Panasonic Cordless Assembly Tools
Bringing Innovation to the Assembly Line

**Benefits**

**Safer Work Environment**
- Virtually No Torque Reaction
  Panasonic Mechanical Pulse Tools provide virtually no reaction to the operator.
- 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.

**Reduce 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.
- Maintenance
  Eliminates the need for maintaining oilers.
- Tool Downtime
  Recovers from power outages within seconds.

**Long Life, Durable Components**
- Long Life Clutch
  All steel clutch for increased durability in EYFG tools.
- Mechanical Pulse Unit
  Long lasting, low maintenance impulse mechanism.
- Li-ion Battery
  Long lasting, high capacity batteries up to 4.2Ah.
- Brushless Motor
  Energy efficient, no maintenance, about doubles the life of the tool.
- Hybrid Switch
  Carries <.5 amp, about doubles the life of the switch.
Remote Control “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’s productivity.

Variable Speed Control
Enable variable speed or single speed trigger operation.

Out of Range / Anti-Theft
When enabled, the tool is disabled if taken out of the qualifier’s wireless range.

Maintenance Interval Alarm
Define in 10,000 increment cycles to notify the operator of upcoming scheduled maintenance.

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

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

Precision Clutch Tools
Ergonomic, Accurate & Repeatable

- High Accuracy ±10% at Cmk≥1.67 – ISO 5393*
- Fast Acting All Steel Clutch for Increased Durability
- Photo Interrupter Sensor Increases Clutch Life and Tool Accuracy
- 60 Stage Adjustable Clutch for Precise Adjustment
- Optional Wireless Version for Increased Error Proofing
- Tamper Resistant Clutch for Increased Quality

*In ≥3Nm Range.
3 model line-up covers a wide range of applications

- Torque and rpm range by models

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque Range</th>
<th>RPM Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYFGA1N/NR</td>
<td>2-5.5 N·m</td>
<td>150-800 rpm</td>
</tr>
<tr>
<td>EYFGA2N/NR</td>
<td>5-8 N·m</td>
<td>150-750 rpm</td>
</tr>
<tr>
<td>EYFGA3N/NR</td>
<td>5-10 N·m</td>
<td>150-450 rpm</td>
</tr>
</tbody>
</table>

Both the torque and RPMs can be adjusted enabling you to select the most suitable setting for your application.

How to set clutch

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

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

60 Stage adjustable clutch

Use the remote to adjust the speed to exactly match the application.

Quickly set the torque by adjusting the scale.

Additional Features

- OK/NOK both visual and audible indicators. (Buzzer ON/OFF can be selected)
- Optional batteries: Compact 2.0Ah or High Capacity 4.2Ah
- 14.4V
- NEW
  - EYFGA3N/NR
    - 2-5.5 N·m
    - 150-800 rpm
  - EYFGA2N/NR
    - 5-8 N·m
    - 150-750 rpm
  - EYFGA1N/NR
    - 2-5.5 N·m
    - 150-800 rpm

High Accuracy

- 10% Cmk ≥ 1.67*
- *In ≥3 Nm range

*ISO5393
Advanced Fastening Features

Cross Thread Reduction
The tool first reverses 360°, 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.

• Example with 3.0 sec. time setting

<table>
<thead>
<tr>
<th>3.0 sec.</th>
<th>2.0 sec.</th>
<th>0.5 sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK</td>
<td>NOK</td>
<td>NOK</td>
</tr>
<tr>
<td>Finished with 3.0 sec. rundown time</td>
<td>Finished with 2.0 sec. rundown time due to cross thread</td>
<td>Finished with 0.5 sec. rundown time due to retightening</td>
</tr>
</tbody>
</table>

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

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

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.

Variable Speed Control Function
Enable variable speed or single speed trigger operation.

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.

Additional Features
Remote Control
Tool setting can be set only by remote control

Rubber grip
Compact and Lightweight
A well balanced compact and light design

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

New 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

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

Auto Downshift Function
After a programmable period of time, the RPM automatically downshifts to 300 RPM’s maximizing operator’s productivity.

Product damage
Reduction the fasteners impact to the material.

800 RPM
300 RPM
500 RPM

No brushes to replace
Brushless motor
The brake is controlled on a separate circuit.
Hybrid Switch
Working current only .5 amps

Floating Connector

300rpm
800rpm

Working current only .5 amps

No brushes to replace
Brushless motor
The brake is controlled on a separate circuit.

