Panasonic

Factory Use

Factory Tool Lineup

2021/2022

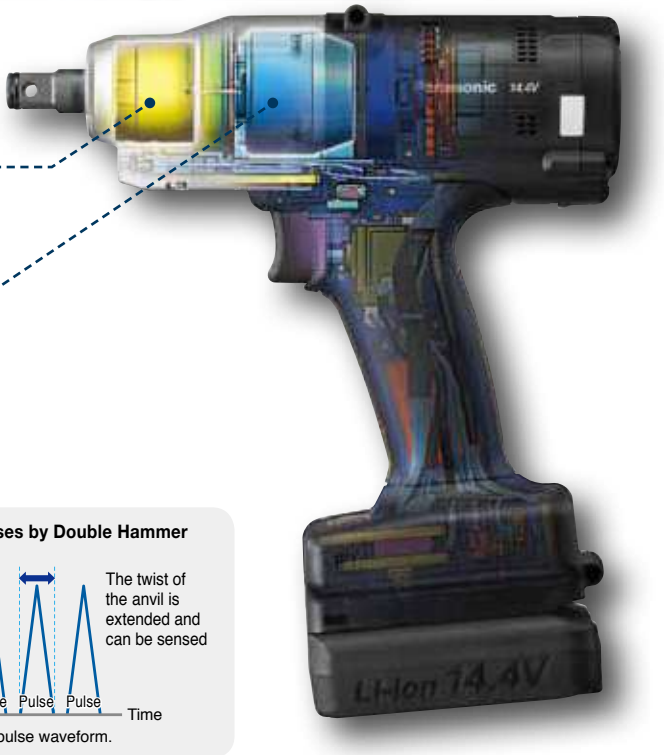
AccuPulse4.0 Transducerized

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

Torque and Angle Monitoring

Max. Shut-Off Torque 120 N•m

Panasonic Unique Technologies for Mechanical Pulse Torque Sensing



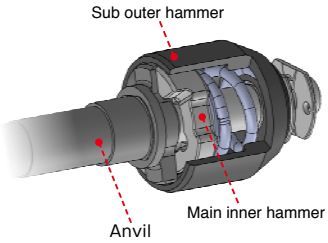
Unique High Sensitivity Torque Transducer

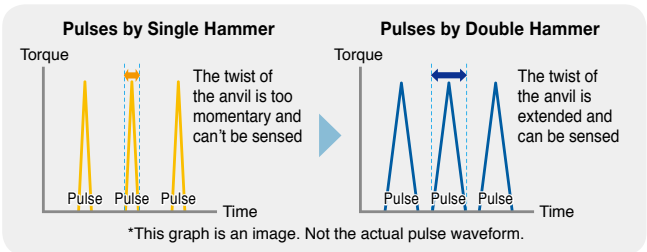
The transducer has high sensitivity to reliably measure the instantaneous torque at the pulses and high durability with non-contact structure which can't be worn out or damaged by the pulses.

*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.

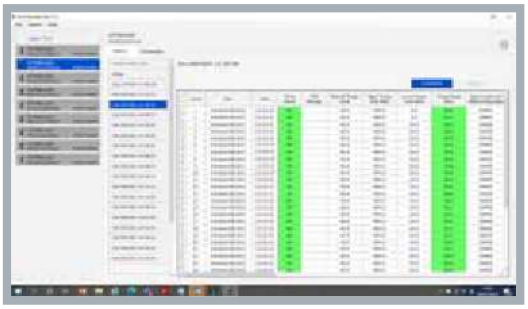


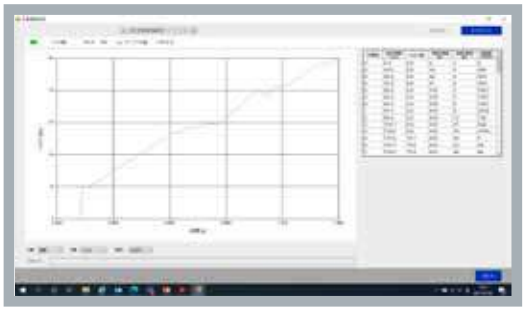


*This graph is an image. Not the actual pulse waveform.

