



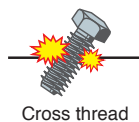
Advanced Fastening Features



Cross Thread Reduction

Two types of the programmable features to reduce cross thread.
Soft Start : Lower the no load speed to 100 rpm for a programmable time after trigger is pulled.

360° Reverse : 360° reverse rotation for thread alignment then rotate forward.



Retightening Prevention Function

This function prevents the tool from operating within a selected time period after it automatically stops from the torque control function. The switch will not operate even if engaged during this time period.



Variable Speed Control Function

Speed can be controlled by use of the trigger. Speed control function ON and OFF can be selected.



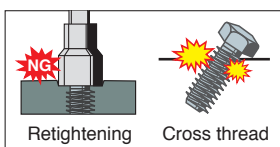
Snug Torque Detection Delay

The tool doesn't activate Snug Torque Detection mode and ignores loads in the middle of rundown for a selected time period.

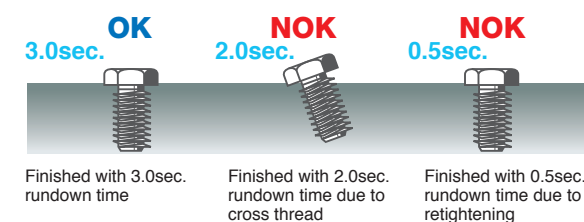


Rundown Error Detecting Function

If the clutch is activated before the programmable minimum runtime, the tool alerts the operator to a NOK fastening.
(Time setting: 0.1-3.0sec, 0.1sec per stage)



• Example with 3.0sec. normal time setting



Angle Error Shut-Off

Tool shuts off when the rundown exceeds its upper angle limit to prevent the material from damaged.



Disable Reverse

The tool is prevented from operating in reverse rotation when this function is ON.



Ignore Rundown Result before Snug

When this function is ON and tool stops before snug point due to trigger release, the rundown result isn't recorded.



Maintenance Interval Alarm

When the total fastening times (impact tools)/numbers (screwdrivers) are within 1 hours/10,000 fastenings of the preset maintenance interval, the display blinks notifying the operator. Once the tool reaches the preset interval, the tool is looked out from further use.
(Number of setting: 0-99 hours/0-990,000 fastenings)



Panasonic

Factory Use

Transducerized Mechanical Pulse Wrench

EYFMH1

EYFMH2

EYFNH1



Panasonic

Panasonic Corporation

1006, Kadoma, Osaka 571-8501, Japan

Due to ongoing product development specifications are subject to change without notice
Product colors may vary slightly from those pictured in catalog

Transducerized Mechanical Pulse Wrench achieves both fastening quality and work efficiency!



Torque and Angle Monitoring

Max. Shut-Off Torque
EYFMH: 120 N·m
NEW EYFNH: 220 N·m

Panasonic Unique Technologies for Mechanical Pulse Torque Sensing

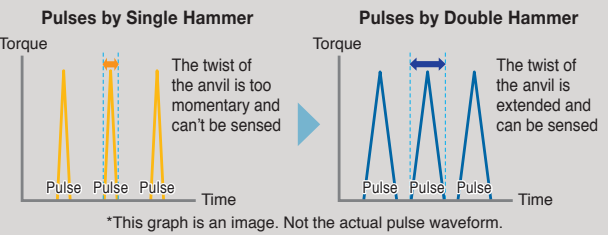
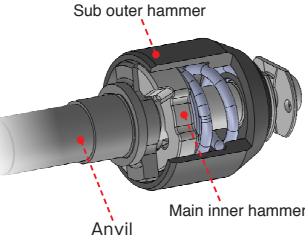
Unique High Sensitivity Torque Transducer

The transducer has high sensitivity to reliably measure the instantaneous torque at the pulses and high durability with non-contact structure which can't be worn out or damaged by the pulses.

*The transducer senses the torsional torque of the anvil.

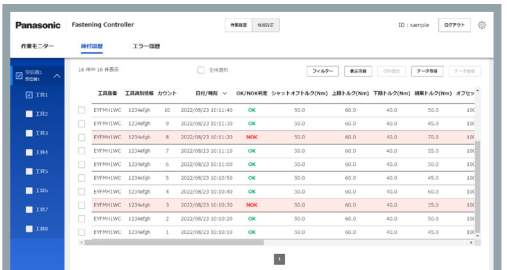
Unique Double Hammer with Optimum Pulse Behavior for Torque Sensing

Realize torque sensing with mechanical pulse tools by extending the twisting time of the anvil with continuous pulses of the main-hammer and sub-hammer.