Hybrid Switch

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

New 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 Tool

EYFGA1N / EYFGA1NR

Cordless Precision Clutch Tool

- Torque control range – 2-5.5 Nm (17.7-48.6 in. lbs.)
- High accuracy ±10% at Cmk≥1.67 – ISO 5393*
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Fast acting all steel clutch for increased durability
- Photo interrupter sensor increases clutch life and tool accuracy
- Operator Lockout – Tamper proof features
- Programmable “Quick Set” features
  - Adjustable speed (10 RPM Increments) and programmable auto downshift
  - Prevent and detect cross threads and rehits
  - Maintenance interval alarm
  - Variable speed enable/disable
  - Out of range anti-theft enable/disable (Radio version only)
- Error Proofing Features
  - OK/NOK both visual and audible indicators
  - Compatibility with Panasonic Quality Control Monitoring System (See page 20) (Radio version required)
- Available 2.0Ah (EYFB41B) & 4.2Ah (EYFB42B) high capacity 14.4V Li-ion battery
- Variable speed trigger/reversible
- 1/4” Hex quick change chuck
- Battery indicator lamp (3 stages) and programmable LED work light
  (ON/OFF Switch or trigger control)
- Charging time (EY0L82B charger (with 2.0Ah EYFB41B battery))**:
  Usable: 35 minutes  Full: 40 minutes
- Compact size (L x H x W (with 2.0Ah EYFB41B battery)): 7-13/16” x 9-1/8” x 2-15/16”
- Light weight (with 2.0Ah battery (EYFB41B)): 2.8 lbs.
- Includes 1 – Tool body, 1 – (EYFA32B) Clutch Adjustment Tool

Torque Range

<table>
<thead>
<tr>
<th>EYFGA1N / EYFGA1NR:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery pack, battery charger and remote control are not included.</td>
</tr>
</tbody>
</table>

14.4V

Battery specifications:
*In ≥3 Nm Range
**Charging times are approximate and may be slightly longer depending on conditions.
EYFGA2N / EYFGA2NR

Cordless Precision Clutch Tool

- Torque control range – 5-8 Nm (44.2-70.8 in. lbs.)
- High accuracy ±10% at Cmk≥1.67 – ISO 5393
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Fast acting all steel clutch for increased durability
- Photo interrupter sensor increases clutch life and tool accuracy
- Operator Lockout – Tamper proof features
  - Clutch adjustment tool (included [EYFA32B]) for changing torques
  - Remote control (optional [EYFA31B]) required for “Quick Set” Features
- Programmable “Quick Set” features
  - Adjustable speed (10 RPM Increments) and programmable auto downshift
  - Prevent and detect cross threads and rehits
  - Maintenance interval alarm
  - Variable speed enable/disable
  - Out of range anti-theft enable/disable [Radio version only]
- Error Proofing Features
  - OK/NOK both visual and audible indicators
  - Compatibility with Panasonic Quality Control Monitoring System
    (See page 20) [Radio version required]
- Available 2.0Ah [EYFB41B] & 4.2Ah [EYFB42B] high capacity 14.4V Li-ion battery
- Variable speed trigger/reversible
- 1/4” Hex quick change chuck
- Battery indicator lamp (3 stages) and programmable LED work light
  [ON/OFF Switch or trigger control]
- Charging time [EY0L82B charger (with 2.0Ah EYFB41B battery)]:*  
  Usable: 35 minutes Full: 40 minutes
- Compact size (L x H x W (with 2.0Ah EYFB41B battery)): 7-13/16” x 9-1/8” x 2-15/16”
- Light weight (with 2.0Ah battery [EYFB41B]): 2.8 lbs.
- Includes 1 – Tool body, 1 – [EYFA32B] Clutch Adjustment Tool

Torque Range 5-8 Nm (44.2-70.8 in. lbs.)
Speed 150-750 RPM
Drive 1/4” Hex Quick Change

EYFGA2N/EYFGA2NR:
Battery pack, battery charger and remote control are not included.

