

Assembly Tools

Bringing Innovation to the Assembly Line

Panasonic



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Assembly Tools Product Line-up



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

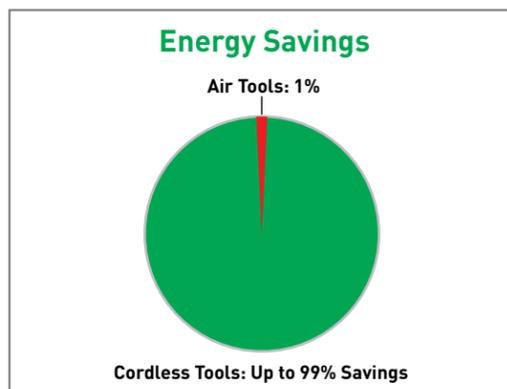
Complete freedom in assembly area design.

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% · Cmk ≥ 1.67*
(ISO5393)

*In ±3 Nm range



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

Additional Features



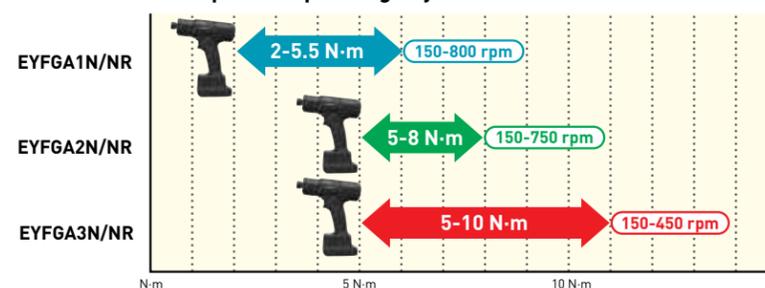
14.4V

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



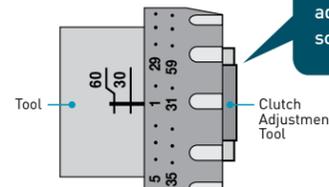
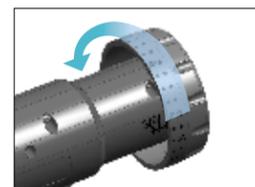
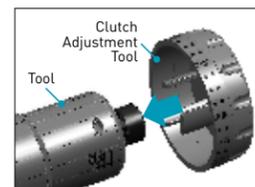
Both the torque and rpms can be adjusted enabling you to select the most suitable setting for your application.

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



60 Stage adjustable clutch

How to set clutch



Clutch stage "1"

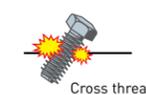
Quickly set the torque by adjusting the scale.

- 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.

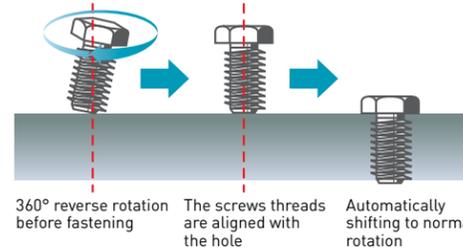
Advanced Fastening Features

Cross Thread Reduction

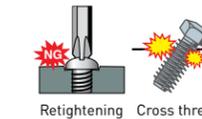


The tool first reverses 360°, aligning the threads, greatly reducing the possibility of cross threads.

Reverse Rotation!

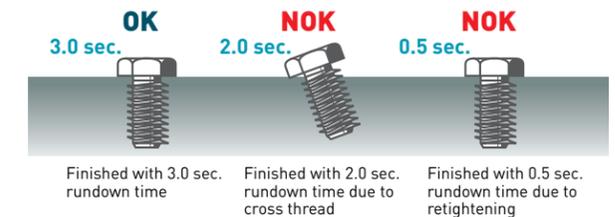


Cross Thread / Rehit Detection



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



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

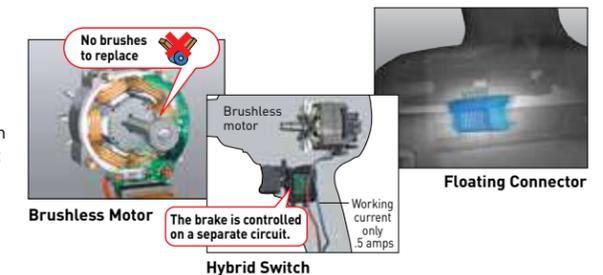
Enable variable speed or single speed trigger operation.

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.



Brushless Motor

The brake is controlled on a separate circuit.

Hybrid Switch

No brushes to replace

Brushless motor

Working current only 5 amps

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



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 (EYOL82B 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.

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 $Cmk \geq 1.67$ – 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 (EYOL82B 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.

*In ≥ 3 Nm Range **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 (EYOL82B 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.

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

EYFEA1N2S / EYFEA1N

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



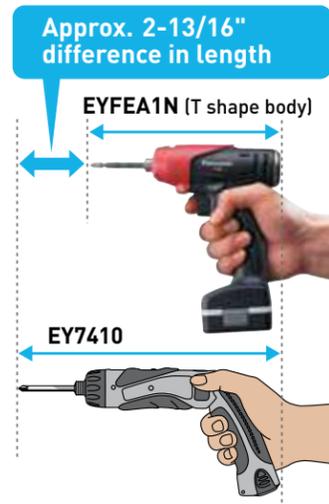
MORE FEATURES

Compact & Lightweight

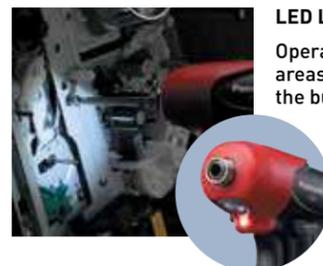
User-friendly size and weight of EYFEA1N can reduce operator fatigue. Well balanced T shape body and slim grip also improve operator acceptance.

