

Assembly Tools

Bringing Innovation to the Assembly Line







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Assembly Tools

AccuPulse® HR Series



EYFLA7A/R 10.8V, 3-22Nm



EYFLA8A/R 10.8V, 6-30Nm



EYFLA8P/R 10.8V, 6-30Nm

Mechanical Pulse



EYFLA4A/R 10.8V, 3-22Nm



EYFLA5A/R 10.8V, 6-30Nm



EYFLA5B 10.8V, 6-30Nm

High Torque Mechanical Pulse



EYFNA1J 18V, 70-200Nm



EYFPA1J 21.6V, 160-650Nm

Programmable Clutch



EYFGA1A 14.4V, 2-5.5Nm



EYFGA2A 14.4V, 5-8Nm



EYFGA3A 14.4V, 5-10Nm

Stationary Transducers



EYFST22NM 3/8" Square Drive



EYFST100NM 1/2" Square Drive



EYFST750NM 3/4" Square Drive

Product Lineup



EYFLA9C/R 10.8V, 20-60Nm



EYFLA9P/R 10.8V, 20-60Nm



EYFMA2C/R 14.4V, 25-120Nm



EYFMA2P/R 14.4V, 25-120Nm



EYFLA5Q/R 10.8V, 6-30Nm



EYFLA6J/R 10.8V, 16-53Nm



EYFLA6B 10.8V, 16-53Nm



EYFMA1J/R 14.4V, 25-100Nm



EYFMA1B 14.4V, 25-100Nm



EYFME1C 14.4V, 10-53Nm

Assembly Qualifiers



EYFR02Single Tool Qualifier



EYFR03 Multi-Tool Qualifier



EYFR04Multi-Station Qualifier

Wireless Programmable Clutch



EYFGA1AR 14.4V, 2-5.5Nm



EYFGA2AR 14.4V, 5-8Nm



EYFGA3AR 14.4V, 5-10Nm

Low Torque Clutch





Panasonic Cordless Assembly Tools

Bringing Innovation to the Assembly Line

Benefits

Electronic Sensing System









1. Over-discharge Prevention Sensor

Prevents over-discharge to avoid cell damage or recharge problems

2. Battery Overheat Protection Sensor

Cuts off power to the motor before the battery temperature rises



3. Monitoring of Battery Cell Voltage

Each cell is monitored by a sensor to ensure optimal charge/discharge control

4. Battery Sensor

Flashing lamp indicates overheating battery. Battery is automatically reactivated when temperature drops.



Special Ceramic Coating Layer

5. Heat Resistance Layer Technology

In cases where separator is damaged and abnormal heat is created, HRL acts to contain this heat, just like a firewall

6. Li-Ni Technology

Panasonic-developed Lithium Nickel Oxide chemistry offers the benefits of lower internal resistance, reduced electrical loss, lower temperatures in battery cells deliver longer battery life

Safer Work Environment

Improved Ergonomics

Lightweight, mobile and compact without awkward hoses and fittings adding weight

Eliminate Trip Hazards

Removes dangerous air hoses providing a clear work area

Improved Air Quality

Eliminates airborne oily residue emitted from air tools

Durable Long-life Components

Long-life Clutch

All steel clutch for increased durability in EYFG tools

Mechanical Pulse Unit

Long lasting, low maintenance impulse mechanism in EYFL/M/P tools

Brushless Motor

Energy-efficient, maintenance-free, nearly doubles the life of the tool

Hybrid Switch

Carries <.5 amp, about doubles the life of the switch

Manufacturing Costs

Energy Savings

Cordless tools use 99% less energy than air tools

Improved Quality

Increases accuracy by eliminating air pressure fluctuations

Ease of Installation

Complete freedom in assembly area design

Less Maintenance

Eliminates the need for maintaining oilers

Less Tool Downtime

Recovers from power outages within seconds

Precision Clutch Tools

Ergonomic, Accurate & Repeatable

Standard Features

- High accuracy ±10% at cmk≥1.67 VDI/VDE2647
- · Fast-acting, all-steel clutch for increased durability
- Photo interrupter sensor increases clutch life and tool accuracy
- Brushless motor and hybrid switch can double tool life expectancy
- 60 setting stages setting for precise clutch adjustment
- Tamper-resistant clutch selection for increased output quality
- Programmable version for increased versatility**
- Wireless programmable version for error proofing and data collection***



Programmable Clutch Tools**



Wireless Programmable Clutch
Tools***

Programmable "Quick Set" Features

Speed Control

Adjustable speed in 10 rpm increments to exactly match the application.

Cross Thread Reduction

The tool first reverses 360 degrees, aligning the threads, greatly reducing the possibility of cross threads.

Cross Thread / Rehit Detection

If the clutch is activated before the programmable minimum runtime, the tool stops the fastening process and signals a NOK fastening.

Auto Downshift

After a programmable period of time, the rpm automatically downshifts to 300 rpm maximizing operator productivity.

Variable Speed Control

Enables variable speed or single speed trigger operation.

Enable / Disable Capable

Remotely enable/disable tools when needed with qualifier + radio tool combination.

Out of Range / Anti-Theft

When enabled, the tool will not function if taken out of the wireless range of the qualifier

Maintenance Interval Alarm

Defined in 10,000 increment cycles to notify the operator of upcoming scheduled maintenance.



LED Light

Program LED to turn on with trigger switch or on/off switch to match operator preference.

Buzzer

The buzzer can be programmed for OK, NOK or Disabled.

Precision Clutch Tools

Ergonomic, Accurate & Repeatable



Complete Clutch Tool Line-up Covers a Wide Range of Applications

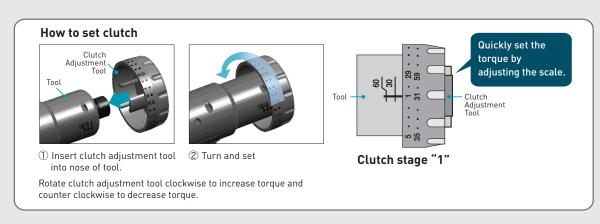


Programmable Clutch Tools



Wireless Programmable Clutch Tools

60 Stage Adjustable Clutch



Advanced Fastening Features

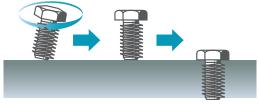


Cross Thread Reduction



The tool first reverses 360°, aligning the threads, greatly reducing the possibility of cross threads.

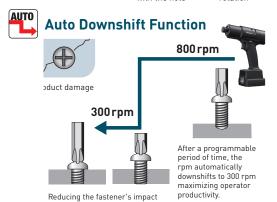
Reverse Rotation!



before fastening

threads are aligned with the hole

Automatically shifting to normal rotation



Cross Thread / Rehit Detection





If clutch is activated before the programmable minimum runtime, tool stops the fastening process and signals a NOK fastening.

• Example with 3.0 sec. time setting



Finished with 3.0 sec. rundown time

Finished with 2.0 sec. rundown time due to cross thread

Finished with 0.5 sec. rundown time due to retightening



Maintenance Interval Alarm

The maintenance interval alarm can be set ON or OFF and is defined in 10,000 increment cycles.

When total fastenings are within 10,000 fastenings of the preset maintenance interval, the display blinks notifying operator. Once tool reaches the preset interval, tool is locked out from further use.



Variable Speed Control Function

Enables variable speed or single speed trigger operation.



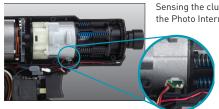
Auto Battery Shut Down

Before the battery power becomes too low to maintain torque, it shuts down the tool and notifies the operator by blinking the LED indicator until a charged battery pack is attached. Standard on all Precision Clutch Tools.

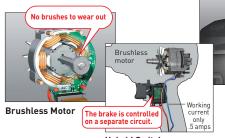
Durable Design

on the material.

Photo Interrupter Sensor Increases Clutch Life and Tool Accuracy



Sensing the clutch plate movement, the Photo Interrupter Sensor increases clutch life and tool accuracy, not relying on mechanical contacts that wear.





