

**Panasonic**



# Assembly Tools

Bringing Innovation to the Assembly Line



04/2019

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## Assembly Tools

## Product Lineup

### AccuPulse® HR Series



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



**EYFLA8A/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



**EYFLA5B**  
10.8V, 6-30Nm



**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

### High Torque Mechanical Pulse



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



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

### Assembly Qualifiers



**EYFR02**  
Single Tool Qualifier



**EYFR03**  
Multi-Tool Qualifier



**EYFR04**  
Multi-Station Qualifier

### Programmable Clutch



**EYFGA1A**  
14.4V, 2-5.5Nm



**EYFGA2A**  
14.4V, 5-8Nm



**EYFGA3A**  
14.4V, 5-10Nm

### Wireless Programmable Clutch



**EYFGA1AR**  
14.4V, 2-5.5Nm



**EYFGA2AR**  
14.4V, 5-8Nm



**EYFGA3AR**  
14.4V, 5-10Nm

### Stationary Transducers



**EYFST22NM**  
3/8" Square Drive



**EYFST100NM**  
1/2" Square Drive



**EYFST750NM**  
3/4" Square Drive

### Low Torque Clutch



**EYFEA1N2S / EYFEA1N**  
0.3 - 4.0 Nm



**EY7410LA2S**  
0.3 - 3.0 Nm

# Panasonic Cordless Assembly Tools

Bringing Innovation to the Assembly Line

## Benefits

### Electronic Sensing System

Guard ION



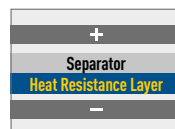
**1. Over-discharge Prevention Sensor**  
Prevents over-discharge to avoid cell damage or recharge problems

**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, 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  $\pm 10\%$  at  $\text{cmk} \geq 1.67$  - 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.

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

# Precision Clutch Tools

## Ergonomic, Accurate & Repeatable

High Accuracy  
 $10\% \cdot Cmk \geq 1.67^*$   
 VDI/VDE 2647  
\*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



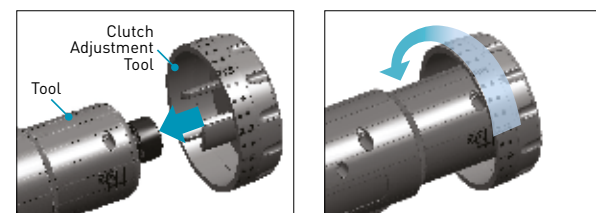
Programmable Clutch Tools



Wireless Programmable Clutch Tools

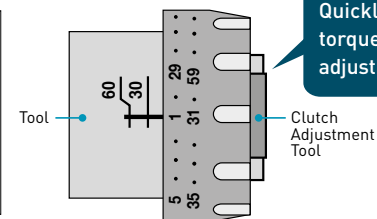
### 60 Stage Adjustable Clutch

#### How to set clutch



① Insert clutch adjustment tool into nose of tool. ② Turn and set

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



Clutch stage "1"

Quickly set the torque by adjusting the scale.

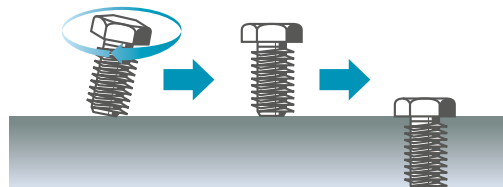
### Advanced Fastening Features



#### Cross Thread Reduction

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

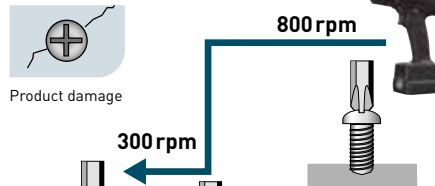
#### Reverse Rotation!



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.

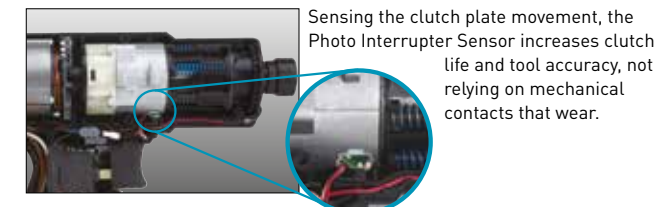


#### Auto Battery Shut Down

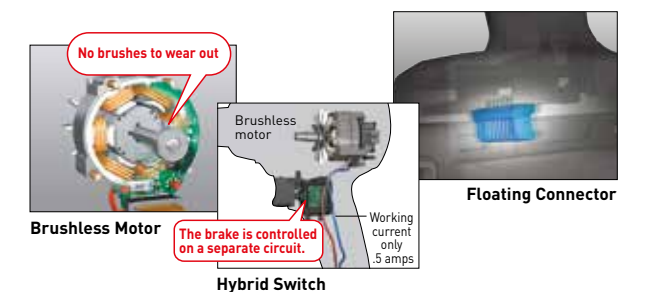
Before the battery power becomes too low to maintain torque, it shuts down the tool and notifies the operator by blinking the LED indicator until a charged battery pack is attached. Standard on all Precision Clutch Tools.

### 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.



No brushes to wear out

Brushless motor

The brake is controlled on a separate circuit.

Working current only 5 amps

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  |                  | EYFGA1A   | EYFGA2A  | EYFGA3A   |   |
|--|------------------|---|--|---|---|
|  |                  |                |  |  |   |
| Voltage  |                  | 14.4V   | 14.4V  | 14.4V   |   |
| Series   |                  | Programmable Clutch   |  |   |   |
| Accuracy   |                  | ±10%• Cmk 1.67 [*Compliant with VDI/VDE 2647. 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   |   |
|  | in. lbs.         | 17.7 - 48.6 in.lbs  | 44.2 - 70.8 in.lbs   | 44.2 - 88.5 in.lbs  |   |
| Clutch Setting Stage                                   |                  | 1 - 60, Total 60 stages (Approx. 0.08 Nm per stage)   |  |   |   |
| No Load Speed  |                  | 0-800 rpm   | 0-750 rpm  | 0-450 rpm   |   |
| Weight   | EYFB41B (2.0 Ah) | 1.25 kg   | 1.25 kg  | 1.3 kg  |   |
|  | EYFB42B (4.2 Ah) | 1.5 kg  | 1.5 kg   | 1.55 kg   |   |
| Size (LxHxW)   | EYFB41B (2.0 Ah) | 199 mm x 232 mm x 54 mm (Width of battery pack: 75 mm)  |  |   |   |
|  | EYFB42B (4.2 Ah) | 199 mm x 249 mm x 54 mm (Width of battery pack: 75 mm)  |  |   |   |
| Wireless Communication with Assembly Qualifier         |                  | —   | —  | —   |   |
| LED Work Light (On/Off Switch)                         |                  | ✓   | ✓  | ✓   |   |
| OK/NOK Light (Green: OK/ Red: NOK)                     |                  | ✓   | ✓  | ✓   |   |
| Rehit Prevention (fixed to 0.7sec)                     |                  | ✓   | ✓  | ✓   |   |
| 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<br>1.1 sec./1pcs (M6: 5.5 N-m)                                       | 1050 pcs/pack<br>1.0 sec./1pcs (M6: 8 N-m)  | 1100 pcs/pack<br>1.0 sec./1pcs (M6: 10 N-m) |
|  |                  | Soft Joint 720°   | 540 pcs/pack<br>1.3 sec./1pcs (M6: 5.5 N-m)  | 410 pcs/pack<br>1.3 sec./1pcs (M6: 8 N-m)   | 310 pcs/pack<br>1.4 sec./1pcs (M6: 10 N-m)  |
|  | EYFB42B          | Hard Joint 30°  | 2700 pcs/pack<br>1.1 sec./1pcs (M6: 5.5 N-m)                                       | 2350 pcs/pack<br>1.0 sec./1pcs (M6: 8 N-m)  | 2500 pcs/pack<br>1.0 sec./1pcs (M6: 10 N-m) |
|  |                  | Soft Joint 720°   | 1250 pcs/pack<br>1.3 sec./1pcs (M6: 5.5 N-m)                                       | 1000 pcs/pack<br>1.3 sec./1pcs (M6: 8 N-m)  | 730 pcs/pack<br>1.4 sec./1pcs (M6: 10 N-m)  |
| Charging Time*   |                  | EYFB41B   | Usable Charge: 35min. / Full Charge: 40min   |   |   |
|  |                  | EYFB42B   | Usable Charge: 50min. / Full Charge: 60min   |   |   |