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

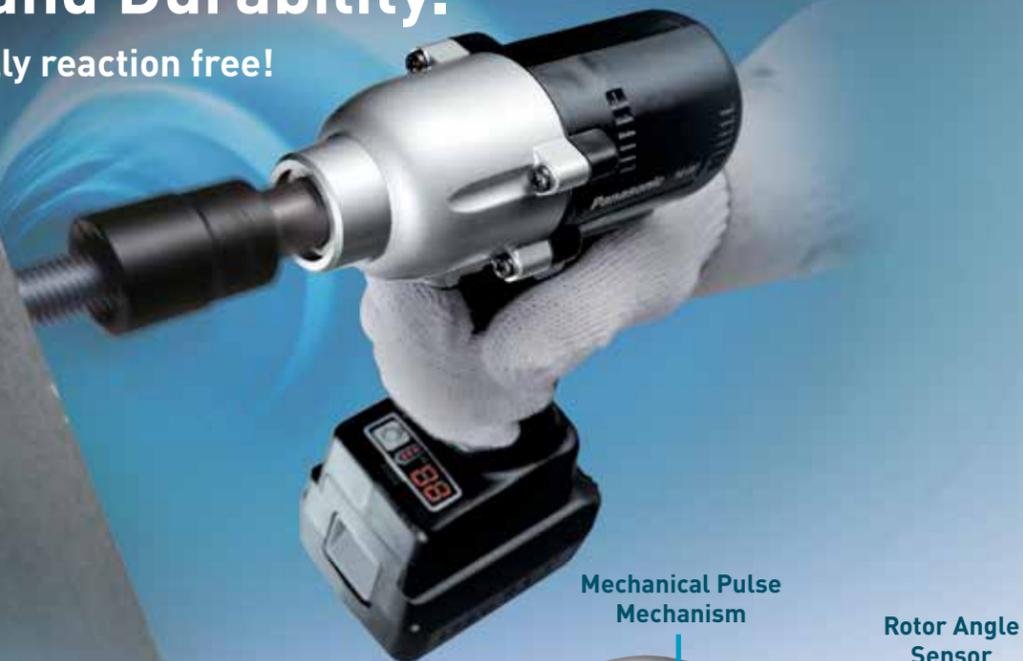
Disables the tool for a period of time (up to 3 sec. in 1/10 sec. intervals) after a good fastening shut-off, preventing the operator from double hitting the fastener.

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!

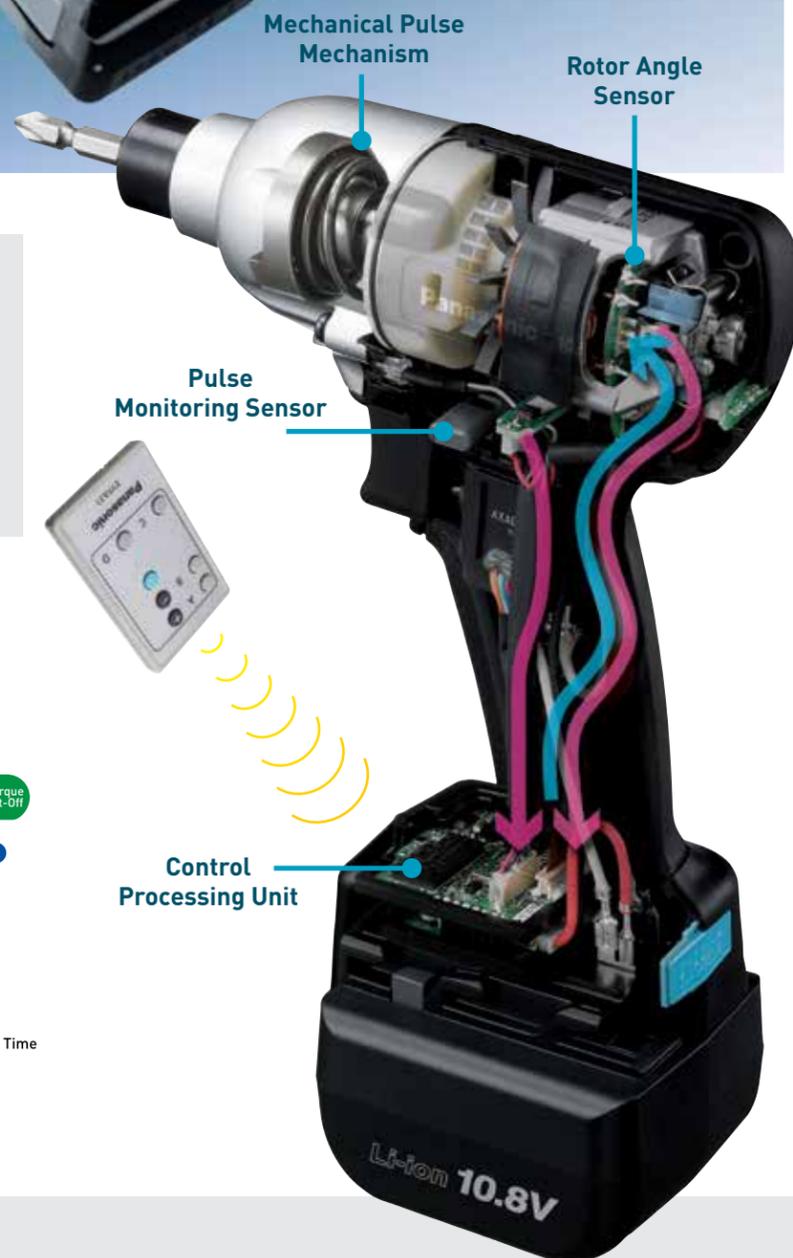
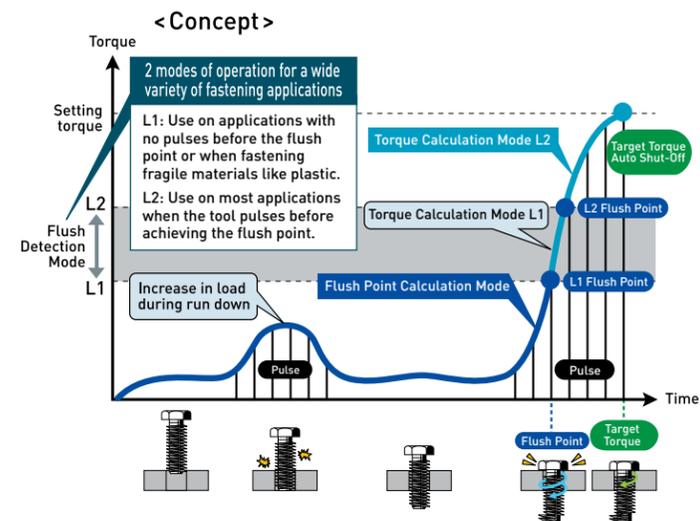