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

EYFGA3N / EYFGA3NR

Cordless Precision Clutch Tool

- Torque control range – 5-10 Nm (44.3-88.5 in. lbs.)
- High accuracy ±10% at Cmk≥1.67 – ISO 5393
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Fast acting all steel clutch for increased durability
- Photo interrupter sensor increases clutch life and tool accuracy
- Operator Lockout – Tamper proof features
  - Clutch adjustment tool (included [EYFA32B]) for changing torques
  - Remote control (optional [EYFA31B]) required for “Quick Set” Features
- Programmable “Quick Set” features
  - Adjustable speed (10 RPM Increments) and programmable auto downshift
  - Prevent and detect cross threads and rehits
  - Maintenance interval alarm
  - Variable speed enable/disable
  - Out of range anti-theft enable/disable [Radio version only]
- Error Proofing Features
  - OK/NOK both visual and audible indicators
  - Compatibility with Panasonic Quality Control Monitoring System
    (See page 20) [Radio version required]
- Available 2.0Ah [EYFB41B] & 4.2Ah [EYFB42B] high capacity 14.4V Li-ion battery
- Variable speed trigger/reversible
- 1/4” Hex quick change chuck
- Battery indicator lamp (3 stages) and programmable LED work light
  [ON/OFF Switch or trigger control]
- Charging time [EY0L82B charger (with 2.0Ah EYFB41B battery)]:*  
  Usable: 35 minutes Full: 40 minutes
- Compact size (L x H x W (with 2.0Ah EYFB41B battery)): 7-13/16” x 9-1/8” x 2-15/16”
- Light weight (with 2.0Ah battery [EYFB41B]): 2.9 lbs.
- Includes 1 – Tool body, 1 – [EYFA32B] Clutch Adjustment Tool

Torque Range 5-10 Nm (44.3-88.5 in. lbs.)
Speed 150 - 450 RPM
Drive 1/4” Hex Quick Change

EYFGA3N/EYFGA3NR:
Battery pack, battery charger and remote control are not included.

*Charging times are approximate and may be slightly longer depending on conditions.
Cordless Low Torque Clutch Tool and Driver Kit

- 21 Stage clutch with auto shut off (Approx.): Low: 2.7-35.4 in. lbs. High: 2.7-17.7 in. lbs.
- Clutch cover for locking out clutch adjustment and speed selector switch
- 2 Speed/reversible: Low: 300 RPM High: 900 RPM
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Over Current Protection – Disables the tool if unable to achieve the target torque
- Variable speed trigger/reversible
- LED work light
- Long lasting 1.5Ah Li-ion battery
- 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”
- Light weight (incl. battery): 1.39 lbs.
- Charging Time (using EY0L20B charger)*: Usable: 35 minutes Full: 60 minutes
- Max. Screw Driving: High: M4 screw Low: M5 screw
- Kit includes 1 – Tool, 2 – (EY9L20B) 1.5Ah 7.2V Li-ion Battery, 1 – (EY0L20B) Charger and 1 – (WEYFEA1N3137) Clutch Lock Cover

Optional Accessory
Clutch lock cover
WEFEA1N3137

TYPICAL APPLICATION
- Electricians
- Electronics Assembly
- Rack/Cabinet Installers
- Production / Assembly Work
- Service Engineers

MORE FEATURES

Compact & Lightweight
User-friendly size and weight of EYFEA1N can reduce operator fatigue. Well balanced T shape body and slim grip also improve operator acceptance.

WEIGHT
1.39 lbs.
LENGTH
5.7”

Approx. 2-13/16” difference in length

Clutch & High/Low switch lock cover.
Clutch & High/Low switch lock cover prevents the operator from changing clutch setting or RPM setting by mistake.

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

*Charging times are approximate and may be slightly longer depending on conditions.
## 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 the tool pulses before achieving the flush point encountered in many prevailing torque and varying joint rate applications.

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

### Out of Range / Anti-Theft
When enabled, the tool is disabled if taken out of the qualifier’s wireless range. Available on models equipped with radio transmitters only.
Cordless Mechanical Pulse Tools Deliver Accuracy and Durability.

3 to 100 Nm virtually reaction free!

The on board 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.

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

**Table:**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>L1</td>
<td>Use on applications with no pulses before the flush point or when fastening fragile materials like plastic.</td>
</tr>
<tr>
<td>L2</td>
<td>Use on most applications when the tool pulses before achieving the flush point.</td>
</tr>
</tbody>
</table>

**Diagram:**

- Mechanical Pulse Mechanism
- Rotor Angle Sensor
- Pulse Monitoring Sensor
- Control Processing Unit

**Textual Description:**

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

Green light indicates tightening is complete.

