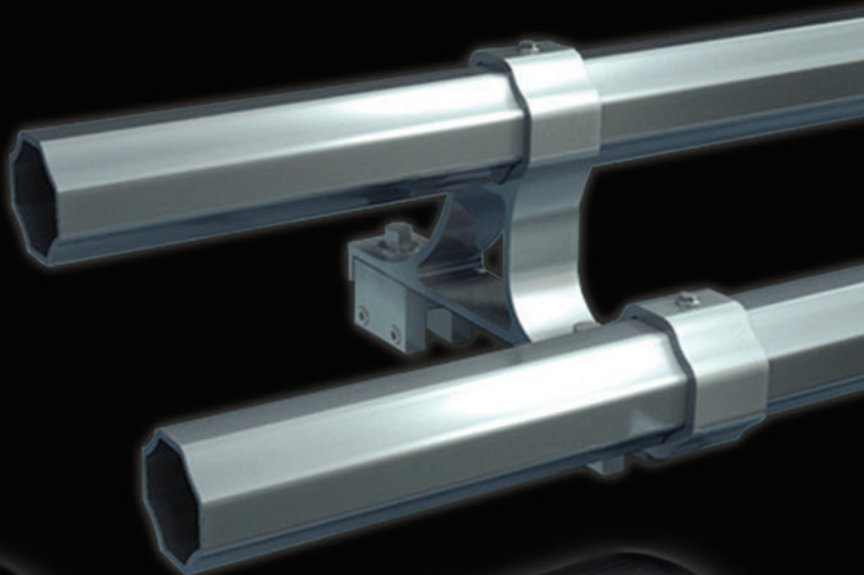


Assembly Tools

Bringing Innovation to the Assembly Line



S-5!®

The Right Way!

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

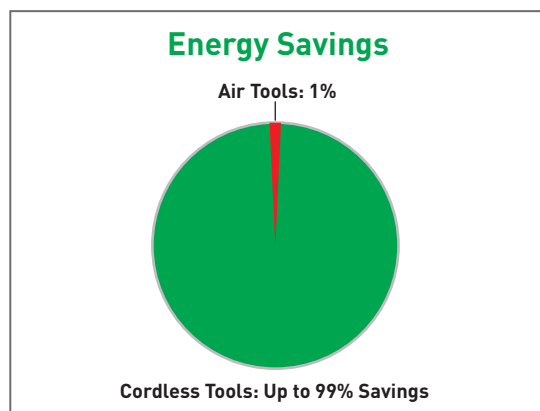
Complete freedom in assembly area design.

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.



Precision Clutch Tools

Ergonomic, Accurate & Repeatable

- High Accuracy $\pm 10\%$ at $Cmk \geq 1.67$ – 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



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.

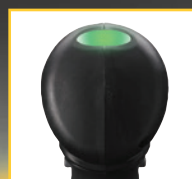
Precision Clutch Tools

Ergonomic, Accurate & Repeatable

NEW

High Accuracy
 $10\% \cdot Cmk \geq 1.67^*$
 (ISO5393)

*In ≥ 3 Nm range



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

Additional Features



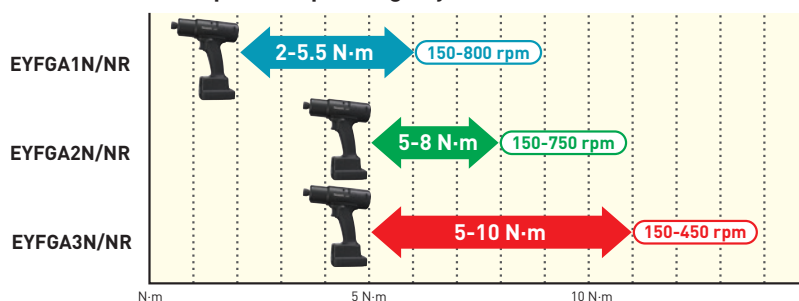
14.4V

2.0Ah
 4.2Ah

Optional batteries:
 Compact 2.0Ah or
 High Capacity 4.2Ah

3 model line-up covers a wide range of applications

• Torque and rpm range by models



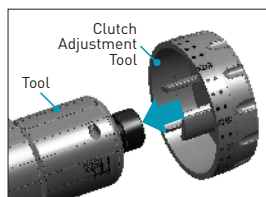
Both the torque and RPMs can be adjusted enabling you to select the most suitable setting for your application.