Shut Off Tool delivers torque accuracy

Torque Control Mechanism

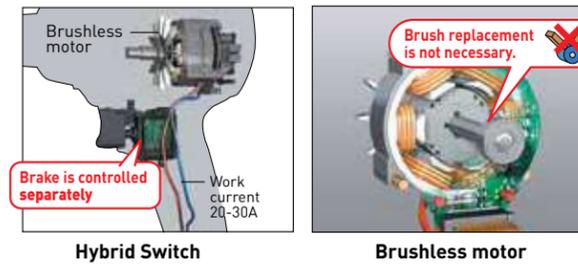
1. The on board CPU monitors two sensors (rotor angle sensor and pulse monitoring sensor) detecting the change in motor speed and rpm between pulses determining the flush point.
2. The CPU then switches to a torque calculation mode using a Panasonic patented algorithm to achieve an accurate and repeatable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



Needle Bearings



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

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.

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.

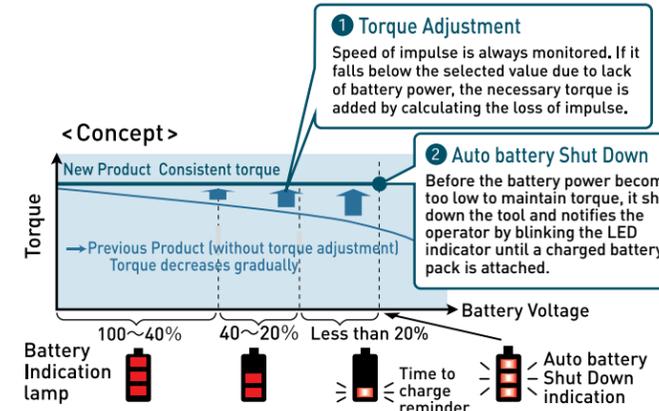


Green light indicates tightening is complete.



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.



More Features



RUBBER GRIP

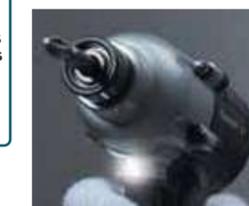
Lightweight

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



EYFLA4 EYFLA5 EYFLA6 EYFMA1

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 2300 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: 0-1300, 3: 0-1450, 4-8: 0-1550, 9-30 & F: 0-2300
- 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: 0-1300, 2: 0-1450, 3: 0-1550, 4-30 & F: 0-2300
- 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: 0-1300, 2: 0-1450, 3: 0-1550, 4-30 & F: 0-2300
- 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.

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: 0-2300
- 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.

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: 0-1300, 2: 0-1450, 3: 0-1550, 4-30 & F: 0-2300
- 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.

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: 0-2300
- 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: 0-2300
- 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.



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

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.)

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: 0-2300
- 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.



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

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.)

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" 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 (2.2-22 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: 0-11550 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



Tool Covers



Accessories



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.

With EYFRZ01

Wireless Communication

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.

USB, PLC or Fieldbus

With EYFRZ02

Wireless Communication

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

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

PLC

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	●	●	●
Wireless Tool + Assembly Qualifier + 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	

-1 Communication range varies with operating environment. The presence of metal walls, people, or other objects may result in decreased range.

