

**Panasonic**



# Assembly Tools

Bringing Innovation to the Assembly Line





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## Assembly Tools

## Product Lineup

### AccuPulse® HR Series



**EYFLA7A/R**  
10.8V, 3-22Nm



**EYFLA8A/R**  
10.8V, 6-30Nm



**EYFLA8C/R**  
10.8V, 6-30Nm



**EYFLA8P/R**  
10.8V, 6-30Nm



**EYFLA9C/R**  
10.8V, 20-60Nm



**EYFLA9P/R**  
10.8V, 20-60Nm



**EYFMA2C/R**  
14.4V, 25-120Nm



**EYFMA2P/R**  
14.4V, 25-120Nm

### Mechanical Pulse



**EYFLA4A/R**  
10.8V, 3-22Nm



**EYFLA5A/R**  
10.8V, 6-30Nm



**EYFLA5P/R**  
10.8V, 6-30Nm



**EYFLA5Q/R**  
10.8V, 6-30Nm



**EYFLA6J/R**  
10.8V, 16-53Nm



**EYFLA6P/R**  
10.8V, 16-53Nm



**EYFMA1J/R**  
14.4V, 25-100Nm



**EYFMA1P/R**  
14.4V, 25-100Nm

### High Torque Mechanical Pulse



**EYFNA1C/RT**  
18V, 70-200Nm



**EYFNA1J/RT**  
18V, 70-200Nm



**EYFNA1P/RT**  
18V, 70-200Nm



**EYFPA1J/RT**  
21.6V, 160-650Nm



**EYFR02B**  
Single Tool Qualifier



**EYFR03**  
Multi-Tool Qualifier



**EYFR04**  
Multi-Station Qualifier

### Basic Clutch



**EYFGB1N**  
14.4V, 2-5.5Nm



**EYFGB2N**  
14.4V, 5-8Nm



**EYFGB3N**  
14.4V, 5-10Nm

### Programmable Clutch



**EYFGA1N**  
14.4V, 2-5.5Nm



**EYFGA2N**  
14.4V, 5-8Nm



**EYFGA3N**  
14.4V, 5-10Nm

### Wireless Programmable Clutch



**EYFGA1NR**  
14.4V, 2-5.5Nm



**EYFGA2NR**  
14.4V, 5-8Nm



**EYFGA3NR**  
14.4V, 5-10Nm

### Stationary Transducers



**EYFST22NM**  
3/8" Square Drive



**EYFST100NM**  
1/2" Square Drive



**EYFST750NM**  
3/4" Square Drive

### Rotary Transducers



1/4" Hex Drive



3/8" Square Drive



1/2" Square Drive



3/4" Square Drive

### Low Torque Clutch



**EYFEA1N2S / EYFEA1N**  
2.7-35.4 in. lbs.

# Panasonic Cordless Assembly Tools

Bringing Innovation to the Assembly Line

## Benefits

### Electronic Sensing System

Guard ION



#### 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

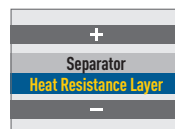


#### 3. Monitoring of Battery Cell Voltage

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 and compact, no air hose to drag around

#### Eliminate Trip Hazards

Removes dangerous air hoses and provides 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  $\pm 10\%$  at  $\text{cmk} \geq 1.67$  – ISO 5393\*
- Fast-acting, all-steel clutch for increased durability
- Photo interrupter sensor increases clutch life and tool accuracy
- Brushless motor and hybrid switch about doubles the life of the tool
- 60-stage adjustable clutch for precise adjustment
- Tamper-resistant clutch for increased quality
- Programmable version for increased versatility\*\*
- Wireless programmable version for error proofing and data collection\*\*\*



Basic Clutch Tools



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 rpms 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 is disabled if taken out of the qualifier's wireless range.

#### 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.

\*In  $\geq 3\text{Nm}$  Range.



# Precision Clutch Tools

## Ergonomic, Accurate & Repeatable

High Accuracy  
 $10\% \cdot Cmk \geq 1.67^*$   
 (ISO5393)  
 \*In  $\geq 3Nm$  range



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

14.4V  
 2.0Ah  
 4.2Ah  
 Optional battery packs: Compact 2.0Ah battery and high capacity 4.2Ah battery

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



Basic Clutch Tools



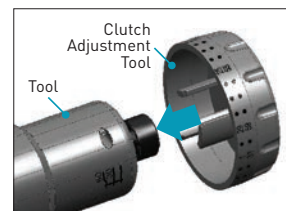
Programmable Clutch Tools



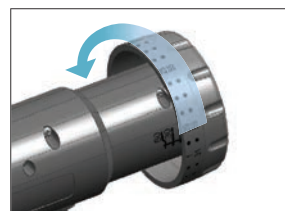
Wireless Programmable Clutch Tools

### 60 Stage Adjustable Clutch

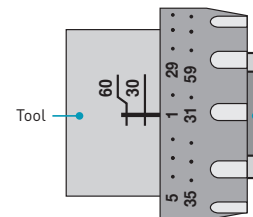
#### How to set clutch



① Insert clutch adjustment tool into nose of tool.



② Turn and set



Clutch stage "1"

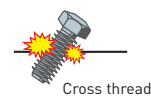
Quickly set the torque by adjusting the scale.

Rotate clutch adjustment tool clockwise to increase torque and counter clockwise to decrease torque.

### Advanced Fastening Features

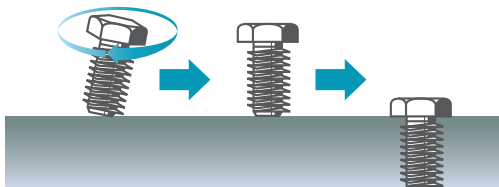


#### Cross Thread Reduction



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

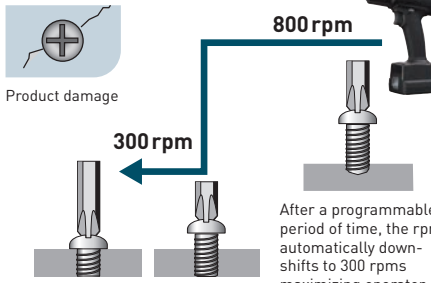
#### Reverse Rotation!



360° reverse rotation before fastening The screw's threads are aligned with the hole Automatically shifting to normal rotation



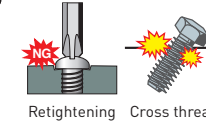
#### Auto Downshift Function



Product damage 800 rpm 300 rpm Reducing the fastener's impact on the material. After a programmable period of time, the rpm automatically downshifts to 300 rpm maximizing operator productivity.



#### 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.

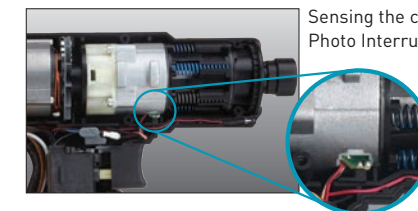


#### Auto Battery Shut Down

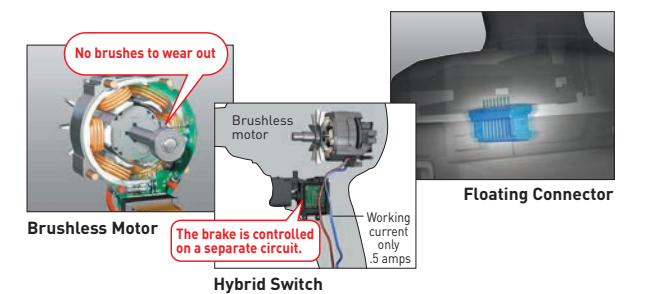
Before the battery power becomes too low to maintain torque, it shuts down the tool and notifies the operator by blinking the LED indicator until a charged battery pack is attached. Standard on all Precision Clutch Tools.

### Durable Design

#### 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.



Brushless Motor

No brushes to wear out

Brushless motor The brake is controlled on a separate circuit.

Hybrid Switch

Floating Connector

### Additional Features



Rubber grip

Compact and Lightweight A well balanced compact and lightweight design



LED Light 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

MODEL		EYFGB1N	EYFGB2N	EYFGB3N	EYFGA1N	
						
Voltage		14.4V	14.4V	14.4V	14.4V	
Series		Basic Clutch			Programmable Clutch	
Accuracy		±10%• Cmk 1.67 (*Compliant with ISO5393. Measured with the Max RPM setting)(*In 3Nm range)				
Drive		A = 1/4" Hex Quick Change				
Clutch Torque	Nm	2-5.5 Nm	5-8 Nm	5-10 Nm	2-5.5 Nm	
	in. lbs.	17.7 - 48.6 in.lbs	44.2 - 70.8 in.lbs	44.2 - 88.5 in.lbs	17.7 - 48.6 in.lbs	
Clutch Setting Stage		1 - 60, Total 60 stages (Approx. 0.08 N-m per stage)				
No Load Speed		0-800 rpm	0-750 rpm	0-450 rpm	0-800 rpm	
Weight	EYFB41B (2.0 Ah)	2.76 lbs.	2.76 lbs.	2.86 lbs.	2.76 lbs.	
	EYFB42B (4.2 Ah)	3.31 lbs.	3.31 lbs.	3.41 lbs.	2.31 lbs.	
Size (LxHxW)	EYFB41B (2.0 Ah)	7-13/16" x 9-1/8" x 2-15/16"				
	EYFB42B (4.2 Ah)	7-13/16" x 9-6/8" x 2-15/16"				
Wireless Communication with Assembly Qualifier		—	—	—	—	
LED Work Light (On/Off Switch)		✓	✓	✓	✓	
OK/NOK Light (Green: OK/ Red: NOK)		✓	✓	✓	✓	
Rehit Prevention (Possible to set per 0.1 sec. between 0-3 sec.)		—	—	—	✓	
Battery Indication Lamp: (3 stage)		✓	✓	✓	✓	
Low Power Disable		✓	✓	✓	✓	
Prevent/ Detect Cross Threads & Rehits		—	—	—	✓	
Maintenance Interval Alarm		—	—	—	✓	
Variable Speed On / Off Switch		—	—	—	✓	
LED Light Setting (On / Off or On with pull of switch)		—	—	—	✓	
Work Capacity*	EYFB41B	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)	1200 pcs/pack 1.1 sec./1pcs (M6: 5.5 N-m)
		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)	540 pcs/pack 1.3 sec./1pcs (M6: 5.5 N-m)
	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)	2700 pcs/pack 1.1 sec./1pcs (M6: 5.5 N-m)
		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)	1250 pcs/pack 1.3 sec./1pcs (M6: 5.5 N-m)
Charging Time*		EYFB41B Usable Charge: 35min. / Full Charge: 40min			EYFB42B Usable Charge: 50min. / Full Charge: 60min	

Note: \*Approximately

EYFGA2N	EYFGA3N	EYFGA1NR	EYFGA2NR	EYFGA3NR
				
14.4V	14.4V	14.4V	14.4V	14.4V
Programmable Clutch		Wireless Programmable Clutch		
±10%• Cmk 1.67 (*Compliant with ISO5393. Measured with the Max RPM setting)(*In 3Nm range)				
A = 1/4" Hex Quick Change				
5-8 Nm	5-10 Nm	2-5.5 Nm	5-8 Nm	5-10 Nm
44.2 - 70.8 in.lbs	44.2 - 88.5 in.lbs	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 N-m per stage)				
0-750 rpm	0-450 rpm	0-800 rpm	0-750 rpm	0-450 rpm
2.76 lbs.	2.86 lbs.	2.76 lbs.	2.76 lbs.	2.86 lbs.
2.31 lbs.	3.41 lbs.	2.31 lbs.	2.31 lbs.	3.41 lbs.
7-13/16" x 9-1/8" x 2-15/16"				
7-13/16" x 9-6/8" x 2-15/16"				
—	—	OK Fasten=Green light NOK Fasten=Red light	OK Fasten=Green light NOK Fasten=Red light	OK Fasten=Green light NOK Fasten=Red light
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
—	✓	—	—	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
1050 pcs/pack 1.0 sec./1pcs (M6: 8 N-m)	1100 pcs/pack 1.0 sec./1pcs (M6: 10 N-m)	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)
410 pcs/pack 1.3 sec./1pcs (M6: 8 N-m)	310 pcs/pack 1.4 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)
2350 pcs/pack 1.0 sec./1pcs (M6: 8 N-m)	2500 pcs/pack 1.0 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)
1000 pcs/pack 1.3 sec./1pcs (M6: 8 N-m)	730 pcs/pack 1.4 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				



# EYFEA1N / EYFEA1N2S

## Cordless Low Torque Clutch Tool and Driver Kit

7.2V

Voltage	7.2V	
Drive	1/4" Hex Quick Change	
Torque Range	Nm	High: 2.0 Nm / Low: 6.0 Nm
	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 Speed (Torque Setting: RPM)	High: 0-900 rpm Low: 0-300 rpm	
Clutch Torque (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. battery)	1.38 lbs	
Size (L x W x H)	5-3/4" x 7-7/8" x 1-5/8"	
Max. Screws Driving	High mode: M4 screw Low mode: M5 screw	
Features	<ul style="list-style-type: none"> <li>• Auto Shut-Off Function</li> <li>• Auto Power-Stop Function</li> <li>• LED Light</li> <li>• Clutch &amp; H/L switch lock cover</li> <li>• Electronic brake</li> <li>• ESD approved (as per EN 55014-1 and -2)</li> </ul>	
Working Capacity (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 Time	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

Clutch lock cover

WEYFEA1N3137



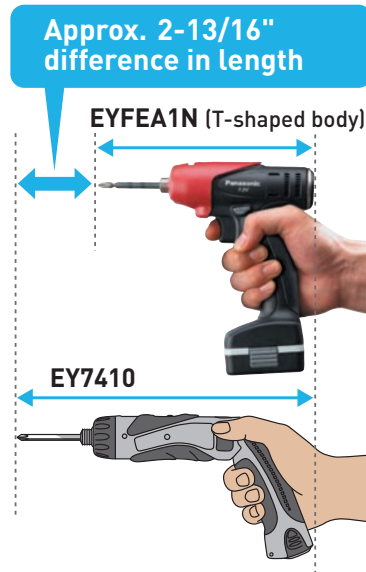
### More Features

#### Compact & Lightweight

User-friendly size and weight of EYFEA1N can reduce operator fatigue. Well balanced, T-shaped body and slim grip improves operator acceptance.