Compact 10.8V/14.4V 2.0Ah Li-ion Batteries
High Capacity 10.8V 3.0Ah and 14.4V 4.2Ah Li-ion Batteries
Lifetime total performance improves drastically with brushless-motor and high capacity Li-ion battery!

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.

Maintains selected torque level as the battery power drops.

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

Retightening Prevention Function
Maintaining Good Quality
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.

1. Shut-off
2. Triggering within one sec.
After one sec.

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

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

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

LED Light
For operations in dimly lit places

Color Plate for Differentiation
Each tool model is color coded for easy identification.
Patented Panasonic CPU controlled auto shut-off
Brushless Motor – energy efficient, no maintenance and about doubles the life of the tool
Hybrid Switch (<.5 amps) – about doubles the life of the switch
High fastening speed 2,300 RPM’s (no load)
Optional wireless version for quality control monitoring
Operator lockout for consistent quality
Low Battery Disable - Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
Operator Visual OK/NOK Light
Compact and Lightweight 2.8 – 3.3 lbs.
EYFLA4A / EYFLA4AR

**Cordless Mechanical Pulse Tool**

- Torque controlled range – 3-22 Nm (2.2-16.2 ft. lbs.) (Based on medium hard joint*)
- Maximum Torque in non-shut off mode – Approx. 40 Nm (29.5 ft. lbs.)**
- Patented Panasonic CPU controlled auto shut-off
- Torque Setting – 30 stages in L1 mode and 30 stages in L2 mode + F mode (non shut-off mode)
- Flush Detection Mode Applications
  - L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
  - L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for "Quick Set" features (See page 11)
- Error proofing with OK/NOK indicator
  - Radio version required for Panasonic Quality Control Monitoring System (See page 20)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 1/4" Hex quick change chuck
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: RPM) – 1: 0-950, 2: 0-1,300, 3: 0-1,450, 4-8: 0-1,550, 9-30 & F: 0-2,300
- Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-7/32" x 9-25/32" x 2-61/64"
- Light weight (incl. 3.0Ah battery (EYFB30B)): 2.8 lbs.

**TYPICAL APPLICATION**
- M5-M6 Bolt (Normal-Tensile Bolt)
- M8 Bolt (Normal Bolt)

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

**M10 Bolt (F mode, tightening 3 sec.)**

EYFLA4A/EYFLA4AR: Battery pack and battery charger are not included.

EYFLA5A / EYFLA5AR

**Cordless Mechanical Pulse Tool**

- Torque controlled range – 6-30 Nm (4.4-22 ft. lbs.) (Based on medium hard joint*)
- Maximum Torque in non-shut off mode – Approx. 90 Nm (66.4 ft. lbs.)**
- Patented Panasonic CPU controlled auto shut-off
- Torque Setting – 30 stages in L1 mode and 30 stages in L2 mode + F mode (non shut-off mode)
- Flush Detection Mode Applications
  - L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
  - L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for "Quick Set" features (See page 11)
- Error proofing with OK/NOK indicator
  - Radio version required for Panasonic Quality Control Monitoring System (See page 20)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 1/4" Hex quick change chuck
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: RPM) – 1: 0-1,300, 2: 0-1,450, 3: 0-1,550, 4-30 & F: 0-2,300
- Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-7/32" x 9-25/32" x 2-61/64"
- Light weight (incl. 3.0Ah battery (EYFB30B)): 2.8 lbs.

**TYPICAL APPLICATION**
- M6 Bolt (Tensile Bolt)
- M8 Bolt (Normal Bolt)

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

**M14 Bolt (F mode, tightening 3 sec.)**

EYFLA5A/EYFLA5AR: Battery pack and battery charger are not included.
EYFLA5P / EYFLA5PR

Cordless Mechanical Pulse Tool

- Torque controlled range – 6-30 Nm (4.4-22 ft. lbs.) (Based on medium hard joint*)
- Maximum Torque in non-shut off mode – Approx. 90 Nm [66.4 ft. lbs.]**
- Patented Panasonic CPU controlled auto shut-off
- Torque Setting – 30 stages in L1 mode and 30 stages in L2 mode + F mode (non shut-off mode)
- Flush Detection Mode Applications
  - L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
  - L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for “Quick Set” features (See page 11)
- Error proofing with OK/NOK indicator
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 3/8” Square drive with pin detent
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: RPM) – 1: 0-1,300, 2: 0-1,450, 3: 0-1,550, 4-30 & F: 0-2,300
- Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-7/16” x 9-25/32” x 2-61/64”
- Light weight (incl. 3.0Ah battery (EYFB30B)): 2.8 lbs.