Standard / Optional Accessory Chart

● STANDARD ○ OPTIONAL		CLUTCH TOOLS						MECHANICAL PULSE TOOLS														QUALIFIERS				
		7.2V	14.4V					10.8V							14.4V											
		EYFEA1N2S	EYFGA1N	EYFGA1NR	EYFGA2N	EYFGA2NR	EYFGA3N	EYFGA3NR	EYFLA4A	EYFLA4AR	EYFLA5A	EYFLA5AR	EYFLA5Q	EYFLA5QR	EYFLA5P	EYFLA5PR	EYFLA6J	EYFLA6JR	EYFLA6P	EYFLA6PR	EYFMA1J	EYFMA1JR	EYFMA1P	EYFMA1PR	EYFRZ01	EYFR02B
BATTERIES																										
	7.2V 1.5Ah Li-ion Battery Pack	EY9L20B	●																							
	10.8V 2.0Ah Li-ion Battery Pack	EYFB32B																								
	10.8V 3.0Ah Li-ion Battery Pack	EYFB30B																								
	14.4V 2.0Ah Li-ion Battery Pack	EYFB41B		○	○	○	○	○	○												○	○	○	○		
	14.4V 4.2Ah Li-ion Battery Pack	EYFB42B		○	○	○	○	○	○												○	○	○	○		
CHARGERS																										
	Charger for Panasonic Li-ion Battery 7.2V (EY9L20B)	EY0L20B	●																							
	Charger for Panasonic Li-ion Batteries 10.8V - 28.8V	EY0L82B		○	○	○	○	○	○												○	○	○	○		
QUALIFIERS																										
	Single Tool Qualifier	EYFR02B			○		○		○												○		○			
	Multi Tool Qualifier - Atlas Copco Open Protocol	EYFR01-A			○		○		○												○		○			
	Multi Tool Qualifier - Basic	EYFR01-B			○		○		○												○		○			
	Multi Tool Qualifier - Chrysler (PFCS)	EYFR01-P			○		○		○												○		○			
	Multi Tool Qualifier - Device Net	EYFR01-D			○		○		○												○		○			
	Multi Tool Qualifier - Ethernet IP	EYFR01-E			○		○		○												○		○			
	Multi Tool Qualifier - GM (COSS)	EYFR01-C			○		○		○												○		○			
TOOL COVERS																										
	Protector for EYFB30B Battery - Gray	EYFA02-H																								
	Protector for EYFB32B Battery - Gray	EYFA03-H																								
	Protector for EYFB40B/EYFB42B Battery - Gray	EYFA04-H		○	○	○	○	○	○												○	○	○	○		
	Protector for EYFB41B Battery - Gray	EYFA06-H		○	○	○	○	○	○												○	○	○	○		
	Protector for EYFG Clutch Tool Bodies - Blue	EYFA05-A		○	○	○	○	○	○																	
	Protector for EYFG Clutch Tool Bodies - Gray	EYFA05-H		○	○	○	○	○	○																	
	Protector for EYFG Clutch Tool Bodies - Yellow	EYFA05-Y		○	○	○	○	○	○																	
	Protector for EYFL/EYFM Mechanical Pulse Tool Bodies - Blue	EYFA01-A																			○	○	○	○		
	Protector for EYFL/EYFM Mechanical Pulse Tool Bodies - Green	EYFA01-G																			○	○	○	○		
	Protector for EYFL/EYFM Mechanical Pulse Tool Bodies - Gray	EYFA01-H																			○	○	○	○		
	Protector for EYFL/EYFM Mechanical Pulse Tool Bodies - Yellow	EYFA01-Y																			○	○	○	○		
ACCESSORIES																										
	Clutch Adjustment Tool for EYFG Clutch Tools	EYFA32B		●	●	●	●	●	●																	
	Clutch Lock Out Cover EYFEA1N	WEYFEA1N3137	●																							
	I/O Cable for EYFRZ01 Multi Tool Qualifier	EYFRZ01CA																						○		
	I/O Cable for EYFR02B Single Tool Qualifier	EYFRZ02CA																							○	
	Remote Control for all EYFL, EYFM, EYFG Series Tools	EYFA31B		○	○	○	○	○	○												○	○	○	○		
	Tool Hanger for EYFG Clutch Tools	EYFA40B		○	○	○	○	○	○																	

Battery Pack/Battery Charger – Assembly Tool Compatibility Chart

VOLTAGE	MODEL	BATTERY	CHARGING TIMES USABLE: FULL CHARGE	CHARGER
14.4V	EYFGA1N/1NR EYFGA2N/2NR EYFGA3N/3NR EYFMA1J/1JR EYFMA1P/1PR	EYFB40B (3.3Ah)	40 min. : 55 min.	EY0L82B
		EYFB41B (2.0Ah)	35 min. : 40 min.	
		EYFB42B (4.2Ah)	50 min. : 60 min.	
10.8V	EYFLA4A/4AR EYFLA5A/5AR EYFLA5P/5PR EYFLA5Q/5QR EYFLA6J/6JR EYFLA6P/6PR	EYFB30B (3.3Ah)	35 min. : 45 min.	
		EYFB32B (2.0Ah)	35 min. : 40 min.	
		EYFEA1N EYFEA1N2S	EY9L20B	

Mechanical Pulse Tool Working Capacities

	MODELS	EYFLA4A EYFLA4AR	EYFLA5A/5P/5Q EYFLA5AR/5PR/5QR	EYFLA6J/6P EYFLA6JR/6PR	EYFMA1J/1P EYFMA1JR/1PR
Application Capacity/ Working Speed	EYFB30B 3.0Ah Battery	approx. 1200 pcs/pack approx. 0.7 sec/1 pcs (M6: 10 Nm Stage:19)	approx. 800 pcs/pack approx. 0.8 sec/1 pcs (M8: 23 Nm Stage:22)	approx. 500 pcs/pack approx. 0.9 sec/1 pcs (M10: 43 Nm Stage:23)	-
	EYFB42B 4.2Ah Battery	-	-	-	approx. 785 pcs/pack approx. 0.9 sec/1 pcs (M12: 71 Nm Stage:22)