**WEIGHT**  
1.39 lbs.

**LENGTH**  
5.7"



**Clutch & High/Low Switch Lock Cover**

Prevents operator from changing clutch setting or rpm setting by mistake.



**LED Light**

Operation in dimly lit areas is improved with built-in LED light.



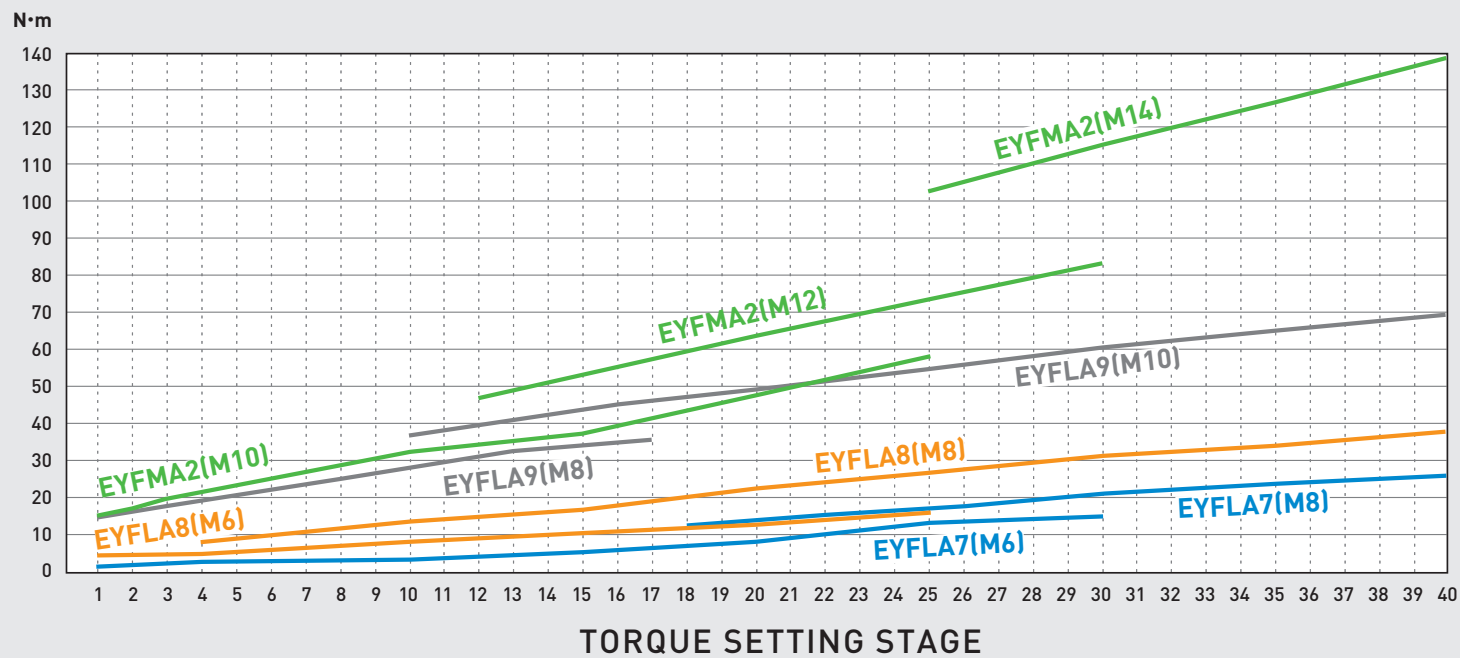


## Advanced Features

	MODEL																			
	Mechanical Pulse						High Torque Mechanical Pulse				AccuPulse									
	EYFLA4A	EYFLA5A/P/Q	EYFLA6P/J	EYFMA1J/P	EYFLA4AR	EYFLA5AR/PR/QR	EYFLA6PR/JR	EYFMA1PR/JR	EYNA1P / J / C	EYFPA1J	EYNA1PRT/JRT/CRT	EYFPA1JRT	EYFLA7A	EYFLA8A/P/C	EYFLA9P/C	EYFMA2P/C	EYFLA7AR	EYFLA8AR/PR/CR	EYFLA9PR/CR	EYFMA2PR/CR
2-Way Radio Communication										●	●					●	●	●	●	
1-Way Radio Communication					●	●	●			●	●					●	●	●	●	●
Cross Thread Reduction								●	●	●	●	●	●	●	●	●	●	●	●	●
Cross Thread /Rehit Detection								●	●	●	●	●	●	●	●	●	●	●	●	●
Rehit Prevention	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Variable Speed Control Function	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
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 "○" don't have ON/OFF setting.

## Tightening Torque Chart (for Reference Use)



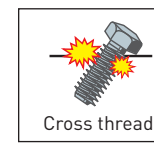
The values illustrated on this chart were measured under Panasonic measuring condition and are provided for reference purposes. Actual tightening torque varies with ambient conditions (the particular bolt being tightened, hardware being used, method of holding the bolt in place, etc.).

## Advanced Programmable Features

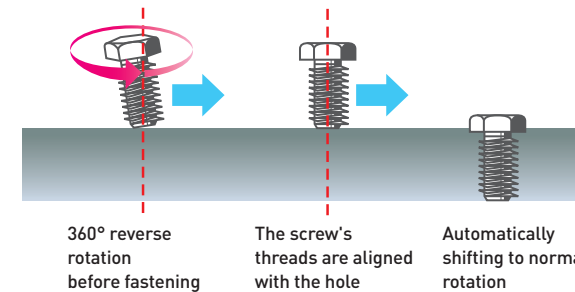


### Cross Thread Reduction

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

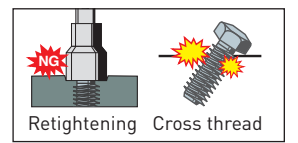


### Reverse Rotation!

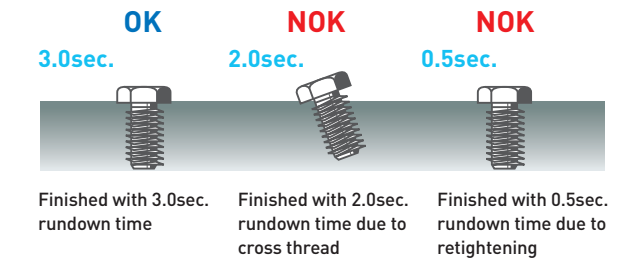


### Cross Thread / Rehit Detection

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.

Example - Rehit prevention is programmed to one second.



### 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.

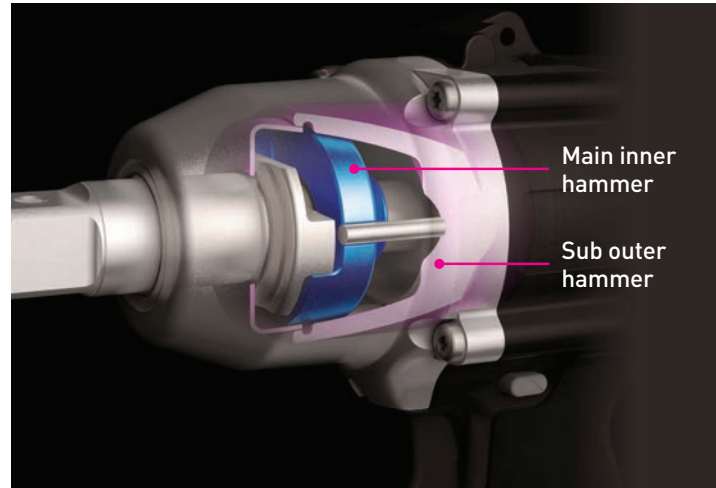


### Socket Extension Mode

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



## High-Efficiency, Double Hammer Design\*



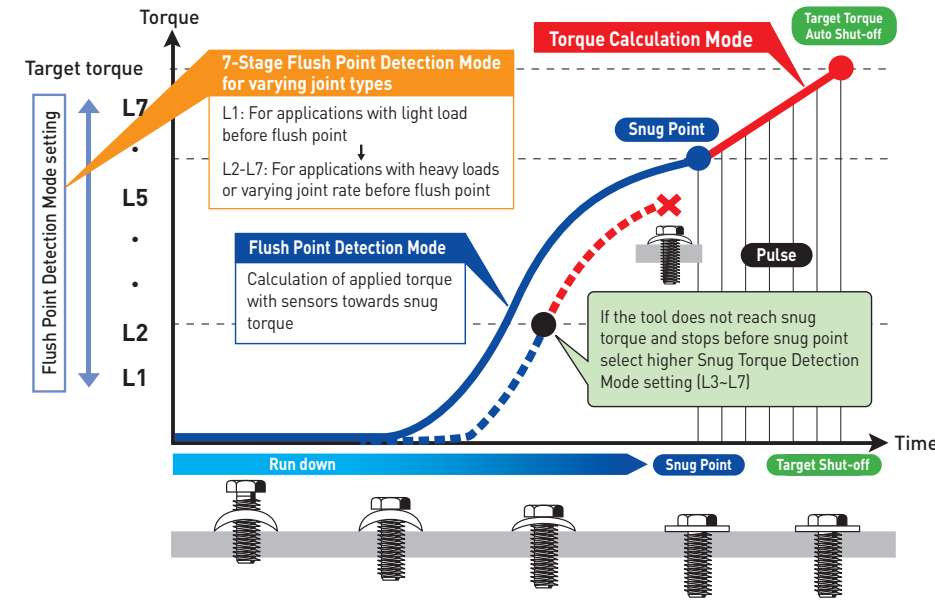
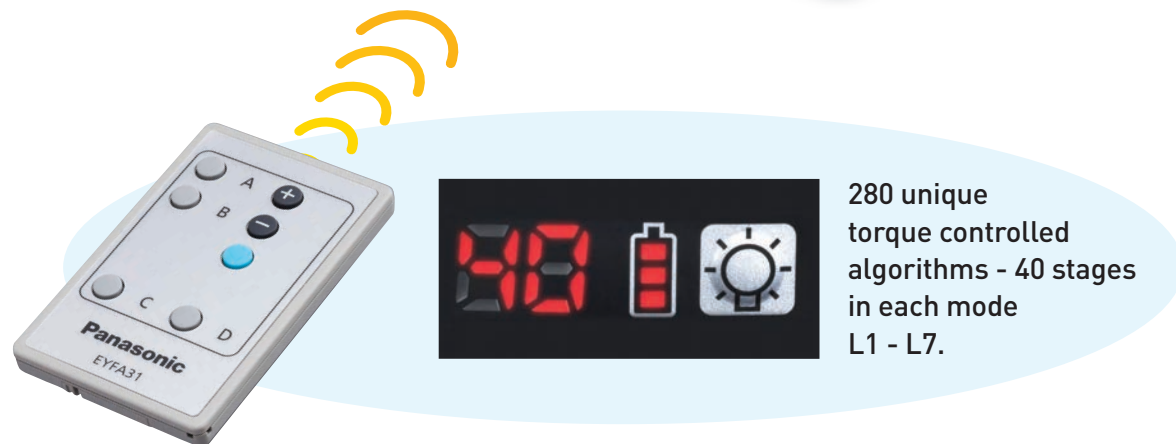
New high efficiency twin hammer design delivers high power while reducing tool size, noise, vibration for reduced operator fatigue



\*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.



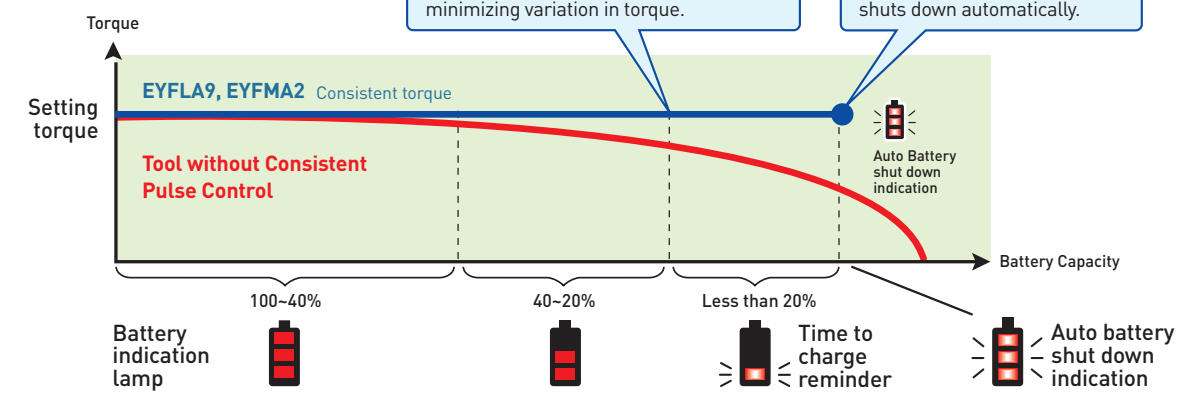
\*Example - L6 Flush detection mode setting

**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.

## Consistent Pulse Control

- 1 Consistent Pulse Control**  
The power of each pulse is kept consistent regardless of remaining battery capacity, minimizing variation in torque.
- 2 Auto Battery Shut Down**  
Before battery power becomes too low to maintain torque, tool shuts down automatically.