EYFLA5Q / EYFLA5QR

Cordless Mechanical Pulse Tool

- Torque controlled range – 6-30 Nm (4.4-22 ft. lbs.) (Based on medium hard joint*)
- Maximum Torque in non-shut off mode – Approx. 90 Nm [66.4 ft. lbs.]**
- Patented Panasonic CPU controlled auto shut-off
- Torque Setting – 30 stages in L1 mode and 30 stages in L2 mode + F mode (non shut-off mode)
- Flush Detection Mode Applications
  - L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
  - L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for “Quick Set” features (See page 11)
- Error proofing with OK/NOK indicator
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 3/8” Square drive with through hole
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: RPM) – 1: 0-1,300, 2: 0-1,450, 3: 0-1,550, 4-30 & F: 0-2,300
- Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-7/16” x 9-25/32” x 2-61/64”
- Light weight (incl. 3.0Ah battery (EYFB30B)): 2.8 lbs.
**EYFLA6P / EYFLA6PR**

**Cordless Mechanical Pulse Tool**

- Torque controlled range – 16-53 Nm (11.8-39 ft. lbs.) (Based on medium hard joint*)
- Maximum Torque in non-shut off mode – Approx. 120 Nm (88.5 ft. lbs.)**
- Patented Panasonic CPU controlled auto shut-off
- Torque Setting – 30 stages in L1 mode and 30 stages in L2 mode + F mode (non shut-off mode)
- Flush Detection Mode Applications
  - L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
  - L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for “Quick Set” features (See page 11)
- Error proofing with OK/NOK indicator
- Radio version required for Panasonic Quality Control Monitoring System (See page 20)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 1/2” Square drive with pin detent
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: RPM) – Torque Setting 1-30 & F: 0-2,300
- Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-25/32” x 9-25/32” x 2-61/64”
- Light weight (incl. 3.0Ah battery (EYFB30B)): 3.1 lbs.

**TYPICAL APPLICATION**
- M8 Bolt (Tensile Bolt)
- M10 Bolt (Normal Bolt)

* Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
** M14 Bolt (F mode, tightening 3 sec.)

**EYFLA6J / EYFLA6JR**

**Cordless Mechanical Pulse Tool**

- Torque controlled range – 16-53 Nm (11.8-39 ft. lbs.) (Based on medium hard joint*)
- Maximum Torque in non-shut off mode – Approx. 120 Nm (88.5 ft. lbs.)**
- Patented Panasonic CPU controlled auto shut-off
- Torque Setting – 30 stages in L1 mode and 30 stages in L2 mode + F mode (non shut-off mode)
- Flush Detection Mode Applications
  - L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
  - L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for “Quick Set” features (See page 11)
- Error proofing with OK/NOK indicator
- Radio version required for Panasonic Quality Control Monitoring System (See page 20)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 1/2” Square drive with through hole
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: RPM) – Torque Setting 1-30 & F: 0-2,300
- Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-25/32” x 9-25/32” x 2-61/64”
- Light weight (incl. 3.0Ah battery (EYFB30B)): 3.1 lbs.

**TYPICAL APPLICATION**
- M8 Bolt (Tensile Bolt)
- M10 Bolt (Normal Bolt)

* Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
** M14 Bolt (F mode, tightening 3 sec.)
**EYFMA1P / EYFMA1PR**

**Cordless Mechanical Pulse Tool**

- Torque controlled range – 25-100 Nm (18.4-73.7 ft. lbs.) (Based on medium hard joint*)
- Maximum Torque in non-shut off mode – Approx. 185 Nm (136.5 ft. lbs.)**
- Patented Panasonic CPU controlled auto shut-off
- Torque Setting – 30 stages in L1 mode and 30 stages in L2 mode + F mode (non shut-off mode)
- Flush Detection Mode Applications
  - L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
  - L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for “Quick Set” features (See page 11)
- Error proofing with OK/NOK indicator
- Radio version required for Panasonic Quality Control Monitoring System (See page 20)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB41B) & 4.2Ah (EYFB42B) high capacity 14.4V Li-ion battery
- Variable speed trigger/reversible
- 1/2” Square drive with pin detent
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: RPM) – Torque Setting 1-30 & F: 0-2,300
- Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-25/32” x 9-25/32” x 2-61/64”
- Light weight (incl. 4.2Ah battery [EYFB42B]): 3.3 lbs.