Note: \*Approximately

| EYFGA1AR  |  | EYFGA2AR  |  | EYFGA3AR  |  |
|---|--|---|--|---|--|
|                |  |  |  |  |  |
| 14.4V   |  | 14.4V   |  | 14.4V   |  |
| Wireless Programmable Clutch  |  |   |  |   |  |
| ±10%• Cmk 1.67 [*Compliant with VDE/VDI 2647. Measured with the Max RPM setting] (*In 3 Nm range) |  |   |  |   |  |
| A = 1/4" Hex Quick Change   |  |   |  |   |  |
| 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 mm x 232 mm x 54 mm (Width of battery pack: 75 mm)  |  |   |  |   |  |
| 199 mm x 249 mm x 54 mm (Width of battery pack: 75 mm)  |  |   |  |   |  |
| OK Fasten=Green light<br>NOK Fasten=Red light   |  | OK Fasten=Green light<br>NOK Fasten=Red light                                       |  | OK Fasten=Green light<br>NOK Fasten=Red light                                       |  |
| ✓   |  | ✓   |  | ✓   |  |
| ✓   |  | ✓   |  | ✓   |  |
| ✓   |  | ✓   |  | ✓   |  |
| ✓   |  | ✓   |  | ✓   |  |
| ✓   |  | ✓   |  | ✓   |  |
| ✓   |  | ✓   |  | ✓   |  |
| ✓   |  | ✓   |  | ✓   |  |
| ✓   |  | ✓   |  | ✓   |  |
| ✓   |  | ✓   |  | ✓   |  |
| 1200 pcs/pack<br>1.1 sec./1pcs (M6: 5.5 N-m)  |  | 1050 pcs/pack<br>1.0 sec./1pcs (M6: 8 N-m)  |  | 1100 pcs/pack<br>1.0 sec./1pcs (M6: 10 N-m)   |  |
| 540 pcs/pack<br>1.3 sec./1pcs (M6: 5.5 N-m)   |  | 410 pcs/pack<br>1.3 sec./1pcs (M6: 8 N-m)   |  | 310 pcs/pack<br>1.4 sec./1pcs (M6: 10 N-m)  |  |
| 2700 pcs/pack<br>1.1 sec./1pcs (M6: 5.5 N-m)  |  | 2350 pcs/pack<br>1.0 sec./1pcs (M6: 8 N-m)  |  | 2500 pcs/pack<br>1.0 sec./1pcs (M6: 10 N-m)   |  |
| 1250 pcs/pack<br>1.3 sec./1pcs (M6: 5.5 N-m)  |  | 1000 pcs/pack<br>1.3 sec./1pcs (M6: 8 N-m)  |  | 730 pcs/pack<br>1.4 sec./1pcs (M6: 10 N-m)  |  |
| EYFB41B   |  | Usable Charge: 35min. / Full Charge: 40min  |  |   |  |
| EYFB42B   |  | Usable Charge: 50min. / Full Charge: 60min  |  |   |  |

# EYFEA1 / EY7410

## Cordless Low Torque Clutch Tool and Driver Kit

7.2V

|   |   |  |
|---|---|--|
| <b>Voltage</b>                                | 7.2V  |  |
| <b>Drive</b>                                  | 1/4" Hex Quick Change   |  |
| <b>Torque Range</b>                           | <b>Nm</b>   | High: 2.0 Nm / Low: 6.0 Nm             |
|   | <b>ft. lbs.</b>   | High: 1.47 ft. lbs / Low: 4.43 in. lbs |
|   | <b>in. lbs.</b>   | High: 17.7 in. lbs / Low: 53.1 in. lbs |
| <b>No Load Speed</b><br>(Torque Setting: RPM) | High: 0-900 rpm<br>Low: 0-300 rpm   |  |
| <b>Clutch Torque</b><br>(approx.)             | High: 0.3 N-m-2.0 N-m<br>(stage 1-10, 0.19 N-m per stage)<br>Low: 0.3 N-m-4.0 N-m<br>(stage 1-21, 0.19 N-m per stage)   |  |
| <b>Weight</b> (incl. battery)                 | 630 g   |  |
| <b>Size</b> (L x W x H)                       | 145 mm x 198 mm x 42 mm   |  |
| <b>Max. Screws Driving</b>                    | High mode: M4 screw<br>Low mode: M5 screw   |  |
| <b>Features</b>                               | <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> </ul> |  |
| <b>Working Capacity</b><br>(Fastening)        | Screws in Sheet Metal (M2.5 x 6mm)<br>High: Approx. 1900 pcs<br>Screws in Sheet Metal (M4 x 10mm)<br>High: Approx. 1850 pcs<br>Screws in Sheet Metal (M5 x 8mm)<br>Low: Approx. 1450 pcs                      |  |
| <b>Charging Time</b>                          | Usable: 35 minutes, Full: 60 minutes<br>(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



## Cordless Screwdriver with Torque Control

3.6V

|   |   |  |
|---|---|--|
| <b>Voltage</b>                                | 3.6V  |  |
| <b>Drive</b>                                  | 1/4" Hex Quick Change   |  |
| <b>Torque Range</b>                           | High: 1.5 Nm<br>Low: 4.4 Nm   |  |
| <b>No Load Speed</b><br>(Torque Setting: RPM) | High: 0-600 rpm<br>Low: 0-200 rpm   |  |
| <b>Clutch Torque</b><br>(approx.)             | 0.3-2.9 N-m<br>(0.1 N-m per stage, total 21 stage)  |  |
| <b>Weight</b> (incl. battery)                 | 0.5 kg  |  |
| <b>Size</b> (L x W x H)                       | 276 mm x 134 mm x 46 mm   |  |
| <b>Charging Time</b>                          | Usable: 15 minutes, Full: 30 minutes<br>(using EY0L11B charger)   |  |
| <b>Features</b>                               | <ul style="list-style-type: none"> <li>• Cap for clutch lock out</li> <li>• LED work light</li> <li>• 30 min. charging system (Full charge)</li> </ul>                  |  |
| <b>Working Capacity</b><br>(Fastening)        | Fastening: Wood Screws in Yellow Pine<br>ø3.1 x 13 mm 600 pcs<br>Screws in Sheet Metal (pre-hole)<br>M5 x 8 mm 1,000 pcs<br>Drilling: Holes in SPC<br>t=1 mm, ø2 85 pcs |  |
| <b>Standard Accessory</b>                     | 2 x 1.5VAH Li-ion Battery Pack (EY9L10B)<br>Charger (EY0L11B)<br>Clutch lock cover  |  |



**EY7410LA2S:**

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

\*Based on internal measurement



1.5Ah Li-ion  
Battery Pack  
EY9L10B



Charger  
EY0L11B

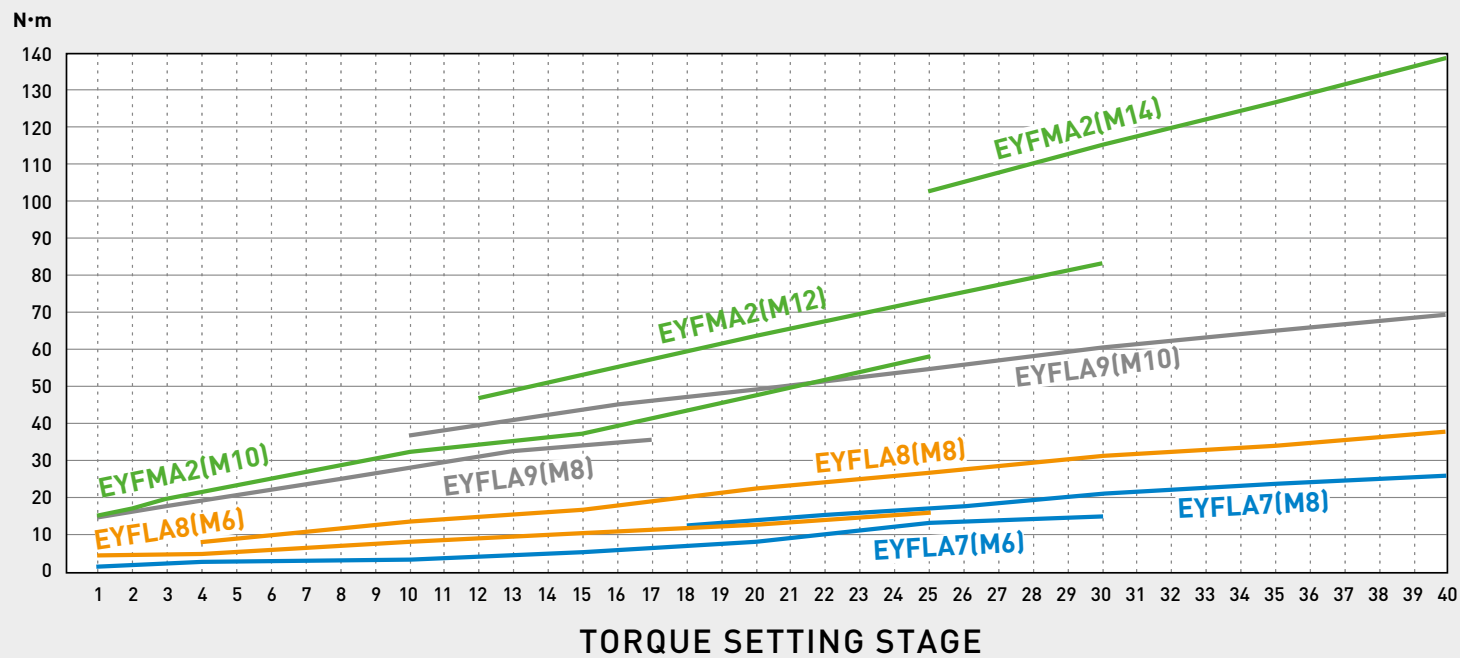


## Advanced Features

|  | MODEL            |             |           |           |          |             |          |                              |         |        |           |         |             |           |           |          |                |             |             |
|--|------------------|-------------|-----------|-----------|----------|-------------|----------|------------------------------|---------|--------|-----------|---------|-------------|-----------|-----------|----------|----------------|-------------|-------------|
|  | Mechanical Pulse |             |           |           |          |             |          | High Torque Mechanical 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              | ○                | ○           | ○         | ○         | ○        | ○           | ○        | ●                            | ●       | ●      | ●         | ●       | ●           | ●         | ●         | ●        | ●              | ●           |             |
| 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)



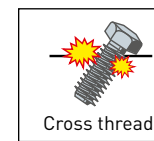
The values illustrated on this chart were measured under Panasonic measuring conditions and are provided for reference purposes. Actual tightening torque varies with ambient conditions (the particular bolt being tightened, hardware being used, method of holding the bolt in place, etc.).