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

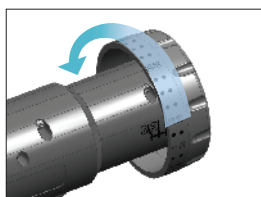


60 Stage adjustable clutch

How to set clutch

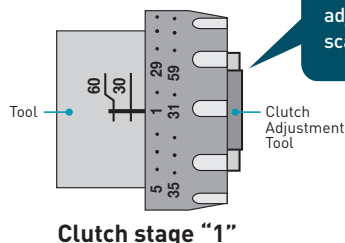


① Insert the clutch adjustment tool into the nose of the tool.



② Turn and set

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

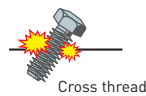


Clutch stage "1"

Quickly set the torque by adjusting the scale.

Advanced Fastening Features

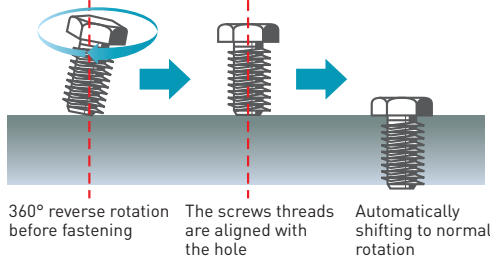
Cross Thread Reduction



Cross thread

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

Reverse Rotation!



360° reverse rotation before fastening

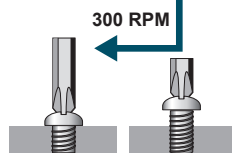
The screws threads are aligned with the hole

Automatically shifting to normal rotation

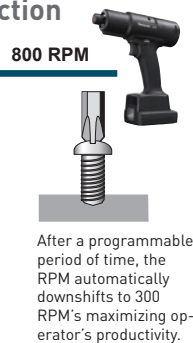
Auto Downshift Function



Product damage

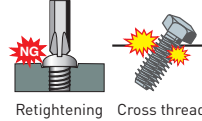


Reducing the fasteners impact to the material.



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

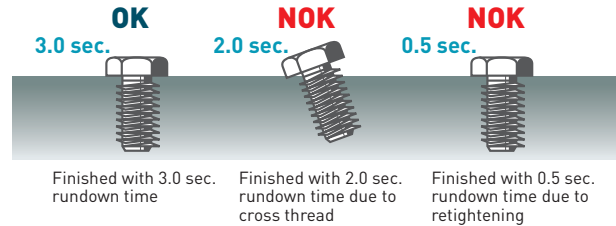
Cross Thread / Rehit Detection



Retightening Cross thread

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



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 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

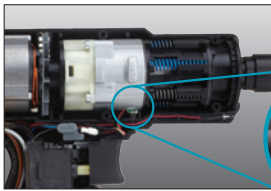
Before the battery power becomes too low to maintain torque, it shuts down the tool and notifies the operator by blinking the LED indicator until a charged battery pack is attached.

Variable Speed Control Function

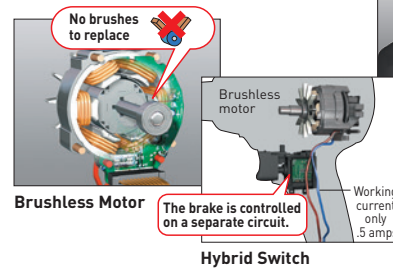
Enable variable speed or single speed trigger operation.

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.

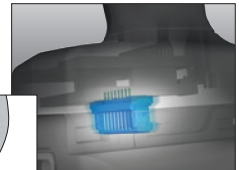


No brushes to replace

Brushless Motor

The brake is controlled on a separate circuit.

Hybrid Switch



Floating Connector

Additional Features



Rubber grip

Compact and Lightweight
A well balanced compact and light design



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

Remote Control
Tool setting can be set only by remote control



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

14.4V

- Torque control range – 2-5.5 Nm (17.7-48.6 in. lbs.)
- High accuracy $\pm 10\%$ at $\text{Cmk} \geq 1.67$ – 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	2-5.5 Nm (17.7-48.6 in. lbs.)
Speed	150 - 800 RPM
Drive	1/4" Hex Quick Change

EYFGA1N/EYFGA1NR:

Battery pack, battery charger and remote control are not included.