## More Features

Horizontal hanging

Upside down hanging

**Tightening Confirmation Lamp**  
Green light indicates tightening is complete.

**LED Light**  
For operation in dimly lit places.

**Remote Control**  
Tool setting can be set only by remote control.

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

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

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



# AccuPulse® HR Series



MODELS		EYFLA7A	EYFLA8A / EYFLA8C / EYFLA8P	EYFLA9C / EYFLA9P
Voltage		10.8V	10.8V	10.8V
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
Torque Range	Nm	3-22Nm	6-30Nm	20-60Nm
	ft. lbs.	2.2-16.2 ft. lbs.	4.4-22 ft. lbs.	14.75-44.25 ft. lbs.
	in. lbs.	26.55-194.72 in. lbs.	53.1-265.52 in. lbs.	177.01-531.04 in. lbs.
Max Torque* [F mode, tightening 3 sec.]		35Nm M10 Bolt	80m M14 Bolt	120Nm M14 Bolt
Flush Detection Modes		L1 - L7	L1 - L7	L1 - L7
No Load Speed (Torque Setting: 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
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
Weight		2.53 lbs. (incl. 2.0Ah [EYFB32B]) 2.86 lbs. (incl. 3.0Ah [EYFB30B])	2.53 lbs. (incl. 2.0Ah [EYFB32B]) 2.86 lbs. (incl. 3.0Ah [EYFB30B])	2.53 lbs. (incl. 2.0Ah [EYFB32B]) 2.86 lbs. (incl. 3.0Ah [EYFB30B])
Size (L x W x H)		6-1/32 x 9-51/64 x 2-61/64 H=9-51/64[EYFB30B] 9-3/32 [EYFB32B]	8A: 6-1/32 x 9-51/64 x 2-61/64 8C: 6-3/8 x 9-51/64 x 2-61/64 H=9-51/64[EYFB30B] 9-3/32 [EYFB32B]	6-49/64 x 9-27/64 x 2-61/64 H=9-27/64[EYFB42B], 9-9/64 [EYFB41B]
Wireless Communication with Assembly Qualifier:		—	—	—
2-Way Communication		—	—	—
LED Work Light: [ON/OFF Switch]		✓	✓	✓
OK/NOK Light: [Green: OK / Red: NOK]		✓	✓	✓
Rehit Prevention: [Possible to set per 0.1 sec. between 0-3 sec.]		✓	✓	✓
Battery Indication Lamp: [3 stage]		✓	✓	✓
Low Power Disable		✓	✓	✓
Prevent / Detect Cross Threads & Rehits		✓	✓	✓
Maintenance Interval Alarm		✓	✓	✓
Variable Speed On / Off Switch		✓	✓	✓
Variable Speed On / Off Switch		✓	✓	✓
Buzzer: On / Off		✓	✓	✓
Flush Point Detection Delay [Possible to set between 0-3 sec.. 0.1 sec. per stage]		✓	✓	✓
Socket Extension Mode [h1:150mm socket, h2: for 250mm socket]		✓	✓	✓
Work Capacity / Fastening Speed*		<M6: 10 N-m, Stage: 22> [EYFB30B] 1200 pcs/pack 0.7 sec/1pcs [EYFB32B] 800 pcs/pack 0.7 sec/1pcs	<M8: 23 N-m, Stage: 22> [EYFB30B] 800pcs/pack 0.8sec/1pcs [EYFB32B] 540 pcs/pack 0.8 sec/1pcs	<M10: 43 N-m, Stage: 23> [EYFB30B] 400 pcs/pack, 0.8 sec/1pcs [EYFB32B] 260 pcs/pack, 0.8 sec/1pcs
Charging Time*		[Battery pack EYFB30B, Charger EY0L82B] Usable charge: 35 min., Full charge: 45 min [Battery Pack EYFB32B, Charger EY0L82B] Usable Charge: 35 min., Full Charge: 40 min		

EYFMA2C / EYFMA2P	EYFLA7AR	EYFLA8AR / EYFLA8CR / EYFLA8PR	EYFLA9CR / EYFLA9PR	EYFMA2CR / EYFMA2PR
14.4V	10.8V	10.8V	10.8V	14.4V
AccuPulse - HR Series	AccuPulse - HR Series with 2-Way Communication			
C = 1/2" Sq. C-Ring w/ through Hole P = 1/2" Sq. Pin Detent	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
25-120Nm	3-22Nm	6-30Nm	20-60Nm	25-120Nm
18.44-92.2 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.
221.27-1,106.34 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.
185Nm M16 Bolt	35Nm M10 Bolt	80m M14 Bolt	120Nm M14 Bolt	185Nm M14 Bolt
L1 - L7	L1 - L7	L1 - L7	L1 - L7	L1 - L7
1-40 & F: 0-2300	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
1-40 & F: 0-2900	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
3.08 lbs. (incl. 2.0Ah [EYFB41B]) 3.52 lbs. (incl. 4.2Ah [aEYFB42B])	2.53 lbs. (incl. 2.0Ah [EYFB32B]) 2.86 lbs. (incl. 3.0Ah [EYFB30B])	2.53 lbs. (incl. 2.0Ah [EYFB32B]) 2.86 lbs. (incl. 3.0Ah [EYFB30B])	2.53 lbs. (incl. 2.0Ah [EYFB32B]) 2.86 lbs. (incl. 3.0Ah [EYFB30B])	3.08 lbs. (incl. 2.0Ah [EYFB41B]) 3.52 lbs. (incl. 4.2Ah [aEYFB42B])
6-49/64 x 9-27/64 x 2-61/64 H=9-27/64[EYFB42B], 9-9/64 [EYFB41B]	6-1/32 x 9-51/64 x 2-61/64 H=9-51/64[EYFB30B] 9-3/32 [EYFB32B]	8A: 6-1/32 x 9-51/64 x 2-61/64 8C: 6-3/8 x 9-51/64 x 2-61/64 H=9-51/64[EYFB30B] 9-3/32 [EYFB32B]	6-49/64 x 9-27/64 x 2-61/64 H=9-27/64[EYFB42B], 9-9/64 [EYFB41B]	6-49/64 x 9-27/64 x 2-61/64 H=9-27/64[EYFB42B], 9-9/64 [EYFB41B]
—	✓	✓	✓	✓
—	✓ [EYFR03/EYFR04 only]	✓ [EYFR03/EYFR04 only]	✓ [EYFR03/EYFR04 only]	✓ [EYFR03/EYFR04 only]
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
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✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
<M12: 71 N-m, Stage: 22> [EYFB42B] 600 pcs/pack, 0.8 sec/1pcs [EYFB41B] 270 pcs/pack, 0.8 sec/1pcs	<M6: 10 N-m, Stage: 22> [EYFB30B] 1200 pcs/pack 0.7 sec/1pcs [EYFB32B] 800 pcs/pack 0.7 sec/1pcs	<M8: 23 N-m, Stage: 22> [EYFB30B] 800pcs/pack 0.8sec/1pcs [EYFB32B] 540 pcs/pack 0.8 sec/1pcs	<M10: 43 N-m, Stage: 23> [EYFB30B] 400 pcs/pack, 0.8 sec/1pcs [EYFB32B] 260 pcs/pack, 0.8 sec/1pcs	<M12: 71 N-m, Stage: 22> [EYFB42B] 600 pcs/pack, 0.8 sec/1pcs [EYFB41B] 270 pcs/pack, 0.8 sec/1pcs
[Battery Pack EYFB41, Charger EY0L82B] Usable Charge: 35min., Full Charge: 40min [Battery Pack EYFB42, Charger EY0L82B] Usable Charge: 50min., Full Charge: 60min	[Battery pack EYFB30B, Charger EY0L82B] Usable charge: 35 min., Full charge: 45 min [Battery Pack EYFB32B, Charger EY0L82B] Usable Charge: 35 min., 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



# Mechanical Pulse Tools

Virtually No Torque Reaction Up To 650Nm



## 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, tool is disabled if taken out of qualifier's wireless range. 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.

### Buzzer

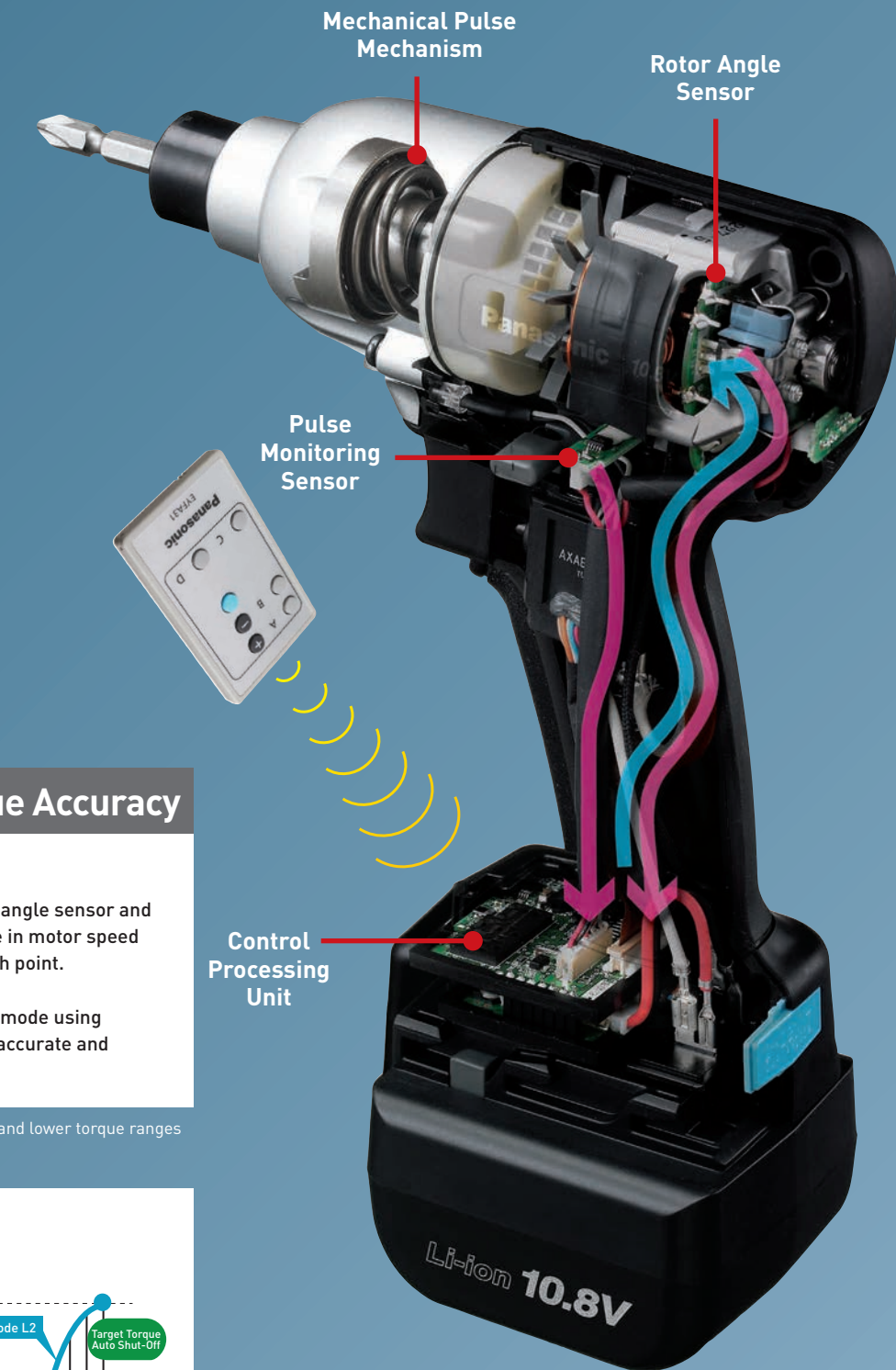
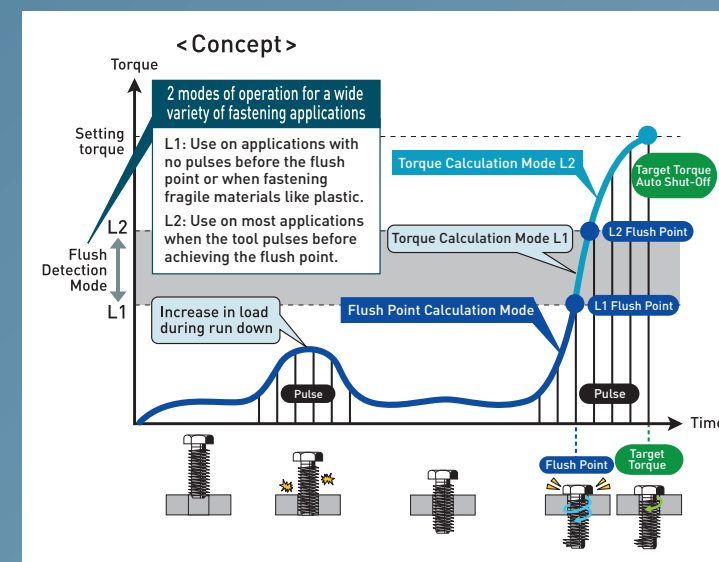
The buzzer can be programmed for OK, NOK, or disabled.