## Advanced Programmable Features

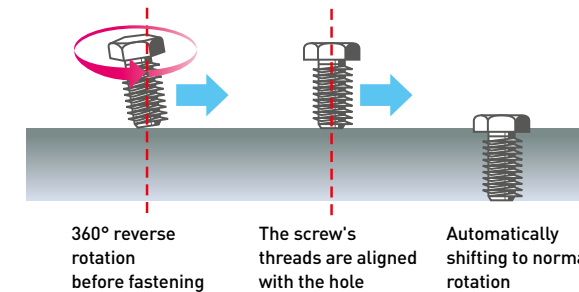


### Cross Thread Reduction

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

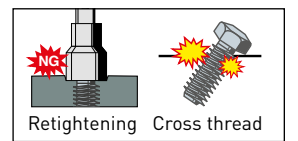


### Reverse Rotation!

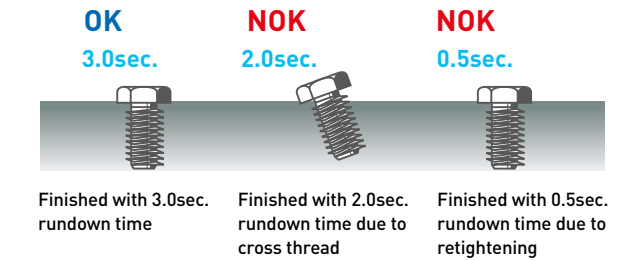


### Cross Thread / Rehit Detection

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

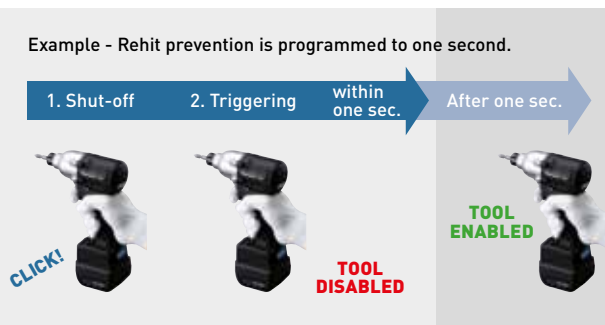


### • Example with 3.0sec. normal time setting



### 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

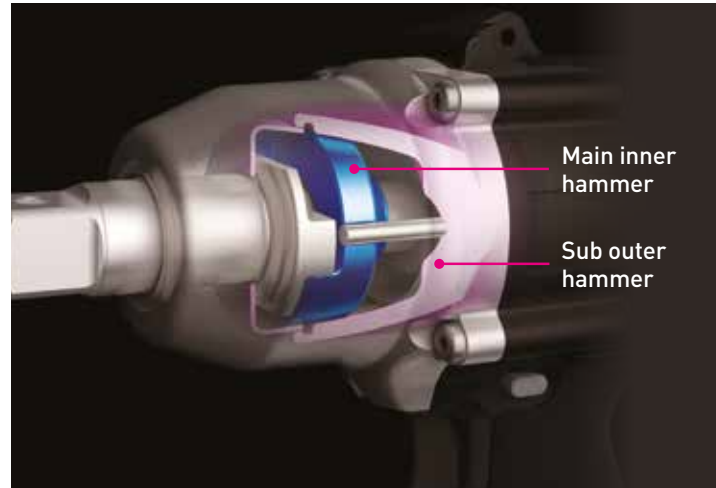
This feature delays Flush Torque Detection mode and ignores loads for a selected time period.



### Socket Extension Mode

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

## 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

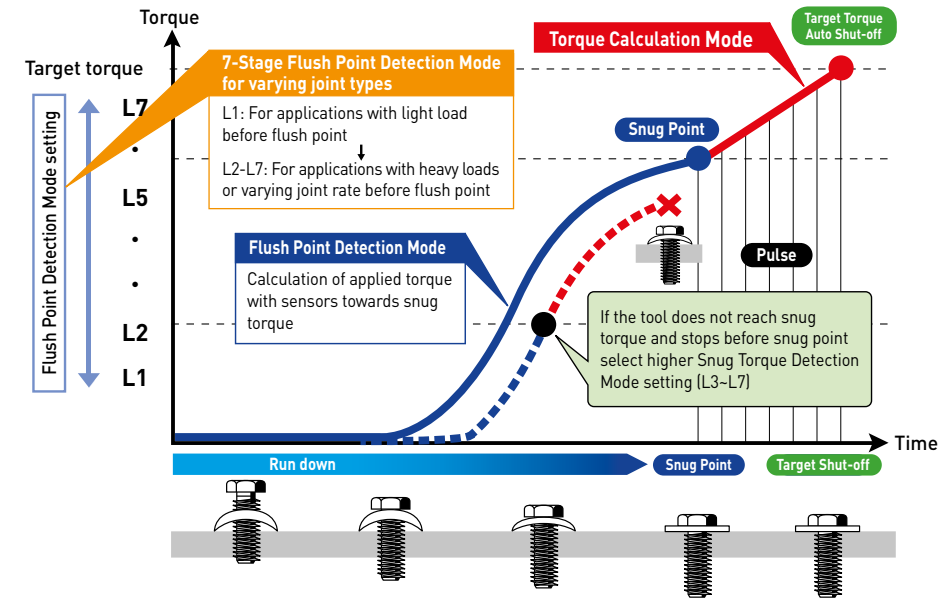
L1-L7 Flush Point Detection enables accurate fastening on a variety of joints.

### 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.



\*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.

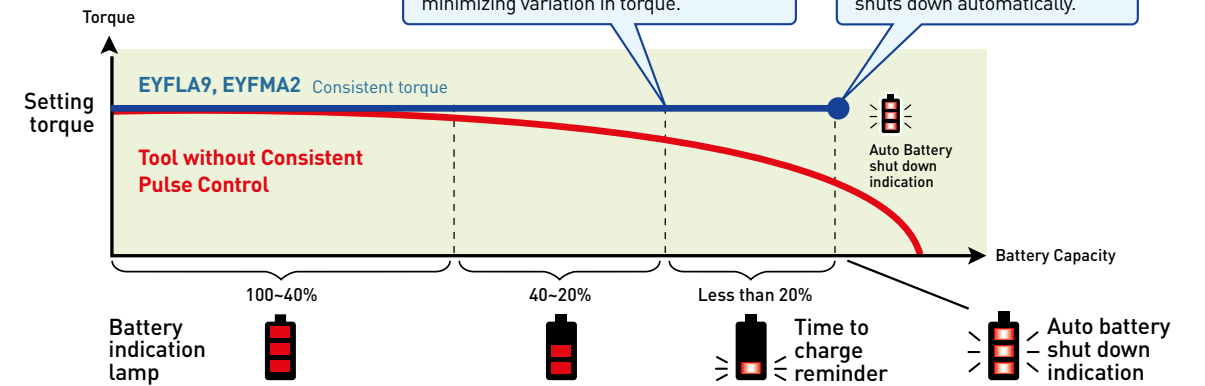
## Consistent Pulse Control

### 1 Consistent Pulse Control

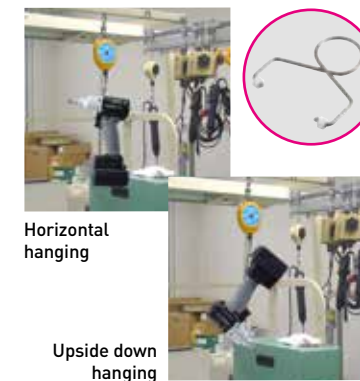
The power of each pulse is kept consistent regardless of remaining battery capacity, minimizing variation in torque.

### 2 Auto Battery Shut Down

Before battery power becomes too low to maintain torque, tool shuts down automatically.