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.

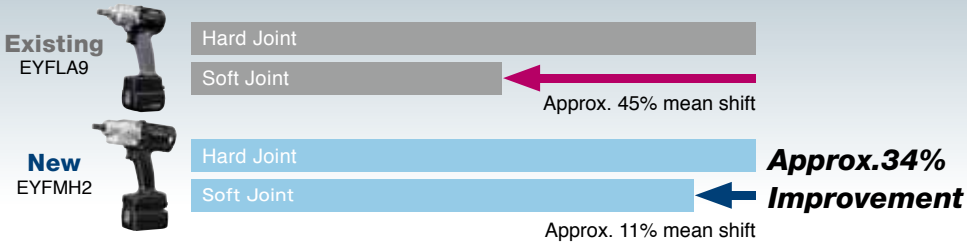




Accurate Fastening Performance

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 algorism.



*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.

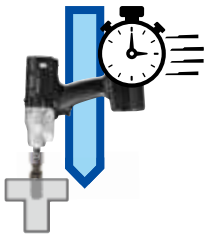
Validation Data (only for reference purpose) Model number: EYFMH2

Bolt Size	Target	Joint Type	1	2	3	4	5		26	27	28	29	30	Average	Accuracy
M10	50 Nm	Hard Joint	50.4	51.5	50.8	52.8	51.2	~	50.6	52.0	52.4	49.3	50.3	51.8	5.3%
		Soft Joint	51.4	50.2	49.0	49.4	50.0		50.4	52.0	51.2	52.2	49.0	49.9	7.2%
M12	80 Nm	Hard Joint	81.0	82.0	83.0	83.0	82.0		84.0	83.0	80.0	82.0	83.0	81.2	7.1%
		Soft Joint	81.0	81.0	84.0	81.0	80.0		83.0	81.0	78.0	82.0	82.0	81.0	7.4%
M14	120 Nm	Hard Joint	119.0	116.0	116.0	119.0	119.0		123.0	120.0	120.0	117.0	119.0	119.3	4.0%
		Soft Joint	121.0	120.0	115.0	126.0	127.0		123.0	120.0	125.0	124.0	123.0	122.7	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

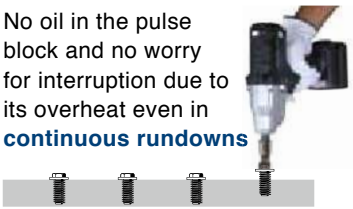
Up to 120Nm fastening with *1.85kg light weight body! Possible to use with one hand.
*with EYFB41 battery pack



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

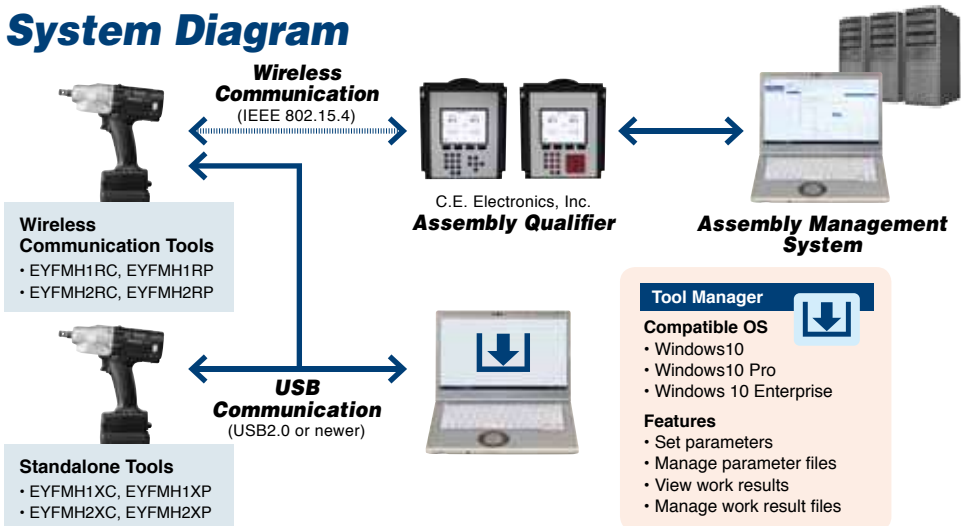
The tool causes **no reaction** and doesn't require reaction arm.