## 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.\*

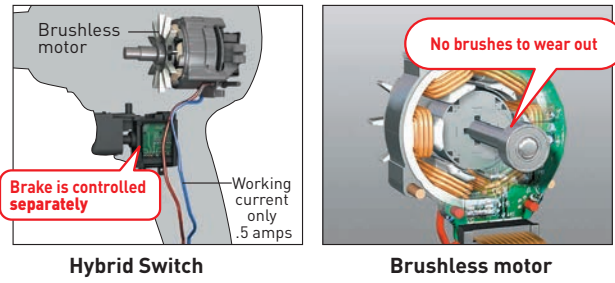
\*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints





## Long-life Parts Provide Lower Running Costs

### Durable Hybrid Switch and Brushless Motor



### Needle Bearings



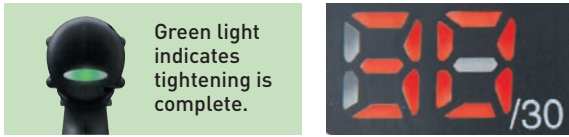
Needle bearings on output shaft reduce vibration and increase tool life.

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

AMP	VOLTAGE				CAPACITY	
	10.8V	14.4V	18V	21.6V	COMPACT	HIGH CAPACITY
2.0Ah Li-ion	●	●			●	
3.0Ah Li-ion	●					●
3.0Ah Li-ion			●		●	
4.2Ah Li-ion		●		●		●
5.0Ah Li-ion			●			●

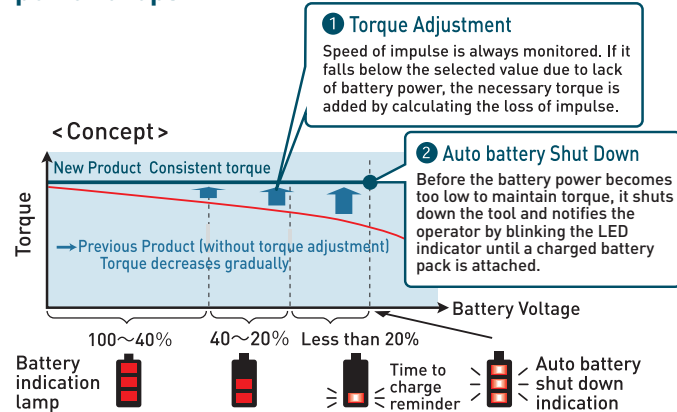
### Additional charging is acceptable

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)

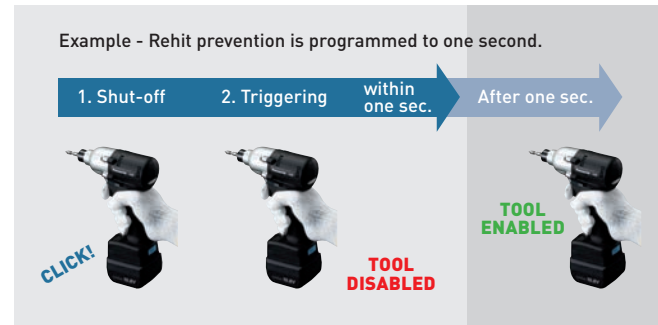
### Maintains selected torque level as the battery power drops.



## 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.



Tool setting can be set only by remote control.



For operations in dimly lit places



Each tool model is color coded for easy identification.

## Mechanical Pulse Tools



## Wireless Connectivity





# High Torque 18V & 21.6V Cordless Mechanical Pulse Tools

Virtually No Torque Reaction

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



## 21.6V EYFPA

Torque controlled range  
160~**650Nm**

Lightweight  
approx. **7.7 lbs**

High capacity  
**4.2Ah**

## 18V EYFNA

Torque controlled range  
70~**200Nm**

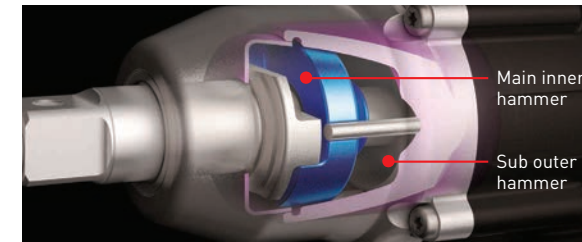
Lightweight  
approx. **6.6 lbs**

High capacity  
**5.0Ah**

## Advanced Technologies Delivering a Compact, Lightweight Tool with High Torque

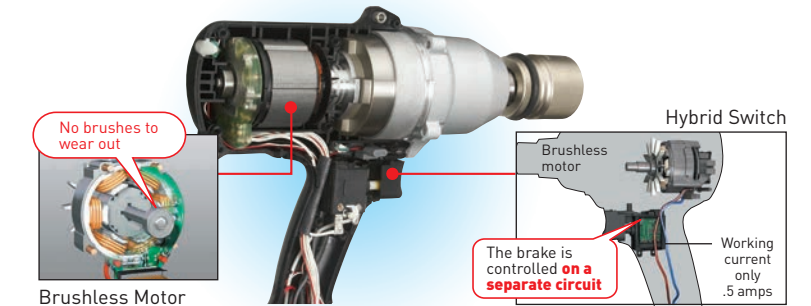
### High Efficiency Twin Hammer

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



### Compact, High-Powered Brushless Motor

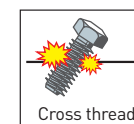
Compact and high-power brushless motor accomplishes heavy load applications.



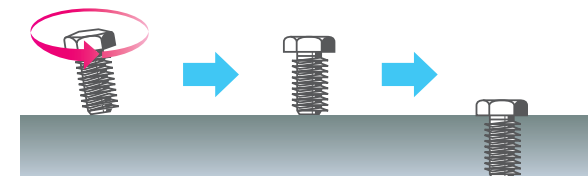
\*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints.

## Advanced Fastening Features

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



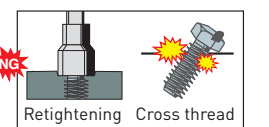
### Reverse Rotation!



360° reverse rotation before fastening    The screw's threads are aligned with hole    Automatically shifting to normal rotation

**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)

**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



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

## Additional Features

Ergonomic, computer-aided design for optimal balance and operator comfort



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









**Tool Hanger (Optional)**  
Suspend tool vertically or horizontally from a balancer








**Tightening Confirmation Lamp**  
OK/NOK both visual and audible indicators. Buzzer ON/OFF can be selected.



# Mechanical Pulse Tools

MODELS	EYFLA4A	EYFLA4AR	EYFLA5A/EYFLA5P	EYFLA5AR/EYFLA5PR	EYFLA6P/EYFLA6J	EYFLA6PR/EYFLA6JR	
							
Voltage	10.8V	10.8V	10.8V	10.8V	10.8V	10.8V	
Shut-off method	Mechanical Pulse - 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	
Torque Range	Nm	3-22Nm	3-22Nm	6-30Nm	6-30Nm	16-53Nm	16-53Nm
	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 mode, tightening 3 sec.)	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 Modes	L1-L2	L1-L2	L1-L2	L1-L2	L1-L2	L1-L2	
No Load Speed (Torque Setting : RPM)	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	
PPM (Pulses Per Min)	1: 0-1900 2: 0-2500 3: 0-2800 4-8: 0-3000 9-30 & F: 0-4000	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	2.8 lbs. (incl. 3.0Ah [EYFB30B]) 2.48 lbs. (incl. 2.0Ah [EYFB32B])	2.8 lbs. (incl. 3.0Ah [EYFB30B]) 2.48 lbs. (incl. 2.0Ah [EYFB32B])	2.8 lbs. (incl. 3.0Ah [EYFB30B]) 2.53 lbs. (incl. 2.0Ah [EYFB32B])	2.8 lbs. (incl. 3.0Ah [EYFB30B]) 2.53 lbs. (incl. 2.0Ah [EYFB32B])	3.1 lbs. (incl. 3.0Ah [EYFB30B]) 2.68 lbs. (incl. 2.0Ah [EYFB32B])	3.1 lbs. (incl. 3.0Ah [EYFB30B]) 2.68 lbs. (incl. 2.0Ah [EYFB32B])	
Size (L x W x H)	6-7/32" x 9-25/32" x 2-61/64"	6-7/32" x 9-25/32" x 2-61/64"	5A: 6-7/32" x 9-25/32" x 2-61/64" 5P/5Q: 6-7/16" x 9-25/32" x 2-61/64"	5A: 6-7/32" x 9-25/32" x 2-61/64" 5P/5Q: 6-7/16" x 9-25/32" x 2-61/64"	6-25/32" x 9-25/32" x 2-61/64"	6-25/32" x 9-25/32" x 2-61/64"	
Wireless Communication with assembly qualifier:	—	✓	—	✓	—	✓	
2-Way Communication	—	—	—	—	—	—	
LED Work Light: (ON/OFF Switch)	✓	✓	✓	✓	✓	✓	
OK/NOK Light: (Green: OK / Red: NOK)	✓	✓	✓	✓	✓	✓	
Rehit Prevention: (Possible to set per 0.1 sec. between 0-3 sec.)	✓	✓	✓	✓	✓	✓	
Battery Indication Lamp: (3 stage)	✓	✓	✓	✓	✓	✓	
Low Power Disable	✓	✓	✓	✓	✓	✓	
Prevent / Detect Cross Threads & Rehits	—	—	—	—	—	—	
Maintenance Interval Alarm	—	—	—	—	—	—	
Variable speed On/Off Switch	—	—	—	—	—	—	
LED Light Setting: On/Off or On with pull of switch	—	—	—	—	—	—	
Buzzer: On / Off	—	—	—	—	—	—	
Snug torque detection delay (Possible to set between 0-3 sec. 0.1 sec. per stage)	—	—	—	—	—	—	
Long socket mode (h1: for 150mm socket, h2: for 250mm socket)	—	—	—	—	—	—	
Work Capacity/Fastening Speed	<M6: 10 N-m, Stage: 19> [EYFB30B] approx. 1200 pcs/pack, approx. 0.7 sec/1pcs [EYFB32B] approx. 800 pcs/pack, approx. 0.7 sec/1pcs		<M8: 23 N-m, Stage: 22> [EYFB30B] approx. 800 pcs/pack, approx. 0.8 sec/1pcs [EYFB32B] approx. 540 pcs/pack, approx. 0.8 sec/1pcs		<M10: 43 N-m, Stage: 23> [EYFB30B] approx. 500 pcs/pack, approx. 0.9 sec/1pcs [EYFB32B] approx. 330 pcs/pack, approx. 0.9 sec/1pcs		
Charging Time	[Battery pack EYFB30B, Charger EY0L82B] Usable charge: approx. 35 min., Full charge: approx. 45 min [Battery Pack EYFB32B, Charger EY0L82B] Usable Charge: approx. 35 min., Full Charge: approx. 40 min						