## More Features



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



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



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



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

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







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







# AccuPulse® HR Series



| MODELS  |                 | EYFLA7A  | EYFLA8A / EYFLA8C / EYFLA8P   | EYFLA9C / EYFLA9P  | EYFMA2C / EYFMA2P  |
|---|-----------------|--|---|--|--|
|   |                 |   |                    |                        |   |
| <b>Voltage</b>  |                 | 10.8V  | 10.8V   | 10.8V  | 14.4V  |
| <b>Series</b>   |                 | AccuPulse - HR Series  |   |  | AccuPulse - HR Series  |
| <b>Drive</b>  |                 | A = 1/4" Hex Quick Change  | A = 1/4" Hex Quick Change<br>C = 3/8" Sq. C-Ring w/ through Hole<br>P = 3/8" Sq. Pin Detent         | C = 1/2" Sq. C-Ring w/ through Hole<br>P = 1/2" Sq. Pin Detent   | C = 1/2" Sq. C-Ring w/ through Hole<br>P = 1/2" Sq. Pin Detent   |
| <b>Torque Range</b>   | <b>Nm</b>       | 3-22Nm   | 6-30Nm  | 20-60Nm  | 25-120Nm   |
|   | <b>ft. lbs.</b> | 2.2-16.2 ft. lbs.  | 4.4-22 ft. lbs.   | 14.75-44.25 ft. lbs.   | 18.44-92.2 ft. lbs.  |
|   | <b>in. lbs.</b> | 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.   |
| <b>Max Torque*</b> [F mode, tightening 3 sec.]  |                 | 35Nm M10 Bolt  | 80m M14 Bolt  | 120Nm M14 Bolt   | 185Nm M16 Bolt   |
| <b>Flush Detection Modes</b>  |                 | L1 - L7  | L1 - L7   | L1 - L7  | L1 - L7  |
| <b>No Load Speed (Torque Setting: RPM)</b>  |                 | 1: 0 - 950<br>2: 0 - 1250<br>3: 0 - 1450<br>4 - 8: 0 - 1550<br>9 - 40 & F: 0 - 2300  | 1: 0 - 1300<br>2: 0 - 1450<br>3: 0 - 1550<br>4 - 40 & F: 0 - 2300                                   | 1-40 & F: 0-2300   | 1-40 & F: 0-2300   |
| <b>PPM (Pulses Per Min)</b>   |                 | 1: 0 - 1900<br>2: 0 - 2500<br>3: 0 - 2800<br>4-8: 0 - 3000<br>9-30 & F: 0 - 4000   | 1: 0-2500<br>2: 0-2800<br>3: 0-3000<br>4-30 & F: 0-3600   | 1-40 & F: 0-2800   | 1-40 & F: 0-2900   |
| <b>Weight</b>   |                 | 1,15 kg (incl. 2.0 Ah [EYFB32B])<br>1,35 kg (incl. 3.0 Ah [EYFB30B])   | 1,15 kg (incl. 2.0 Ah [EYFB32B])<br>1,35 kg (incl. 3.0 Ah [EYFB30B])                                | 1,30 kg (incl. 2.0 Ah [EYFB32B])<br>1,45 kg (incl. 3.0 Ah [EYFB30B])                                     | 1,40 kg (incl. 2.0 Ah [EYFB41B])<br>1,60 kg (incl. 4.2 Ah [EYFB42B])   |
| <b>Size (L x W x H)</b>   |                 | 153mmx59mmx231mm [EYFB32]<br>153mmx59mmx249mm [EYFB30]   | 153mmx59mmx231mm [EYFB32]<br>153mmx59mmx249mm [EYFB30]  | 153mmx59mmx231mm [EYFB32]<br>153mmx59mmx249mm [EYFB30]   | 153mmx59mmx231mm [EYFB32]<br>153mmx59mmx249mm [EYFB30]   |
| <b>Wireless Communication with Assembly Qualifier:</b>                                    |                 | —  | —   | —  | —  |
| <b>LED Work Light:</b> (ON/OFF Switch)  |                 | ✓  | ✓   | ✓  | ✓  |
| <b>OK/NOK Light:</b> (Green: OK / Red: NOK)   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Rehit Prevention:</b> (Possible to set per 0.1 sec. between 0-3 sec.)                  |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Battery Indication Lamp:</b> (3 stage)   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Low Power Disable</b>  |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Prevent / Detect Cross Threads &amp; Rehits</b>  |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Maintenance Interval Alarm</b>   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Variable Speed On / Off Switch</b>   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Variable Speed On / Off Switch</b>   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Buzzer: On / Off</b>   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Flush Point Detection Delay</b> (Possible to set between 0-3 sec., 0.1 sec. per stage) |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Socket Extension Mode</b> (h1:150mm socket, h2: for 250mm socket)                      |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Work Capacity / Fastening Speed*</b>   |                 | <M6: 10 N-m, Stage: 22><br>[EYFB30B] 1200 pcs/pack 0.7 sec/1pcs<br>[EYFB32B] 800 pcs/pack 0.7 sec/1pcs   | <M8: 23 N-m, Stage: 22><br>[EYFB30B] 800pcs/pack 0.8sec/1pcs<br>[EYFB32B] 540 pcs/pack 0.8 sec/1pcs | <M10: 43 N-m, Stage: 23><br>[EYFB30B] 400 pcs/pack, 0.8 sec/1pcs<br>[EYFB32B] 260 pcs/pack, 0.8 sec/1pcs | <M12: 71 N-m, Stage: 22><br>[EYFB42B] 600 pcs/pack, 0.8 sec/1pcs<br>[EYFB41B] 270 pcs/pack, 0.8 sec/1pcs   |
| <b>Charging Time*</b>   |                 | (Battery pack EYFB30B, Charger EY0L82B) Usable charge: 35 min., Full charge: 45 min<br>(Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: 35 min., Full Charge: 40 min |   |  | (Battery Pack EYFB41, Charger EY0L82B) Usable Charge: 35min., Full Charge: 40min<br>(Battery Pack EYFB42, Charger EY0L82B) Usable Charge: 50min., Full Charge: 60min |

Note: \*Approximately

| MODELS  |                 | EYFLA7AR   | EYFLA8AR / EYFLA8PR / EYFLA8CR  | EYFLA9CR / EYFLA9PR  | EYFMA2CR / EYFMA2PR  |
|---|-----------------|--|---|--|--|
|   |                 |   |                  |                       |   |
| <b>Voltage</b>  |                 | 10.8V  | 10.8V   | 10.8V  | 14.4V  |
| <b>Series</b>   |                 | AccuPulse - HR Series with 2-Way Communication   |   |  |  |
| <b>Drive</b>  |                 | A = 1/4" Hex Quick Change  | A = 1/4" Hex Quick Change<br>C = 3/8" Sq. C-Ring w/ through Hole<br>P = 3/8" Sq. Pin Detent         | C = 1/2" Sq. C-Ring w/ through Hole<br>P = 1/2" Sq. Pin Detent   | C = 1/2" Sq. C-Ring w/ through Hole<br>P = 1/2" Sq. Pin Detent   |
| <b>Torque Range</b>   | <b>Nm</b>       | 3-22Nm   | 6-30Nm  | 20-60Nm  | 25-120Nm   |
|   | <b>ft. lbs.</b> | 2.2-16.2 ft. lbs.  | 4.4-22 ft. lbs.   | 14.75-44.25 ft. lbs.   | 18.44-92.2 ft. lbs.  |
|   | <b>in. lbs.</b> | 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.   |
| <b>Max Torque*</b> [F mode, tightening 3 sec.]  |                 | 35Nm M10 Bolt  | 80m M14 Bolt  | 120Nm M14 Bolt   | 185Nm M14 Bolt   |
| <b>Flush Detection Modes</b>  |                 | L1 - L7  | L1 - L7   | L1 - L7  | L1 - L7  |
| <b>No Load Speed (Torque Setting: RPM)</b>  |                 | 1: 0 - 950<br>2: 0 - 1250<br>3: 0 - 1450<br>4 - 8: 0 - 1550<br>9 - 40 & F: 0 - 2300  | 1: 0 - 1300<br>2: 0 - 1450<br>3: 0 - 1550<br>4 - 40 & F: 0 - 2300                                   | 1-40 & F: 0-2300   | 1-40 & F: 0-2300   |
| <b>PPM (Pulses Per Min)</b>   |                 | 1: 0 - 1900<br>2: 0 - 2500<br>3: 0 - 2800<br>4-8: 0 - 3000<br>9-30 & F: 0 - 4000   | 1: 0-2500<br>2: 0-2800<br>3: 0-3000<br>4-30 & F: 0-3600   | 1-40 & F: 0-2800   | 1-40 & F: 0-2900   |
| <b>Weight</b>   |                 | 1,15 kg (incl. 2.0Ah [EYFB32B])<br>1,35 kg (incl. 3.0 Ah [EYFB30B])  | 1,15 kg (incl. 2.0Ah [EYFB32B])<br>1,35 kg (incl. 3.0 Ah [EYFB30B])                                 | 1,30 kg (incl. 2.0Ah [EYFB32B])<br>1,45 kg (incl. 3.0 Ah [EYFB30B])                                      | 1,40 kg (incl. 2.0 Ah [EYFB32B])<br>1,60 kg (incl. 4.2 Ah [EYFB30B])   |
| <b>Size (L x W x H)</b>   |                 | 153 mm x 59 mm x 231 mm [EYFB32]<br>153mmx59mmx249mm [EYFB30]  | 153 mm x 59 mm x 231mm [EYFB32]<br>153 mm x 59 mm x 249mm [EYFB30]                                  | 153 mm x 59 mm x 231 mm [EYFB32]<br>153 mm x 59 mm x 249 mm [EYFB30]                                     | 153 mm x 59 mm x 231 mm [EYFB32]<br>153 mm x 59 mm x 249 mm [EYFB30]   |
| <b>Wireless Communication with Assembly Qualifier:</b>                                    |                 | ✓  | ✓   | ✓  | ✓  |
| <b>LED Work Light:</b> (ON/OFF Switch)  |                 | ✓  | ✓   | ✓  | ✓  |
| <b>OK/NOK Light:</b> (Green: OK / Red: NOK)   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Rehit Prevention:</b> (Possible to set per 0.1 sec. between 0-3 sec.)                  |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Battery Indication Lamp:</b> (3 stage)   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Low Power Disable</b>  |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Prevent / Detect Cross Threads &amp; Rehits</b>  |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Maintenance Interval Alarm</b>   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Variable Speed On / Off Switch</b>   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Variable Speed On / Off Switch</b>   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Buzzer: On / Off</b>   |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Flush Point Detection Delay</b> (Possible to set between 0-3 sec., 0.1 sec. per stage) |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Socket Extension Mode</b> (h1:150mm socket, h2: for 250mm socket)                      |                 | ✓  | ✓   | ✓  | ✓  |
| <b>Work Capacity / Fastening Speed*</b>   |                 | <M6: 10 N-m, Stage: 22><br>[EYFB30B] 1200 pcs/pack 0.7 sec/1pcs<br>[EYFB32B] 800 pcs/pack 0.7 sec/1pcs   | <M8: 23 N-m, Stage: 22><br>[EYFB30B] 800pcs/pack 0.8sec/1pcs<br>[EYFB32B] 540 pcs/pack 0.8 sec/1pcs | <M10: 43 N-m, Stage: 23><br>[EYFB30B] 400 pcs/pack, 0.8 sec/1pcs<br>[EYFB32B] 260 pcs/pack, 0.8 sec/1pcs | <M12: 71 N-m, Stage: 22><br>[EYFB42B] 600 pcs/pack, 0.8 sec/1pcs<br>[EYFB41B] 270 pcs/pack, 0.8 sec/1pcs   |
| <b>Charging Time*</b>   |                 | (Battery pack EYFB30B, Charger EY0L82B) Usable charge: 35 min., Full charge: 45 min<br>(Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: 35 min., Full Charge: 40 min |   |  | (Battery Pack EYFB41, Charger EY0L82B) Usable Charge: 35min., Full Charge: 40min<br>(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, 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