EYFGA2N / EYFGA2NR

Cordless Precision Clutch Tool

14.4V

- Torque control range – 5-8 Nm (44.2-70.8 in. lbs.)
- High accuracy $\pm 10\%$ at $Cmk \geq 1.67$ – 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

14.4V

- Torque control range – 5-10 Nm (44.3-88.5 in. lbs.)
- High accuracy $\pm 10\%$ at $Cmk \geq 1.67$ – 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 (44.2-88.5 in. lbs.)
Speed	150 - 450 RPM
Drive	1/4" Hex Quick Change

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

Cordless Low Torque Clutch Tool and Driver Kit

7.2V

- 21 Stage clutch with auto shut off (Approx.): Low: 2.7-35.4 in. lbs. High: 2.7-17.7 in. lbs.
- 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



EYFEA1N:
Battery pack and battery charger
are not included.

TYPICAL APPLICATION

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

Optional Accessory
Clutch lock cover

WEFEA1N3137



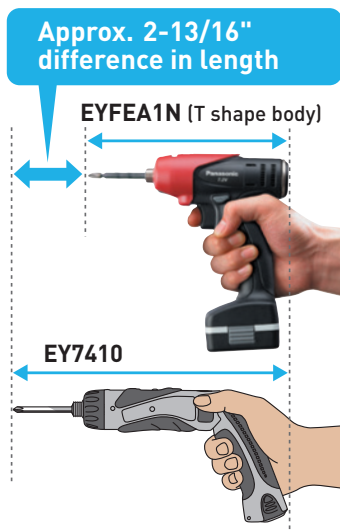
MORE FEATURES

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.

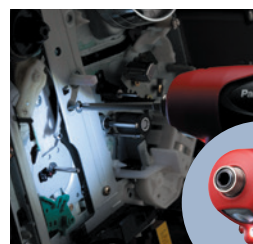
WEIGHT
1.39 lbs.

LENGTH
5.7"



Clutch & High/Low switch lock cover.