**TYPICAL APPLICATION**

- M10 Bolt (Tensile Bolt)
- M12 Bolt (Normal Bolt)
- M14 Bolt (Tensile Bolt)

---

**EYFMA1J / EYFMA1JR**

**Cordless Mechanical Pulse Tool**

- Torque controlled range – 25-100 Nm (18.4-73.7 ft. lbs.) (Based on medium hard joint*)
- Maximum Torque in non-shut off mode – Approx. 185 Nm (136.5 ft. lbs.)**
- Patented Panasonic CPU controlled auto shut-off
- Torque Setting – 30 stages in L1 mode and 30 stages in L2 mode + F mode (non shut-off mode)
- Flush Detection Mode Applications
  - L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
  - L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for “Quick Set” features (See page 11)
- Error proofing with OK/NOK indicator
- Radio version required for Panasonic Quality Control Monitoring System (See page 20)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB41B) & 4.2Ah (EYFB42B) high capacity 14.4V Li-ion battery
- Variable speed trigger/reversible
- 1/2” Square drive with through hole
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: RPM) – Torque Setting 1-30 & F: 0-2,300
- Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-25/32” x 9-25/32” x 2-61/64”
- Light weight (incl. 4.2Ah battery [EYFB42B]): 3.3 lbs.

**TYPICAL APPLICATION**

- M10 Bolt (Tensile Bolt)
- M12 Bolt (Normal-Tensile Bolt)
- M14 Bolt (Normal Bolt)

---

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

** M16 Bolt (F mode, tightening 3 sec.)

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**EYFMA1P/EYFMA1PR:** Battery pack and battery charger are not included.

**EYFMA1J/EYFMA1JR:** Battery pack and battery charger are not included.
### Mechanical Pulse Tool Spec Table

<table>
<thead>
<tr>
<th>MODELS</th>
<th>EYFLA4A</th>
<th>EYFLA4AR</th>
<th>EYFLA5A/5P/5Q</th>
<th>EYFLA5AR/5PR/5QR</th>
<th>EYFLA6J/6P</th>
<th>EYFLA6JR/6PR</th>
<th>EYFMA1J/1P</th>
<th>EYFMA1JR/1PR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>10.8V</td>
<td>10.8V</td>
<td>10.8V</td>
<td>10.8V</td>
<td>14.4V</td>
<td></td>
<td>14.4V</td>
<td></td>
</tr>
<tr>
<td>Drive</td>
<td>A = 1/4” Hex Quick Change</td>
<td>A = 1/4” Hex Quick Change</td>
<td>P = 3/8” Sq. Pin Detent</td>
<td>Q = 3/8” Sq. Through Hole</td>
<td>J = 1/2” Sq. Through Hole</td>
<td>P = 1/2” Sq. Pin Detent</td>
<td>J = 1/2” Sq. Through Hole</td>
<td></td>
</tr>
<tr>
<td>Torque Range</td>
<td>3-22 Nm (2.2-16.2 ft. lbs.)</td>
<td>6-30 Nm (4.4-22.1 ft. lbs.)</td>
<td>16-53 Nm (11.8-39 ft. lbs.)</td>
<td>25-100 Nm (18.4-73.8 ft. lbs.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max Torque</td>
<td>Approx. 40 Nm M10 Bolt</td>
<td>Approx. 90 Nm M14 Bolt</td>
<td>Approx. 120 Nm M14 Bolt</td>
<td>Approx. 185 Nm M14 Bolt</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Load Speed (Torque Setting: RPM)</td>
<td>Stage 1: 0-950</td>
<td>Stage 2: 0-1300</td>
<td>Stage 3: 0-1450</td>
<td>Stage 4: 0-1550</td>
<td>Stage 9: 0-2300</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PPM (Pulses Per Min.)</td>
<td>Stage 1: 0-1900</td>
<td>Stage 2: 0-2500</td>
<td>Stage 3: 0-2800</td>
<td>Stage 4: 0-3000</td>
<td>Stage 9: 0-3600</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>2.8 lbs. (incl. 3.0Ah (EYFB30B))</td>
<td>2.8 lbs. (incl. 3.0Ah (EYFB30B))</td>
<td>3.1 lbs. (incl. 3.0Ah (EYFB30B))</td>
<td>3.3 lbs. (incl. 4.2Ah (EYFB42B))</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size (L x W x H)</td>
<td>6-7/32” x 9-25/32” x 2-61/64”</td>
<td>6-7/32” x 9-25/32” x 2-61/64”</td>
<td>6-25/32” x 9-25/32” x 2-61/64”</td>
<td>6-25/32” x 9-25/32” x 2-61/64”</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### FUNCTION