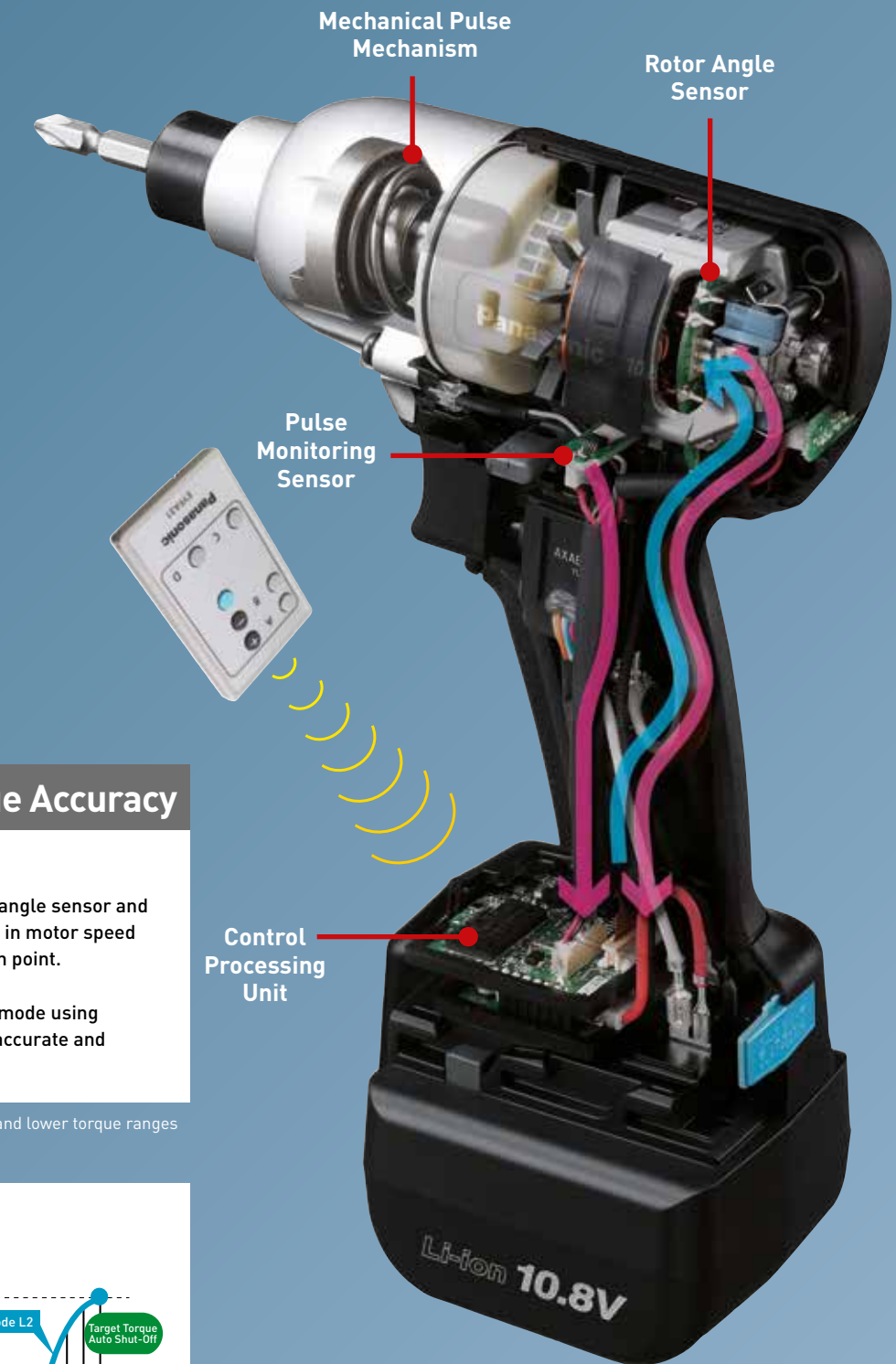
Enables variable speed or single speed trigger operation.

### LED Light

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

### Buzzer

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

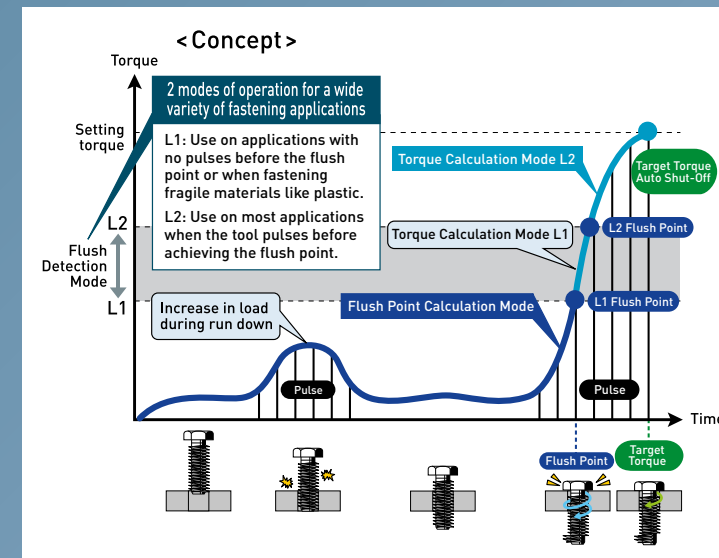


## Shut-off Tool Delivers Torque Accuracy

### Torque Control Mechanism

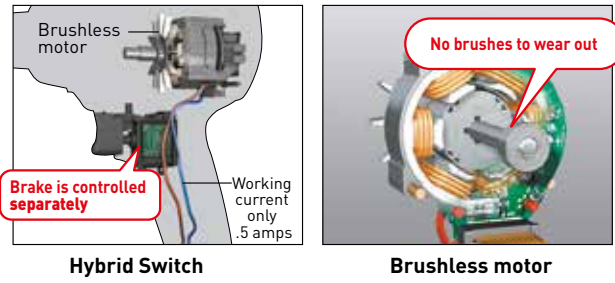
1. The onboard CPU monitors two sensors (rotor angle sensor and pulse monitoring sensor) detecting the change in motor speed and rpm between pulses, determining the flush point.
2. The CPU then switches to a torque calculation mode using a Panasonic patented algorithm to achieve an accurate and repeatable 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



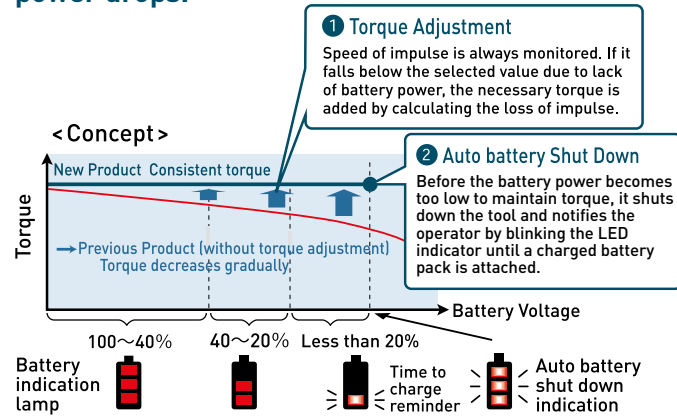
### Additional charging is acceptable

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)

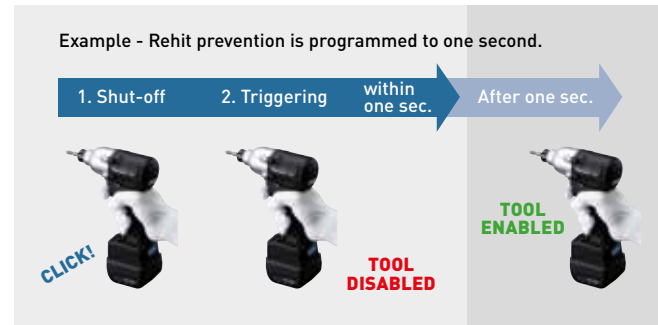
### Maintains selected torque level as the battery power drops.