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

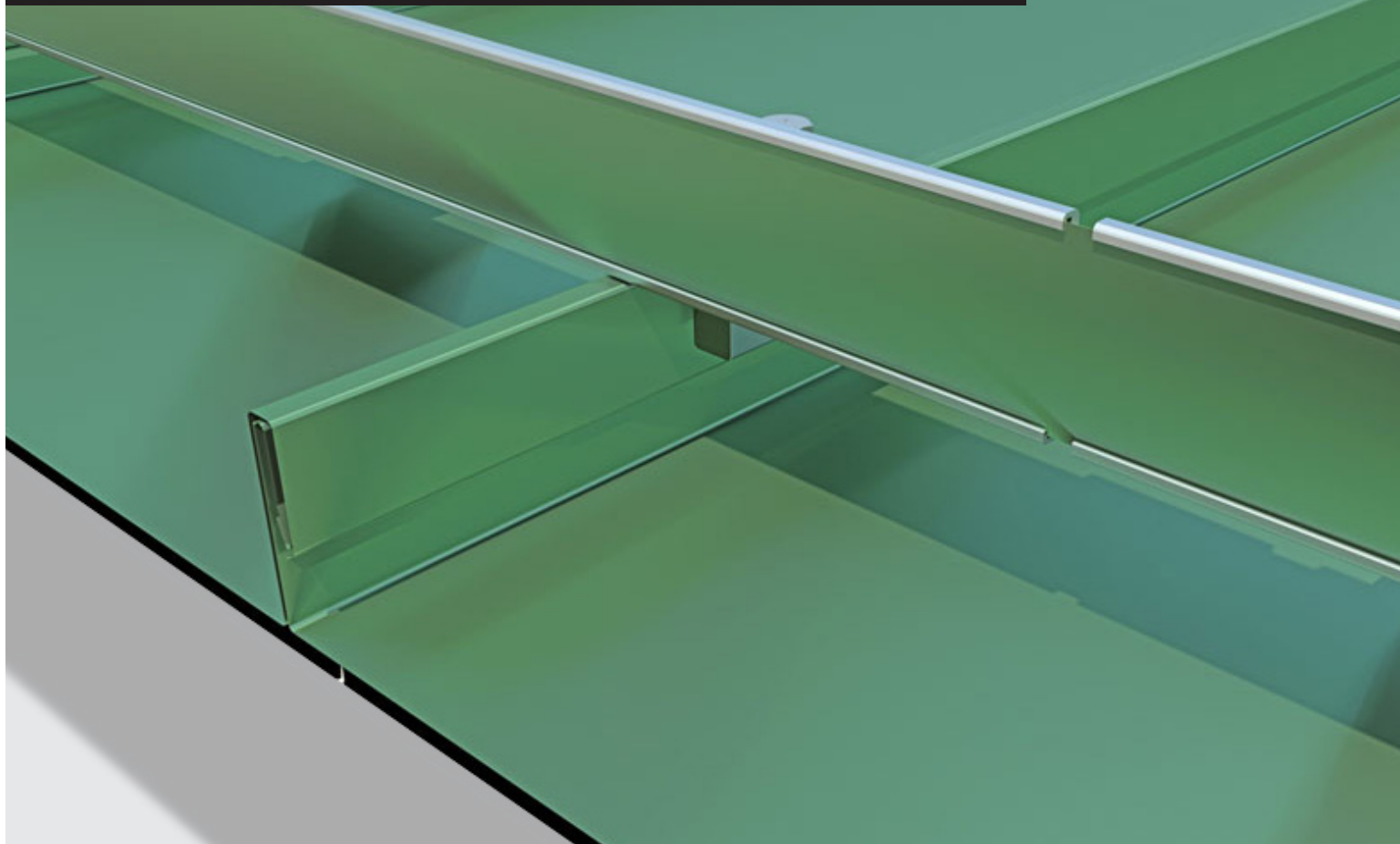


LED Light

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

Mechanical Pulse Tools

Virtually No Torque Reaction Up To 100 Nm



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.

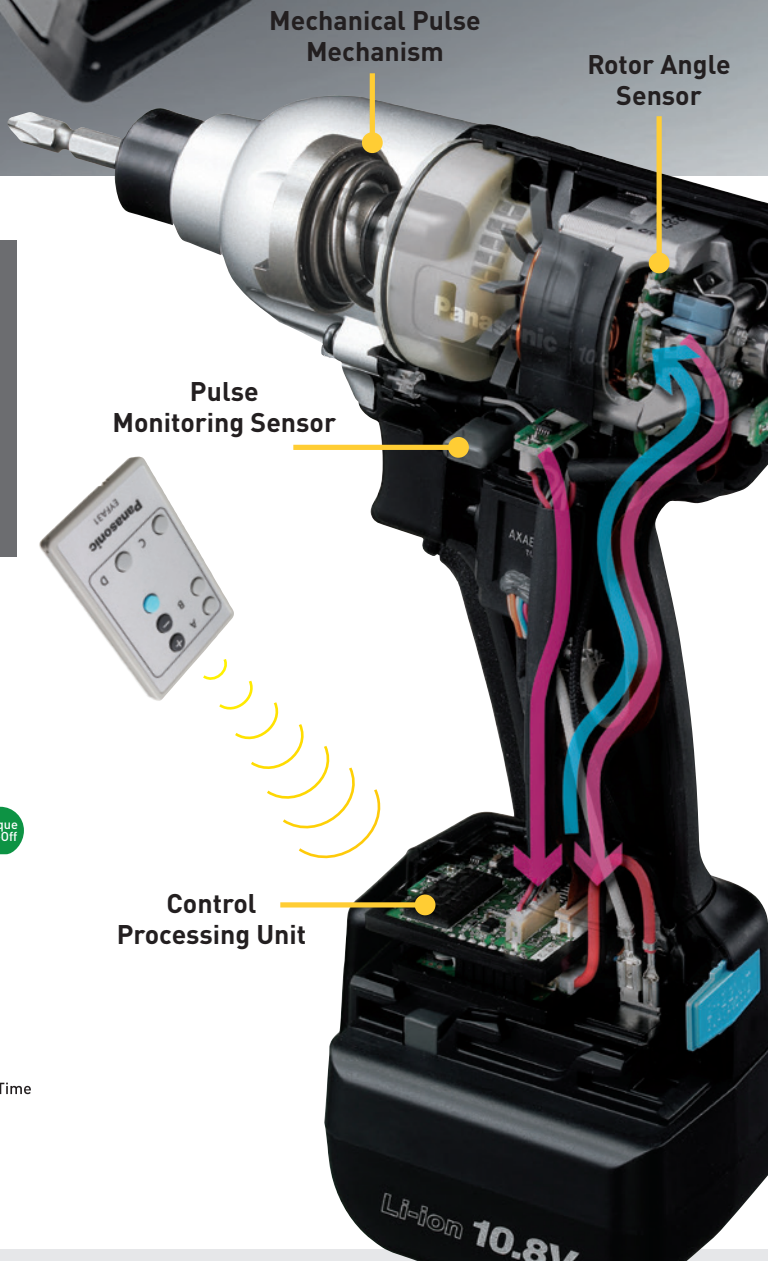
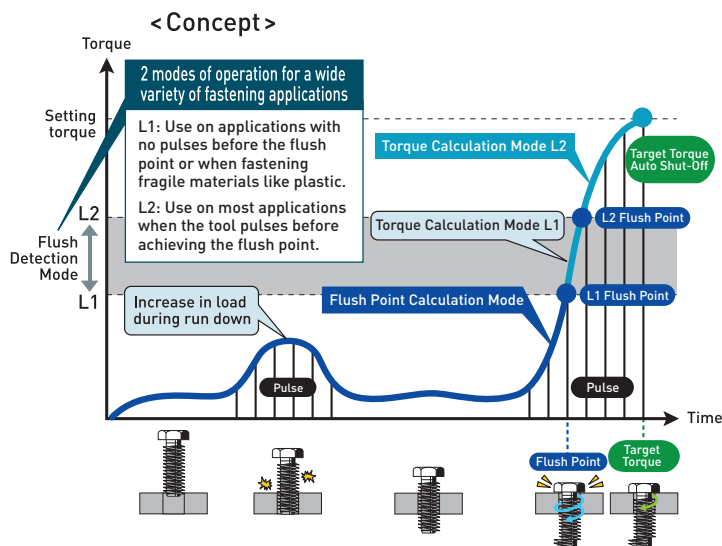
3 to 100 Nm virtually reaction free!