**Wireless Communication**
- With assembly qualifier (OK Fasten=Green light, NOK Fasten=Red light) (*radio models only)

**LED Light**
- (ON/OFF Switch, Light off after five minutes automatically)

**OK/NOK Light**
- (Finish tightening: Green / Not finished tightening: Red)

**Rehit Prevention**
- (Possible to set per 0.1 sec. between 0-3 sec.)

**Battery Indication Lamp**
- [3 stage]

**Low Power Disable**
-  

### 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
- **EY0L20B** 7.2V Charger
- **EY0LR2B** 10.8V - 28.8V Charger

#### Tool 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
- **EYFA05** EYFG Tool Protectors -A (blue) -Y (yellow) -H (gray)
- **EYFA01** EYFL/EYFM Tool Protectors -A (blue) -Y (yellow) -H (gray) -G (green)

#### Accessories

- **EYFA32B** Clutch Adjustment Tool for EYFG Series Tools
- **EYFA40B** EYFG Tool Hanger
- **WEYFEA1N3137** Clutch Lock Out Cover for EYFEA1N
- **EYFA31B** Remote Control for all EYFL/EYFM/EYFG Tools
Panasonic Quality Control Monitoring

With highly efficient tools and qualifiers, Panasonic offers a reliable Quality Control System.

The transmitter is completely stored in the tool’s grip part. Same tool body size and only approx. 15g more weight compared to the Non Wireless Communication model.

Panasonic Wireless Communication System

With this system, data from the fastening process can be stored to a computer or sequencer through the assembly qualifier, as OK/NOK data.

**With EYFRZ01**

- **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.
- **From the qualifier the following data can be output to a computer or PLC**
  - OK/NOK
  - Time/Date stamp
  - Number of fasteners in the batch
  - Number of fasteners completed in each batch
  - Number of completed batches

**Green light Indicates a successful fastening.**
**Red light indicates unsuccessful fastening.**

**With EYFRZ02**

- **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.
- **From the qualifier the following data can be output to a computer or PLC**
  - OK/NOK

**USB, PLC or Fieldbus**

**PLC**

**Panasonic Wireless Communication System**

A - Atlas Copco Open Protocol
B - Basic
C - GM (COSS)
D - Device Net
E - Ethernet IP
P - Chrysler (PFCS)

18
Improving fastening quality with Torque Control
Transmission of OK/NOK signal
Storing the OK/NOK signal data
*The data is stored in a computer

<table>
<thead>
<tr>
<th>Wireless Tool + Assembly Qualifier + USB or Fieldbus</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless Tool + Assembly Qualifier + PLC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non Wireless / Wireless Tool</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

ID Management is not Required
The qualifiers accept only registered ID. There is no interference even when multiple tools are used on the production line.

MODEL

<table>
<thead>
<tr>
<th>EYFRZ01 (A,B,C,D,P)</th>
<th>EYFR02B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Range of</td>
<td>10M</td>
</tr>
<tr>
<td>Rated Supply Voltage</td>
<td>AC100-240V, 50/60Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>7.6W - 9.6W</td>
</tr>
<tr>
<td>No. of Connected Devices</td>
<td>8</td>
</tr>
<tr>
<td>Communication Data</td>
<td>OK/NOK signal (Pokayoke)</td>
</tr>
<tr>
<td>Function Settings</td>
<td>With LCD display and Soft Key</td>
</tr>
<tr>
<td>ID Settings</td>
<td>With LCD display and Soft Key</td>
</tr>
<tr>
<td>Reset Input</td>
<td>60mA at 24V</td>
</tr>
<tr>
<td>External Connection Output</td>
<td>2A at 24VDC</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-10°C (14°F) – 60°C (140°F)</td>
</tr>
<tr>
<td>Weight</td>
<td>7.9 lbs.</td>
</tr>
<tr>
<td>Dimensions (L x H x W)</td>
<td>9-1/16” x 14-1/8” x 3-1/2”</td>
</tr>
<tr>
<td>Out of Range Disable Function</td>
<td>• (On/Off of this function can be switched on the tool body)</td>
</tr>
<tr>
<td>Fastener Count Function</td>
<td>• (Needs to be set by external device)</td>
</tr>
<tr>
<td>Compatible Tools</td>
<td>EYFGA1NR, EYFGA2NR, EYFGA3NR, EYFLA4AR, EYFLA5AR, EYFLA5PR, EYFLA5QR, EYFLA6AR, EYFLA6PR, EYFLA6JR, EYFMA1PR, EYFMA1JR</td>
</tr>
</tbody>
</table>