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



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.

Horizontal hanging

Upside down hanging

Tool Hanger
The tool can be hanged on the balancer both and upside down.

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

USB Connection
Easy connection with PC・tablet using “USB Type-C” on the tool.

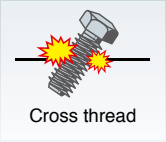
Various Support Features

Various Support Features

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.


Cross thread

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

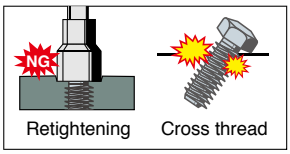
Speed can be controlled by use of the trigger. Speed control function ON and OFF can be selected by remote.

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

Finished with 3.0sec. rundown time

Finished with 2.0sec. rundown time due to cross thread

Finished with 0.5sec. rundown time due to retightening

Auto Downshift Function

After a programmable period of time, the rpm automatically downshifts to 300 rpm.
This can reduce the fasteners impact to the material, maximizing operator's productivity.


Product damage

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)

Long Socket Mode

RPM can be adjusted depending on socket length to stabilize torque even with long socket. (h1: for 150mm socket, h2: for 250mm socket)

Features Chart

		Model																																	
		AccuPulse4.0 Transducerized				AccuPulse								Mechanical Pulse												Precision Clutch Tools									
		EYFMH1RC/1RP	EYFMH2RC/2RP	EYFMH1XC/1XP	EYFMH2XC/2XP	EYFLA7AR	EYFLA8AR/8CR/8PR	EYFLA9CR/9PR	EYFMA2CR/2PR	EYFLA7A	EYFLA8A/8C/8P	EYFLA9C/9P	EYFMA2C/2P	EYFLA4AR	EYFLA5AR/5PR/5QR	EYFLA6JR/6PR	EYFMA1JR/1PR	EYFLA4A	EYFLA5A/5P/5Q	EYFLA6J/6P	EYFMA1J/1P	EYFNA1CRT/1JRT/1PRT	EYFPA1JRT	EYFNA1C/1J/1P	EYFPA1J	EYFGA1NR	EYFGA2NR	EYFGA3NR	EYFGA1N	EYFGA2N	EYFGA3N	EYFGB1N	EYFGB2N	EYFGB3N
Wireless communication	OK・NOK result	●	●			●	●	●	●					●	●	●	●					●	●			●	●	●						
	Torque result	●	●																															
	Angle result	●	●																															
	Fastening curve	●	●																															
	Auto parameter change	●	●			●	●	●	●													●	●											
	Out of range disable function	●	●			●	●	●	●					●	●	●	●					●	●			●	●	●						
Data storage	OK・NOK result	●	●	●	●																													
	Torque result	●	●	●	●																													
	Angle result	●	●	●	●																													
	Fastening curve	●	●	●	●																													
Cross thread reduction	Soft start	●	●	●	●																													
	360°reverse	●	●	●	●	●	●	●	●	●	●	●	●									●	●	●	●	●	●	●	●	●	●			
Rundown error detection		●	●	●	●	●	●	●	●	●	●	●	●									●	●	●	●	●	●	●	●	●	●			
Retightening prevention		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●													
Disable reverse		●	●	●	●																													
Variable speed control		●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●			
Snug torque detection delay		●	●	●	●	●	●	●	●	●	●	●	●																					
Angle error shit-off		●	●	●	●																													
Ignore rundown result before snug		●	●	●	●																													
Auto downshift function																										●	●	●	●	●	●			
Long socket mode						●	●	●	●	●	●	●	●																					
Maintenance interval alarm		●	●	●	●	●	●	●	●	●	●	●	●									●	●	●	●	●	●	●	●	●	●			

* There are models limited to particular region.