Shut Off Tool delivers torque accuracy

Torque Control Mechanism

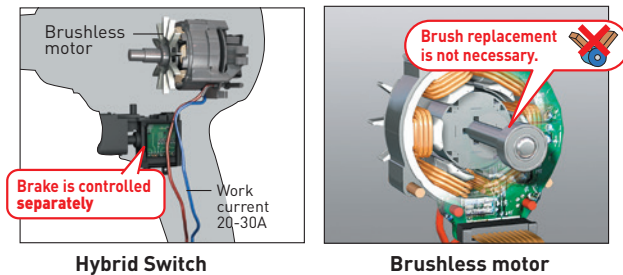
1. The on board CPU monitors two sensors (rotor angle sensor and pulse monitoring sensor) detecting the change in motor speed and RPM between pulses determining the flush point.
2. The CPU then switches to a torque calculation mode using a Panasonic patented algorithm to achieve an accurate and repeatable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

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



Long life parts provide lower running costs

Improved durability of motor and switch



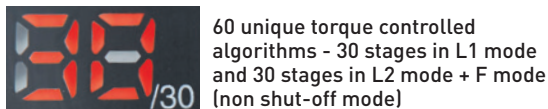
Compact 10.8V/14.4V 2.0Ah Li-ion Batteries High Capacity 10.8V 3.0Ah and 14.4V 4.2Ah Li-ion Batteries

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.



Needle Bearings



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

Retightening Prevention Function

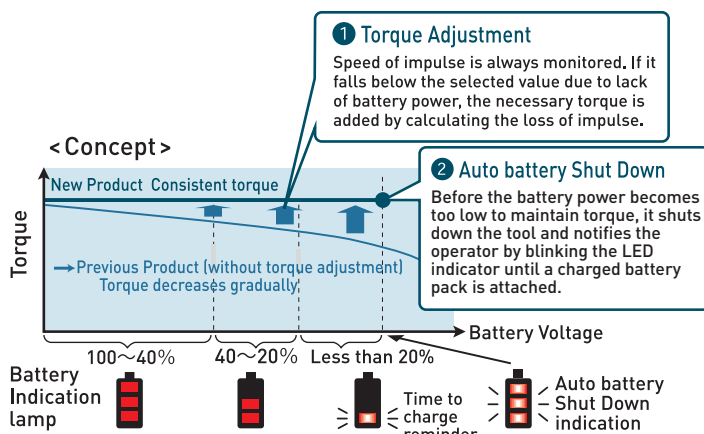
Maintaining Good Quality

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.



