

Panasonic



ACCUPULSE HT 4.0
TRANSDUCERIZED

Panasonic EYFMH series was awarded
"Product of the Year" in the Fastening Solutions
category for New Product Awards at the 2022
ASSEMBLY Show in Rosemont, IL, USA.



NEW
PRODUCT
Awards
WINNER

ACCUPULSE 4.0
TRANSDUCERIZED

AccuPulse 4.0 & AccuPulse 4.0 HT

Transducerized Mechanical Pulse Tool
achieves both fastening quality and work efficiency



Torque and
Angle Monitoring

Max. Shut-Off Torque
220 Nm

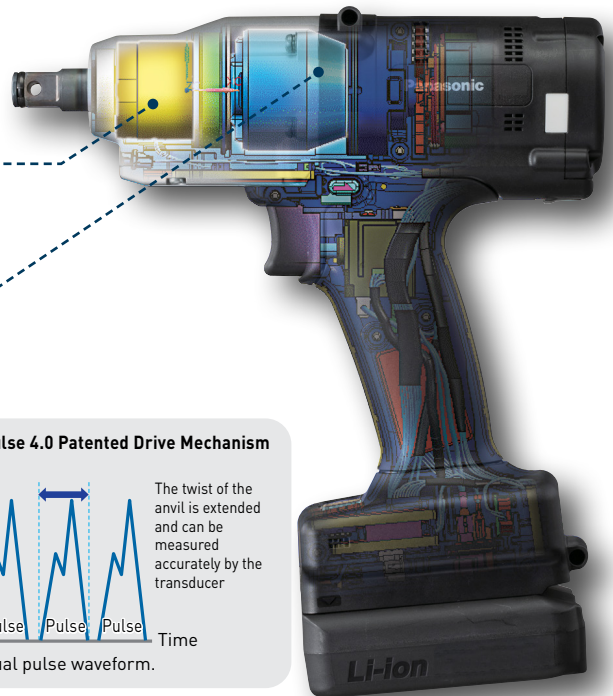
Panasonic Unique Technologies for Mechanical Pulse Torque Sensing

Unique High Sensitivity Torque Transducer

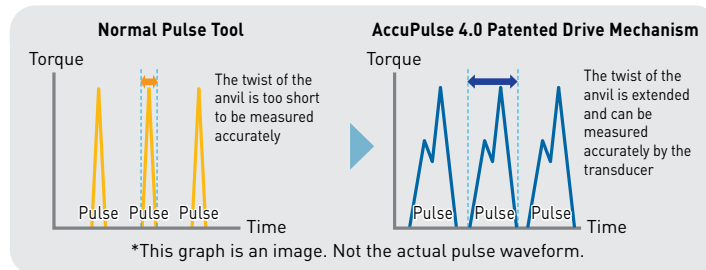
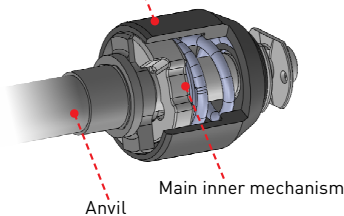
The transducer can reliably measure torque during pulsing with a non-contact design resulting in high durability of the sensor block.

Unique Drive Mechanism with Optimum Pulse Behavior for Torque Sensing

Our patented drive mechanism makes it possible to measure the pulses with a transducer.

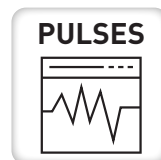


Sub outer mechanism



Advanced Traceability Data Management

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



2-WAY
COMMUNICATION



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.