Floating Connect

Additional Features



Compact and Lightweight A well balanced compact and lightweight design



Program LED to turn on with the trigger switch or ON/OFF switch to match operator preference

Remote Control Tool settings can be adjusted only by remote control





Lightweight 2.0Ah Battery (EYFB41B) or Extended Run Time 4.2Ah Battery (EYFB42B) Available



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



Tool Hanger

Cordless Precision Clutch Tools

	MODE	EL	EYFGA1A	EYFGA2A	EYFGA3A										
	Voltag	ρ.	14.4V	14.4V	14.4V										
	Series		14041	Programmable Clutch	(404)										
	Accura	су	±10%• Cmk 1.67 (*Compliant wit	th VDI/VDE 2647. Measured with the I	Max RPM setting)(*In 3Nm range)										
	Drive			A = 1/4" Hex Quick Change											
Clutch	Torquo	Nm	2-5.5 Nm	5-8 Nm	5-10 Nm										
Ctutch	Torque	in. lbs.	17.7 - 48.6 in.lbs	44.2 - 88.5 in.lbs											
Clutch Setting Stage			1 - 60, Total 60 stages (Approx. 0.08 Nm per stage)												
	No Load S	peed	0-800 rpm	0-750 rpm	0-450 rpm										
Wei	aht	EYFB41B (2.0 Ah)	1.25 kg	1.25 kg	1.3 kg										
wei	giit	EYFB42B (4.2 Ah)	1.5 kg	1.5 kg	1.55 kg										
Size (L	vUvW)	EYFB41B (2.0 Ah)	199 mm x 232 mm x 54 mm (Width of battery pack: 75 mm)												
312e (L	ANAW)	EYFB42B (4.2 Ah)	199 mm x 2	49 mm x 54 mm (Width of battery pa	ck: 75 mm)										
Wire	less Commu Assembly Q		-	_	-										
LED V	Vork Light (0	n/Off Switch)	V	V	V										
OK/NOK	Light (Green	: OK/ Red: NOK)	✓	✓	·										
Rehit	Prevention (f	ixed to 0.7sec)	V	~	V										
Batter	y Indication L	.amp: (3 stage)	V	~	V										
	Low Power I	Disable	V	<i>V</i>	~										
Prevent/I	Detect Cross	Threads & Rehits	V	~	✓										
Mair	ntenance Inte	erval Alarm	V	V	V										
Varia	ble Speed Or	/ Off Switch	✓	~	✓										
(On / C	LED Light S Off or On with	etting pull of switch)	V	~	V										
	EVED/1D	Hard Joint 30°	1200 pcs/pack 1.1 sec./1pcs (M6: 5.5 N·m)	1050 pcs/pack 1.0 sec./1pcs (M6: 8 N·m)	1100 pcs/pack 1.0 sec./1pcs (M6: 10 N·m)										
Work	EYFB41B	Soft Joint 720°	540 pcs/pack 1.3 sec./1pcs (M6: 5.5 N·m)	410 pcs/pack 1.3 sec./1pcs (M6: 8 N·m)	310 pcs/pack 1.4 sec./1pcs (M6: 10 N·m)										
Capacity*	EYFB42B	Hard Joint 30°	2700 pcs/pack 1.1 sec./1pcs (M6: 5.5 N·m)	2350 pcs/pack 1.0 sec./1pcs (M6: 8 N·m)	2500 pcs/pack 1.0 sec./1pcs (M6: 10 N·m)										
	EIFD42D	Soft Joint 720°	1250 pcs/pack 1.3 sec./1pcs (M6: 5.5 N·m)	1000 pcs/pack 1.3 sec./1pcs (M6: 8 N·m)	730 pcs/pack 1.4 sec./1pcs (M6: 10 N·m)										
Chargin	n Time*	EYFB41B	Usable Charge: 35min. / Full Charge: 40min												
Chargin	y inne	EYFB42B	Usa	able Charge: 50min. / Full Charge: 60r	min										

Note: *Approximately

EYFGA1AR	EYFGA2AR	EYFGA3AR
14.4V	14.4V	14.4V
+10% • Cmk 1 47 (*Comp	Wireless Programmable Clutch liant with VDE/VDI 2647. Measured with the Max RPM	setting (*In 3 Nm range)
210 % OHK 1.07 (OHH)	A = 1/4" Hex Quick Change	setting, (in a trim range,
2-5.5 Nm	5-8 Nm	5-10 Nm
17.7 - 48.6 in.lbs	44.2 - 70.8 in.lbs	44.2 - 88.5 in.lbs
	1 - 60, Total 60 stages (Approx. 0.08 Nm per stage)	
0-800 rpm	0-750 rpm	0-450 rpm
1.25 kg	1.25 kg	1.3 kg
1.5 kg	1.5 kg	1.55 kg
199	7 mm x 232 mm x 54 mm (Width of battery pack: 75 m	nm)
199	7 mm x 249 mm x 54 mm (Width of battery pack: 75 m	nm)
OK Fasten=Green light NOK Fasten=Red light	OK Fasten=Green light NOK Fasten=Red light	OK Fasten=Green light NOK Fasten=Red light
<i>v</i>	V	V
V	V	V
V	V	V
V	~	V
V	~	V
V	V	V
·	V	V
V	V	V
V	V	V
1200 pcs/pack 1.1 sec./1pcs (M6: 5.5 N·m)	1050 pcs/pack 1.0 sec./1pcs (M6: 8 N·m)	1100 pcs/pack 1.0 sec./1pcs (M6: 10 N·m)
540 pcs/pack 1.3 sec./1pcs (M6: 5.5 N·m)	410 pcs/pack 1.3 sec./1pcs (M6: 8 N·m)	310 pcs/pack 1.4 sec./1pcs (M6: 10 N·m)
2700 pcs/pack 1.1 sec./1pcs (M6: 5.5 N·m)	2350 pcs/pack 1.0 sec./1pcs (M6: 8 N·m)	2500 pcs/pack 1.0 sec./1pcs (M6: 10 N·m)
1250 pcs/pack 1.3 sec./1pcs (M6: 5.5 N·m)	1000 pcs/pack 1.3 sec./1pcs (M6: 8 N·m)	730 pcs/pack 1.4 sec./1pcs (M6: 10 N·m)
	Usable Charge: 35min. / Full Charge: 40min	
	Usable Charge: 50min. / Full Charge: 60min	

7.2V

Cordless Low Torque Clutch Tool and Driver Kit

Voltage		7.2V							
Drive		1/4" Hex Quick Change							
	Nm	High: 2.0 Nm / Low: 6.0 Nm							
Torque Range	ft. lbs.	High: 1.47 ft. lbs / Low: 4.43 in. lbs							
	in. lbs.	High: 17.7 in. lbs / Low: 53.1 in. lbs							
No Load Spe (Torque Setting		High: 0-900 rpm Low: 0-300 rpm							
Clutch Torq (approx.)		High: 0.3 N·m-2.0 N·m (stage 1-10, 0.19 N·m per stage) Low: 0.3 N·m-4.0 N·m (stage 1-21, 0.19 N·m per stage)							
Weight (incl. ba	attery)	630 g							
Size (L x W x	(H)	145 mm x 198 mm x 42 mm							
Max. Screws D	riving	High mode: M4 screw Low mode: M5 screw							
Features		Auto Shut-Off Function Auto Power-Stop Function LED Light Clutch & H/L switch lock cover Electronic brake							
Working Cap (Fastening		Screws in Sheet Metal (M2.5 x 6mm) High: Approx.1900 pcs Screws in Sheet Metal (M4 x 10mm) High: Approx.1850 pcs Screws in Sheet Metal (M5 x 8mm) Low: Approx.1450 pcs							
Charging Ti	me	Usable: 35 minutes, Full: 60 minutes (Battery pack EY9L20, charger EY0L20)							



EYFEA1N:

Battery pack and battery charger not included.