Communication range varies with operating environment. The presence of metal walls, people, or other objects may result in decreased range.
Impact Driver

Brushless Motor with Variable Speed for Increased Control

18V
Faster and long lasting

14.4V
Lighter weight for overhead use

EY75A4X
Cordless 1/4" Hex Impact Driver

- Dual voltage – excepts either 14.4V or 18V Panasonic Li-ion batteries
- High capacity 4.2Ah Li-ion battery (optional)
- High power: Impact Mode: 1,370 in. lbs. (114 ft. lbs.)
- Brushless motor and hybrid switch
- Variable speed trigger/reversible
- Electric brake
- 1/4" Hex quick connect collet
- LED work light
- Belt hook
- Low battery indicator
- Compact size (L x H x W): 5-5/8" x 9-17/32" x 2-13/16"
- Charging Time (using EY0L82B charger)*: Usable: 55 minutes Full: 70 minutes

Tool Specs

| Max. Torque | 1,370 in. lbs.* |
| Speed at No Load | 0 - 2,500 RPM |
| Impact/min. | 0 - 3,000 IPM |

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

TYPICAL APPLICATION

- Construction
- General Industry
- Automotive/Truck Repair and Maintenance
- HVAC
- Maintenance
- Recreational Vehicles
Impact Wrench

Brushless Motor, Variable Speed, 1/2” Square Drive with 1/4” Quick Change Adapter Included.

18V
Faster and long lasting

14.4V
Light weight for overhead use

EY75A5X
Cordless 1/2” Impact Wrench

• Dual voltage – accepts either 14.4V or 18V Panasonic Li-ion batteries
• High capacity 4.2Ah Li-ion battery (optional)
• 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
• LED work light
• Belt hook
• Low battery indicator
• 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.
• Charging Time (using EY0L82B charger)*: Usable: 55 minutes  Full: 70 minutes

Tool Specs

<table>
<thead>
<tr>
<th>Tool Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Torque</td>
<td>1,815 in. lbs.*</td>
</tr>
<tr>
<td>Speed at No Load</td>
<td>0 - 2,300 RPM</td>
</tr>
<tr>
<td>Impact/min.</td>
<td>0 - 3,500 IPM</td>
</tr>
</tbody>
</table>

*Charging times are approximate and may be slightly longer depending on conditions.
Multi-Purpose Metal Cutter

Made for cutting various materials
Cordless Multi Purpose Metal Cutter Kit

- High capacity 3.3Ah Li-ion battery
- Compact size (L x H x W): 13-1/4" x 9" x 6-5/16"
- Light weight (incl. battery): 5.84 lbs.
- Rotating Speed: 3,600 RPM
- Blade Size: Outer diameter 5-3/8" Arbor size 13/16"
- Cutting Depth: Max. 1-13/16"
- Electric brake
- Cutting edge is easily seen through transparent window
- In-line ergonomic design for comfortable cutting
- Safety switch lock lever
- Shaft lock button for easy blade replacement
- Charging Time (using EY0L82B charger)*:
  Usable: 40 minutes  Full: 55 minutes
- LED work light
- Low battery indicator
- Kit includes 1 - EY4542, 2 - (EY9L44B) 3.3Ah 14.4V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.

Metal Cutting Blade Standard
- C-6 tungsten carbide-tipped blade for metal cutting
- 30 teeth
- Kerf (in.): 1/16" (.055)

Wood Cutting Blade Optional
- C-6 tungsten carbide-tipped blade for wood cutting
- 30 teeth
- Kerf (in.): 3/64" (.047)

3-way Dust Control
- 1 Use with vacuum cleaner to collect dust
- 2 Collects dust in the dust case
- 3 Eject dust to the rear of the machine

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