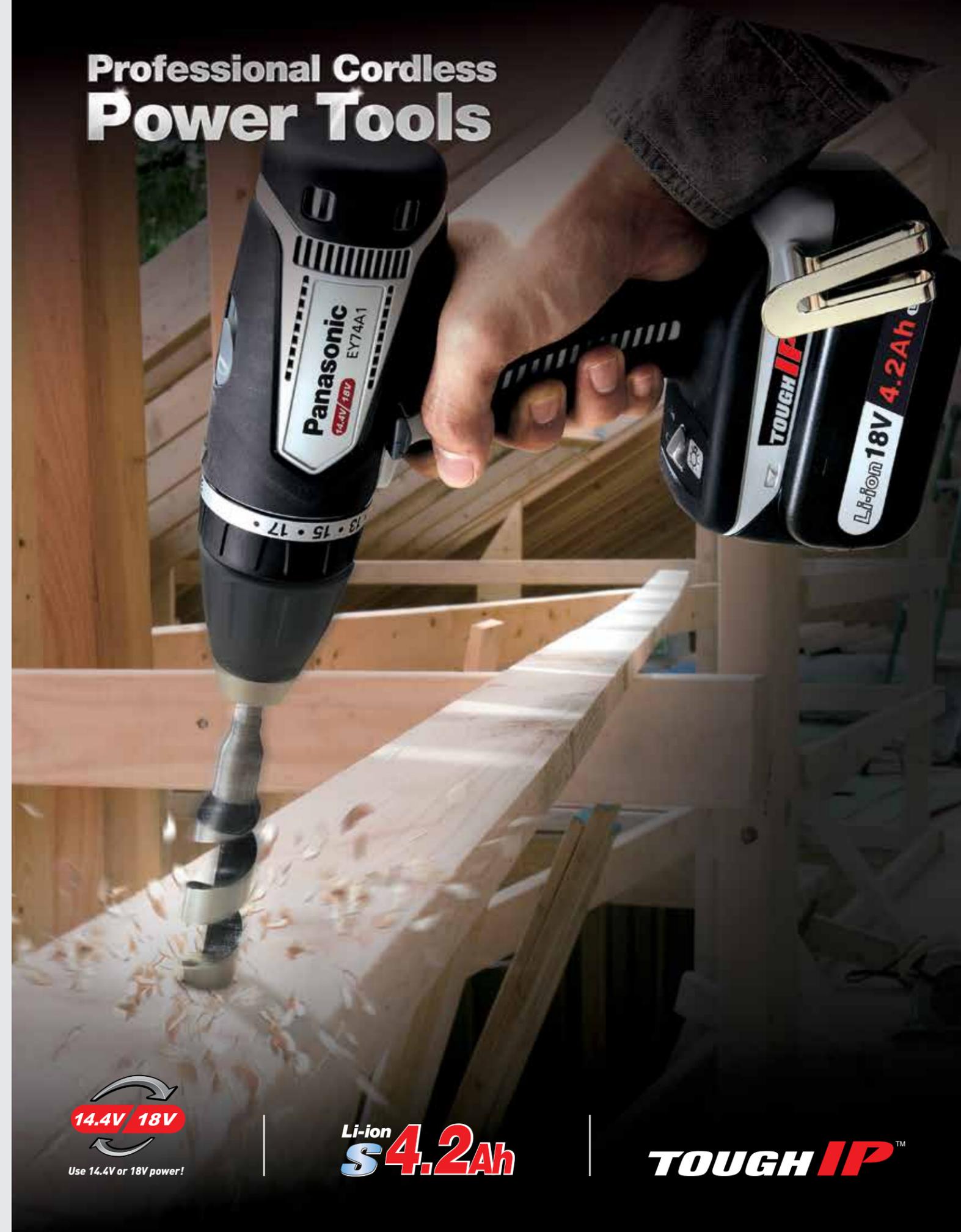
Precision Clutch Tool Working Capacities

	MODELS	JOINT	EYFGA1N/1NR	EYFGA2N/2NR	EYFGA3N/3NR
Application Capacity/ Working Speed	EYFB41B 2.0Ah Battery	Hard Joint 30°	approx. 1200 pcs/pack approx. 1.1 sec/1 pcs (M6 - 5.5 Nm)	approx. 1050 pcs/pack approx. 1.0 sec/1 pcs (M6 - 8 Nm)	approx. 1100 pcs/pack approx. 1.0 sec/1 pcs (M6 - 10 Nm)
		Soft Joint 720°	approx. 540 pcs/pack approx. 1.3 sec/1 pcs (M6 - 5.5 Nm)	approx. 410 pcs/pack approx. 1.3 sec/1 pcs (M6 - 8 Nm)	approx. 310 pcs/pack approx. 1.4 sec/1 pcs (M6 - 10 Nm)
	EYFB42B 4.2Ah Battery	Hard Joint 30°	approx. 2700 pcs/pack approx. 1.1 sec/1 pcs (M6 - 5.5 Nm)	approx. 2350 pcs/pack approx. 1.0 sec/1 pcs (M6 - 8 Nm)	approx. 2500 pcs/pack approx. 1.0 sec/1 pcs (M6 - 10 Nm)
		Soft Joint 720°	approx. 1250 pcs/pack approx. 1.3 sec/1 pcs (M6 - 5.5 Nm)	approx. 1000 pcs/pack approx. 1.3 sec/1 pcs (M6 - 8 Nm)	approx. 730 pcs/pack approx. 1.4 sec/1 pcs (M6 - 10 Nm)

Low Torque Clutch Tool and Driver Working Capacities

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

Professional Cordless Power Tools

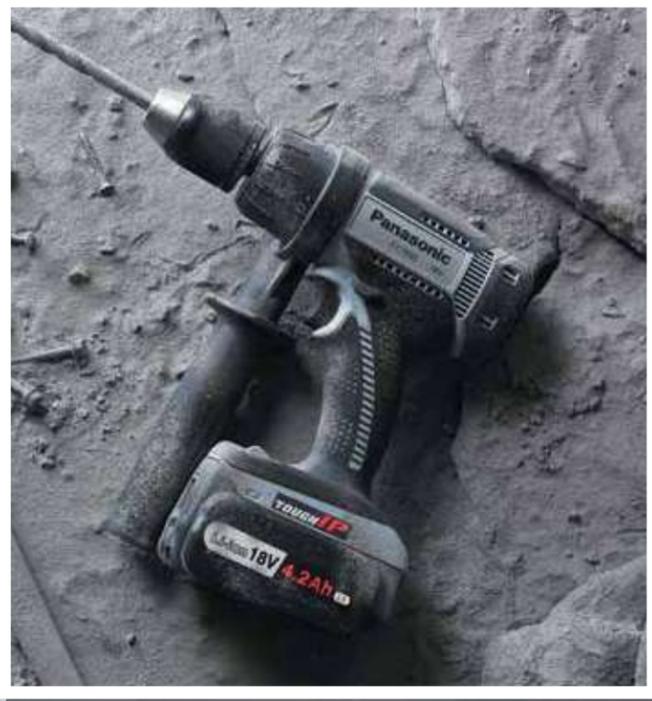


Use 14.4V or 18V power!