TYPICAL APPLICATIONS

- Electricians
- Electronics assembly
- Rack/cabinet installers
- Production/assembly work
- Service engineers



Cordless Screwdriver with Torque Control

3.6

Ooratess serewariver	with forque controt
Voltage	3.6V
Drive	1/4" Hex Quick Change
Torque Range	High: 1.5 Nm Low: 4.4 Nm
No Load Speed (Torque Setting: RPM)	High: 0-600 rpm Low: 0-200 rpm
Clutch Torque (approx.)	0.3-2.9 N·m (0.1 N·m per stage, total 21 stage)
Weight (incl. battery)	0.5 kg
Size (L x W x H)	276 mm x 134 mm x 46 mm
Charging Time	Usable: 15 minutes, Full: 30 minutes (using EY0L11B charger)
Features	Cap for clutch lock out LED work light 30 min. charging system (Full charge)
Working Capacity (Fastening)	Fastening: Wood Screws in Yellow Pine ø3.1 x 13 mm 600 pcs Screws in Sheet Metal (pre-hole) M5 x 8 mm 1,000 pcs Drilling: Holes in SPC t=1 mm, ø2 85 pcs
Standard Accessory	2 x 1.5VAh Li-ion Battery Pack (EY9L10B) Charger (EY0L11B) Clutch lock cover



EY7410LA2S:

Lightweight and accurate* ±10% Li-ion Auto Shut-Off Screwdriver

*Based on internal measurement





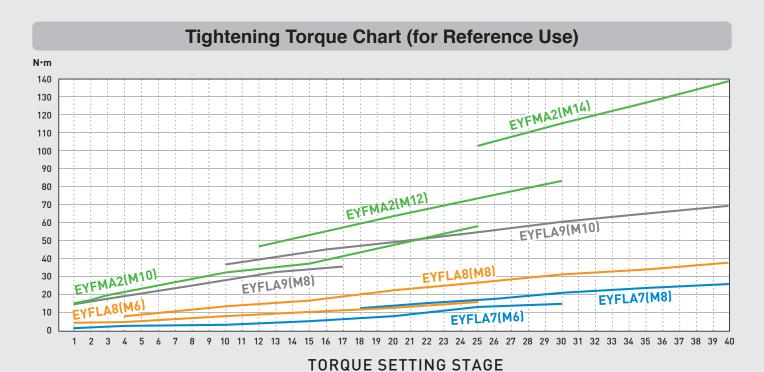




Advanced Features

		MODEL																					
		M	1ech	ani	cal F	Puls	е	Γ		jh Toro anical	que Pulse	AccuPulse											
	EYFLA4A	EYFLA5A/B/Q	EYFLA6B/J	EYFMA1J/B	EYFLA4AR	EYFLA5AR/QR	EYFLA6JR	EYFMA1JR	EYFME1C	EYNA1J	EYFPA1J	EYFLA7A	EYFLA8A/P/C	EYFLA9P/C	EYFMA2P/C	EYFLA7AR	EYFLA8AR/PR/CR	EYFLA9PR/CR	EYFMA2PR/CR				
2-Way Radio Communication (only with EYFR03)																•	•	•	•				
1-Way Radio Communication					•	•	•	•								•	•	•	•				
Cross Thread Reduction									•	•	•	•	•	•	•	•	•	•	•				
Cross Thread /Rehit Detection									•	•	•	•	•	•	•	•	•	•	•				
Rehit Prevention	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
Variable Speed Control Function	0	0	0	0	0	0	0	0	•	•	•	•	•	•	•	•	•	•	•				
Maintenance Interval Alarm									•	•	•	•	•	•	•	•	•	•	•				
Flush Detection Delay												•	•	•	•	•	•	•	•				
Socket Extension Mode												•	•	•	•	•	•	•	•				
Out-of-Range Disable Function					•	•	•	•								•	•	•	•				

Some models limited to particular region. Variable speed control function: Models with " \bigcirc " don't have ON/OFF setting.



The values illustrated on this chart were measured under Panasonic measuring conditions and are provided for reference purposes. Actual tightening torque varies with ambient conditions (the particular bolt being tightened, hardware being used, method of holding the bolt in place, etc.).

Advanced Programmable Features

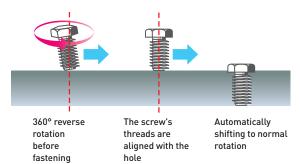


Cross Thread Reduction

The tool first reverses 540 degrees, aligning the threads, greatly reducing the possibility of cross threads.



Reverse Rotation!





Cross Thread / **Rehit Detection**

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



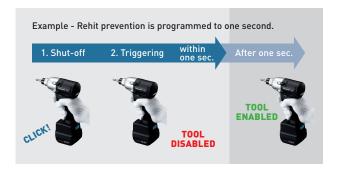
• Example with 3.0sec. normal time setting





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.





Maintenance Interval Alarm

When the total fastening times are within 10,000 of the preset maintenance interval, the display blinks notifying the operator. Once tool reaches the preset interval, tool is locked out from further use. This function can be set to ON or OFF and is defined in 10,000 increment cycles.

(Number of settings: 0-990,000 pcs)



Flush Detection Delay

This feature delays Flush Torque Detection mode and ignores loads for a selected time period.



Socket Extension Mode

This feature adjusts tool's RPM during pulsing to improve accuracy when using an extension.

AccuPulse HR Technology

High-Efficiency, Double Hammer Design*



New high efficiency twin hammer design delivers high power while reducing tool size, noise, vibration for reduced operator fatigue



*Double Hammer Design in EYFLA9/EYFMA2

AccuPulse Advanced Technology

1 High Resolution Encoder

Senses motor rotation angle precisely and detects flush point accurately.

2 7-Stage Snug Point Detection Mode

L1-L7 Flush Point Detection enables accurate fastening on a variety of joints.

3 Consistent Pulse Control

The power of each pulse is kept consistent regardless of remaining battery capacity, minimizing variation in torque.

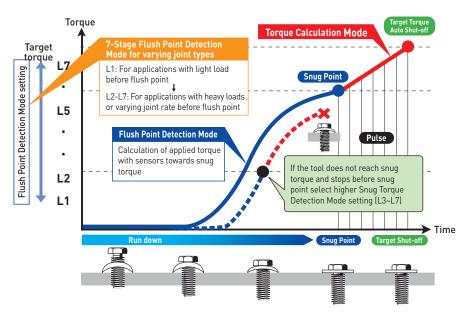






280 unique torque controlled algorithms - 40 stages in each mode L1 - L7.

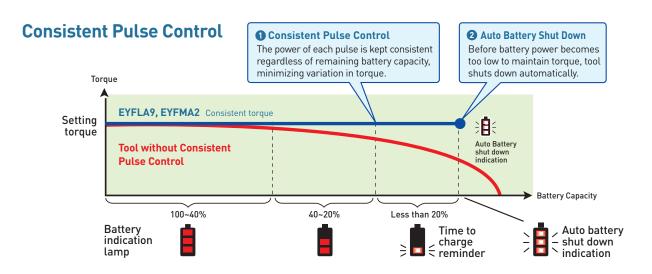
AccuPulse HR Technology



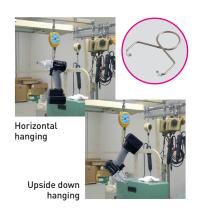
Flush Point: The point where the head of the fastener meets the material.

Snug Point: The point where materials are pulled together completely and torque calculation mode begins.

*Example - L6 Flush detection mode setting



More Features



Tool Hanger

Tool can be hung on the balancer both right side up or upside down.



Tightening Confirmation Lamp Green light indicates tightening



Needle Bearings

Needle bearings on the output shaft reduce vibration and increase tool life.



LED LightFor operation in dimly lit places.



Remote Control Tool setting can be set only by remote







Color Plate for Differentiation

Each tool model is color coded for easy indentification.