Advanced Traceability Data Management

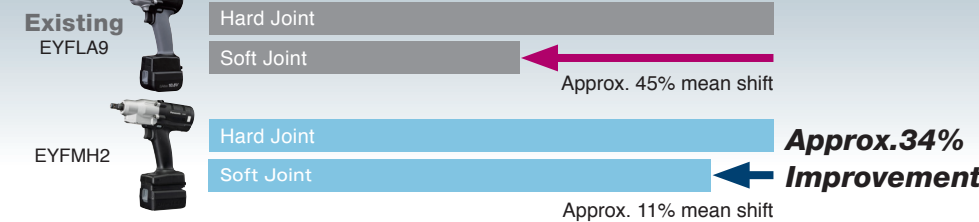
The tool can output torque value, angle value, fastening curve and other traceability data to PC · Tablet or your assembly management system.



Accurate Fastening Performance

Less Mean-Shift (Bolt size: M12 Target torque: 71Nm)

Mean-shift is reduced by the torque sensing. In addition, the tool can offset the mean-shift by its unique algorithm.



*The values in this chart were measured under Panasonic measuring condition and are provided only for reference purpose. Actual tightening torque may vary with ambient conditions.

Validation Data (Socket length: 40mm) (only for reference purpose)

Model	Joint	Socket length	Bolt Size	Target	1	2	3	4	5	26	27	28	29	30	Average	Accuracy
14.4V EYFMH2	Hard	40mm	M10	50Nm	50	52	51	53	51	51	52	52	49	50	51.8	5.3%
			M12	80Nm	81	82	83	83	82	84	83	80	82	83	81.2	7.1%
18V EYFNH1 New	Hard	40mm	M12	70Nm	72	73	76	75	76	71	70	72	73	75	72.0	9.6%
			M14	140Nm	138	139	137	142	145	144	138	135	142	133	137.6	8.0%
			M16	190Nm	199	191	182	188	192	194	187	191	184	191	190.2	7.3%

*The values in this chart were measured under Panasonic measuring condition and are provided only for reference purpose. Actual tightening torque may vary with ambient conditions.

High Work Efficiency and Low Running Cost

Up to 120Nm fastening with *1.85kg light weight body! Possible to use with one hand.
*with EYFB41 battery pack

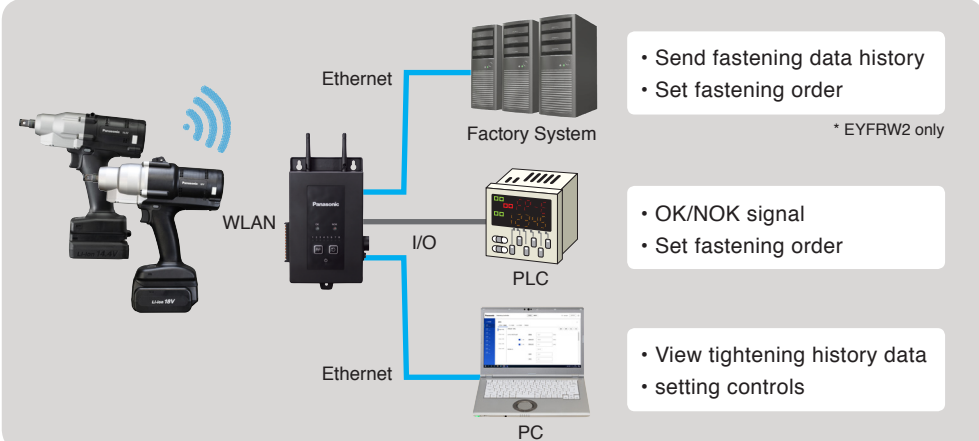
Powerful mechanical pulse for **speedy fastening even after snug!**
The tool can be used with confidence even in quick tack time.

No Need
The tool causes **no reaction** and doesn't require reaction arm.

No oil in the pulse block and no worry for interruption due to its overheat even in **continuous rundowns**

OIL No Need
Mechanical pulse block requires **no oil** change and can make stable torque.

System Diagram



*USB Type-C is a trademark of USB Implementers Forum.

More Features



Tightening Confirmation Lamp
Multiple lamps can be seen from various angles.



LED Light
For operations in dimly lit place.



Tool Hanger
The tool can be attached to the balancer in the appropriate direction for efficient assembly.




Color Plate for Differentiation
Each tool model is color coded for easy identification.











USB Connection
Easy connection with PC · tablet using "USB Type-C" on the tool.