Li-ion
4.2Ah

TOUGH IP™

Tough Tools for Tough Conditions



Dust Protection Level 5

Test

The IP standard test is administered by the International Electrotechnical Commission (IEC), to test the level of protection that a product offers against water and dust. The products are subjected to a very thorough examination to test their capabilities in the toughest conditions imaginable before they are allowed to carry the IP rating.

Tested not in motion in accordance with IP56 of International Standard, IEC 60529. The rating of IP56 qualifies this tool for the minimum impact of water or dust, but not for the assurance of performance in such conditions. See Safety and Operating Instructions for further details for proper operation.



Dust Protection Test

The tool is subjected to heavy dust and then checked to ensure it continues to function properly.



Water Protection Test

The tool is subjected to powerful water jets and then checked to ensure it continues to function properly.



Water Protection Level 6

Conditions

Many things can happen at a job site; such as unexpected incidents, water contact, or exposure to dust, which can cause a tool to malfunction. Also, with more electronics in power tools, its important to protect them from dust and moisture.

By incorporating the Tough IP technology, it reassures that Panasonic cordless tools perform at their best in most difficult situations.



Results

Panasonic cordless tools are designed with protection features and have attained level IP56. These results show Panasonic's on-going commitment to the industry by providing customers with innovative products that work in the toughest job conditions.

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

IP56



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

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

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

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

Tough. Durable. Innovative. Cordless Tools with high-end features.

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



Tough Environmental Conditions

- Dust Resistance
- Water Resistance

IP56

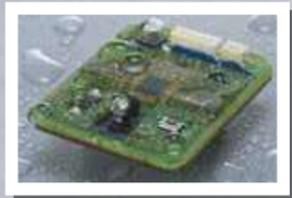
As a result of dust and water resistant technologies, these tools comply with International Protection standards.



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

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

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



Task Efficiency Innovation

- Work Speed
- Comfortable
- Convenience

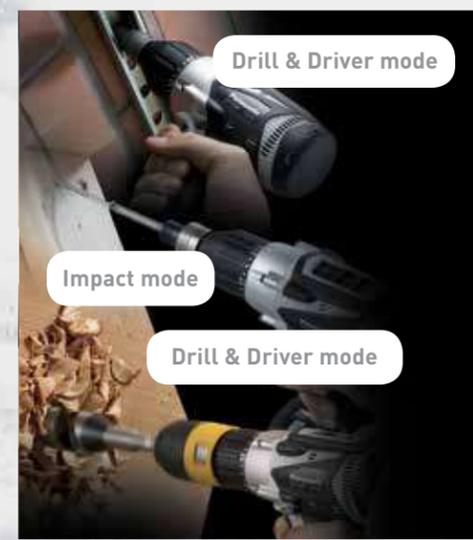
High power/high speed drilling/cutting



Easy-to-hold, ergonomic design



Multi-task with a single tool



Tough Usage

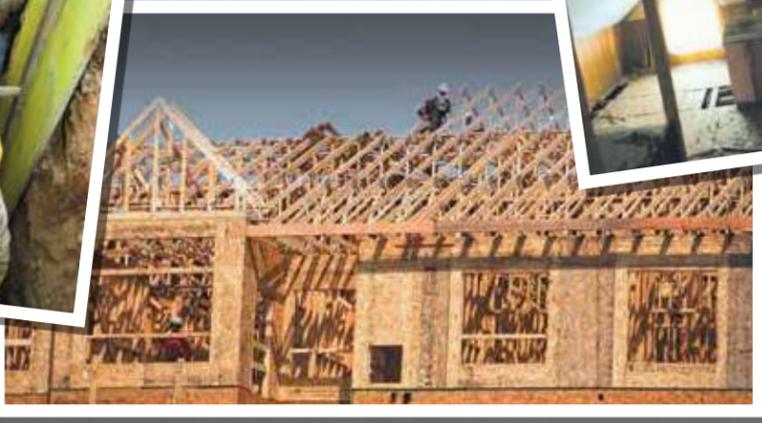
- High Durability
- Long Life
- High Capacity

No Brushes! Replacement is not necessary.

Long-lasting, Brushless Motor

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

Separate wiring system



Li-ion
S 4.2Ah

Panasonic's Lithium Nickel 4.2Ah Battery Pack! Durable, Lightweight and Extended Run Time.

Approx. 27%

More working capacity per charge



Li-ion S 4.2Ah
18V EY9L51B
Li-ion S type

120 holes



Li-ion R 3.3Ah
18V EY9L50B
Li-ion S type

95 holes

Holes in Yellow Pine dia. 11/16" x t=3/4" *Drill & Driver 18V EY74A1

4.2Ah Li-ion Battery = Longer Battery Capacity



Driving 340 pcs
(Spax screw dia. 5/16" x 3-5/32")
*Drill & Driver 18V EY74A1



Bolting 350 pcs
(M12 x 1 t=3/8")
*Impact Wrench 18V EY75A5



Cutting yellow pine 80 pcs
*Reciprocating Saw 18V EY45A1

Total Performance		
(Index comparison. 14.4V N type battery at 100%)		
	18V EY9L51B Li-ion S type	205
	14.4V EY9L45B Li-ion S type	170
	18V EY9L50B Li-ion R type	167
	14.4V EY9L44B Li-ion R type	133
	14.4V EY9L41B Li-ion Z type	125
	14.4V EY9L40B Li-ion N type	100

The new battery packs offer protection, durability and are long lasting.