Current
EYFLA9



Hard Joint

Soft Joint

Approx. 45% mean shift

EYFMH2



Hard Joint



Soft Joint

Approx. 11% mean shift

Approx. 34% Improvement

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

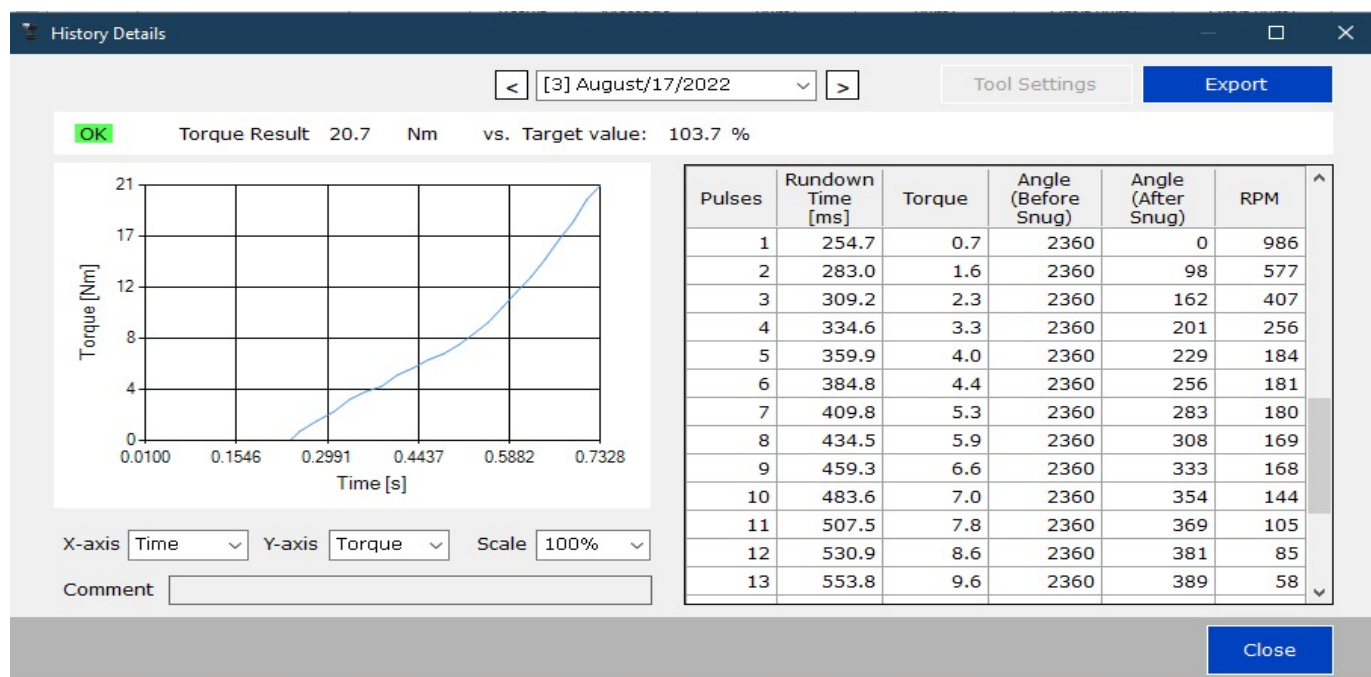
Validation Data (Socket length: 40mm) (only for reference purpose)

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%

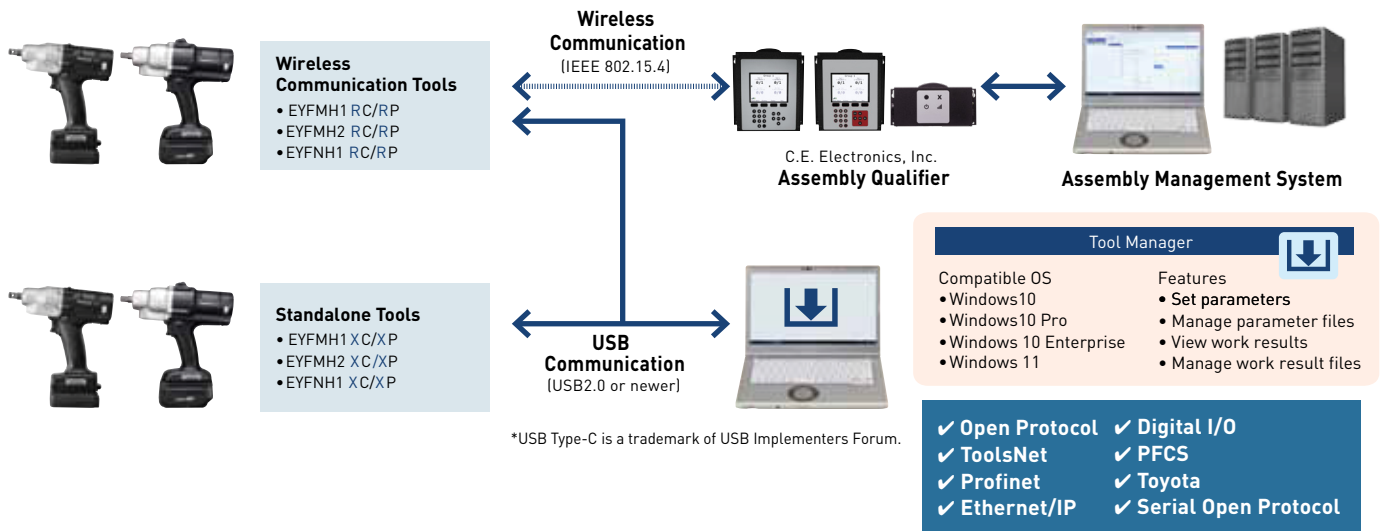
*The values in this chart were measured under Panasonic measuring conditions, and are provided only for reference purpose. Actual tightening torque may vary with ambient conditions.