MODELS	EYFMA1P	EYFMA1PR	EYFNA1C/EYFNA1J/ EYFNA1P	EYFNA1CRT/EYFNA1JRT/ EYFNA1PRT	EYFPA1J	EYFPA1JRT
						
Voltage	14.4V	14.4V	18V	18V	21.6V	21.6V
Drive	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	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	J = 3/4" Sq. Through Hole
Torque Range	25-100Nm	25-100Nm	70-200Nm	70-200Nm	160-650Nm	160-650Nm
	18.4-73.8 ft. lbs.	18.4-73.8 ft. lbs.	51.6-147.5 ft. lbs.	51.6-147.5 ft. lbs.	118-479.4 ft. lbs.	118-479.4 ft. lbs.
	221.27-885.07 in. lbs.	221.27-885.07 in. lbs.	619.55-1770.15 in. lbs.	619.55-1770.15 in. lbs.	1416.12-5752.98 in. lbs.	1416.12-5752.98 in. lbs.
Max Torque (M mode, tightening 3 sec.)	Approx. 185Nm M14 Bolt	Approx. 185Nm M14 Bolt	Approx. 470Nm M24 Bolt	Approx. 470Nm M24 Bolt	Approx. 700Nm M24 Bolt	Approx. 700Nm M24 Bolt
Flush Detection Modes	L1-L2	L1-L2	L1-L2	L1-L2	L1-L2	L1-L2
No Load Speed (Torque Setting : RPM)	1-30 & F: 0-2300	1-30 & F: 0-2300	1-30 & F: 0-2300	1-30 & F: 0-2300	1-30 & F: 0-2300	1-30 & F: 0-2300
PPM (Pulses Per Min)	1-30 & F: 0-3200	1-30 & F: 0-3200	1-30 & F: 0-2200	1-30 & F: 0-2200	1-30 & F: 0-2200	1-30 & F: 0-2200
Weight	3.3 lbs. (incl. 4.2Ah [EYFB42B]) 2.83 lbs. (incl. 2.0Ah [EYFB41B])	3.3 lbs. (incl. 4.2Ah [EYFB42B]) 2.83 lbs. (incl. 2.0Ah [EYFB41B])	6.6 lbs. (incl. 5.0Ah [EYFB50B])	6.6 lbs. (incl. 5.0Ah [EYFB50B])	7.7 lbs. (incl. 4.2Ah [EYFB60B])	7.7 lbs. (incl. 4.2Ah [EYFB60B])
Size (L x W x H)	6-25/32" x 9-25/32" x 2-61/64"	6-25/32" x 9-25/32" x 2-61/64"	9-11/64" x 11-1/4" x 3-1/32"	9-11/64" x 11-1/4" x 3-1/32"	9-27/32" x 11-5/8" x 2-61/64"	9-27/32" x 11-5/8" x 2-61/64"
Wireless Communication with assembly qualifier:	—	✓	—	✓	—	✓
2-Way Communication	—	—	—	✓ [EYFR03/EYFR04 only]	—	✓ [EYFR03/EYFR04 only]
LED Work Light: (ON/OFF Switch)	✓	✓	✓	✓	✓	✓
OK/NOK Light: (Green: OK / Red: NOK)	✓	✓	✓	✓	✓	✓
Rehit Prevention: (Possible to set per 0.1 sec. between 0-3 sec.)	✓	✓	✓	✓	✓	✓
Battery Indication Lamp: (3 stage)	✓	✓	✓	✓	✓	✓
Low Power Disable	✓	✓	✓	✓	✓	✓
Prevent / Detect Cross Threads & Rehits	—	—	✓	✓	✓	✓
Maintenance Interval Alarm	—	—	✓	✓	✓	✓
Variable speed On/Off Switch	—	—	✓	✓	✓	✓
LED Light Setting: On/Off or On with pull of switch	—	—	✓	✓	✓	✓
Buzzer: On / Off	—	—	✓	✓	✓	✓
Snug torque detection delay (Possible to set between 0-3 sec. 0.1 sec. per stage)	—	—	—	—	—	—
Long socket mode (h1: for 150mm socket, h2: for 250mm socket)	—	—	—	—	—	—
Work Capacity/Fastening Speed	<M12: 71 N-m, Stage: 22> [EYFB42B] approx. 780 pcs/pack, approx. 0.9 sec/1pcs [EYFB41B] approx. 350 pcs/pack, approx. 0.9 sec/1pcs		<M12: 100 N-m, Stage: 13> approx.500pcs/pack		<M16: 180 N-m, Stage: 6> approx.450pcs/pack	
Charging Time	[Battery pack EYFB42B, Charger EY0L82B] Usable Charge: approx. 50 min., Full Charge: approx. 60 min [Battery Pack EYFB41B, Charger EY0L82B] Usable Charge: approx. 35 min., Full Charge: approx. 40 min		[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		[Battery pack EYFB60B, Charger EY0L82B] Usable Charge: approx. 65 min. Full Charge: approx. 85 min	

## 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



**EYFB51B**  
18V 3.0Ah 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



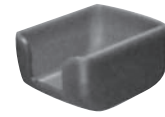
**EYFA02-H**  
Battery Protector  
for EYFB30B



**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



**EYFA11-H**  
Battery Protector  
for EYFB51B



**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)



**EYFA09**  
EYFNA Tool Protectors  
-A (blue) -Y (yellow)  
-H (gray) -G (green)



**EYFA07**  
EYFPA 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)

### Accessories



**EYFA32B**  
Clutch Adjustment Tool  
for EYFG Series Tools



**EYFA40B**  
EYFG  
Tool Hanger



**EYFLM-H**  
EYFL/EYFM  
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

## Panasonic Quality Control Monitoring





With highly efficient tools and qualifiers, Panasonic offers a reliable quality control system.



Transmitter is located in tool handle. Does not increase the size of the tool.



## Comparison of Assembly Qualifiers

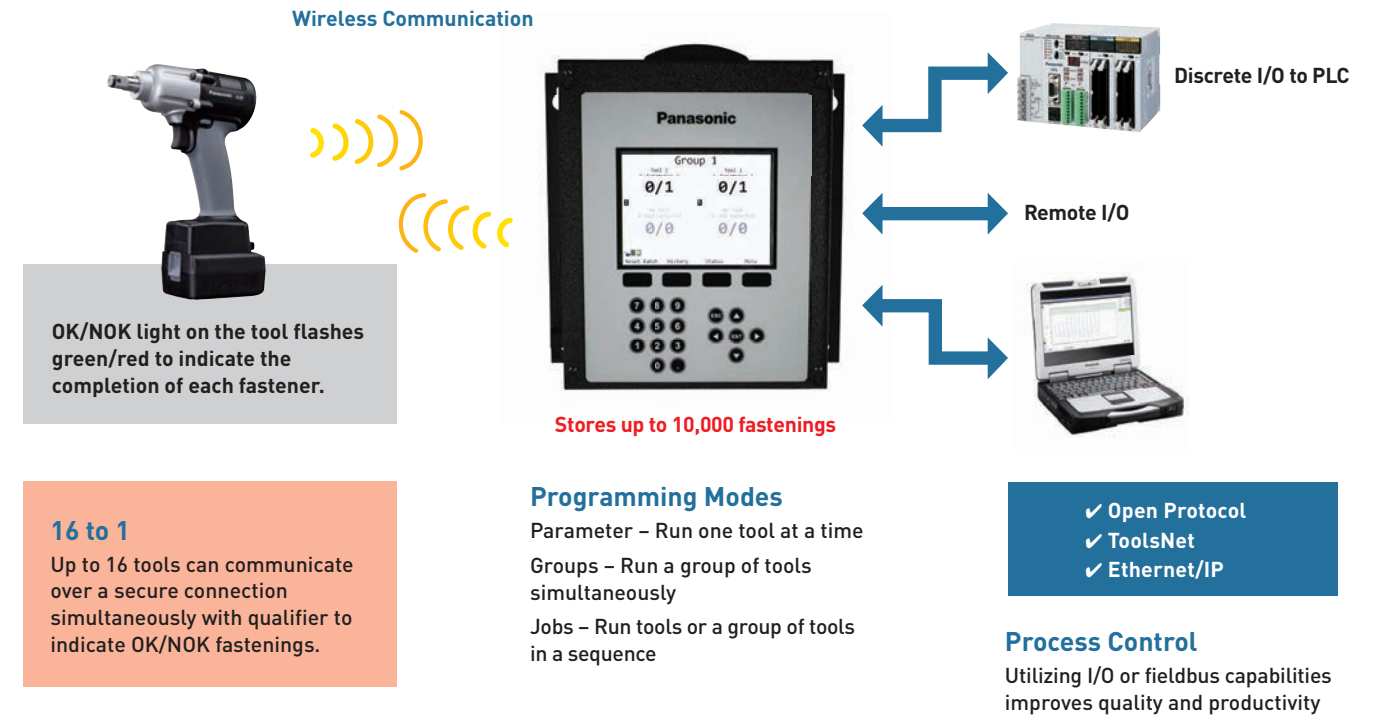
MODEL	EYFR02B	EYFR03A	EYFR03B	EYFR04A
				
Graphics Display	—	✓	✓	✓
Multiple Stations	—	—	—	✓
Number of Tools Connectivity	1	16	16	16
Number of Tools Simultaneously	1	16	16	4
1-Way Radio Communication	✓	✓	✓	✓
<b>NEW!</b> 2-Way Radio Communication	—	✓	✓	✓
Discrete Inputs/Outputs	1/2	8/12	—	8/12
USB Ports	—	1	1	1
Ethernet Ports	—	2	2	2
Serial Port	1	1	1	1
Remote Inputs/Outputs Connection	—	✓	✓	✓
PLC Integration	✓	✓	*With Remote I/O Box	✓
Ethernet IP/Open Protocol & ToolsNet	—	✓	✓	✓
Data Collection	—	10,000 rundowns onboard or via Ethernet		5,000 rundowns per station onboard or via Ethernet
Batch Counting	*With PLC	✓	✓	✓
Tool Sequencing	—	✓	✓	✓
Bar Code Scan Capability	—	✓	✓	✓
Remote Tool Disable	✓	✓	✓	✓
Out of Range Disable / Anti-Theft	✓	✓	✓	✓
Recommended Range	33' (10M)			
Rated Supply Voltage	AC 100-240V, 50/60 Hz			
I/O Voltage	5A @ 30VDC	2A @ 24VDC		
Dimensions (L x H x W)	9-1/16" x 14-1/8" x 3-1/2"	10-1/4" x 10-3/4" x 4-1/4"		
Operating Temperature Range	14-140°F [(-10)-60°C]			
Compatible Tools	EYFGA1NR, EYFGA2NR, EYFGA3NR, EYFLA4AR, EYFLA5AR, EYFLA5PR, EYFLA5QR, EYFLA6JR, EYFLA6PR, EYFMA1JR, EYFMA1PR, EYFNA1CR, EYFNA1CRT, EYFNA1JR, EYFNA1JRT, EYFNA1PR, EYFNA1PRT, EYFPA1JR, EYFPA1JRT, EYFLA7AR, EYFLA8AR, EYFLA8CR, EYFLA8PR, EYFLA9CR, EYFLA9PR, 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/B

### Multi-Tool Assembly Qualifier



2-Way Compatible Tools - Accupulse HR 2Way Series and EYFNA1CRT, EYFNA1PRT, EYFNA1JRT and EYFPA1JRT  
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

#### Wireless Communication



OK/NOK light on tool flashes green/red to indicate completion of each fastener.

#### 4 Interfaces

Multi-Station feature allows use of 1 qualifier over 4 stations to configure 16 tools in any combination.



Stores up to 5,000 fastenings per station

#### Programming Modes

Parameters – Run one tool at a time  
Jobs – Allows parameters to run in a specified order.



Discrete I/O to PLC

Remote I/O



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

#### Process Control

Utilizing I/O or fieldbus capabilities improves quality and productivity

2-Way Compatible Tools - Accupulse HR 2Way Series and EYFNA1CRT, EYFNA1PRT, EYFNA1JRT and EYFPA1JRT  
1-Way Compatible Tools - AccuPulse HR 2Way Series and Mechanical Radio Version

## EYFR02B

### Single Tool Assembly Qualifier

#### Wireless Communication



OK/NOK light on the tool housing flashes green/red to indicate the completion of each fastener.



OK/NOK signal and Tool ID Data is transmitted from the tool to the qualifier



Green light Indicates a successful fastening  
Red light indicates unsuccessful fastening



Discrete I/O to PLC

From qualifier, the following data can be output to a computer or PLC  
• OK/NOK

## 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.



Utilizes a highly reliable radio system to extend the operating range

#### 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.



## EYFEXP16

### I/O Expansion Module



- Expansion module for EYFR03 & EYFR04 provides discrete I/O functions
- 16 user-assignable inputs and outputs with a single common reference point
- Up to four EYFEXP16 modules may be chained from a single EYFR03 & EYFR04 if additional inputs or outputs are needed
- Display shows status of inputs and outputs for the module or an error code if module has detected a communications error
- Compact size (L x H x W): 9" x 5 1/2" x 2 1/2"
- Weight: 2.5 lbs

## EYFRZ02CA

I/O Cable for EYFR02B  
Assembly Qualifiers - 25 ft.



## EYFR03CA

I/O Cable for EYFR03/EYFR04  
Assembly Qualifiers (Discrete I/O) - 25 ft.





# Standard / Optional Accessory Chart

		CLUTCH TOOLS									
		7.2V		14.4V							
		EYFEA1N	EYFEA1N2S	EYFGA1N	EYFGA1NR	EYFGA2N	EYFGA2NR	EYFGA3N	EYFGA3NR	EYFGB1N	EYFGB2N
<b>BATTERY PACKS</b>											
7.2V 1.5Ah Li-ion Battery Pack	EY9L20B	○	●								
10.8V 2.0Ah Li-ion Battery Pack	EYFB32B										
10.8V 3.0Ah Li-ion Battery Pack	EYFB30B										
14.4V 2.0Ah Li-ion Battery Pack	EYFB41B			○	○	○	○	○	○	○	○
14.4V 4.2Ah Li-ion Battery Pack	EYFB42B			○	○	○	○	○	○	○	○
18V 3.0Ah Li-ion Battery Pack	EYFB51B										
18V 5.0Ah Li-ion Battery Pack	EYFB50B										
21.6V 4.2Ah Li-ion Battery Pack	EYFB60B										
<b>CHARGERS</b>											
Charger for Panasonic Li-ion Battery 7.2V (EY9L20B)	EY0L20B	○	●								
Charger for Panasonic Li-ion Batteries 10.8V - 28.8V	EY0L82B			○	○	○	○	○	○	○	○
<b>QUALIFIERS</b>											
Single Tool Qualifier	EYFR02B				○		○		○		
Multi-Tool Qualifier With Networking	EYFR03A				○		○		○		
Multi-Tool Qualifier With Networking	EYFR03B				○		○		○		
Multi-Station Qualifier with Networking	EYFR04A				○		○		○		
<b>TOOL COVERS</b>											
Protector for EYFB30B Battery - Gray	EYFA02-H										
Protector for EYFB32B Battery - Gray	EYFA03-H										
Protector for EYFB40B/EYFB42B Battery - Gray	EYFA04-H			○	○	○	○	○	○	○	○
Protector for EYFB41B Battery - Gray	EYFA06-H			○	○	○	○	○	○	○	○
Protector for EYFB50B Battery - Gray	EYFA10-H										
Protector for EYFB51B Battery - Gray	EYFA11-H										
Protector for EYFB60B Battery - Gray	EYFA08-H										
Protector for EYFG - Blue	EYFA05-A			○	○	○	○	○	○	○	○
Protector for EYFG - Gray	EYFA05-H			○	○	○	○	○	○	○	○
Protector for EYFG - Yellow	EYFA05-Y			○	○	○	○	○	○	○	○
Protector for EYFL/EYFM 10.8V & 14.4V - Blue	EYFA01-A										
Protector for EYFL/EYFM 10.8V & 14.4V - Green	EYFA01-G										
Protector for EYFL/EYFM 10.8V & 14.4V - Gray	EYFA01-H										
Protector for EYFL/EYFM 10.8V & 14.4V - Yellow	EYFA01-Y										
Protector for EYFN 18V - Blue	EYFA09-A										
Protector for EYFN 18V - Green	EYFA09-G										
Protector for EYFN 18V - Gray	EYFA09-H										
Protector for EYFN 18V - Yellow	EYFA09-Y										
Protector for EYFP 21.6V - Blue	EYFA07-A										
Protector for EYFP 21.6V - Green	EYFA07-G										
Protector for EYFP 21.6V - Gray	EYFA07-H										
Protector for EYFP 21.6V - Yellow	EYFA07-Y										
<b>ACCESSORIES</b>											
Clutch Adjustment Tool for EYFG Clutch Tools	EYFA32B			●	●	●	●	●	●	●	●
Clutch Lock Out Cover EYFEA1N	WEYFEA1N3137	●	●								
Remote Control for all EYFL, EYFM, EYFN, EYFP, EYFGA Series Tools	EYFA31B			○	○	○	○	○	○	○	○
Tool Hanger for EYFG Clutch Tools	EYFA40B			○	○	○	○	○	○	○	○
Tool Hanger for EYFL 10.8V & 14.4V Mechanical Pulse Tools	EYFLM-H										
Tool Hanger for EYFN/EYFP 18V & 21.6V Mechanical Pulse Tools	EYFA41B										