* Variable speed control function: Models with "○" don't have ON/OFF setting.

14.4V Electronic Mechanical Pulse Wrench and Wireless Communication

	Electronic Mechanical Pulse Wrench (Wireless Communication)			
	EYFMH1RC	EYFMH1RP	EYFMH2RC	EYFMH2RP
	14.4V Wireless Communication Brushless Motor		14.4V Wireless Communication Brushless Motor	
	 4.0Ah 2.0Ah *Battery pack is not included		 4.0Ah 2.0Ah *Battery pack is not included	
Chuck size	□ 12.7mm Square Drive C: Retainer ring and Pin-hole type P: Pid-detent type		□ 12.7mm Square Drive C: Retainer ring and Pin-hole type P: Pid-detent type	
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	approx. 20-60 Nm (Setting range: 10-70 Nm)		approx. 50-120 Nm (Setting range: 30-140 Nm)	
No load speed (unit: rpm)	0-2,300 rpm (Max. rpm is adjustable from 1,500 to 2,300 in 100 rpm increments)		0-2,300 rpm (Max. rpm is adjustable from 1,500 to 2,300 in 100 rpm increments)	
Impact per minutes	0 ~ 2,700		0 ~ 2,600	
Weight*1 (inc. battery) EYFB43B	approx. 2.1kg			
Weight*1 (inc. battery) EYFB41B	approx. 1.85kg			
Size: Length	approx. 215mm			
Size: Height	approx. 246mm (EYFB41), approx. 264mm (EYFB43)			
Size: Width	approx. 61mm (Width of battery pack: approx. 75mm)			
Function: Torque result	●			
Function: Angle result	●			
Function: Fastening curve	●			
Function: Number of preset	Standalone Mode: 1			
Function: Data storage	● (Standalone Mode: approx. 45,000 history data can be stored in case of 1.2 sec. fastening work)			
Function: Wireless communication	● (IEEE 802.15.4)			
Function: USB connection	● (USB Type-C™)			
Function: Advanced fastening features	● (For details of the feature, Please refer to page XXX)			
Function: Auto battery shutdown	●			
Work capacity / Fastening speed	<M8: 23Nm> (EYFB43) approx. 940 pcs/pack approx. 0.5 sec/1pcs (EYFB41) approx. 490 pcs/pack approx. 0.5 sec/1pcs <M10: 43Nm> (EYFB43) approx. 670 pcs/pack approx. 0.7 sec/1pcs/ (EYFB41) approx. 350 pcs/pack approx. 0.7 sec/1pcs	<M8: 23Nm> (EYFB43) approx. 940 pcs/pack approx. 0.5 sec/1pcs (EYFB41) approx. 490 pcs/pack approx. 0.5 sec/1pcs <M10: 43Nm> (EYFB43) approx. 670 pcs/pack approx. 0.7 sec/1pcs/ (EYFB41) approx. 350 pcs/pack approx. 0.7 sec/1pcs	<M12: 71Nm> (EYFB43) approx. 450 pcs/pack approx. 0.9 sec/1pcs (EYFB41) approx. 230 pcs/pack approx. 0.9 pcs/pack	<M12: 71Nm> (EYFB43) approx. 450 pcs/pack approx. 0.9 sec/1pcs (EYFB41) approx. 230 pcs/pack approx. 0.9 pcs/pack
Charging time	(Battery Pack EYFB41B, Charger EY0L82B) Usable Charge: approx. 35min, Full Charge: approx. 40min (Battery Pack EYFB43B, Charger EY0L82B) Usable Charge: approx. 45min, Full Charge: approx. 60min			