Tool Manager Data

Tool Manager provides the operator the ability to view history rundown data, like the fastening curve and pulses.



System Diagram



Additional Features



Tightening Confirmation Lamp

Multiple lamps can be seen from various angles.



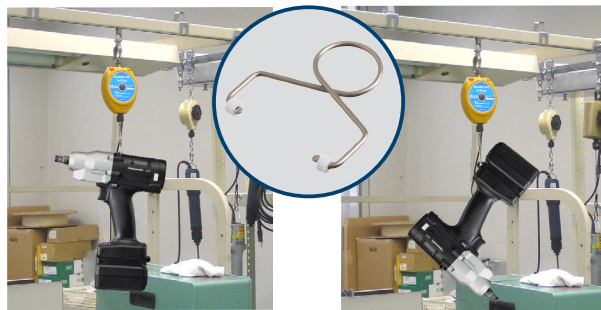
LED Light

For operations in dimly lit places.



USB Connection

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



Horizontal hanging

Upside down hanging

Tool Hanger

The tool can be hung on the balancer both horizontal and upside down.



Color Plate for Differentiation

Each tool model is color coded for easy identification.

Various Support 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



Angle Error Shut-Off

Tool reports NOK and EA when the rundown exceeds its upper angle limit to prevent the material from being damaged.



Disable Reverse

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



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. (Time setting: 0.1-3.0 sec)



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.



Variable Speed Control Function

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



Maintenance Interval Alarm (Pulse Time)

This alarm counts the pulsing time that has been accumulated since the tool started to be used, and reminds you of maintenance timing. When you have 1 hour or less to go before the set time, the control panel display will give you a warning. [Setting value 0 hours to 99 hours]



Snug Torque Detection Delay

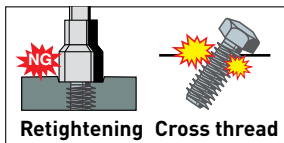
The tool doesn't activate Snug Torque Detection mode and ignores loads in the middle of rundown for a selected time period. (Time setting: 0.1-3.0 sec)



Rundown Error Detecting Function

If the tool is activated before the programmable minimum runtime, the tool alerts the operator to a NOK fastening.

(Time setting: 0.1-3.0 sec, 0.1sec per stage)



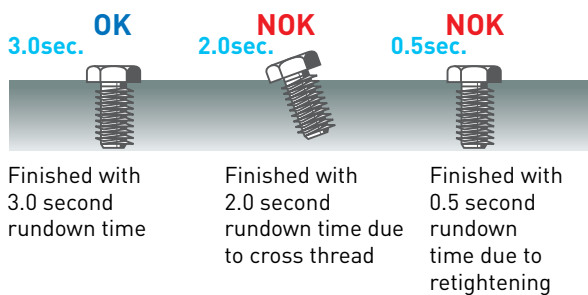
Retightening Cross thread



Socket Extension Length

Three different socket extension length to choose from. (40mm 1.5 inch, 150mm 6 inch, 250mm 10 inch). You are able to change it during the Torque Offset Procedure.