MECHANICAL PULSE TOOLS																								
10.8V										14.4V				18V				21.6V						
EYFLA4A	EYFLA4AR	EYFLA5A	EYFLA5AR	EYFLA5Q	EYFLA5QR	EYFLA5P	EYFLA5PR	EYFLA6J	EYFLA6JR	EYFLA6P	EYFLA6PR	EYFMA1J	EYFMA1JR	EYFMA1P	EYFMA1PR	EYFNA1C	EYFNA1CRT	EYFNA1J	EYFNA1JRT	EYFNA1P	EYFNA1PRT	EYFPA1J	EYFPA1JRT	
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## Standard / Optional Accessory Chart

<b>● STANDARD</b>	
<b>○ OPTIONAL</b>	
<b>BATTERY PACKS</b>	
10.8V 2.0Ah Li-ion Battery Pack	EYFB32B
10.8V 3.0Ah Li-ion Battery Pack	EYFB30B
14.4V 2.0Ah Li-ion Battery Pack	EYFB41B
14.4V 4.2Ah Li-ion Battery Pack	EYFB42B
<b>CHARGERS</b>	
Charger for Panasonic Li-ion Batteries 10.8V - 28.8V	EY0L82B
<b>QUALIFIERS</b>	
Single Tool Qualifier	EYFR02B
Multi-Tool Qualifier	EYFR03A
Multi-Tool Qualifier	EYFR03B
Multi-Station Qualifier	EYFR04A
<b>TOOL COVERS</b>	
Protector for EYFB30B Battery - Gray	EYFA02-H
Protector for EYFB32B Battery - Gray	EYFA03-H
Protector for EYFB40B/EYFB42B Battery - Gray	EYFA04-H
Protector for EYFB41B Battery - Gray	EYFA06-H
AccuPulse HR Tool Protector - Blue	EYFA13-A
AccuPulse HR Tool Protector - Yellow	EYFA13-Y
AccuPulse HR Tool Protector - Grey	EYFA13-H
AccuPulse HR Tool Protector - Orange	EYFA13-D
AccuPulse HR Tool Protector - Green	EYFA13-G
<b>ACCESSORIES</b>	
I/O Cable for EYFR02 Single Tool Qualifier	EYFRZ02CA
I/O Cable for EYFR03/EYFR04 Multi-Tool Qualifier	EYFR03CA
Remote Control for all EYFL, EYFM, EYFN, EYFP, EYFGA Series Tools	EYFA31B
Tool Hanger for EYFL 10.8V & 14.4V Mechanical Pulse Tools	EYFLM-H
IO Expansion Module	EYFEXP16

AccuPulse HR								AccuPulse HR 2Way Series								Qualifiers			
10.8V				14.4V				10.8V				14.4V							
EYFLA7A	EYFLA8A	EYFLA8C	EYFLA8P	EYFLA9C	EYFLA9P	EYFMA2C	EYFMA2P	EYFLA7AR	EYFLA8AR	EYFLA8CR	EYFLA8PR	EYFLA9CR	EYFLA9PR	EYFMA2CR	EYFMA2PR	EYFR02B	EYFR03A	EYFR03B	EYFR04A
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## Battery Pack/Battery Charger – Compatibility Chart

VOLTAGE	MODEL	BATTERY	CHARGING TIMES USABLE: FULL CHARGE	CHARGER
21.6V	EYFPA1J/1JRT	EYFB60B (4.2Ah)	65 min : 85 min	EY0L82B
18V	EYFNA1C/EYFNA1CRT, EYFNA1J/EYFNA1JRT EYFNA1P/EYFNA1PRT	EYFB50B (5.0Ah)	65 min : 80 min	
		EYFB51B (3.0Ah)	65 min : 80 min	
14.4V	EYFGA1N/1NR, EYFGA2N/2NR, EYFGA3N/3NR EYFGB1N, EYFGB2N, EYFGB3N, EYFMA1J/1JR, EYFMA1P/1PR, EYFMA2P/PR	EYFB41B (2.0Ah)	35 min : 40 min	
		EYFB42B (4.2Ah)	50 min : 60 min	
10.8V	EYFLA4A/4AR, EYFLA5A/5AR, EYFLA5P/5PR, EYFLA5Q/5QR EYFLA6J/6JR, EYFLA6P/6PR, EYFLA7A/7AR, EYFLA8A/C/P/ 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/5P/5Q EYFLA5AR/5PR/5QR	EYFLA6J/6P EYFLA6JR/6PR	EYFMA1J/1P EYFMA1JR/1PR	EYFNA1C/1J/1P EYFNA1CRT/1JRT/1PRT	EYFPA1J EYFPA1JRT
	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
Application Capacity/ Working Speed	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	—	—	—
	EYFB42B 4.2Ah Battery	—	—	—	785 pcs/pack 0.9 sec/1 pcs	—	—
	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
Application Capacity/ Working Speed	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	—
	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	—
	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	JOINT	EYFGA1N/1NR EYFGB1N	EYFGA2N/2NR EYFGB2N	EYFGA3N/3NR EYFGB3N
	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\*

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

Note: \*Approximately

# 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 cable 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
- Grease included





## Rotary Transducers

MODEL NUMBER	TORQUE RANGE [Nm]	OVERLOAD PROTECTED	DRIVE
EYFRT50CNM	.05 - .50	Yes	1/4" Hex
EYFRT100CNM	.1 - 1	Yes	1/4" Hex
EYFRT200CNM	.2 - 2	Yes	1/4" Hex
EYFRT5NM	.5 - 5	—	1/4" Hex
EYFRT10NM	1 - 10	—	1/4" Hex
EYFRT20NM	1 - 20	—	1/4" Hex
EYFRT50NM	1 - 50	—	3/8" Square
EYFRT100NM	1 - 100	—	1/2" Square
EYFRT200NM	1 - 200	—	1/2" Square
EYFRT500NM	1 - 500	—	3/4" Square

### Lean System

- Ultra compact size. Extremely convenient for tight spaces
- Integrated electronics eliminate the need for a separate analyzer
- Basic software version included, compatible with Windows based PC or tablets
- Mini USB cable included

### Multiple Interface Options

- RS-485
- Ethernet
- USB

### High Resolution Incremental Encoder (0.1 degrees)

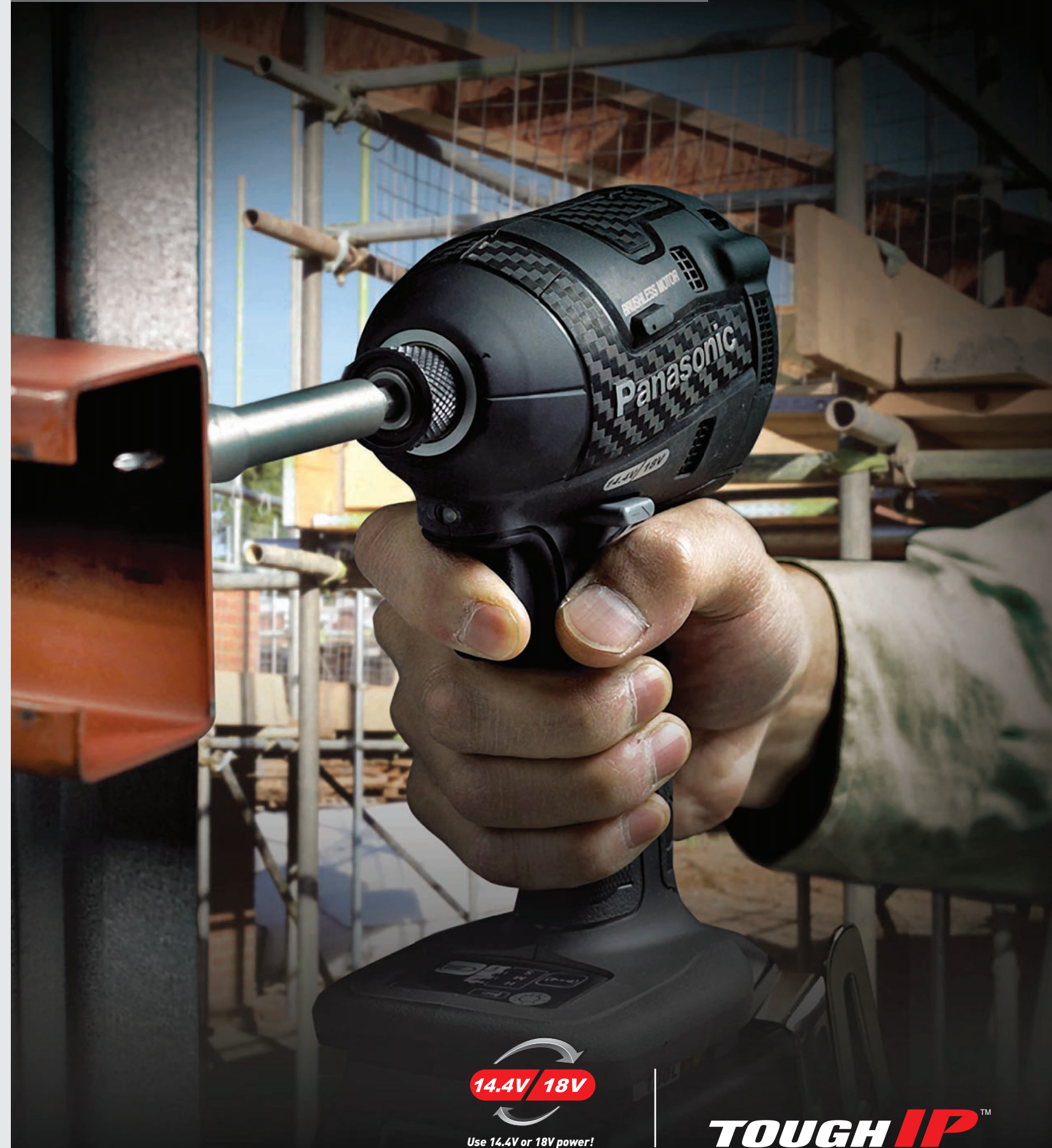
- High precision strain gauge based torque sensors
- Brushless energy and signal transmission system
- Immediate conversion from analog to digital at the point of reading from the rotor. Other systems convert analog readings outside of the transducers and requires separate analyzer hardware
- Converts analog to digital at 24 bits
- Contactless, photocoupler transmission bitrate of 176 kb per second

### Durable

- Double bearings
- Mechanical overload protection clutch in sensors up to 200 cNm range



## Professional Cordless Power Tools



14.4V / 18V

Use 14.4V or 18V power!

**TOUGH IP™**



# Professional Power Tool Lineup

## Ni-MH



**EY6220N/  
EY6220NQ**  
Cordless Drill & Driver Kit

## 3.6V



**EY7411LA2S**  
Drill & Driver

**EY7410LA1C/  
EY7410LA2S**  
Drill & Driver

## 7.2V



**EY7420LA2J**  
Drill & Driver

## 14.4V



**EY3640LS1S**  
Sealing Gun

**EY3641LS1S**  
Sealing Gun

## 18V



**EY7552X/  
EY7552LS2S**  
Impact Wrench

## 14.4V / 18V Series with Dual Voltage



**EY74A2X/  
EY74A2LS2G**  
Drill & Driver



**EY75A4X/  
EY75A4LS2G**  
Impact Driver



**EY75A5X/  
EY75A5LS2G**  
Impact Wrench



**EY75A7X/  
EY75A7LS2G**  
Impact Driver



**EY75A8X/  
EY75A8LS2G**  
Impact Wrench

# Dual-Voltage and Battery Technology

## Versatility, high performance and long runtimes



### 14.4V

14.4V batteries offer lightweight comfort in a compact size.



### 18V

Using 18V batteries maximizes runtime.

## Panasonic battery packs offer protection, durability and long life

### Monitoring of Individual Battery Cells

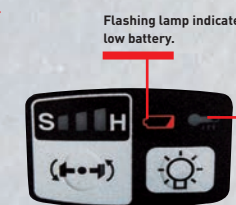
Each 3.6V segment is monitored by a sensor to ensure optimal discharge control, preventing over-charging and over-discharging.