14.4V Electronic Mechanical Pulse Wrench and Wireless Communication




Electronic Mechanical Pulse Wrench		
EYFMH1WC		EYFMH2WC
<div>14.4V</div> <div>Wireless Communication</div> <div></div> <div>4.0Ah 2.0Ah</div> <div>*Battery pack is not included</div> <div>Brushless Motor</div>		
Chuck / Anvil type	12.7mm Sq. drive Retainer ring and Pin-hole	
Application	M8 bolt (Tensile bolt) M10 bolt (Normal bolt)	M10 bolt (Tensile bolt) M12 bolt (Normal-Tensile bolt) M14 bolt (Normal bolt)
Shut-off range	20 ~ 60 Nm	50 ~ 120 Nm
No load speed (unit : rpm)	0 ~ 2,300 (Max. rpm is adjustable from 1,500 to 2,300 in 100 increments)	
Impact per minutes	0 ~ 2,700	0 ~ 2,600
Size	Weight*1 (inc. battery)	EYFB43B 2.05kg EYFB41B 1.8kg
	Length	215mm
	Height	246mm (EYFB41), 264mm (EYFB43)
Function	Width	61mm (Width of battery pack: 75mm)
	Torque result	✓
	Angle result	✓
	Fastening curve	✓
	Number of preset	Wireless Communication Mode: 5 (with EYFRW2), Standalone Mode: 1
	Data storage	✓ (Standalone Mode: approx. 45,000 history data can be stored in case of 1.2 sec. fastening work)
	Wireless communication	✓ (IEEE802.11a/b/g/n)
	USB connection	✓ (USB Type-C™)
	Advanced fastening features	✓ (For details of the feature, Please refer to page 7)
	Auto battery shutdown	✓
Work capacity / Fastening speed (approx.)	<M8: 23Nm> (EYFB43) (EYFB41) 940 pcs/pack 490 pcs/pack 0.5 sec/1pcs 0.5 sec/1pcs <M10: 43Nm> (EYFB43) (EYFB41) 670 pcs/pack 350 pcs/pack 0.7 sec/1pcs 0.7 sec/1pcs	
Charging time (approx.)	(Battery Pack EYFB43B, Charger EY0L82B) Usable Charge: 45min, Full Charge: 60min (Battery Pack EYFB41B, Charger EY0L82B) Usable Charge: 35min, Full Charge: 40min	

<Optional Accessory>	
14.4V Li-Ion Battery Pack EYFB43B, EYFB41B	
 <div>EYFB43B (4.0Ah)</div>  <div>EYFB41B (2.0Ah)</div>	
Charger EY0L82B	
	
Protector for Battery EYFA04-H (gray) EYFA06-H (gray)	
 <div>EYFA04 (for EYFB43B)</div>  <div>EYFA06 (for EYFB41B)</div>	
Tool Hanger EYFA40B	
	
USB cable (1m) EYFMH1XL701W	
	
Protector for Tool EYFA14 -A (blue), -Y (yellow) -H (gray), -D (orange) -G (green)	
	






3 ✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

18V Electronic Mechanical Pulse Wrench



Electronic Mechanical Pulse Wrench		
EYFNH1WC		
<div>18V</div> <div>Wireless Communication</div> <div></div> <div>5.0Ah</div> <div>*Battery pack is not included</div> <div>Brushless Motor</div>		
Chuck / Anvil type	12.7mm Sq. drive Retainer ring and Pin-hole	
Application	M12・M14 bolt (Tensile bolt) M16・M18 bolt (Normal bolt)	
Shut-off range	70-220 Nm	
No load speed (unit : rpm)	0-1,900 rpm (Max. rpm is adjustable from 1,300 to 1,900 in 100 rpm increments)	
Impact per minutes	0 ~ 2,400	
Size	Weight*1 (inc. battery)	EYFB50B 3.35kg
	Length	265mm
	Height	294mm (EYFB50)
Function	Width	76mm (Width of battery pack: 76mm)
	Torque result	✓
	Angle result	✓
	Fastening curve	✓
	Number of preset	Wireless Communication Mode: 5 (with EYFRW2), Standalone Mode: 1
	Data storage	✓ (Standalone Mode: approx. 45,000 history data can be stored in case of 1.2 sec. fastening work)
	Wireless communication	✓ (IEEE802.11a/b/g/n)
	USB connection	✓ (USB Type-C™)
	Advanced fastening features	✓ (For details of the feature, Please refer to page 7)
	Auto battery shutdown	✓
Work capacity / Fastening speed (approx.)	<M12: 100Nm> (EYFB50) approx. 500 pcs/pack approx. 1.0 sec/1pcs	
Charging time (approx.)	(Battery pack EYFB50B, Charger EY0L82B) Usable Charge: 65 min. Full Charge: 80 min	

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

<Optional Accessory>	
18V Li-Ion Battery Pack EYFB50B	
 <div>(5.0Ah)</div>	
Charger EY0L82B	
	
Protector for Battery EYFA10-H (gray)	
 <div>(for EYFB50B)</div>	
Tool Hanger EYFA41B	
	