AccuPulse® HR Series

MODELS		EYFLA7A	EYFLA8A / EYFLA8C / EYFLA8P	EYFLA9C / EYFLA9P	EYFMA2C / EYFMA2P			
			8.81	Jun Staff				
Voltage		10.8V	10.8V	10.8V	14.4V			
Series			AccuPulse - HR Series		AccuPulse - HR Series			
Drive		A = 1/4" Hex Quick Change	A = 1/4" Hex Quick Change C = 3/8" Sq. C-Ring w/ through Hole P = 3/8" Sq. Pin Detent	C = 1/2" Sq. C-Ring w/ through Hole P = 1/2" Sq. Pin Detent	C = 1/2" Sq. C-Ring w/ through Hole P = 1/2" Sq. Pin Detent			
	Nm	3-22Nm	6-30Nm	20-60Nm	25-120Nm			
Torque Range	ft. lbs.	2.2-16.2 ft. lbs.	4.4-22 ft. lbs.	14.75-44.25 ft. lbs	18.44-92.2 ft. lbs			
	in. lbs.	26.55-194.72 in. lbs	53.1-265.52 in. lbs.	177.01-531.04 in. lbs	221.27-1,106.34 in. lbs.			
Max Torque* (F mode, tighte		35Nm M10 Bolt	80m M14 Bolt	120Nm M14 Bolt	185Nm M16 Bolt			
Flush Detection Mo	des	L1 - L7	L1 - L7	L1 - L7	L1 - L7			
No Load Speed (Torque Set	tting: RPM)	1: 0 - 950 2: 0 - 1250 3: 0 - 1450 4 - 8: 0 - 1550 9 - 40 & F: 0 - 2300	1: 0 - 1300 2: 0 - 1450 3: 0 - 1550 4 - 40 & F: 0 - 2300	1-40 & F: 0-2300	1-40 & F: 0-2300			
PPM (Pulses Per Min)		1: 0 - 1900 2: 0 - 2500 3: 0 - 2800 4-8: 0 - 3000 9-30 & F: 0 - 4000	1: 0-2500 2: 0-2800 3: 0-3000 4-30 & F: 0-3600	1-40 & F: 0-2800	1-40 & F: 0-2900			
Weight		1,15 kg (incl. 2.0 Ah (EYFB32B)) 1,35 kg (incl. 3.0 Ah (EYFB30B))	1,15 kg (incl. 2.0 Ah (EYFB32B)) 1,35 kg (incl. 3.0 Ah (EYFB30B))	1,30 kg (incl. 2.0 Ah (EYFB32B)) 1,45 kg (incl. 3.0 Ah (EYFB30B))	1,40 kg (incl. 2.0 Ah (EYFB41B)) 1,60 kg (incl. 4.2 Ah (EYFB42B))			
Size (L x W x H)		153mmx59mmx231mm (EYFB32) 153mmx59mmx249mm (EYFB30)	153mmx59mmx231mm (EYFB32) 153mmx59mmx249mm (EYFB30)	153mmx59mmx231mm (EYFB32) 153mmx59mmx249mm (EYFB30)	153mmx59mmx231mm (EYFB32) 153mmx59mmx249mm (EYFB30)			
Wireless Communica with Assembly Quali		-	-	-	_			
LED Work Light: (ON/OFF	Switch)	~	V	~	<i>V</i>			
OK/NOK Light: (Green: OK /	Red: NOK)	V	V	v	V			
Rehit Prevention: (Possible to set per 0.1 sec. betw		~	✓	~	~			
Battery Indication Lamp:	(3 stage)	V	V	V	V			
Low Power Disabl	le	V	V	V	V			
Prevent / Detect Cross Threa	ds & Rehits	V	V	V	V			
Maintenance Interval	Alarm	V	V	V	V			
Variable Speed On / Off	Switch	V	V	v	V			
Variable Speed On / Off	Switch	~	V	~	~			
Buzzer: On / Off		V	V	V	v			
Flush Point Detection Delay set between 0-3 sec 0.1 sec		V	V	V	V			
Socket Extension M (h1:150mm socket, h2: for 250		~	V	~	V			
Work Capacity / Fastenin	g Speed*	<m6: 10="" 22="" n·m,="" stage:=""> (EYFB30B) 1200 pcs/pack 0.7 sec/1pcs (EYFB32B) 800 pcs/pack 0.7 sec/1pcs</m6:>	<m8: 22="" 23="" n·m,="" stage:=""> (EYFB30B) 800pcs/pack 0.8sec/1pcs (EYFB32B) 540 pcs/pack 0.8 sec/1pcs</m8:>	<m10: 23="" 43="" n·m,="" stage:=""> (EYFB30B) 400 pcs/pack, 0.8 sec/1pcs (EYFB32B) 260 pcs/pack, 0.8 sec/1pcs</m10:>	<m12: 22="" 71="" n·m,="" stage:=""> (EYFB42B) 600 pcs/pack, 0.8 sec/1pcs (EYFB41B) 270 pcs/pack, 0.8 sec/1pcs</m12:>			
Charging Time*			arger EY0L82B) Usable charge: 3 arger EY0L82B) Usable Charge: 3		[Battery Pack EYFB41, Charger EY0L82B] Usable Charge: 35min., Full Charge: 40min (Battery Pack EYFB42, Charger EY0L82B) Usable Charge: 50min., Full Charge: 60min			





EYFLA7AR	EYFLA8AR / EYFLA8PR / EY- FLA8CR	EYFLA9CR / EYFLA9PR	EYFMA2CR / EYFMA2PR
	M.FF	20 0.87	
10.8V	10.8V	10.8V	14.4V
	AccuPulse - HR Series wi	th 2-Way Communication	
A = 1/4" Hex Quick Change	A = 1/4" Hex Quick Change C = 3/8" Sq. C-Ring w/ through Hole P = 3/8" Sq. Pin Detent	C = 1/2" Sq. C-Ring w/ through Hole P = 1/2" Sq. Pin Detent	C = 1/2" Sq. C-Ring w/ through Hole P = 1/2" Sq. Pin Detent
3-22Nm	6-30Nm	20-60Nm	25-120Nm
2.2-16.2 ft. lbs.	4.4-22 ft. lbs.	14.75-44.25 ft. lbs	18.44-92.2 ft. lbs
26.55-194.72 in. lbs	53.1-265.52 in. lbs.	177.01-531.04 in. lbs	221.27-1,106.34 in. lbs.
35Nm M10 Bolt	80m M14 Bolt	120Nm M14 Bolt	185Nm M14 Bolt
L1 - L7	L1 - L7	L1 - L7	L1 - L7
1: 0 – 950 2: 0 – 1250 3: 0 – 1450 4 – 8: 0 – 1550 9 – 40 & F: 0 – 2300	1: 0 - 1300 2: 0 - 1450 3: 0 - 1550 4 - 40 & F: 0 - 2300	1-40 & F: 0-2300	1-40 & F: 0-2300
1: 0 - 1900 2: 0 - 2500 3: 0 - 2800 4-8: 0 - 3000 9-30 & F: 0 - 4000	1: 0-2500 2: 0-2800 3: 0-3000 4-30 & F: 0-3600	1-40 & F: 0-2800	1-40 & F: 0-2900
1,15 kg (incl. 2.0Ah (EYFB32B)) 1,35 kg (incl. 3.0 Ah (EYFB30B))	1,15 kg (incl. 2.0Ah (EYFB32B)) 1,35 kg (incl. 3.0 Ah (EYFB30B))	1,30 kg (incl. 2.0Ah (EYFB32B)) 1,45 kg (incl. 3.0 Ah (EYFB30B))	1,40 kg (incl. 2.0 Ah (EYFB32B)) 1,60 kg (incl. 4.2 Ah (EYFB30B))
153 mm x 59 mm x 231 mm (EYFB32) 153mmx59mmx249mm (EYFB30)	153 mm x 59 mm x 231mm (EYFB32) 153 mm x 59 mm x 249mm (EYFB30)	153 mm x 59 mm x 231 mm (EYFB32) 153 mm x 59 mm x 249 mm (EYFB30)	153 mm x 59 mm x 231 mm (EYFB32) 153 mm x 59 mm x 249 mm (EYFB30)
V	V	V	~
✓	✓	✓	✓
V	v	v	✓
•	·	·	✓
V	V	V	V
V	V	V	✓
✓	✓	✓	✓
✓	✓	✓	<i>V</i>
✓	✓	✓	v
V	V	V	V
V	v	v	v
V	V	V	V
V	V	V	V
<m6: 10="" 22="" n·m,="" stage:=""> (EYFB30B) 1200 pcs/pack 0.7 sec/1pcs (EYFB32B) 800 pcs/pack 0.7 sec/1pcs</m6:>	<m8: 22="" 23="" n·m,="" stage:=""> (EYFB30B) 800pcs/pack 0.8sec/1pcs (EYFB32B) 540 pcs/pack 0.8 sec/1pcs</m8:>	<m10: 23="" 43="" n·m,="" stage:=""> (EYFB30B) 400 pcs/pack, 0.8 sec/1pcs (EYFB32B) 260 pcs/pack, 0.8 sec/1pcs</m10:>	<m12: 22="" 71="" n·m,="" stage:=""> [EYFB42B] 600 pcs/pack, 0.8 sec/1pcs [EYFB41B] 270 pcs/pack, 0.8 sec/1pcs</m12:>
(Battery pack EYFB30E (Battery Pack EYFB32E	3, Charger EY0L82B) Usable charge: 35 m 8, Charger EY0L82B) Usable Charge: 35 m	in., Full charge: 45 min in., Full Charge: 40 min	(Battery Pack EYFB41, Charger EY0L82B) Usable Charge: 35min., Full Charge: 40min (Battery Pack EYFB42, Charger EY0L82B) Usable Charge: 50min., Full Charge: 60min



Remote Control Quick-Set Features

Program Setting

60 unique torque controlled algorithms – 30 stages in L1 mode and 30 stages in L2 mode + F mode (non shut-off mode)

Flush Point Detection (L1/L2)

Determines when the CPU declares the flush point of the fastening process.