### Over-discharge Prevention Sensor

A sensor works to prevent overdischarging (discharge of the battery until voltage falls below a minimum threshold).

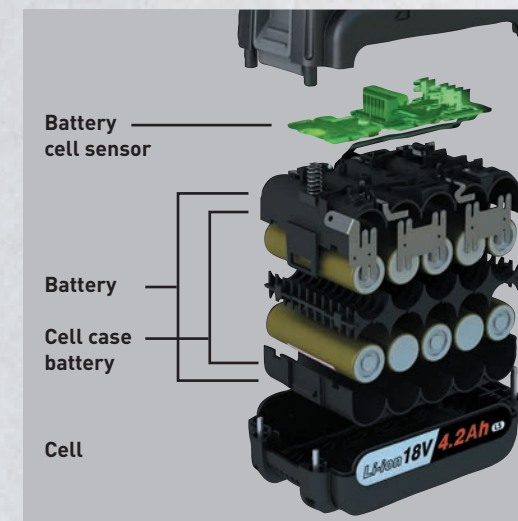
### Battery Overheat Protection Sensor

A temperature sensor cuts off power to the motor before the battery temperature rises to a harmful level and flashes a warning lamp on the tool's control panel to notify the user.



Flashing lamp indicates low battery.

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





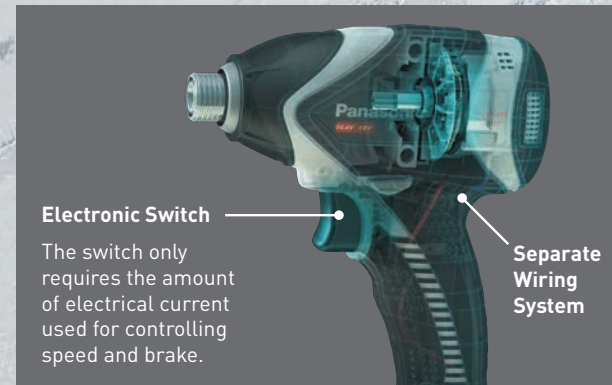
# Cordless Tools with Advanced Features

Tough. Durable. Innovative.

Panasonic has developed intelligent power tools to increase task efficiency as well as operate in tough conditions of various jobsites. Panasonic continues to evolve its technology and provide tools that meet any type of job requirements.

Featuring dust and water resistant technologies, our tools comply with International Protection standards.

## Long-lasting, Brushless Motor



**Electronic Switch**

The switch only requires the amount of electrical current used for controlling speed and brake.

**Separate Wiring System**

## Switch

An additional rubber cap seals the switch and protects it against dust and water.



## Electronic Circuit

Electronic circuits and battery pack are protected to withstand water and dust.



## Battery

Battery cells are designed to protect against moisture and keep performing at their best.



Intelligent Power Tool Evolution  
**TOUGH IP™**

## Results

Panasonic cordless tools are protected with a dust-tight, water-tight design and are IP56 certified per IEC standards. Every day we demonstrate our ongoing commitment to heavy industry by providing workers with superior tools for the harshest job conditions.

**International Protection Code** classifies the degree of protection provided against intrusion of solid foreign objects and liquids in electrical machinery and fixtures as defined by IEC standards.

# IP56

**HIGH LEVEL TEST RESULTS**

**Dust Resistance Level** indicates the degree of protection provided against the intrusion of solid foreign objects using a scale of six levels.

Level	Brief description
1	Protected against solid foreign objects of 50mm Ø and greater
2	Protected against solid foreign objects of 12.5mm Ø and greater
3	Protected against solid foreign objects of 2.5mm Ø and greater
4	Protected against solid foreign objects of 1.0mm Ø and greater
5	Dust protected
6	Dust-tight

**Water Resistance Level** Indicates the degree of protection provided against the intrusion of water associated with harmful effects using a scale of eight levels.

Level	Brief description
1	Protected against vertically falling water drops
2	Protected against vertically falling water drops when enclosure tilted up to 15°
3	Protected against spraying water
4	Protected against splashing water
5	Protected against water jets
6	Protected against powerful water jets
7	Protected against the effects of temporary immersion in water
8	Protected against the effects of continuous immersion in water

# Professional Grade Cordless Tools

Extremely Compact with High Power

**TOUGH TOOL IP™**

Drill & Driver **EY74A2** **7 inches**



Actual size

Impact Driver **EY75A7** **4.64 inches**





# Impact Driver

Works Hard, Stays Cool & Comfortable

## 1. ADVANCED ERGONOMICS



The shorter brushless motor helped create an ultra-compact, high-powered impact driver with optimum ergonomics.

## 2. MULTIPLE MODES FOR ALL APPLICATIONS



**Hard:**  
For heavy duty applications.



**Medium:**  
For general fastening applications.



**Soft:**  
For delicate applications, like drywall.



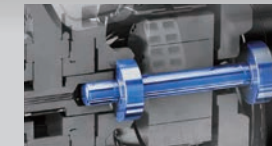
**Self-drilling screw mode**  
For self-drilling screws into metal.



### SELF DRILLING SCREW MODE

*Self-Drilling Screw mode* starts at highest speed to drill through the metal and then switches to *H mode* (High impact) to powerfully cut initial thread. After that, load is reduced so it automatically switches to slower *S mode* (Soft impact) to limit potential of stripping threads on fastener or material. (Less than Ø4 x 15mm).

## 3. ROBUST BUILD FOR HEAVY-DUTY USE



### BRUSHLESS MOTOR

The ultra-compact brushless motor improves efficiency, performance and incorporates rare earth magnets for faster working speeds and high power density, about doubling motor life.\*



### DURABLE SWITCH

The hybrid switch allows the brake to be controlled on a separate circuit and uses rigid metal parts to increase durability, about doubling switch life.\*\*



### ROBUST ANVIL

Anvil materials with innovative design have increased durability of impact parts giving longer service life and better overall performance.



### HOUSING DURABILITY

Metal tabs have been added to the housing where the battery locks onto the tool. This helps prevent wear and damage caused by abrasion and vibration during heavy use.

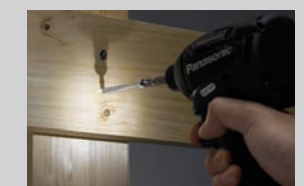
## DESIGN FEATURES



"Tire tread" pattern design prevents slipping and increases operator comfort.



Tapered bit holder for easy bit change.



LED light improves visibility in work area.

\*Compared with Panasonic conventional brushed motor

\*\*Compared with our previous mechanical switch



# Drill & Driver / Impact Drivers

## EY74A2LS2G / EY74A2X

### 1/2" Drill & Driver

### Dual Voltage Technology



**EY74A2X:**  
Battery pack and battery charger not included.

- Compact size (L x H x W): 7" x 9-27/32" x 2-11/16"
- Brushless motor and hybrid switch
- Speed control function
- Clutch torque (Approx.): 4.4-38.9 in. lbs. 2.0 in. lbs. per stage, total 18 stage
- 1/2" Heavy duty keyless chuck
- Electric brake
- Low battery indicator, belt hook & LED work light
- Max. drill diameter: in Wood: dia. 1-1/2" in Metal: dia. 1/2"
- Max. screw driving: wood screw: dia. 5/16" Self-drilling screw: dia. 1/4"

Rotation Speed	Low	Application Example	High	
<b>H</b>	300 rpm	Normal steel : dia. 15-25 / Stainless steel: dia. 10-15	1000 rpm	Precise
<b>M</b>	200 rpm	Normal steel : dia. 25 / Stainless steel: dia. 15-25	670 rpm	
<b>L</b>	150 rpm	Normal steel : dia. 30 / Stainless steel: dia. 20	500 rpm	

\*Charging times are approximate and may be slightly longer depending on conditions.

## EY75A4LS2G / EY75A4X

### 1/4" Hex Impact Driver

### Dual Voltage Technology



**EY75A4X:**  
Battery pack and battery charger not included.

- High power: Impact Mode: 1,370 in. lbs. (114 ft. lbs.)
- Brushless motor and hybrid switch
- Electric brake
- 1/4" hex quick connect collet
- Low battery indicator, belt hook and LED work light
- Compact size (L x H x W): 5-5/8" x 9-17/32" x 2-13/16"
- Light weight (incl. EY9L51B 4.2Ah battery): 3.53 lbs.

Tool Specs	
<b>Max. Torque</b>	1,370 in. lbs.*
<b>Speed at No Load</b>	0 - 2,500 rpm
<b>Impact/min.</b>	0 - 3,000 ipm

\*M14 High tensile bolt tightening for 3 sec.

\*Charging times are approximate and may be slightly longer depending on conditions.

## EY75A7LS2G / EY75A7X

### 1/4" Hex Impact Driver

### Dual Voltage Technology



**EY75A7X:**  
Battery pack and battery charger not included.

- High power: Impact Mode: 1,416 in. lbs. (118 ft. lbs.)
- Brushless motor and hybrid switch
- Self-drilling Screw mode
- Electric brake
- 1/4" hex quick connect collet
- Low battery indicator, belt hook and LED work light
- Compact size (L x H x W): 4-21/32" x 9-17/32" x 2-19/32"
- Light weight (incl. EYFB50B 5.0Ah Battery): 3.75 lbs

Tool Specs	High/Hard Mode	Medium Mode	Low/Soft Mode	Self-drilling Screw Mode
<b>Max. Torque</b>	1,416 in. lbs.**	1,150 in. lbs.**	230 in. lbs.***	1,150 in. lbs.**
<b>Speed at no load</b>	0 - 2,500 rpm	0 - 1,450 rpm	0 - 950 rpm	0 - 2,500 rpm
<b>Impact/min.</b>	0 - 3,100 ipm	0 - 2,900 ipm	0 - 1,900 ipm	0 - 1,200 ipm

\*\*M14 High tensile bolt tightening for 3 sec.

\*\*\*M10 High tensile bolt tightening for 3 sec.

\*Charging times are approximate and may be slightly longer depending on conditions.

# Impact Wrenches



## EY75A5LS2G / EY75A5X

### 1/2" Impact Wrench

### Dual Voltage Technology

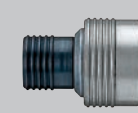


**EY75A5X:**  
Battery pack and battery charger not included.

- High power: Impact Mode: 1,815 in. lbs. (151 ft. lbs.)
- Brushless motor and hybrid switch
- Variable speed trigger/reversible
- 1/2" square drive with 1/4" quick change adapter (EY9HX111E)
- Electric brake
- Low battery indicator, belt hook and LED work light
- Compact size (L x H x W): 6-1/8" x 9-17/32" x 2-13/32"
- Light weight (incl. battery): 3.75 lbs.

**Standard Accessory**  
1/2" square drive to 1/4" quick change adapter

**EY9HX111E**



Tool Specs	
<b>Max. Torque</b>	1,815 in. lbs.*
<b>Speed at No Load</b>	0 - 2,300 rpm
<b>Impact/min.</b>	0 - 3,500 ipm

\*M16 high tensile bolt tightening for 3 seconds

\*Charging times are approximate and may be slightly longer depending on conditions.

## EY75A8LS2G / EY75A8X

### 1/2" Impact Wrench

### Dual Voltage Technology



**EY75A8X:**  
Battery pack and battery charger not included.

- Newly designed hammer mechanism for high power & durability in a compact form
- High power max torque: 280Nm/206 ft. lbs (18V)
- Brushless motor and hybrid switch
- Variable speed trigger/reversible
- Electric brake
- 1/2" square drive with ball detent
- Low battery indicator, belt hook and LED work light
- Ultra compact size (L x H x W): 5-5/8" x 9-13/16" x 2-7/8"
- Light weight (incl. EY9L51B 4.2Ah battery): 3.96 lbs

		HIGH	MEDIUM	LOW
<b>RPM</b>	14.4V	0 - 2,300	0 - 1,500	0 - 1,000
	18V	0 - 2,500	0 - 1,500	0 - 1,000

		HIGH (M20)	MEDIUM (M16)	LOW (M12)
<b>TORQUE</b>	14.4V	Nm 260 Ft lbs. 192	140 103	120 88
	18V	Nm 280 Ft lbs. 206	140 103	120 88

\*Charging times are approximate and may be slightly longer depending on conditions.

## EY7552LS2S / EY7552X

### High Torque Impact Wrench

18V



**EY7552X:**  
Battery pack and battery charger not included.

- High torque output 470Nm (346 ft. lbs.)
- Twin hammer design for durability, speed & size
- 1/2" square drive with friction ring and through hole design
- Low vibration and noise level
- Electric brake
- Battery level indicator
- Compact size (L x H x W): 8-7/16" x 9-15/16" x 3-1/16"
- Light weight (incl. battery): 5.7 lbs.

Tool Specs	
<b>Max. Torque</b>	470Nm (346 ft. lbs.)
<b>Speed at no load</b>	0 - 1,550 rpm
<b>Impact/min.</b>	0 - 2,400 ipm

\*Charging times are approximate and may be slightly longer depending on conditions.