Monitoring of Individual Battery Cells

Each 3.6V segment is monitored by a sensor to ensure optimal discharge control, preventing overcharging and overdischarging.

Overdischarge Prevention Sensor

A sensor works to prevent overdischarging (discharge of the battery until voltage falls below a minimum threshold), a disadvantage inherent to lithium ion cells.

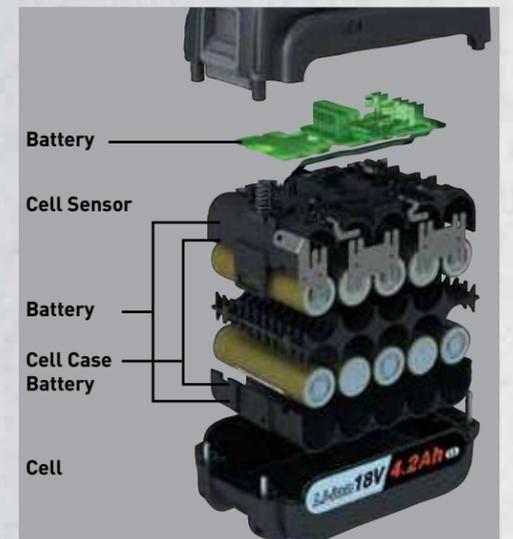
Battery Overheat Protection Sensor

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



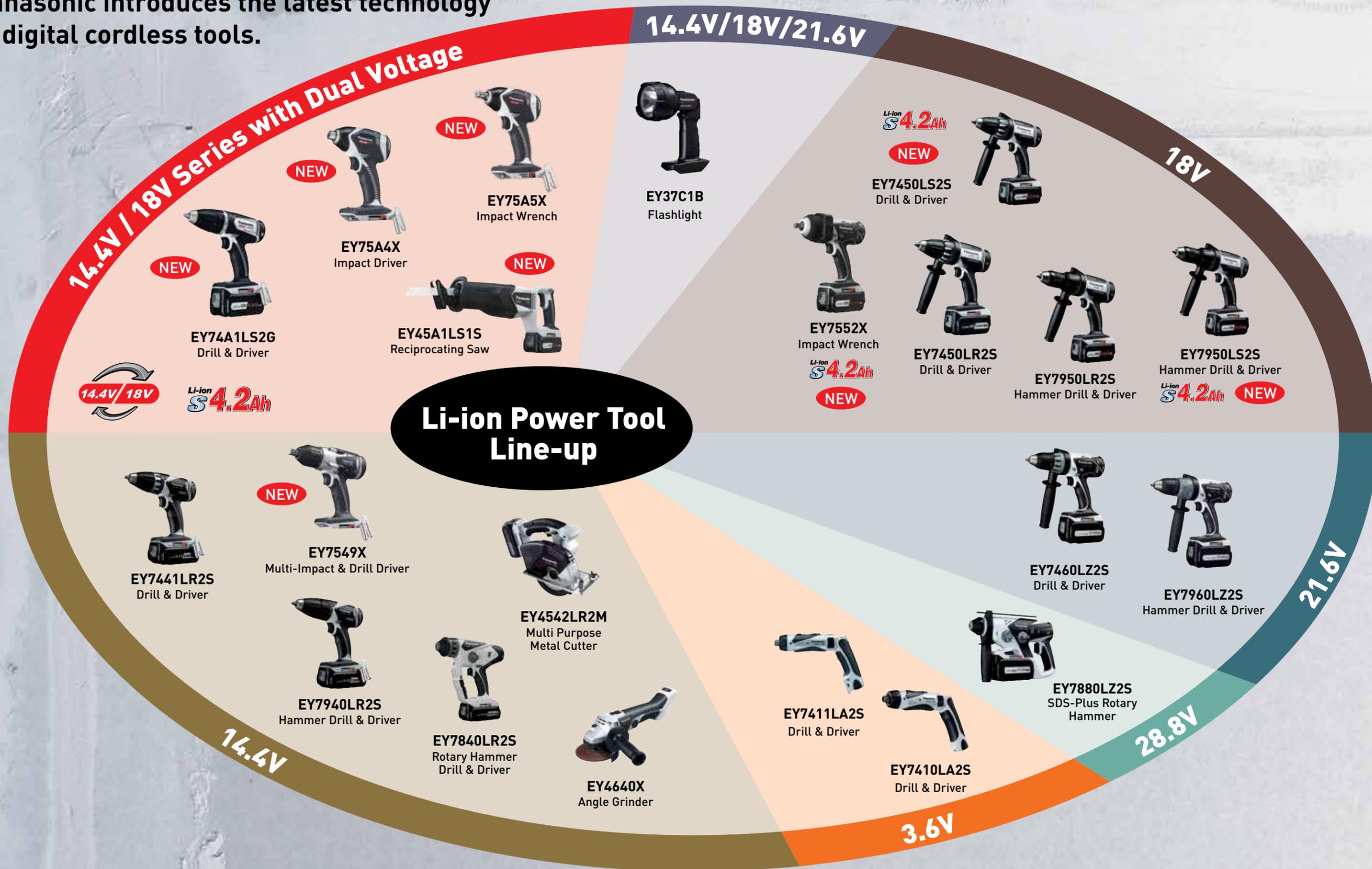
Flashing lamp indicates low battery.

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



Professional Power Tool Line-Up

Panasonic introduces the latest technology in digital cordless tools.



Dual Voltage Technology

Versatility, High Performance and Extreme Run Time!