L1 – Applications with no pulses before the flush point or when fastening fragile materials like plastic.

L2 – Applications where tool pulses before achieving the flush point encountered in many prevailing torque and varying joint rate applications.

Rehit Prevention

Disables tool for a period of time (up to 3 sec. in 1/10 sec. intervals) after a good fastening shutoff, preventing operator from double hitting the fastener.

Out of Range / Anti-Theft

When enabled, the tool will not function if taken out of the wireless range of the qualifier. Available on models equipped with radio transmitters only.

Enable / Disable Capable

Remotely enable/disable tools when needed with qualifier + radio tool combination.

EYFNA1 and EYFPA1 Series Only

Prevent and Detect Cross Threads and Rehits

The tool first reverses 360 degrees, aligning the threads,

greatly reducing the possibility of cross threads.

Maintenance Interval Alarm

Defined in 10,000 increment cycles to notify the operator of upcoming scheduled maintenance.

Speed Control Setting

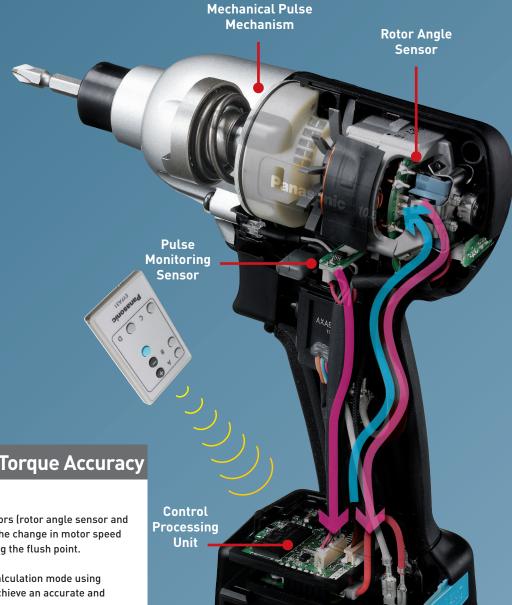
Enables variable speed or single speed trigger operation.

LED Light

Program LED to turn on with trigger switch or on/off switch to match operator preference.

Buzzei

The buzzer can be programmed for OK, NOK, or disabled.

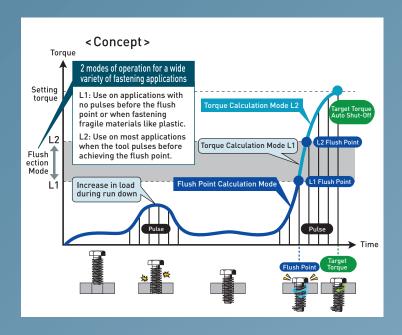


Li-ion 70.8V

Shut-off Tool Delivers Torque Accuracy

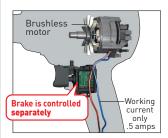
Torque Control Mechanism

- 1) The onboard CPU monitors two sensors (rotor angle sensor and pulse monitoring sensor) detecting the change in motor speed and rpm between pulses, determining the flush point.
- 2. The CPU then switches to a torque calculation mode using a Panasonic patented algorithm to achieve an accurate and repeatable final torque.*
- *Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints



Long-life Parts Provide Lower Running Costs

Durable Hybrid Switch and Brushless Motor





Hybrid Switch

Brushless motor

Needle Bearings



Needle bearings on output shaft reduce vibration and increase tool life.

Choice of compact 2.0Ah or high capacity 3.0/4.2/5.0Ah batteries



Additional charging is acceptable

No Memory Effect

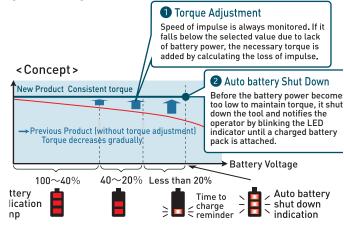
Panasonic Li-ion batteries won't deteriorate if charged during break or for a short period of time then put back into operation.





60 unique torque controlled algorithms - 30 stages in L1 mode and 30 stages in L2 mode + F mode (non shut-off mode)

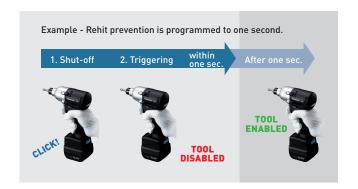
Maintains selected torque level as the battery power drops.



Retightening Prevention Function

Maintain strict quality control

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.



More Features



Lightweight
A well-balanced,
lightweight design
means workers will
experience less
muscle fatigue during
continuous use.



Remote Control

Tool setting can be set only by remote control.



LED LightFor operations in dimly lit places



Color Plate for Differentiation

Each tool model is color coded for easy identification.



High Torque 18V & 21.6V Cordless Mechanical Pulse Tools

Virtually No Torque Reaction

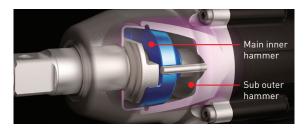
- M16 Bolt up to 400Nm
- M24 Bolt up to 650Nm



Advanced Technologies Delivering a Compact, Lightweight Tool with High Torque

High Efficiency Twin Hammer

New high efficiency twin hammer design delivers high power while reducing tool size, noise, vibration for reduced operator fatigue



Compact, High-Powered Brushless Motor

Compact and high-power brushless motor accomplishes heavy load applica-



*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints.

Advanced Fastening Features



Reverse Rotation!

Cross Thread Reduction

The tool first reverses 360 degrees, aligning the threads, greatly reducing the possibility of cross threads.



to normal rotation

Cross Thread / Rehit Detection

If shut-off 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)



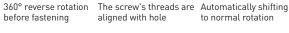
•Example with 3.0sec. normal time setting



Finished with 3.0sec.

Finished with 2.0sec. rundown time due to cross thread

Finished with 0.5sec. rundown time due to retightening



Maint

aligned with hole Maintenance Interval Alarm

When the fastenings are within 10,000 fastenings of the preset maintenance interval, the display blinks notifying the operator. Once tool reaches the preset interval, the tool is locked out from further use. This function can be set ON or OFF and is defined in 10,000 increment cycles.

(Number of setting: 0-990,000 pcs)



Auto Battery Shut Down

Before battery power becomes too low to maintain torque, tool automatically shuts down. Blinking LED notifies operator until a charged battery is attached.



Speed Control Function

Non-skid rubber grip

Speed can be controlled from trigger. Speed control function ON and OFF can be selected by remote.





Program LED to turn on with trigger switch or ON/OFF switch to match operator preference





Tightening Confirmation Lamp

Vertical position

OK/NOK both visual and audible indicators. Buzzer ON/OFF can be selected.