# Screwdrivers

## EY6220NQ / EY6220N

### Cordless Drill & Driver Kit

2.4V



**EY6220N:**  
1 battery pack included.  
Charger not included.

- Max. Torque: Low: 26 in. lbs. High: 13 in. lbs.
- Speed at no load: Low: 200 rpm High: 400 rpm
- Clutch Torque (approx.): 3.5, 6.3, 9.1, 11.9, 14.7, 17.5 in. lbs. (multi-stage) (Max. Torque at 6 position)
- Easily converts from straight to pistol form
- 2-speed gear box
- Multi-stage clutch plus drill, 1/4" hex drive
- Gear lock mechanism for manual tightening
- EY6220NQ Kit includes 1 - EY6220, 1 - (EY9221B) 2.8Ah 2.4V Ni-MH battery, and 1 - (EY0L11B) charger.



## EY7410LA2S / EY7410LA1C

### Cordless Screwdriver Kit

3.6V



**EY7410LA1C:**  
1 battery pack included.  
Charger not included.

- Compact size [L x H x W]: 10-7/8" x 5-9/32" x 1-13/16" in straight format
- Powerful: Low: 39.0 in. lbs. High: 13.3 in. lbs.
- 2-speed reversible: Low: 200 rpm High: 600 rpm
- Clutch torque (Approx.): 2.7-25.7 in. lbs. (0.9 in. lbs. per stage, total 21 stage)
- 21-stage clutch with auto shut off
- 1/4" hex quick change chuck
- LED work light, low battery indicator
- EY7410LA2S Kit includes 1 - EY7410, 2 - (EY9L10B) 1.5Ah 3.6V Li-ion batteries, 1 - (EY0L11B) charger, and case.



\*Charging times are approximate and may be slightly longer depending on conditions.

## EY7411LA1S

### Cordless Screwdriver Kit with Batch Counting

3.6V



**EY7411:**  
1 battery pack, clutch cover and  
charger included.

- Batch count function up to 99 fasteners
- 21-stage clutch with auto shut off (Approx.): 2.7-25.7 in. lbs.
- Rehit prevention function, 3 programmable tones for batch complete
- 2-speed/reversible: Low: 200 rpm High: 600 rpm
- LED work light, low battery indicator
- Long lasting 1.5Ah Li-ion battery
- 1/4" hex quick change chuck
- Powerful: Low: 39.0 in. lbs. High: 13.3 in. lbs.
- Compact size [L x H x W]: 10-7/8" x 5-9/32" x 1-13/16" in straight format
- Kit includes 1 - EY7411LA1S, 1 - (EY9L10B) 1.5Ah 3.6V Li-ion battery, 1 - (EY0L11B) charger, 1 - (EY9X007E) clutch cover



Standard accessory  
Clutch lock cover  
**EY9X007E**

## EY7420LA2J

### Screwdriver Kit

7.2V



- 21-stage clutch with auto shut off (Approx.): Low: 2.7-35.4 in. lbs. High: 2.7-17.7 in. lbs.
- 2-speed/reversible: Low: 300 rpm High: 900 rpm
- No low battery disable\*
- 1/4" hex quick change chuck
- Powerful: High: 17.7 in. lbs. Low: 53.1 in. lbs.
- Compact size [L x H x W]: 5-3/4" x 7-7/8" x 1-5/8"
- Max. screw driving: High: M4 screw Low: M5 screw
- Kit includes 1 - (EY7420) Tool, 2 - (EY9L20B) 1.5Ah 7.2V Li-ion battery, 1 - (EY0L20B) charger, 1 - (WEYFEA1N3137) clutch lock cover

#### Screwdriver Working Capacity\*

	MODEL	FASTENING	EYFEA1N
Application Capacity	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

Note: \*Approximately

\*Tool will not maintain torque level at low battery condition.

# Sealing Guns



# Battery Chargers

## EY3640LS1S

### 14.4V Cordless Sealing Gun - Cartridge Only

14.4V



- 5-stage electric speed control dial for adjusting pressure
- Fully automatic decompression
- Push Force - 4,410N (450 kgf., 992 lbs.)
- 60 minute charge time
- Accepts 10.3 oz. cartridge
- Dimensions - 16-11/16" x 9-5/8" x 5-1/2"
- Weight - 6.06 lbs.

## EY3641LS1S

### 14.4V Cordless Sealing Gun - Cartridge & Sausage

14.4V



- 5-stage electric speed control dial for adjusting pressure
- Fully automatic decompression
- Push Force - 4,410N (450 kgf., 992 lbs.)
- 60 minute charge time
- Accepts 10.3 oz. cartridge and 20 oz. sausage pack
- Dimensions - 22-1/16" x 9-5/8" x 5-1/2"
- Weight - 6.28 lbs.

\*Charging times are approximate and may be slightly longer depending on conditions.

## EY0L10B

### Charger for Li-ion & Ni-CD Batteries

- Accepts Panasonic **2.4V-3.6V** battery packs (see below for details)

	BATTERY TYPE		
	Li-ion	Ni-Cd	
	LA TYPE	C TYPE	D TYPE
3.6V	EY9L10B	EY9025B	
2.4V			EY9021B
Charging time	15 min.* + 30 min.	15 min.	15 min.



## EY0L11B

### Charger for Li-ion & Ni-MH Batteries

- Accepts Panasonic **2.4V-3.6V** battery packs (see below for details)

	BATTERY TYPE	
	Li-ion	Ni-MH
	LA TYPE	N TYPE
3.6V	EY9L10B	
2.4V		EY9221B
Charging time	15 min.* + 30 min.	45 min.



## EY0L20B / EY0L82B

### Charger for Li-ion Batteries

#### EY0L20B

- Accepts Panasonic **7.2V** battery packs (see below for details)

	Li-ion
	LA TYPE
7.2V	EY9L20B
Charging time	60 min.* + 35min.



- Accepts Panasonic **10.8V-28.8V** battery packs (see below for details)
- Equipped with a lamp system that indicates the status of the 6 charging functions at a glance

	BATTERY TYPE		
	Li-ion		
	LS TYPE	LR TYPE	LZ TYPE
28.8V			EY9L82B
21.6V			EY9L62B
18V	EY9L51B	EY9L50B	
14.4V	EY9L45B	EY9L44B	
Charging time	EY9L51B: 55 min.* + 70 min. EY9L45B: 55 min.* + 70 min.	40 min.* + 55 min.	EY9L82B: 60 min.* + 80 min. EY9L62B: 60 min.* + 85 min.













\*Usable Charge (80%)

\*Charging times are approximate and may be slightly longer depending on conditions.



# Battery Pack / Battery Charger Compatibility Chart

▲ Usable Charge (80%) ● Full Charge (100%)

Voltage	Model	Battery	Charging Time											Charger						
			15	30	35	40	50	55	60	65	70	75	80							
28.8V	EY7880	 EY9L82B								▲						●	EY0L82B			
18V	EY7552	 EY9L51B																		
		 EY9L50B							▲							●				
14.4V	EY37C1B 	EY45A1 EY46A2 EY74A1 EY74A2 EY75A4 EY75A5 EY75A7 EY75A8 EY3640 EY3641 EY4542 EY4640 EY7441 EY7549 EY7940	 EY9L45B																	
			 EY9L44B															▲	●	
		3.6V	EY7410 EY7411	 EY9L10B															▲	●
				7.2V	EY7420	 EY9L20B														▲
15.6V	EY6432 EY3530	 EY9230B																		
																			12V	EY6409
2.4V	EY6220	 EY9221B																●		

# Li-ion Capacity Table

## Impact Drivers

Voltage		18V		14.4V	
Model No.		EY75A4		EY75A7	
Battery Type		EY9L51B (LS)		EY9L45B (LS)	
Fastening	Wood Screws in Yellow Pine	dia. 3/16" x 2-15/16"	610 pcs	490 pcs	
	Self-Drilling Screws in SPC	dia. 5/32" x 1/2" t=1/16"	990 pcs	750 pcs	
Bolting	Standard Tensil Bolt	M16 x 1" t=3/8"	1,150 pcs	1,050 pcs	
	Standard Tensil Bolt	M12 x 1" t=3/8"	2,700 pcs	2,300 pcs	
	High Tensil Bolt	M12 x 1" t=3/8"	340 pcs	300 pcs	

## Impact Wrenches

Voltage		18V	
Model No.		EY75A5	
Battery Type		EY9L45B (LS)	
Fastening	Wood Screws in Yellow Pine	dia. 3/16" x 2-15/16"	550 pcs
	Wood Screws in Yellow Pine	dia. 3/16" x 4-3/4"	120 pcs
	Self-Drilling Screws in SPC	dia. 5/32" x 1/2" t=1/16"	950 pcs
Bolting	Standard Tensil Bolt	M16 x 1" t=3/8"	1,000 pcs
	Standard Tensil Bolt	M14 x 1" t=3/8"	1,090 pcs
	High Tensil Bolt	M12 x 1" t=3/8"	350 pcs

## High Torque Impact Wrench

Voltage		18V	
Model No.		EY7552	
Battery Type		EY9L51B (LS)	
Fastening	SPAX screws in yellow pine	dia. 8mm x 80mm	210 pcs
	Standard Tensil Bolt	M16 x 25mm, t=10mm 2 sec.	300 pcs
Bolting	Standard Tensil Bolt	M16 x 25mm, t=10mm 2 sec. *with extension	180 pcs
	Standard Tensil Bolt	M12 x 25mm, t=10mm 1 sec.	640 pcs
	High Tensil Bolt	M24 x 25mm, t=10mm 3 sec.	220 pcs
	Standard Tensil Bolt	M20 x 25mm, t=10mm 2.5 sec.	250 pcs
	Standard Tensil Bolt	M16 x 25mm, t=10mm 2 sec.	300 pcs

## Drill & Driver

Voltage		18V / 14.4V	
Model No.		EY74A2	
Battery Type		EY9L51B (LS) / EY9L45B (LJ)	
Fastening	Wood Screws in Yellow Pine [High Mode]	dia. 5/32" x 1"	1,300 pcs
	Wood Screws in Yellow Pine [Low Mode]	dia. 5/16" x 3-5/32"	340 pcs
	Self-drilling Screws in SPC [High Mode]	dia. 5/32" x 1/2" t=1/16"	1,050 pcs
Drilling	Holes in Plasterboard + Plywood (Wooding Core) [High Mode]	Plasterboard 1/2" + Plywood 15/32" dia. 2-11/16" t=15/16"	80 pcs
	Holes in SPC [High Mode]	dia. 1/2" t=1/16"	-
	Holes in SPC (Hole saw) [High Mode]	dia. 13/16" x t=1/16"	40 pcs
	Holes in SPC (Hole saw) [Low Mode]	dia. 1-5/16" t=1/16"	60 pcs
	Holes in Yellow Pine [High Mode]	dia. 11/16" x t=4-3/4"	120 pcs
	Holes in Yellow Pine [Low Mode]	dia. 1-3/16" t=1-9/16"	220 pcs

## Sealing Guns

Voltage		14.4V	
Model No.		EY3640	EY3641
Battery Type		EY9L45B (LS)	EY9L45B (LS)
Silicon		380 pcs	380 pcs
Acrylic		410 pcs	410 pcs
Polyurethane		190 pcs	190 pcs

## Screwdrivers

Voltage		2.4V		3.6V		3.6V	
Model No.		EY6220NQ		EY7410LA2S		EY7411LA1S	
Battery Type		EY9L10B (LA)		EY9L10B (LA)		EY9L10B (LA)	
Wood Screws	dia. 1/8" x 1/2"	280 pcs		600 pcs		600 pcs	
Screws in	M5 x 5/16"			1,000 pcs		1,000 pcs	
Holes in SPC	dia. 1/16", *t=1/16"			85 pcs		85 pcs	

# Standard / Optional Accessory Chart

- STANDARD
- OPTIONAL

Voltage		14.4V/18V					
Model No.		EY74A2X	EY74A2LS2G	EY75A4LS2G	EY75A4X	EY75A5X	EY75A5LS2G
18V Battery Pack (4.2Ah Li-ion Battery Type S)	EY9L51B	○	●	●	○	○	●
14.4V Battery Pack (4.2Ah Li-ion Battery Type S)	EY9L45B	○	○	○	○	○	○
7.2V Battery Pack (1.5Ah Li-ion Battery Type LA)	EY9L20B						
3.6V Battery Pack (1.2Ah Li-ion Battery Type L)	EY9L10B						
2.4V Battery Pack (2.8Ah Ni-MH Battery Type N)	EY9221B						
Power Supply Kit	EYC941B	○		○	○	○	○
Power Supply Kit	EYC950B	○		○	○	○	○
Charger for Li-ion	EY0L82B	○		●	○	○	●
Charger for Li-ion, Ni-MH battery	EY0L11B						
Attachable 1/2" to 1/4" Quick Change Adapter	EY9HX111E					●	
Attachable 1/2" Keyless Drill Chuck for EY7549	EY9X003E						●
1/2" Keyless Chuck for 18V and 21.6V Drills	EY9HX410E						
1/2" Keyless Chuck for EY74A2	EY9HX413E	●					
Carbide-Tipped Blade for Metal	EY9PM13E						
Carbide-Tipped Blade for Wood	EY9PW13C						
Clutch Lock Cover	EY9X007E						

14.4V/18V				18V	14.4V		3.6V			7.2V	2.4V		
EY75A7LS2G	EY75A7X	EY75A8LS2G	EY75A8X	EY752LS2G	EY752X	EY3640LS1S	EY3641LS1S	EY7411LA1S	EY7410LA2S	EY7410LA1C	EY7420LA2J	EY6220NQ	EY6220N
●	○	●	○		○	●	●						
○	○	○	○										
												●	
								●	●	●			
												●	●
					○								
					○								
								●	●	○		●	○
								●	○	○			



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