Maintains selected torque level as the battery power drops.



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.

Mechanical Pulse Tools



- 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

10.8V

- 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

10.8V

- 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

10.8V

- 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
- 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.

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.)



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

EYFLA5Q / EYFLA5QR

Cordless Mechanical Pulse Tool

10.8V

- 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
- 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.

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.)



EYFLA5Q/EYFLA5QR:
Battery pack and battery charger are not included.

EYFLA6P / EYFLA6PR

Cordless Mechanical Pulse Tool

10.8V

- 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.)



EYFLA6P/EYFLA6PR:
Battery pack and battery charger are not included.

EYFLA6J / EYFLA6JR

Cordless Mechanical Pulse Tool

10.8V

- 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.)



EYFLA6J/EYFLA6JR:
Battery pack and battery charger are not included.

EYFMA1P / EYFMA1PR

Cordless Mechanical Pulse Tool

14.4V

- 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)
- M14 Bolt (Tensile Bolt)
- M12 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.)



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

EYFMA1J / EYFMA1JR

Cordless Mechanical Pulse Tool

14.4V

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



EYFMA1J/EYFMA1JR:
Battery pack and battery charger are not included.

Mechanical Pulse Tool Spec Table

MODELS	EYFLA4A EYFLA4AR	EYFLA5A/5P/5Q EYFLA5AR/5PR/5QR	EYFLA6J/6P EYFLA6JR/6PR	EYFMA1J/1P EYFMA1JR/1PR
Voltage	10.8V	10.8V	10.8V	14.4V
Drive	A = 1/4" Hex Quick Change	A = 1/4" Hex Quick Change P = 3/8" Sq. Pin Detent Q = 3/8" Sq. Through Hole	J = 1/2" Sq. Through Hole P = 1/2" Sq. Pin Detent	J = 1/2" Sq. Through Hole P = 1/2" Sq. Pin Detent
Torque Range	3-22 Nm (2.2-16.2 ft. lbs.)	6-30 Nm (4.4-22.1 ft. lbs.)	16-53 Nm (11.8-39 ft. lbs.)	25-100 Nm (18.4-73.8 ft. lbs.)
Max Torque (F mode, tightening 3 sec.)	Approx. 40 Nm M10 Bolt	Approx. 90 Nm M14 Bolt	Approx. 120 Nm M14 Bolt	Approx. 185 Nm M14 Bolt
No Load Speed (Torque Setting: RPM)	Stage 1: 0-950 Stage 2: 0-1300 Stage 3: 0-1450 Stage 4-8: 0-1550 Stage 9-30 & F: 0-2300	Stage 1: 0-1300 Stage 2: 0-1450 Stage 3: 0-1550 Stage 4-30 & F: 0-2300	0-2300	0-2300
PPM (Pulses Per Min.)	Stage 1: 0-1900 Stage 2: 0-2500 Stage 3: 0-2800 Stage 4-8: 0-3000 Stage 9-30 & F: 0-4000	Stage 1: 0-2500 Stage 2: 0-2800 Stage 3: 0-3000 Stage 4-30 & F: 0-3600	0-3000	0-3200
Weight	2.8 lbs. (incl. 3.0Ah (EYFB30B))	2.8 lbs. (incl. 3.0Ah (EYFB30B))	3.1 lbs. (incl. 3.0Ah (EYFB30B))	3.3 lbs. (incl. 4.2Ah (EYFB42B))
Size (L x W x H)	6-7/32" x 9-25/32" x 2-61/64"	5A: 6-7/32" x 9-25/32" x 2-61/64" 5P/5Q: 6-7/16" x 9-25/32" x 2-61/64"	6-25/32" x 9-25/32" x 2-61/64"	6-25/32" x 9-25/32" x 2-61/64"
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



