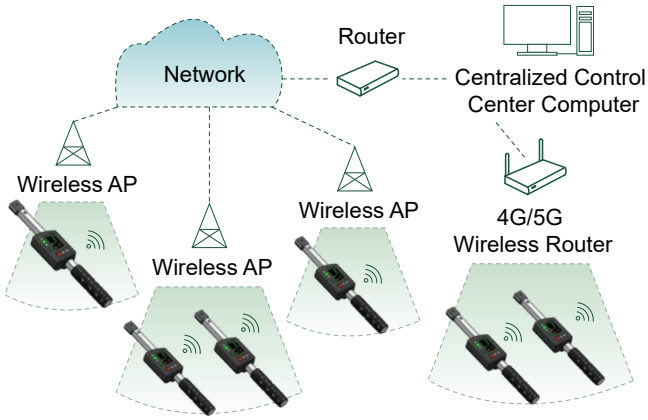
WPE_B(SN) Series WiFi Mechatronic Preset Torque Wrench System (with Color Screen & Scanner)

The WPE_B(SN) system is a smart torque solution combining WiFi mechatronic preset torque wrench (with Scanner) and centralized management software for Industry applications.

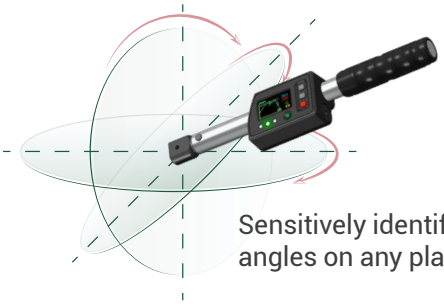
The system integrates versatile functions including WiFi connectivity, code scanning, color screen display, mechanical "Click", torque/angle measurement, force curve viewing and data storage.

- Under WiFi, the torque wrench and centralized control center can communicate in real-time, enabling control of 24 wrenches simultaneously.
- This system meets the bolt tightening quality control and torque data traceability needs of industries like automotive, high-speed rail, aerospace, energy, and machinery. It's an ideal choice for various manufacturing enterprises.
- For customers with development capabilities, the communication protocol can be opened. Users can make full use of the data collected by the tools to independently develop more management functions.



Main Features and Functions

- Torque Accuracy: CW±4% from 20% to 100% of capacity
- Angle Accuracy: (±1% of reading) + (±1° @ angular speed of 10°/s~180°/s) +(±1° of test fixture)
- **Color screen** display, clear view of parameters and tool information, facilitating the adjustment of the wrench's preset torque value according to the displayed figures.
- It retains the mechanical audible "Click" feedback, preserving workers' familiar operation habits.
- The torque is mechanically adjustable, and the angle range is system-configurable to prevent repeated tightening of the same screw.
- **Code Scanning Function**: The wrench is equipped with a built-in scanning module, enabling scanned data to be uploaded in real-time to the centralized control center along with the wrench operation data.
- **Angle Function**: Developed by a team of experts and professors, this function adopts a high-precision gyroscope chip, enabling sensitive angle recognition on any plane.



- **7 Torque units**: Nm, cNm, Kgm, Kgcm, Lbft, Lbin, Ozin
- **2 Judge modes**: Peak, First peak
- When the target torque value is reached, the wrench will make a "Click" sound, accompanied by LED light and buzzer alarms.
- Automatic zero reset during continuous use.
- After unloading, the peak value and judgment light status remain displayed, with the force application curve shown.
- Recent **force application curves** can be saved and viewed on the wrench.
- **2 Data upload (storage) methods**: Sequential upload, qualified upload.
- The wrench is equipped with a **built-in memory** and can store 1000 sets of data.
- Automatically shuts down after standby time, and the **standby time** can be set.
- **The menu language** on the wrench screen is switchable: Simplified/Traditional Chinese or English.
- Battery level is displayed on the screen.
- Featuring an 18650 high-capacity rechargeable lithium battery, it enables convenient USB-C charging on the wrench or quick replacement by charging the battery externally with a dedicated charger, eliminating downtime.

Centralized Control Center

- The torque wrench comes with Centralized Control Center software, which can collect and record the real-time data from **24 simultaneously working wrenches**.
- When the communication between the wrench and the server is interrupted, data will be automatically stored in the wrench memory. Once communication is restored, data will be automatically uploaded. Data can also be manually uploaded via the USB Update Software.
- There are two software programs for the centralized control center computer:

USB Update Software

- WiFi configuration
- Data upload upon communication interruption
- Parameter and function settings
- Wrench software upgrade

WiFi Server Software

- Real-time dashboards for 24 wrenches
- Automatic data collection and storage
- Live torque application curve viewing
- Remote standby time adjustment

WPEMH_B (SN) Model

Rectangular Shank Head Holder Torque Wrench

For rectangular shank head inserts

Metric

Item No.	Square Drive	Torque Range		Length L	Width W1	Width W2	Weight
		N.m	Lb.ft	mm	mm	mm	kg
WPEMH910B(SN)	9×12	2.0-10	17.7-88.5*	233	20	63.5	0.52
WPEMH920B(SN)	9×12	4.0-20	30-180*	248	24	63.5	0.55
WPEMH930B(SN)	9×12	6.0-30	50-250*	248	24	63.5	0.55
WPEMH960B(SN)	9×12	10-60	9-45	318	24	63.5	0.88
WPEMH9100B(SN)	9×12	20-100	15-75	362	24	63.5	1
WPEMH14200B(SN)	14×18	40-200	30-150	484	32	63.5	1.34
WPEMH14300B(SN)	14×18	60-300	40-225	619	32	63.5	1.7
WPEMH14400B(SN)	14×18	80-400	59-295	699	32	63.5	1.85
WPEMH24500B(SN)	24×32	100-500	73.8-369	925	56	63.5	3.2
WPEMH24600B(SN)	24×32	120-600	88.5-443	1060	56	63.5	4.5
WPEMH24800B(SN)	24×32	160-800	118-590	1208	56	63.5	5

* Unit is Lb.in.

Optional Fittings:

Note: Due to the product improvement, the technical parameters are subject to variation, please confirm with the supplier when placing an order.