Example with 3.0sec. normal time setting


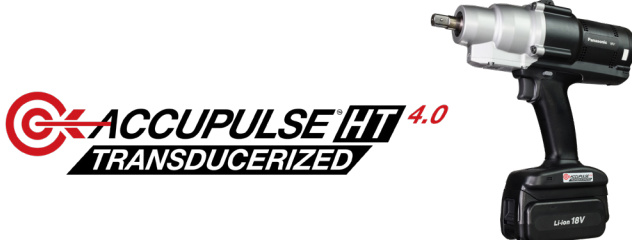


Features Chart

AccuPulse 4.0 Transducerized



		EYFMH1RC	EYFMH1RP	EYFMH1XC	EYFMH1XP	EYFMH2RC	
Drive		C = 1/2" Square Drive with Ring Retainer and Through Hole	P = 1/2" Square Drive Pin Detent	C = 1/2" Square Drive with Ring Retainer and Through Hole	P = 1/2" Square Drive Pin Detent	C = 1/2" Square Drive with Ring Retainer and Through Hole	
Voltage		14.4V					
Transducer							
Recommended application		M8 bolt (Tensile bolt) M10 bolt (Normal bolt)					
Recommended Torque Range (Hard joint, Short socket 40mm)		20-60 Nm (Setting range: 10-70 Nm)					
No Load Speed (unit: rpm)		0-2,300 rpm (Max. rpm is adjustable from 1,500 to 2,300 in 100 rpm increments)					
Pulses Per Minutes		0-2,700					
Weight		4.08 lbs (2.0Ah EYFB41B) 4.63 lbs (4.0Ah EYFB43B)					
Size (LxHxW)		8-15/32" x 9-11/16" x 2-13/32" (EYFB41B) 8-15/32" x 10-13/32" x 2-13/32" (EYFB43B)					
Function	Torque Result						
	Angle Result						
	Fastening Curve						
	Auto Battery Shutdown						
	Parameters	Standalone Mode: 1, Wireless Communication Mode: Depends on controller		Standalone Mode: 1		Standalone Mode: 1, Wireless Communication Mode: Depends on controller	
	Data Storage						
	Wireless Communication	IEEE 802.15.4 (Wireless Communication)		-		IEEE 802.15.4 (Wireless Communication)	
	Programming	Programmable with included Tool Manager software on any Window PC					
	USB Connection						
	Advanced Fastening Features						
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.					
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					

				AccuPulse HT 4.0 Transducerized			
							
	EYFMH2RP	EYFMH2XC	EYFMH2XP	EYFNH1RC	EYFNH1RP	EYFNH1XC	EYFNH1XP
	P = 1/2" Square Drive Pin Detent	C = 1/2" Square Drive with Ring Retainer and Through Hole	P = 1/2" Square Drive Pin Detent	C= 1/2" Square Drive with Retainer Ring and Through Hole	P = 1/2" Square Drive Pin Detent	C = 1/2" Square Drive with Retainer Ring and Through Hole	P = 1/2" Square Drive Pin Detent
				18V			
Highly Durable Magnetostrictive Non-Contact Transducer							
M10 bolt (Tensile bolt) M12 bolt (Normal bolt)				M12 bolt (Tensile bolt) M14 bolt (Tensile bolt) M16 bolt (Normal bolt) M18 bolt (Normal bolt)			
50-80 Nm (Setting range: 30-140 Nm)				70-220 Nm (Setting range: 50-250 Nm)			
				0-1,900 rpm (Max. rpm is adjustable from 1,300 to 1,900 in 100 rpm increments)			
0-2,600				0-2,400			
				7.39 lbs (5.0 Ah EYFB50B) 6.94 lbs (3.0 Ah EYFB51B)			
				10-7/16" x 11-37/64" x 2-63/64" (EYFB50B) 10-7/16" x 10-61/64" x 2-63/64" (EYFB51B)			
✓							
✓							
✓							
✓							
	Standalone Mode: 1		Standalone Mode: 1, Wireless Communication Mode: Depends on controller		Standalone Mode: 1		
Standalone Mode: approx. 45,000 history data can be stored in case of 1.2 sec. fastening work							
	-		IEEE 802.15.4 (Wireless Communication)		-		
USB Type-C™							
For more information, Please refer to Owner's Manual/Catalog							
<M12: 71Nm> (EYFB43) approx. 450 pcs./pack approx. 0.9 sec/1pcs. (EYFB41) approx. 230 pcs./pack approx. 0.9 pcs./1pcs.				<M12: 100Nm> (EYFB50B) approx. 500 pcs./pack approx. 1.0 sec/1pcs. (EYFB51B) approx. 300 pcs./pack approx. 1.0 sec/1pcs.			
				(Battery pack EYFB50B, Charger EY0L82B) Usable Charge: approx. 65 min Full Charge: approx. 80 min (Battery pack EYFB51B, Charger EY0L82B) Usable Charge: approx. 45 min Full Charge: approx. 60 min			

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Design and specifications subject to change without notice.

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