Horizontal position

Mechanical Pulse Tools

MODELS	S	EYFLA4A	EYFLA4AR	EYFLA5A/EYFLA5B	EYFLA5AR	EYFLA6B/EYFLA6J	EYFLA6JR		
Voltage	•	10.8V	10.8V	10.8V	10.8V	10.8V	10.8V		
Shut-off me	ethod			Mechanical Pu	lse - SR Series				
Drive		A = 1/4" Hex Quick Change	A = 1/4" Hex Quick Change	A = 1/4" Hex Quick Change P = 3/8" Sq. Pin Detent	A = 1/4" Hex Quick Change P = 3/8" Sq. Pin Detent	J = 1/2" Sq. Through Hole P = 1/2" Sq. Pin Detent	J = 1/2" Sq. Through Hole P = 1/2" Sq. Pin Detent		
	Nm	3-22Nm	3-22Nm	6-30Nm	6-30Nm	16-53Nm	16-53Nm		
Torque Range	ft. lbs.	2.2-16.2 ft. lbs.	2.2-16.2 ft. lbs.	4.4-22 ft. lbs.	4.4-22 ft. lbs.	11.8-39 ft. lbs.	11.8-39 ft. lbs.		
	in. lbs.	26.55-194.72 in. lbs	26.55-194.72 in. lbs	53.1-265.52 in. lbs.	53.1-265.52 in. lbs.	141.61-469.09 in. lbs.	141.61-469.09 in. lbs.		
Max Torque (F tightening 3	mode,	Approx. 40Nm M10 Bolt	Approx. 40Nm M10 Bolt	Approx. 90Nm M14 Bolt	Approx. 90Nm M14 Bolt	Approx. 120Nm M14 Bolt	Approx. 120Nm M14 Bolt		
Flush Detection	n Modes	L1-L2	L1-L2	L1-L2	L1-L2	L1-L2	L1-L2		
No Load Sp (Torque Setting		1: 0-950 2: 0-1300 3: 0-1450 4-8: 0-1550 9-30 & F: 0-2300	1: 0-950 2: 0-1300 3: 0-1450 4-8: 0-1550 9-30 & F: 0-2300	1: 0-1300 2: 0-1450 3: 0-1550 4-30 & F: 0-2300	1: 0-1300 2: 0-1450 3: 0-1550 4-30 & F: 0-2300	1-30 & F: 0-2300	1-30 & F: 0-2300		
1: 0-1900 2: 0-2500 3: 0-2800 4-8: 0-3000 9-30 & F: 0-4000		2: 0-2500 3: 0-2800 4-8: 0-3000	1: 0-1900 2: 0-2500 3: 0-2800 4-8: 0-3000 9-30 & F: 0-4000	1: 0-2500 2: 0-2800 3: 0-3000 4-30 & F: 0-3600	1: 0-2500 2: 0-2800 3: 0-3000 4-30 & F: 0-3600	1-30 & F: 0-3000	1-30 & F: 0-3000		
Weight	1,15 kg (incl. 2.0Ah		1,15 kg (incl. 2.0Ah EYFB32) 1,30 kg (incl. 3.0 Ah EYFB30)	1,15 kg (incl. 2.0Ah EYFB32) 1,30 kg (incl. 3.0 Ah EYFB30)	1,15 kg (incl. 2.0Ah EYFB32) 1,30 kg (incl. 3.0 Ah EYFB30)	1,25 kg (incl. 2.0Ah EYFB32) 1,40 kg (incl. 3.0 Ah EYFB30)	1,25 kg (incl. 2.0Ah EYFB32) 1,40 kg (incl. 3.0 Ah EYFB30)		
Size (L x W	x H)	158 mm x 59 mm x 231 mm (EYFB32B) 158 mm x 59 mm x 248mm (EYFB30B)	158 mm x 59 mm x 231mm (EYFB32B) 158 mm x 59 mm x 248mm (EYFB30B)	158 mm x 59 mm x 231 mm (EYFB32B) 158 mm x 59 mm x 248mm (EYFB30B)	158 mm x 59 mm x 231mm (EYFB32B) 158 mm x 59 mm x 248mm (EYFB30B)	172 mm x 59 mm x 231mm (EYFB32B) 172 mm x 59 mm x 248mm (EYFB30B)	172 mm x 59 mm x 231mm (EYFB32B) 172 mm x 59 mm x 248mm (EYFB30B)		
Wireless Commu with assembly q		-	OK Fasten=Green light, NOK Fasten=Red light	-	OK Fasten=Green light, NOK Fasten=Red light	-	OK Fasten=Green light, NOK Fasten=Red light		
LED Work Li (ON/OFF Sw		V	v	V	~	V	~		
OK/NOK Lig (Green: OK / Re		V	v	V	V	V	V		
Rehit Prevention: (Pos per 0.1 sec. between		V	~	<i>V</i>	~	~	~		
Battery Indication (3 stage)		V	V	V	V	V	~		
Low Power Di	isable	✓	~	V	~	✓	✓		
Prevent / Detec Threads & Ro		-	_	-	_	-	-		
Maintenance Inter	val Alarm	_	_	_	_	_	_		
Variable speed On/	Off Switch	_	_	_	_	_	_		
LED Light Setting or On with pull o		_	_	_	_	_	_		
Buzzer: On /		_	_	_	_	_	_		
Snug torque detect (Possible to set b 0-3 sec. 0.1 sec. p	etween	_	_	_	_	_	_		
Long socket mode (h1: socket, h2: for 250m	: for 150mm nm socket)	-	_	-	-	-	-		
Work Capacity/Fa	astening	<m6: 10="" n·m<br="">(EYFB30B) approx. 1200 pcs (EYFB32B) approx. 800 pcs/</m6:>	/pack, approx. 0.7 sec/1pcs	<m8: 23="" n·m<br="">(EYFB30B) approx. 800 pcs, (EYFB32B) approx. 540 pcs,</m8:>	pack, approx. 0.8 sec/1pcs	<m10: 43="" n·n<br="">(EYFB30B) approx. 500 pcs, (EYFB32B) approx. 330 pcs,</m10:>	/pack, approx. 0.9 sec/1pcs		
Charging Ti	me			DB, Charger EYOL82B) Usable o B, Charger EYOL82B) Usable O					

EYFMA1B/EYFMA1J	EYFMA1JR	EYFNA1J	EYFPA1J	EYFME1C		
14.4V	14.4V	18V	21.6V	14.4V		
		Mechanical Pulse - SR Series				
P = 1/2" Sq. Pin Detent	P = 1/2" Sq. Pin Detent	C = 1/2" Square Drive with Ring Retainer and Through Hole J = 1/2" Square Drive with Through Hole P = 1/2" Square Drive Pin Detent	J = 3/4" Sq. Through Hole	C = 1/2" Square Drive with Ring Retainer and Through Hole		
25-100Nm	25-100Nm	70-200Nm	160-650Nm	10-53Nm		
18.4-73.8 ft. lbs.	18.4-73.8 ft. lbs.	51.6-147.5 ft. lbs.	118-479.4 ft. lbs.	7.3 - 39 ft. lbs		
221.27-885.07 in. lbs.	221.27-885.07 in. lbs.	619.55-1770.15 in. lbs.	1416.12-5752.98 in. lbs.	88.5 - 469,09 ft. lbs		
Approx. 185Nm M14 Bolt	Approx. 185Nm M14 Bolt	Approx. 470Nm M24 Bolt	Approx. 700Nm M24 Bolt	Approx. 80Nm M14 bolt		
L1-L2	L1-L2	L1-L2	L1-L2	L1-L2		
1-30 & F: 0-2300	1-30 & F: 0-2300	1-30 & F: 0-2300	1-30 & F: 0-2300	0 ~2300		
1-30 & F: 0-3200	1-30 & F: 0-3200	1-30 & F: 0-2200	1-30 & F: 0-2200	0 ~3500		
1.3 kg (incl. 2.0Ah EYFB41) 1.5 kg (incl. 4.2Ah EYFB42)	1.3 kg (incl. 2.0Ah EYFB41) 1.5 kg (incl. 4.2Ah EYFB42)	3.0 kg (incl. 5.0Ah (EYFB50B))	3.6 kg (incl. 4.2Ah (EYFB60B))	1.5 kg (incl. 2.0Ah EYFB41) 1.7 kg (incl. 4.2Ah EYFB42)		
	172 mm x 59 mm x 231 mm (EYFB32B) 172 mm x 59 mm x 248 mm (EYFB30B)	233 mm x 77 mm x 286 mm	233 mm x 77 mm x 286 mm	381 mm x 96 mm x 60 mm (EYFB41B) 399 mm x 96 mm x 60 mm (EYFB42B)		
_	OK Fasten=Green light, NOK Fas- ten=Red light	_	_	_		
V	~	V	~	~		
V	V	V	V	V		
V	V	V	V	V		
V	~	V	V	~		
·	V	V	~	V		
_	_	V	V	V		
_	_			V		
_	_	<i>V</i>	V	V		
_	_	<i>V</i>	V	V		
_	_	V	V	V		
_	_	_	_	_		
_	_	-	_	_		
<m12: 71="" n·m<br="">(EYFB42B) approx. 780 pcs/ (EYFB41B) approx. 350 pcs/</m12:>	pack, approx. 0.9 sec/1pcs	<m12: 100="" 13="" n·m,="" stage:=""> approx .500pcs/pack</m12:>	<m16: 180="" 6="" n·m,="" stage:=""> approx .450pcs/pack</m16:>	<m10: 25="" 53="" n·m,="" stage:=""> [EYFB42B] 250 pcs/pack, 2.2 sec/1pcs[EY-FB41B] 120 pcs/pack, 2.2 sec/1pcs</m10:>		
Usable Charge: approx. 50 mi (Battery Pack EYFB4)	2B, Charger EY0L82B) n., Full Charge: approx. 60 min IB, Charger EY0L82B) n., Full Charge: approx. 40 min	Battery pack EYFB50B, Charger EY0L82B] Usable Charge: approx. 65 min. Full Charge: approx. 80 min	(Battery pack EYFB60B, Charger EY0L82B) Usable Charge: approx. 65 min. Full Charge: approx. 85 min	[Battery Pack EYFB41, Charger EY0L82B] Usable Charge: 35min., Full Charge: 40min(Bat- tery Pack EYFB42, Charger EY0L82B) Usable Charge: 50min., Full Charge: 60min		