EY0L82B
10.8V - 28.8V Charger

Tool Covers



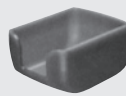
EYFA02-H
Battery Protector for
EYFB30B



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

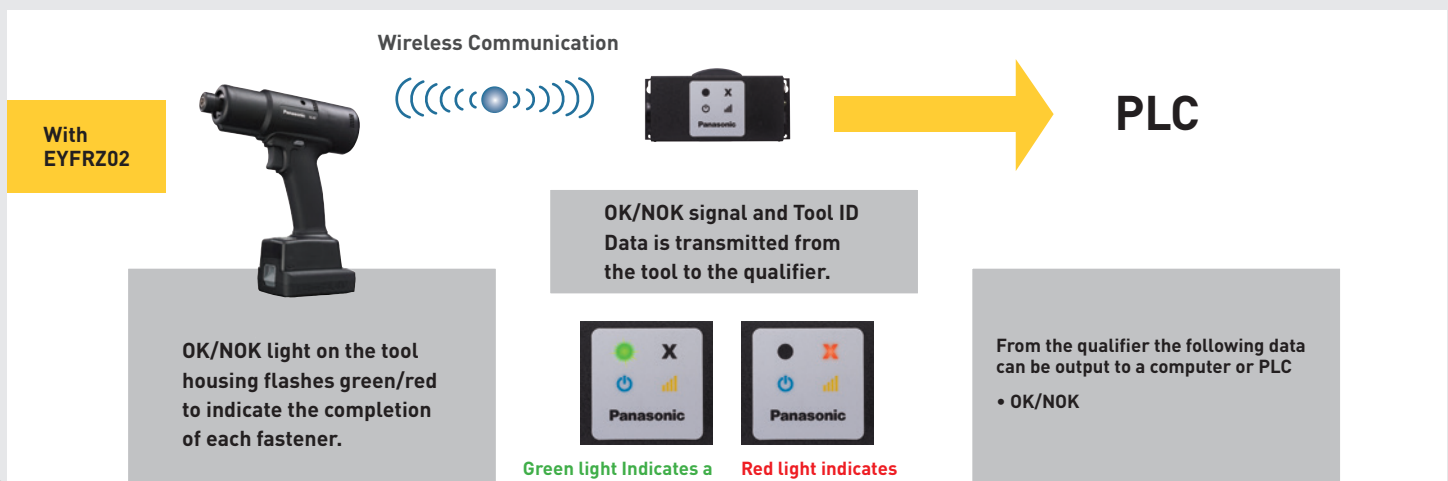
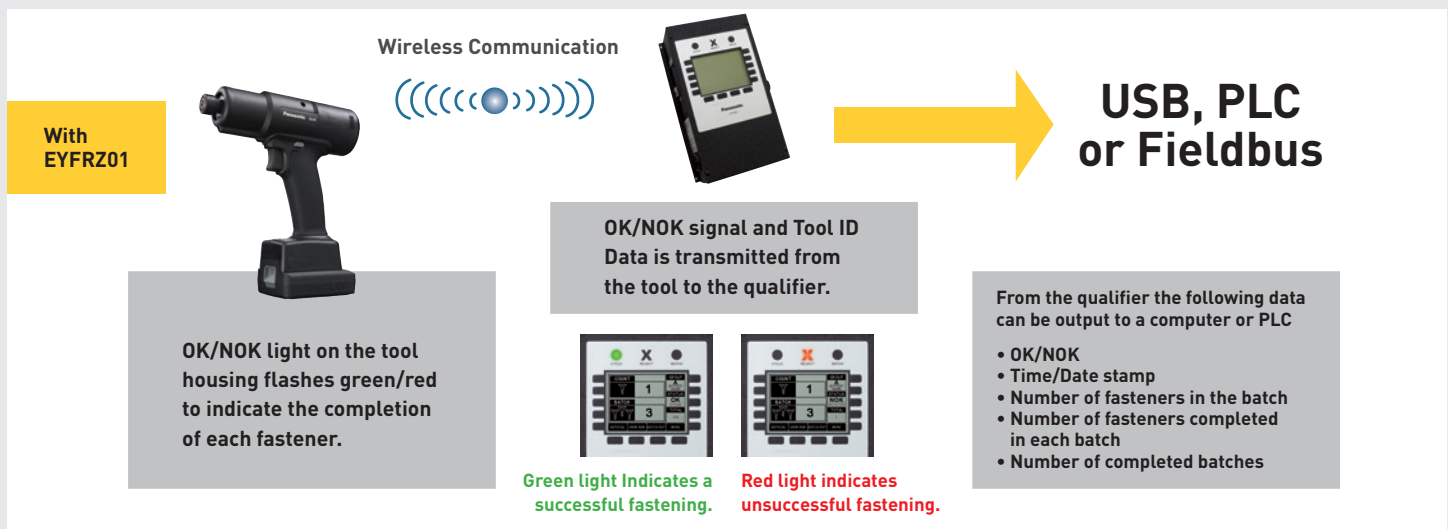


The transmitter is completely stored in the tool's grip part. Same tool body size and only approx. 15g more weight compared to the Non Wireless Communication model.
