## Retightening Prevention Function

### Maintain strict quality control

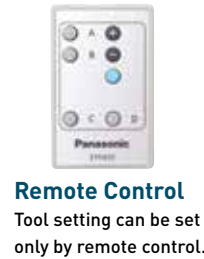
This function prevents the tool from operating within a selected time period after it automatically stops from the torque control function. The switch will not operate even if engaged during this time period.



## More Features



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



## 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. **3.6 kg**

High capacity  
**4.2Ah**

## 18V EYFNA

Torque controlled range  
70~**200Nm**

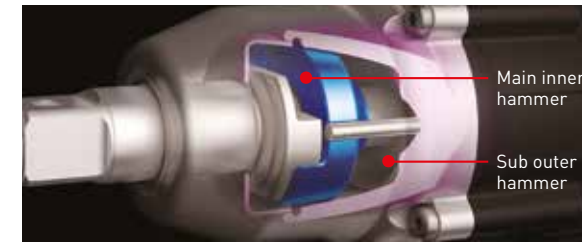
Lightweight  
approx. **3.0 kg**

High capacity  
**5.0Ah**

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

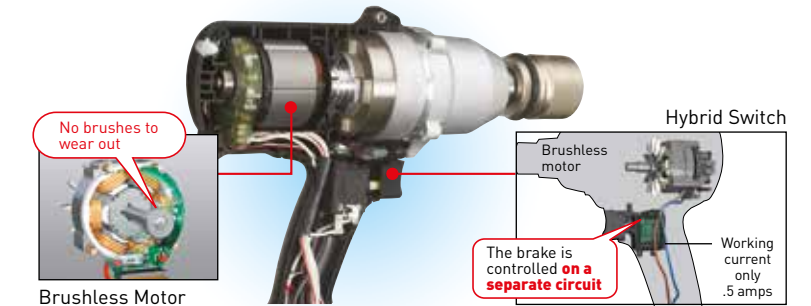
### High Efficiency Twin Hammer

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



### Compact, High-Powered Brushless Motor

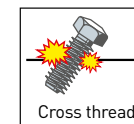
Compact and high-power brushless motor accomplishes heavy load applications.



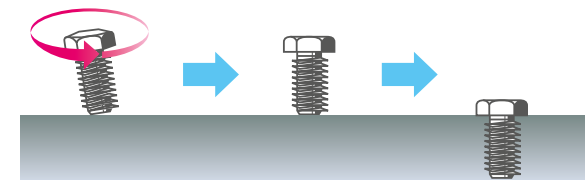
\*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints.

## Advanced Fastening Features

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



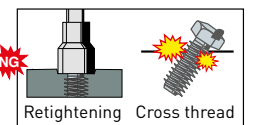
### Reverse Rotation!



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)



**OK**  
3.0sec.

**NOK**  
2.0sec.

**NOK**  
0.5sec.

Finished with 3.0sec. rundown time | Finished with 2.0sec. rundown time due to cross thread | Finished with 0.5sec. rundown time due to retightening

**Auto 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

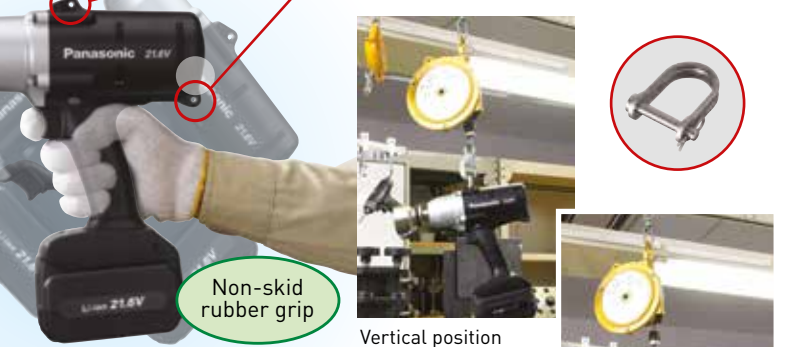
Ergonomic, computer-aided design for optimal balance and operator comfort



**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/EYFLA5B   | EYFLA5AR  | EYFLA6B/EYFLA6J  | EYFLA6JR  |
|--|--|---|---|---|--|---|
|  |   |  |    |  |   |  |
| <b>Voltage</b>   | 10.8V  | 10.8V   | 10.8V   | 10.8V   | 10.8V  | 10.8V   |
| <b>Shut-off method</b>   | Mechanical Pulse - SR Series   |   |   |   |  |   |
| <b>Drive</b>   | A = 1/4" Hex Quick Change  | A = 1/4" Hex Quick Change   | A = 1/4" Hex Quick Change<br>P = 3/8" Sq. Pin Detent  | A = 1/4" Hex Quick Change<br>P = 3/8" Sq. Pin Detent                              | J = 1/2" Sq. Through Hole<br>P = 1/2" Sq. Pin Detent   | J = 1/2" Sq. Through Hole<br>P = 1/2" Sq. Pin Detent                                |
| <b>Torque Range</b>  | <b>Nm</b>  | 3-22Nm  | 3-22Nm  | 6-30Nm  | 6-30Nm   | 16-53Nm   |
|  | <b>ft. lbs.</b>  | 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.  |
|  | <b>in. lbs.</b>  | 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.  |
| <b>Max Torque (F mode, tightening 3 sec.)</b>  | Approx. 40Nm M10 Bolt  | Approx. 40Nm M10 Bolt   | Approx. 90Nm M14 Bolt   | Approx. 90Nm M14 Bolt   | Approx. 120Nm M14 Bolt   | Approx. 120Nm M14 Bolt  |
| <b>Flush Detection Modes</b>   | L1-L2  | L1-L2   | L1-L2   | L1-L2   | L1-L2  | L1-L2   |
| <b>No Load Speed (Torque Setting : RPM)</b>  | 1: 0-950<br>2: 0-1300<br>3: 0-1450<br>4-8: 0-1550<br>9-30 & F: 0-2300  | 1: 0-950<br>2: 0-1300<br>3: 0-1450<br>4-8: 0-1550<br>9-30 & F: 0-2300             | 1: 0-1300<br>2: 0-1450<br>3: 0-1550<br>4-30 & F: 0-2300   | 1: 0-1300<br>2: 0-1450<br>3: 0-1550<br>4-30 & F: 0-2300                           | 1-30 & F: 0-2300   | 1-30 & F: 0-2300  |
| <b>PPM (Pulses Per Min)</b>  | 1: 0-1900<br>2: 0-2500<br>3: 0-2800<br>4-8: 0-3000<br>9-30 & F: 0-4000   | 1: 0-1900<br>2: 0-2500<br>3: 0-2800<br>4-8: 0-3000<br>9-30 & F: 0-4000            | 1: 0-2500<br>2: 0-2800<br>3: 0-3000<br>4-30 & F: 0-3600   | 1: 0-2500<br>2: 0-2800<br>3: 0-3000<br>4-30 & F: 0-3600                           | 1-30 & F: 0-3000   | 1-30 & F: 0-3000  |
| <b>Weight</b>  | 1,15 kg (incl. 2.0Ah EYFB32)<br>1,30 kg (incl. 3.0 Ah EYFB30)  | 1,15 kg (incl. 2.0Ah EYFB32)<br>1,30 kg (incl. 3.0 Ah EYFB30)                     | 1,15 kg (incl. 2.0Ah EYFB32)<br>1,30 kg (incl. 3.0 Ah EYFB30)   | 1,15 kg (incl. 2.0Ah EYFB32)<br>1,30 kg (incl. 3.0 Ah EYFB30)                     | 1,25 kg (incl. 2.0Ah EYFB32)<br>1,40 kg (incl. 3.0 Ah EYFB30)  | 1,25 kg (incl. 2.0Ah EYFB32)<br>1,40 kg (incl. 3.0 Ah EYFB30)                       |
| <b>Size (L x W x H)</b>  | 158 mm x 59 mm x 231mm (EYFB32B)<br>158 mm x 59 mm x 248mm (EYFB30B)   | 158 mm x 59 mm x 231mm (EYFB32B)<br>158 mm x 59 mm x 248mm (EYFB30B)              | 158 mm x 59 mm x 231mm (EYFB32B)<br>158 mm x 59 mm x 248mm (EYFB30B)  | 158 mm x 59 mm x 231mm (EYFB32B)<br>158 mm x 59 mm x 248mm (EYFB30B)              | 172 mm x 59 mm x 231mm (EYFB32B)<br>172 mm x 59 mm x 248mm (EYFB30B)   | 172 mm x 59 mm x 231mm (EYFB32B)<br>172 mm x 59 mm x 248mm (EYFB30B)                |
| <b>Wireless Communication with assembly qualifier:</b>                                   | —  | OK Fasten=Green light, NOK Fasten=Red light                                       | —   | OK Fasten=Green light, NOK Fasten=Red light                                       | —  | OK Fasten=Green light, NOK Fasten=Red light   |
| <b>LED Work Light: (ON/OFF Switch)</b>   | ✓  | ✓   | ✓   | ✓   | ✓  | ✓   |
| <b>OK/NOK Light: (Green: OK / Red: NOK)</b>  | ✓  | ✓   | ✓   | ✓   | ✓  | ✓   |
| <b>Rehit Prevention: (Possible to set per 0.1 sec. between 0-3 sec.)</b>                 | ✓  | ✓   | ✓   | ✓   | ✓  | ✓   |
| <b>Battery Indication Lamp: (3 stage)</b>  | ✓  | ✓   | ✓   | ✓   | ✓  | ✓   |
| <b>Low Power Disable</b>   | ✓  | ✓   | ✓   | ✓   | ✓  | ✓   |
| <b>Prevent / Detect Cross Threads &amp; Rehits</b>                                       | —  | —   | —   | —   | —  | —   |
| <b>Maintenance Interval Alarm</b>  | —  | —   | —   | —   | —  | —   |
| <b>Variable speed On/Off Switch</b>  | —  | —   | —   | —   | —  | —   |
| <b>LED Light Setting: On/Off or On with pull of switch</b>                               | —  | —   | —   | —   | —  | —   |
| <b>Buzzer: On / Off</b>  | —  | —   | —   | —   | —  | —   |
| <b>Snug torque detection delay (Possible to set between 0-3 sec. 0.1 sec. per stage)</b> | —  | —   | —   | —   | —  | —   |
| <b>Long socket mode (h1: for 150mm socket, h2: for 250mm socket)</b>                     | —  | —   | —   | —   | —  | —   |
| <b>Work Capacity/Fastening Speed</b>   | <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 |   |
| <b>Charging Time</b>   | (Battery pack EYFB30B, Charger EYOL82B) Usable charge: approx. 35 min., Full charge: approx. 45 min<br>(Battery Pack EYFB32B, Charger EYOL82B) Usable Charge: approx. 35 min., Full Charge: approx. 40 min |   |   |   |  |   |