Assembly Tool Accessories

Batteries & Chargers



EY9L20B 7.2V 1.5Ah Li-ion Battery Pack



EYFB32B 10.8V 2.0Ah Li-ion Battery Pack



EYFB30B 10.8V 3.0Ah Li-ion Battery Pack



EYFB41B 14.4V 2.0Ah Li-ion Battery Pack



EYFB42B 14.4V 4.2Ah Li-ion Battery Pack



EYFB50B 18V 5.0Ah Li-ion Battery Pack



EYFB60B 21.6V 4.2Ah Li-ion Battery Pack



EY0L20B 7.2V Charger



EY0L82B 10.8V - 28.8V Charger

Protector Covers



EYFA02-H Battery Protector for EYFB30B



EYFA03-H Battery Protector for EYFB32B



EYFA04-H Battery Protector for EYFB40B/EYFB42B



EYFA06-H Battery Protector for EYFB41B



EYFA10-H Battery Protector for EYFB50B



EYFA08-H Battery Protector for EYFB60B



EYFA05 EYFG Tool Protectors -A (blue) -Y (yellow) -H (gray)



EYFA01 EYFLA4/5/6, EYFMA1 Tool Protectors -A (blue) -Y (yellow) -H (gray) -G (green)



EYFNA Tool Protectors
-A (blue) -Y (yellow)
-H (gray) -G (green)



EYFA07 EYFP Tool Protectors -A (blue) -Y (yellow) -H (gray) -G (green)



EYFA13
EYFLA7/8/9, EYFMA2 Tool Protectors
-A (blue), -Y (yellow)
-H (gray), -D (orange) -G (green)



EYFA12
EYFME Tool Protectors
-A (blue), -Y (yellow)
-H (gray), -G (green)

Accessories



EYFA32B Clutch Adjustment Tool for EYFG Series Tools



EYFA40B EYFG Tool Hanger



EYFA41B EYFN/EYFP Tool Hanger



WEYFEA1N3137 Clutch Lock Out Cover for EYFEA1N



EYFA31B

Remote Control for all EYFG/EYFL/
EYFM/EYFN/EYFP Tools



Comparison of Assembly Qualifiers

MODEL	EYFR02B	EYFR03A	EYFR04A				
		9/3 9/3 9/3 9/3 9/3 9/9 9/0 000 000 000 000 000	## 47				
Graphics Display	_	V	V				
Multiple Stations	-	_	·				
Number of Tools Connectivity	1	16	16				
Number of Tools Simultaneously	1	16	4				
1-Way Radio Communication	<i>v</i>	V	V				
NEW! 2-Way Radio Communication	_	V	_				
Discrete Inputs/Outputs	1/2	8/12	8/12				
USB Ports	_	1	1				
Ethernet Ports	-	2	2				
Serial Port	1	1	1				
Remote Inputs/Outputs Connection	-	V	•				
PLC Integration	✓	~	V				
Ethernet IP/Open Protocol & ToolsNet	-	V	·				
Data Collection	_	10,000 rundows onboard or via Ethernet	5,000 rundows per station onboard or via Ethernet				
Batch Counting	*With PLC	V	v				
Tool Sequencing	-	~	~				
Bar Code Scan Capability	-	v	v				
Remote Tool Disable	√	v	v				
Out of Range Disable / Anti-Theft	V	V	•				
Recommended Range		33' (10M)					
Rated Supply Voltage		AC 100-240V, 50/60 Hz					
I/O Voltage	5A @ 30VDC	2A @ 2	24VDC				
Dimensions (L x H x W)	254mmx119mmx73mm	247mmx235	5mmx95mm				
Operating Temperature Range		14-140°F ((-10)-60°C)					
Compatible Tools	EYFGA1AR, EYFGA2AR, EYFLA7AR, EYFLA8AR,	EYFGA3AR, EYFLA4AR, EYFLA5AR, EYFLA5QR, EYFLA8CR, EYFLA8PR, EYFLA9CR, EYFLA9PR,	EYFLA6JR, EYFMA1JR, EYFMA2CR, EYFMA2PR				

Communication range varies with operating environment. The presence of metal walls, people or other objects may result in decreased range. Software available for download for EYFR02B and EYFR03 models.

EYFR03A





Multi-Tool Assembly Qualifier



16 to 1

Up to 16 tools can communicate over a secure connection simultaneously with qualifier to indicate OK/NOK fastenings.

Programming Modes

Parameter - Run one tool at a time Groups - Run a group of tools simultaneously

Jobs - Run tools or a group of tools in a sequence

- ✓ Open Protocol
- ✓ ToolsNet
- ✓ Ethernet/IP

Process Control

Utilizing I/O or fieldbus capabilities improves quality and productivity

2-Way Compatible Tools - Accupulse HR 2Way Series Only 1-Way Compatible Tools - AccuPulse HR 2Way Series and Mechanical Radio Version

2-way Communication Settings

- Create fastening strategies by automatically changing tool settings.
- Tools settings can be controlled both via remote or qualifier.
- Compatible with parameter, group and job modes.
- Tools OK/NOK blinks to notify user of active tools in sequence

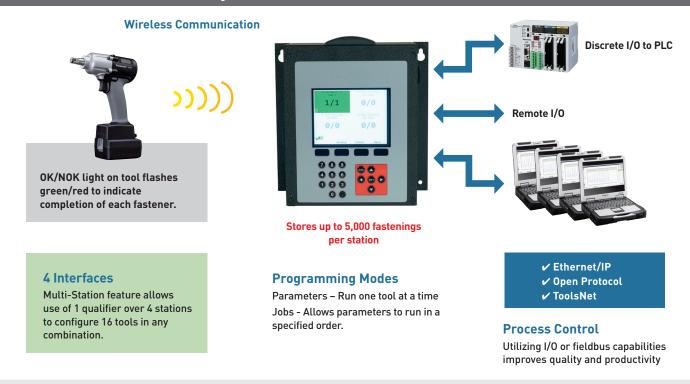


Features that can be set/sent from Qualifier or sent by the Tool

- OK/NOK
- Torque setting stage (1-40)
- Flush detection setting (L1-L7)
- Buzzer setting
- Flush detection delay
- LED light setting
- Rundown error detecting
- Variable speed control
- Reset settings
- Maintenance interval alarm
- Out of range disable function
- Cross thread reduction
- Retightening prevention
- Long socket mode
- Enable/Disable

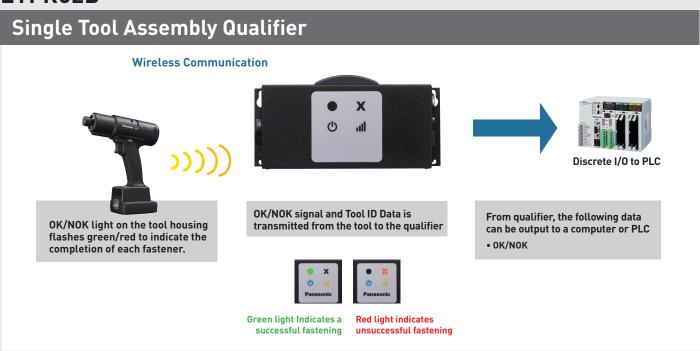
EYFR04A

Multi-Station Assembly Qualifier



1-Way Compatible Tools - AccuPulse HR 2Way Series and Mechanical Radio Version

EYFR02B



Qualifier Features

Tool Distance

A highly reliable data signal can be transmitted if tool is within 10m (33 feet) of the assembly qualifier and if there are no barriers between tool and qualifier.

Out-of-Range Anti-Theft Function

In the event that wireless communication cannot be completed between tool and qualifier, tool will be disabled and cannot be operated. Operation of this function is set on tool body with remote control.