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

14.4V Electronic Mechanical Pulse Wrench

Electronic Mechanical Pulse Wrench (Standalone)			
EYFMH1XC	**EYFMH1XP**	**EYFMH2XC**	**EYFMH2XP**
14.4V Brushless Motor  4.0Ah 2.0Ah *Battery pack is not included		14.4V Brushless Motor  4.0Ah 2.0Ah *Battery pack is not included	
□ 12.7mm Square Drive C: Retainer ring and Pin-hole type P: Pid-detent type		□ 12.7mm Square Drive C: Retainer ring and Pin-hole type P: Pid-detent type	
M8 bolt (Tensile bolt) M10 bolt (Normal bolt)		M10 bolt (Tensile bolt) M12 bolt (Normal-Tensile bolt) M14 bolt (Normal bolt)	
approx. 20-60 Nm (Setting range: 10-70 Nm)		approx. 50-120 Nm (Setting range: 30-140 Nm)	
0-2,300 rpm (Max. rpm is adjustable from 1,500 to 2,300 in 100 rpm increments)		0-2,300 rpm (Max. rpm is adjustable from 1,500 to 2,300 in 100 rpm increments)	
0 ~ 2,700		0 ~ 2,600	
approx. 2.1kg			
approx. 1.85kg			
approx. 215mm			
approx. 246mm (EYFB41), approx. 264mm (EYFB43)			
approx. 61mm (Width of battery pack: approx. 75mm)			
●			
●			
●			
Standalone Mode: 1 Wireless Communication Mode: Depends on qualifier specification			
● (Standalone Mode: approx. 45,000 history data can be stored in case of 1.2 sec. fastening work)			
–			
● (USB Type-C™)			
● (For details of the feature, Please refer to page XXX)			
●			
<M8: 23Nm> (EYFB43) approx. 940 pcs/pack approx. 0.5 sec/1pcs (EYFB41) approx. 490 pcs/pack approx. 0.5 sec/1pcs <M10: 43Nm> (EYFB43) approx. 670 pcs/pack approx. 0.7 sec/1pcs/ (EYFB41) approx. 350 pcs/pack approx. 0.7 sec/1pcs	<M8: 23Nm> (EYFB43) approx. 940 pcs/pack approx. 0.5 sec/1pcs (EYFB41) approx. 490 pcs/pack approx. 0.5 sec/1pcs <M10: 43Nm> (EYFB43) approx. 670 pcs/pack approx. 0.7 sec/1pcs/ (EYFB41) approx. 350 pcs/pack approx. 0.7 sec/1pcs	<M12: 71Nm> (EYFB43) approx. 450 pcs/pack approx. 0.9 sec/1pcs (EYFB41) approx. 230 pcs/pack approx. 0.9 pcs/pack	<M12: 71Nm> (EYFB43) approx. 450 pcs/pack approx. 0.9 sec/1pcs (EYFB41) approx. 230 pcs/pack approx. 0.9 pcs/pack
(Battery Pack EYFB41B, Charger EY0L82B) Usable Charge: approx. 35min, Full Charge: approx. 40min (Battery Pack EYFB43B, Charger EY0L82B) Usable Charge: approx. 45min, Full Charge: approx. 60min			

<Optional Accessory>

14.4V Li-Ion Battery Pack
EYFB43B, EYFB41B

EYFB43B (4.0Ah)

EYFB41B (2.0Ah)

Charger
EY0L82B

Protector for Batteryl
EYFA04-H (gray)
EYFA06-H (gray)

EYFA04 (forEYFB43B)

EYFA06 (for EYFB41B)

Tool Hanger
EYFA40

USB cable (1m)
EYFMH1XL701W

Protector for Tool
EYFA14
-A (blue), -Y (yellow)
-H (gray), -D (orange)
-G (green)

Panasonic

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