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

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.



Functionality Chart (Combination of tool body and accessories)

		Improving fastening quality with Torque Control	Transmission of OK/NOK signal	Storing the OK/NOK signal data *The data is stored in a computer
Wireless Tool + Assembly Qualifier + USB or Fieldbus	 +  USB or Fieldbus			
Wireless Tool + Assembly Qualifier + PLC	 +  +  PLC			
Non Wireless / Wireless Tool				

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	EYFRZ01 (A,B,C,D,P)	EYFR02B
		
Recommended Range of	10M	
Rated Supply Voltage	AC100-240V, 50/60Hz	
Power Consumption	7.6W - 9.6W	4.4W - 4.6W
No. of Connected Devices	8	1
Communication Data	OK/NOK signal (Pokayoke)	
Function Settings	With LCD display and Soft Key	With PC
ID Settings	With LCD display and Soft Key	With Soft Key
Reset Input	60mA at 24V	
External Connection Output	2A at 24VDC	5A at 250VAC or 5A at 30VDC
Operating Temperature Range	-10°C (14°F) ~ 60°C (140°F)	
Weight	7.9 lbs.	2.54 lbs.
Dimensions (L x H x W)	9-1/16" x 14-1/8" x 3-1/2"	10" x 4-11/16" x 2-7/8"
Out of Range Disable Function	• [On/Off of this function can be switched on the tool body]	
Fastener Count Function	•	- (Needs to be set by external device)
Compatible Tools	EYFGA1NR, EYFGA2NR, EYFGA3NR, EYFLA4AR, EYFLA5AR, EYFLA5PR, EYFLA5QR, EYFLA6PR, EYFLA6JR, EYFMA1PR, EYFMA1JR	

Impact Driver

Brushless Motor with Variable Speed for Increased Control

18V

Faster and long lasting

14.4V

Lighter weight for overhead use

EY75A4X

Li-ion **4.2Ah**



Brushless Motor

TOUGH IP™

Cordless 1/4" Hex Impact Driver

Dual Voltage Technology

- Dual voltage – accepts either 14.4V or 18V Panasonic Li-ion batteries
- High capacity 4.2Ah Li-ion battery (optional)
- High power: Impact Mode: 1,370 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"
- Light weight (incl. Battery): 3.53 lbs.
- 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

*M14 High tensile bolt tightening for 3 sec.

TYPICAL APPLICATION

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



EY75A4X: Battery pack and battery charger are not included.

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

Li-ion
4.2Ah

14.4V/18V

Brushless
Motor

TOUGH IP™

Cordless 1/2" Impact Wrench

Dual Voltage Technology

- 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

Max. Torque	1,815 in. lbs.*
Speed at No Load	0 - 2,300 RPM
Impact/min.	0 - 3,500 IPM

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

EY9HX111E



*M16 High tensile bolt tightening for 3 sec.

TYPICAL APPLICATION

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



EY75A5X: Battery pack and
battery charger are not included.

*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

14.4V

- 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.



TYPICAL APPLICATION

- Metal construction
- Plumbing
- General construction
- Electric installation work

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



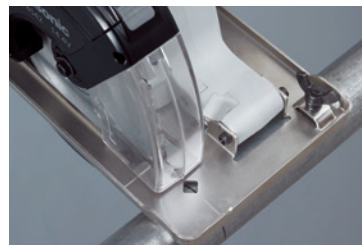
2 Collects dust in the dust case



3 Eject dust to the rear of the machine



Cutting depth adjustment



Cutting edge is easily seen through window

**S-5!® Attachment Solutions
Metal Roof Innovations, LTD.
8655 Table Butte Road
Colorado Springs, CO 80908**

For more information,
visit our website at
www.S-5.com
or call **(888) 825-3432**

Design and specifications are subject to change without notice.