Enable/Disable Tools

Tools can be locked out to prevent use after batch is completed and/or when not in use. Tools can be enabled again when needed.







Features Chart																							
											ı	Mode	el										
	EYFLA4A	EYFLA5A	EYFLA5Q	EYFLA5B	EYFLA6J	EYFLA6B	EYFMA1J	EYFMA1B	EYFLA4AR	EYFLA5AR	EYFLA5QR	EYFLA6JR	EYFMA1JR	EYFME1C	EYFNA1C	EYFPA1J	EYFGA1A	EYFGA2A	EYFGA3A	EYFGA1AR	EYFGA2AR	EYFGA3AR	EYFEA1N
Torque adjustment	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							
Auto battery shut down	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Retightening prevention function	•	•	•	•	•	•	•	•	•	•	•	•	•	•									
Cross thread reduction														•	•	•	•	•	•	•	•	•	
Rundown error detecting function														•	•	•	•	•	•	•	•	•	
RPM adjustment																	•	•	•	•	•	•	
Auto downshift function																	•	•	•	•	•	•	
Maintenance interval alarm														•	•	•	•	•	•	•	•	•	
Variable speed control function	0	0	0	0	0	0	0	0	0	0	0	0	0	•	•	•	•	•	•	•	•	•	0
Wireless Communication									•	•	•	•	•							•	•	•	

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

Transducers / Joint Simulators

Stationary Transducers

MODEL NUMBER	TORQUE RANGE [Nm]	DRIVE
EYFST22NM	2.2 – 22	3/8" Square
EYFST100NM	10 – 100	1/2" Square
EYFST750NM	75 - 750	3/4" Square

- USB Plug 'n Play Technology automatic transducer recognition
- Accuracy class: 0.1 % of F.S.R.
- Smart memory transducer retains settings
- Full bridge strain gauge based torque measurement
- 24 bit analog-to-digital converter (ADC) on rotor
- 126 Kbps data transfer via photocoupler
- Powerful 32-bit-cpu
- Robust, built to last utilizing an aluminum housing and double ball bearings
- User selectable bi-directional measurement
- Simple PC based software
- Ultra-compact size
- Economy software & USB sable included



Joint Simulators

MODEL NUMBER	TORQUE RANGE [Nm]	BOLT SIZE	DRIVE
EYFJS22NM	22	M8	3/8" Square
EYFJS100NM	100	M12	1/2" Square
EYFJS200NM	200	M16	3/4" Square
EYFJS400NM	400	M24	3/4" Square

- Multiple cup washer sizes provide a more accurate simulation of clamp load
- Geared structure resolves frictional issues inherent in conventional joint simulators
- Limited components better represents real world applications
- Cup washers are laser engraved for differentiating between sizes
- Lightweight joint simulator reduces issues with inertia and increases torque accuracy
- Heat treated stainless steel components ensure long life even in harsh environments
- Standard off the shelf bolts can easily be replaced
- Cup washers are sized for specific working torque ranges
- Accurately certify any type of shut-off tool or hand wrench
- Minimal points of lubrication significantly reduces frictional changes during the rundown



Battery Pack/Battery Charger - Compatibility Chart

VOLTAGE	MODEL	BATTERY	CHARGING TIMES USABLE: FULL CHARGE	CHARGER
21.6V	EYFPA1J	EYFB60B (4.2Ah)	65 min : 85 min	
18V	EYFNA1J	EYFB50B (5.0Ah)	65 min : 80 min	
14.4V	EYFGA1A/AR, EYFGA2A/AR, EYFGA3A/AR EYFMA1J/1JR, EYFMA1P, EYFMA2P/PR	EYFB41B (2.0Ah)	35 min : 40 min	EY0L82B
		EYFB42B (4.2Ah)	50 min : 60 min	ETULO2B
10.8V EY	EYFLA4A/4AR, EYFLA5A/5AR, EYFLA5B, EYFLA5Q/5QR EYFLA6J/6JR, EYFLA6B, ,EYFLA7A/7AR, EYFLA8A/C/B/AR/ CR/PR, EYFLA9C/P/CR/PR	EYFB30B (3.0Ah)	35 min : 45 min	
		EYFB32B (2.0Ah)	35 min : 40 min	
7.2V	EYFEA1N, EYFEA1N2S	EY9L20B	35 min : 60 min	EY0L20B

Mechanical Pulse Tool Working Capacities*

	MODELS	EYFLA4A EYFLA4AR	EYFLA5A/5B/5Q EYFLA5AR/5QR	EYFLA6J/6B EYFLA6JR	EYFMA1J/1B EYFMA1JR	EYFNA1J	EYFPA1J
	Settings	M6: 10Nm Stage: 19	M8: 23Nm Stage: 22	M10: 43Nm Stage: 23	M12: 71Nm Stage: 22	M14: 100Nm Stage: 13	M16: 180Nm Stage: 6
	EYFB30B 3.0Ah Battery	1200 pcs/pack 0.7 sec/1 pcs	800 pcs/pack 0.8 sec/1 pcs	500 pcs/pack 0.9 sec/1 pcs	_	-	_
Appli- cation	EYFB42B 4.2Ah Battery	_	_	_	785 pcs/pack 0.9 sec/1 pcs	_	_
Capacity/ Working Speed	EYFB50B 5.0Ah Battery	-	_	_	_	500 pcs/pack 1.0 sec/1 pcs	_
	EYFB60B 4.2Ah Battery	_	_	_	_	_	450 pcs/pack 0.7 sec/1 pcs

AccuPulse Working Capacities*

	MODELS	EYFLA7A/EYFLA7AR	EYFLA8A/AR/C/CR/P/PR	EYFLA9C/CR/P/PR	EYFMA2C/CR/P/PR
	Settings	M6: 10Nm, Stage: 22	M8: 23Nm, Stage: 22	M10: 43Nm, Stage: 23	M12: 71Nm, Stage: 22
	EYFB30B 3.0Ah Battery	1200 pcs/pack 0.7 sec/1pcs	800 pcs/pack 0.8 sec/1pcs	400 pcs/pack 0.8 sec/1pcs	_
Application	EYFB32B 2.0Ah Battery	800 pcs/pack 0.7 sec/1pcs	540 pcs/pack 0.8 sec/1pcs	260 pcs/pack 0.8 sec/1pcs	_
Capacity/ Working Speed	EYFB42B 4.2Ah Battery	_	_	-	600 pcs/pack 0.8 sec/1pcs
	EYFB41B 2.0Ah Battery	_	_	_	270 pcs/pack 0.8 sec/1pcs

Precision Clutch Tool Working Capacities*

	MODELS	TNIOL	EYFGA1A/AR	EYFGA2A/AR	EYFGA3A/AR
	Settings		M6 - 5.5Nm	M6 - 8Nm	M6 - 10Nm
Application Capacity/ Working Speed	EYFB41B 2.0Ah Battery	Hard Joint 30°	1200 pcs/pack 1.1 sec/1 pcs	1050 pcs/pack 1.0 sec/1 pcs	1100 pcs/pack 1.0 sec/1 pcs
		Soft Joint 720°	540 pcs/pack 1.3 sec/1 pcs	410 pcs/pack 1.3 sec/1 pcs	310 pcs/pack 1.4 sec/1 pcs
	EYFB42B 4.2Ah Battery	Hard Joint 30°	2700 pcs/pack 1.1 sec/1 pcs	2350 pcs/pack 1.0 sec/1 pcs	2500 pcs/pack 1.0 sec/1 pcs
		Soft Joint 720°	1250 pcs/pack 1.3 sec/1 pcs	1000 pcs/pack 1.3 sec/1 pcs	730 pcs/pack 1.4 sec/1 pcs

Low Torque Clutch Tool and Driver Working Capacities*

		<u> </u>	
	MODEL	FASTENING	EYFEA1N
Application Capacity/ Working Speed	EY9L20B 1.5Ah Battery	Screws in Sheet Metal (M2.5 x 1/4")	High: 1900 pcs
		Screws in Sheet Metal (M4 x 3/8")	High: 1850 pcs
		Screws in Sheet Metal (M5 x 5/16")	Low: 1450 pcs

In 2016 Panasonic Jaguar Racing announced its return to global motorsport as the first premium manufacturer in the ABB FIA Formula E World Championship, confirming its electric future. In the two years since, they have become one of the

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