USB cable (1m) EYFMH1XL701W	
	
Protector for Tool EYFA16 -A (blue), -Y (yellow) -H (gray), -D (orange) -G (green)	
	

4

WLAN Controller with Maximum 8 Tools Simultaneous Control Capability



Various Technologies for Stable Wireless Communication

Recommended range
approx **16m** 2.4GHz
Recommended range
approx **10m** 5GHz

- **Support both 2.4GHz and 5GHz frequency**
To avoid interference, the frequency can be selected according to the usage environment. There is also an auto channel function that automatically selects an empty channel.
- **High efficiency antenna design**
Stable communication performance is achieved by the highly efficient antenna design (average -5dBi) of the diversity antenna on the controller and the transmission module on the tool.
Demonstrates high performance with various tool positions and directions.
- **Safety function in case of communication disconnection**
Work history data can be backed up in the tool and resent to the controller even when communication is temporarily disconnected, allowing work to continue.
- **High security**
Communication data is encrypted and protected by TLS.

Setting and viewing from a web browser

Tool/controller settings and work history data viewing can be done from a web browser.
No software installation required on your PC.



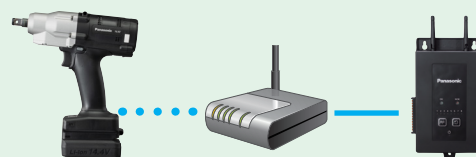
Maximum 8 tools simultaneous control

Simultaneously control the operations of up to 8 tools and collect work history data.



WLAN access point compatible

Supports communication via general WLAN access points.
Tools can be used regardless of where the controller is installed.



Compatible models: IEEE 802.11a/b/g/n compliant WLAN access points

Various control of tools is possible without external equipment

Batch	Job	Sequence
Continuous work with 1 tool and 1 torque setting 30Nm 30Nm 30Nm 30Nm Up to 5 batches can be registered for a tool	Continuous work with 1 tool and multiple torque settings Ex.1 Multiple fastening works with different target torques Ex.2 Multiple fastening works with different bolt lengths Ex.3 Mix of pre-fastening and final fastening 25Nm 20Nm 30Nm 40Nm Up to 10 steps (batches) can be set for a job Up to 5 jobs can be registered for a tool	Continuous work with multiple tools and multiple torque settings Ex.1 Multiple fastening works with multiple bolt sizes Ex.2 Multiple fastening works which can not be covered with a single tool torque range 1st tool: EYFMH1 (20-60Nm) 25Nm 20Nm 30Nm 40Nm 2nd tool: EYFMH2 (50-120Nm) 60Nm 70Nm 60Nm 100Nm Up to 10 steps (batches/jobs) can be set for a sequence Up to 5 sequences can be registered in a controller

Model	EYFRW2
Communication data	• OK/NOK • Torque value • Angle value • Fastening curve
Rated supply voltage	AC100-240V 50-60Hz
Communication method	WLAN (IEEE802.11a/b/g/n)
Frequency band	(European nations, Turkey, Malaysia, Indonesia, Thailand, South Korea, India) 2.412-2.472GHz / 5.180-5.240GHz (United States, Canada, China) 2.412-2.462GHz / 5.180-5.240GHz
Channel	(European nations, Turkey, Malaysia, Indonesia, Thailand, South Korea, India) 2.4GHz band: 1ch - 13ch / 5GHz band: 36,40,44,48ch (United States, Canada, China) 2.4GHz band: 1ch - 11ch / 5GHz band: 36,40,44,48Ch
Recommended range	2.4GHz band: *approx. 16m / 5GHz band: *approx. 10m
No. of connectable devices	Maximum 8 tools
Input/output terminal (I/O)	Input: 8 / Output: 8
Power consumption	approx. 30W
Dimensions (L x H x W)	approx. 239mm x approx. 150mm x approx. 41mm (Height including antenna: approx. 281mm)
Weight	550g (Main body only)
Communication interface	• Ethernet x 2 • USB-A x 1 • RS232C x 1
Communication protocol	OpenProtocol
Data storage	Approx. 200,000 history data (Including fastening curve)
Optional accessory	• Controller stand • AC adapter
Compatible tools	EYFMH1WC, EYFMH2WC, EYFNH1WC

* Communication range varies with operating environment.
The presence of metal walls, people, or other objects may result in decreased range.

<Optional Accessory>

Controller stand
EYFRW1F7001



AC adapter
(EU, TUR, THA, IDN)
EYFRW1K7652
(GBR, MYS)
EYFRW1K7653
(CHN)
EYFRW1K7654
(KOR)
EYFRW1K7655
(IND)
EYFRW1K7656