| 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<br>J = 1/2" Square Drive with Through Hole<br>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)<br>1.5 kg (incl. 4.2Ah EYFB42)  | 1.3 kg (incl. 2.0Ah EYFB41)<br>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)<br>1.7 kg (incl. 4.2Ah EYFB42)  |
| 172 mm x 59 mm x 231 mm (EYFB32B)<br>172 mm x 59 mm x 248 mm (EYFB30B)  | 172 mm x 59 mm x 231 mm (EYFB32B)<br>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)<br>399 mm x 96 mm x 60 mm (EYFB42B)  |
| —   | OK Fasten=Green light, NOK Fasten=Red light   | —  | —  | —   |
| ✓   | ✓   | ✓  | ✓  | ✓   |
| ✓   | ✓   | ✓  | ✓  | ✓   |
| ✓   | ✓   | ✓  | ✓  | ✓   |
| ✓   | ✓   | ✓  | ✓  | ✓   |
| —   | —   | ✓  | ✓  | ✓   |
| —   | —   | ✓  | ✓  | ✓   |
| —   | —   | ✓  | ✓  | ✓   |
| —   | —   | ✓  | ✓  | ✓   |
| —   | —   | —  | —  | —   |
| —   | —   | —  | —  | —   |
| <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   | <M10: 53 N-m, Stage: 25> (EYFB42B) 250 pcs/pack, 2.2 sec/1pcs (EYFB41B) 120 pcs/pack, 2.2 sec/1pcs  |
| (Battery pack EYFB42B, Charger EYOL82B) Usable Charge: approx. 50 min., Full Charge: approx. 60 min (Battery Pack EYFB41B, Charger EYOL82B) Usable Charge: approx. 35 min., Full Charge: approx. 40 min |   | Battery pack EYFB50B, Charger EYOL82B) Usable Charge: approx. 65 min. Full Charge: approx. 80 min  | (Battery pack EYFB60B, Charger EYOL82B) Usable Charge: approx. 65 min. Full Charge: approx. 85 min | (Battery Pack EYFB41, Charger EYOL82B) Usable Charge: 50min., Full Charge: 60min (Battery Pack EYFB42, Charger EYOL82B) 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



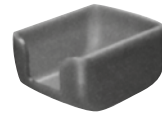
**EYFA02-H**  
Battery Protector  
for EYFB30B



**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)



**EYFA09**  
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




## 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

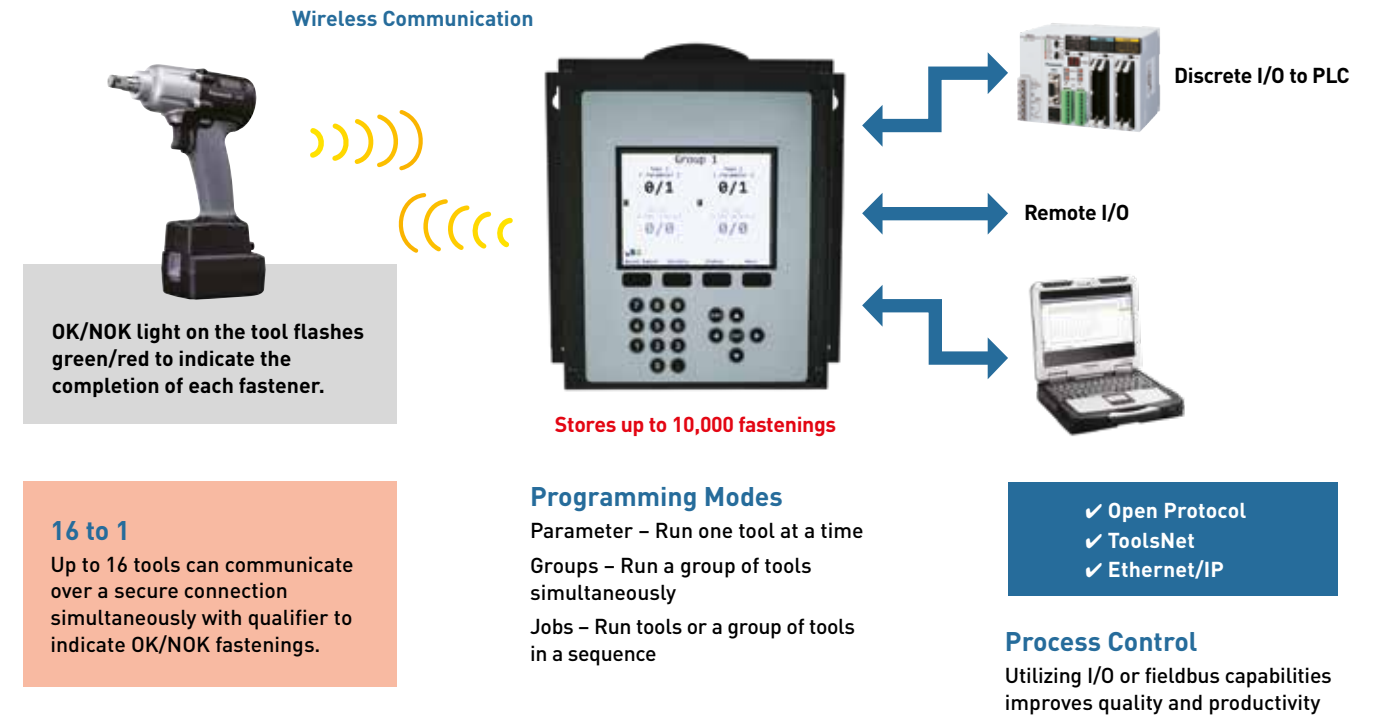
| MODEL                                 | EYFR02B  | EYFR03A   | EYFR04A   |
|---------------------------------------|--|---|---|
|                                       |   |  |  |
| Graphics Display                      | —  | ✓   | ✓   |
| Multiple Stations                     | —  | —   | ✓   |
| Number of Tools Connectivity          | 1  | 16  | 16  |
| Number of Tools Simultaneously        | 1  | 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   |
| Ethernet Ports                        | —  | 2   | 2   |
| Serial Port                           | 1  | 1   | 1   |
| Remote Inputs/Outputs Connection      | —  | ✓   | ✓   |
| PLC Integration                       | ✓  | ✓   | ✓   |
| 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)                | 254mmx119mmx73mm   | 247mmx235mmx95mm  |   |
| Operating Temperature Range           | 14-140°F ((-10)-60°C)  |   |   |
| Compatible Tools                      | EYFGA1AR, EYFGA2AR, EYFGA3AR, EYFLA4AR, EYFLA5AR, EYFLA5QR, EYFLA6JR, EYFMA1JR, 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

### Multi-Tool Assembly Qualifier



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

**Wireless Communication**

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

Stores up to 5,000 fastenings per station

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

**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

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

## 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.



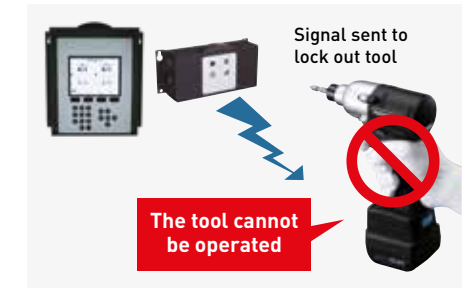
### Out-of-Range Anti-Theft Function

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.



# 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

Discrete I/O to PLC

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

Green light Indicates a successful fastening  
Red light indicates unsuccessful fastening

## Features Chart

|                                  | Model   |         |         |         |         |         |         |         |          |          |          |          |          |         |         |         |         |         |         |          |          |          |         |   |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|----------|----------|----------|---------|---|
|                                  | 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  | ○       | ○       | ○       | ○       | ○       | ○       | ○       | ○       | ○        | ○        | ○        | ○        | ○        | •       | •       | •       | •       | •       | •       | •        | •        | •        | •       | ○ |
| Wireless Communication           |         |         |         |         |         |         |         |         | •        | •        | •        | •        | •        |         |         |         |         |         |         |          | •        | •        | •       |   |

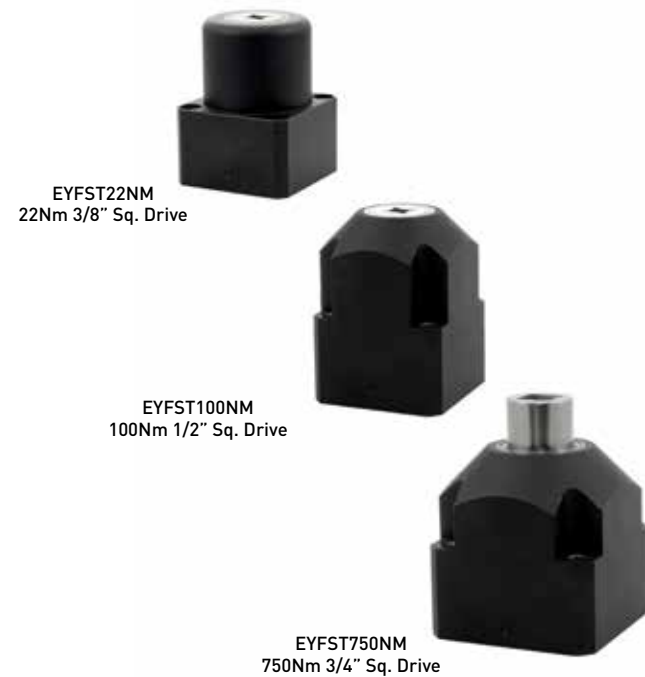
\*Variable speed control function: Models with "○" don't have ON/OFF setting.



# 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 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

## 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                    | EY0L82B |
| 18V     | EYFNA1J  | EYFB50B (5.0Ah) | 65 min : 80 min                    |         |
| 14.4V   | EYFGA1A/AR, EYFGA2A/AR, EYFGA3A/AR<br>EYFMA1J/1JR,<br>EYFMA1P, EYFMA2P/PR  | EYFB41B (2.0Ah) | 35 min : 40 min                    |         |
|         |  | EYFB42B (4.2Ah) | 50 min : 60 min                    |         |
| 10.8V   | EYFLA4A/4AR, EYFLA5A/5AR, EYFLA5B, EYFLA5Q/5QR<br>EYFLA6J/6JR, EYFLA6B, EYFLA7A/7AR, EYFLA8A/C/B/AR/<br>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<br>EYFLA4AR            | EYFLA5A/5B/5Q<br>EYFLA5AR/5QR | EYFLA6J/6B<br>EYFLA6JR        | EYFMA1J/1B<br>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           |
| Application Capacity/<br>Working Speed | EYFB30B<br>3.0Ah Battery | 1200 pcs/pack<br>0.7 sec/1 pcs | 800 pcs/pack<br>0.8 sec/1 pcs | 500 pcs/pack<br>0.9 sec/1 pcs | —                             | —                             | —                             |
|  | EYFB42B<br>4.2Ah Battery | —                              | —                             | —                             | 785 pcs/pack<br>0.9 sec/1 pcs | —                             | —                             |
|  | EYFB50B<br>5.0Ah Battery | —                              | —                             | —                             | —                             | 500 pcs/pack<br>1.0 sec/1 pcs | —                             |
|  | EYFB60B<br>4.2Ah Battery | —                              | —                             | —                             | —                             | —                             | 450 pcs/pack<br>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/<br>Working Speed | EYFB30B<br>3.0Ah Battery | 1200 pcs/pack<br>0.7 sec/1 pcs | 800 pcs/pack<br>0.8 sec/1 pcs | 400 pcs/pack<br>0.8 sec/1 pcs | —                             |
|  | EYFB32B<br>2.0Ah Battery | 800 pcs/pack<br>0.7 sec/1 pcs  | 540 pcs/pack<br>0.8 sec/1 pcs | 260 pcs/pack<br>0.8 sec/1 pcs | —                             |
|  | EYFB42B<br>4.2Ah Battery | —                              | —                             | —                             | 600 pcs/pack<br>0.8 sec/1 pcs |
|  | EYFB41B<br>2.0Ah Battery | —                              | —                             | —                             | 270 pcs/pack<br>0.8 sec/1 pcs |

## Precision Clutch Tool Working Capacities\*

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

## Low Torque Clutch Tool and Driver Working Capacities\*

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

Note: \*Approximately

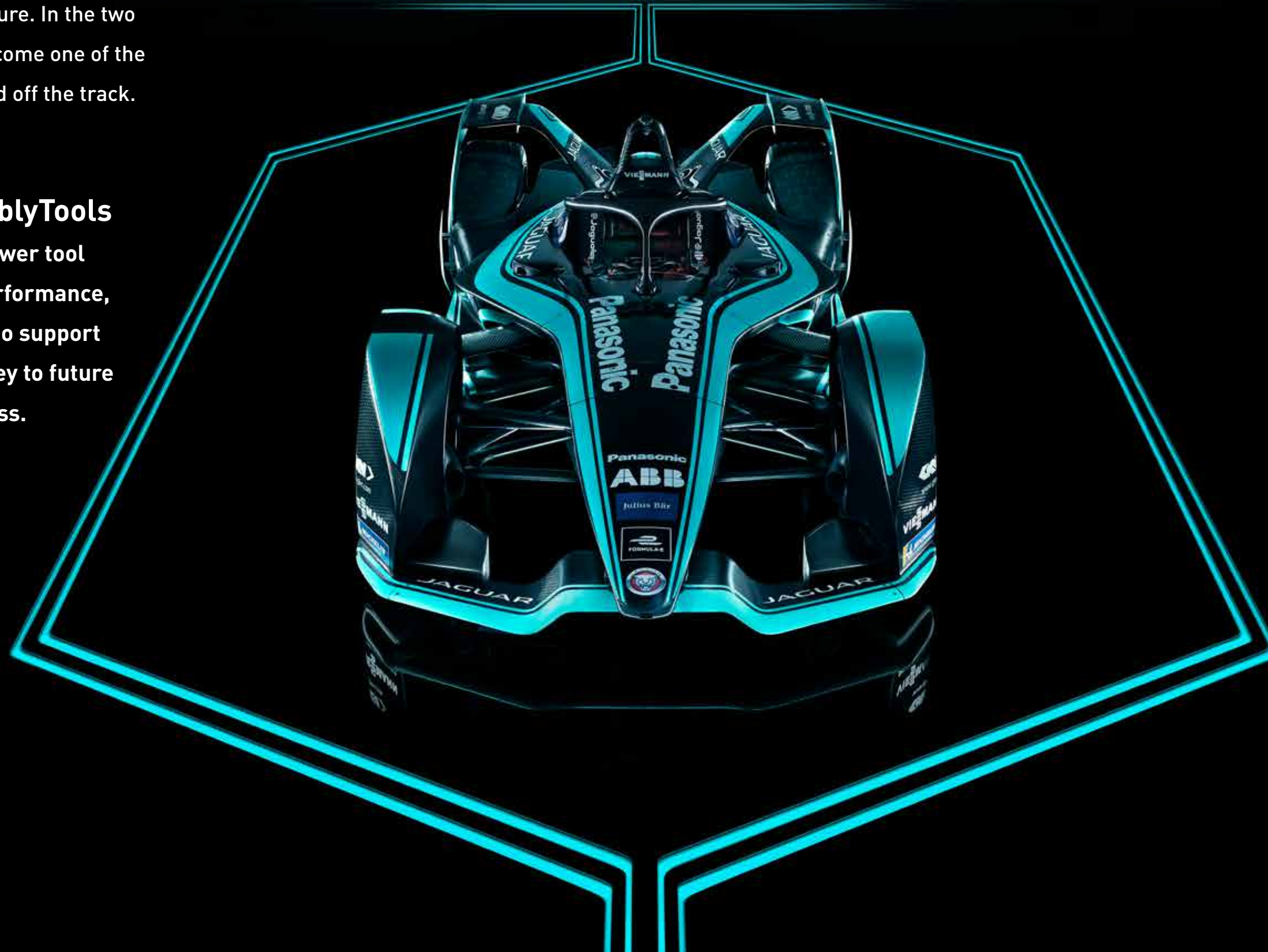
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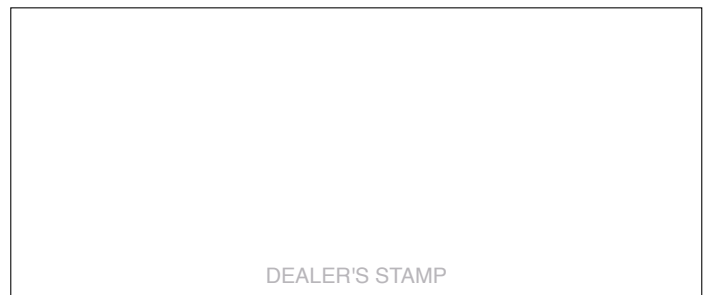


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