Dual Voltage Circuit



The circuit detects battery voltage, controls the proper current and delivers the correct voltage flow to the tool for best performance



14.4V
It's easier to use,
lightweight and compact



18V
Increases application speed
and working capacity



The new series with Dual Voltage Technology is compatible with current **18V and 14.4V Li-ion battery packs.**

18V	18V	14.4V	
	4.2Ah S type EY9L51B		4.2Ah S type EY9L45B
	3.3Ah R type EY9L50B		3.3Ah R type EY9L44B
			1.5Ah E type EY9L42B
			3.1Ah Z type EY9L41B

The new series with dual voltage line up



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** **14.4V/18V** 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: 1370 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



EY75A4X: Battery pack and battery charger are not included.

Tool Specs

Max. Torque	1370 in. lbs.*
Speed at No Load	0 - 2500 rpm
Impact/min.	0 - 3000 ipm

*M14 High tensile bolt tightening for 3 sec.

TYPICAL APPLICATION

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

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

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: 1815 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



EY75A5X: Battery pack and battery charger are not included.

Tool Specs

Max. Torque	1815 in. lbs.*
Speed at No Load	0 - 2300 rpm
Impact/min.	0 - 3500 ipm

*M16 High tensile bolt tightening for 3 sec.

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

EY9HX111E



TYPICAL APPLICATION

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

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

High Torque Impact Wrench

470 Nm (346 ft. lbs.) High Torque Impact, 1/2" Square Drive, Compact & Light Weight



Multi-Impact & Drill Driver

From driving to drilling holes... A single tool can do it all.



EY7552LS2S/EY7552X

Li-ion 4.2Ah TOUGH IP™

Cordless High Torque Impact Wrench Kit

18V

- High torque output 470 Nm (346 ft. lbs.)
- Twin Hammer design for durability, speed & size
- Faster working speed than single hammer designs
- 1/2" Square drive with friction ring and through hole design
- Low vibration and noise level
- Variable speed trigger/reversible
- Electric brake
- Battery level indicator
- 4.2Ah High capacity 18V Li-ion battery
- Compact size (L x H x W): 8-7/16" x 9-15/16" x 3-1/16"
- Light weight (incl. Battery): 5.7 lbs.
- Charging Time (using EY0L82B charger): Usable: 55 minutes Full: 70 minutes



EY7552X: Battery pack and battery charger are not included.

Tool Specs

Max. Torque	470 Nm (346 ft. lbs.)
Speed at No Load	0 - 1550 rpm
Impact/min.	0 - 2400 ipm

TYPICAL APPLICATION

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

EY7549X

TOUGH IP™

Cordless Multi-Tool Impact & Drill Driver

14.4V

- Multi-function tool
- 1/4" Hex Impact Driver
- 1/2" Impact Wrench
- 2 Speed Drill Driver
- High capacity 14.4V 4.2Ah Li-ion battery (optional)
- 1/2" Square drive with ball detent
- 1/2" Detachable keyless chuck (EY9X003E (included))
- 1/4" hex quick change adapter (EY9HX111E (included))
- 2 Speed variable speed drill with 21 stage adjustable clutch (Approx.): 6.2 in. lbs. - 38.9 in. lbs.
- High power: Impact Mode: 1327 in. lbs. Drill & Driver Mode: 230 in. lbs.
- Variable Speed/Reversible:
- Impact Mode: 0-2350 rpm
- Drill & Driver Mode: High 180-1200 rpm Low: 60-380 rpm
- Impact/min.: 0-3200 ipm in Impact Mode
- Electric brake
- LED work light
- Belt hook
- Low battery indicator
- Compact size (L x H x W): 8-9/32" x 9-3/16" x 2-1/16" (square drive)
- Light weight (incl. Battery): 4.07 lbs. (square drive) 4.52 lbs. (with keyless chuck)
- Charging Time (using EY0L82B charger): Usable: 50 minutes Full: 60 minutes



EY7549X: Battery pack and battery charger are not included.

TYPICAL APPLICATION

- Construction
- General Industry
- Heavy Equipment/Off Road
- Automotive Repair and Maintenance
- HVAC
- Maintenance
- Recreational Vehicles

Standard Accessory
1/2" Detachable keyless chuck



EY9X003E

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



EY9HX111E

Drill & Driver

High Speed Performance, Compact and Lightweight

18V

Increases application speed and working capacity



14.4V

Easy to use, lightweight and compact

Li-ion
S4.2Ah

EY74A1LS2G / EY74A1X

Li-ion **S4.2Ah** **14.4V/18V** **TOUGH IP™**

Cordless 1/2" Drill & Driver Kit

Dual Voltage Technology

- Dual voltage – accepts either 14.4V or 18V Panasonic Li-ion batteries
- High capacity 4.2Ah Li-ion battery
- Compact size (L x H x W): 8" x 9-13/32" x 2-5/16"
- Light weight (incl. battery): 4.30 lbs.
- Variable speed/reversible: Low: 80-600 rpm High: 220-1750 rpm
- Clutch Torque (Approx.): 4.3-39 in. lbs. (2.0 in. lbs. per stage, total 18 stage)
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)*: Usable: 55 minutes Full: 70 minutes
- Electric brake
- LED work light
- Low battery indicator
- Kit includes 1 - EY74A1, 2 - (EY9L51B) 4.2Ah 18V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.
- Max. Drill Diameter: in Wood: dia. 1-3/8" in Metal: dia. 1/2"
- Max. Screws Driving: Wood screw: dia. 9/32" Self-drilling screw: dia. 1/4"

TYPICAL APPLICATION

- General Construction
- Plumbing
- Finishing Carpentry
- Electric Installation Work



EY74A1X: Battery pack and battery charger are not included.

EY7441LR2S

Li-ion **R3.3Ah** **TOUGH IP™**

Cordless 1/2" Drill & Driver Kit

14.4V

- High capacity 3.3Ah Li-ion battery
- Compact size (L x H x W): 7-5/8" x 9-1/8" x 2-3/8"
- Light weight (incl. battery): 3.85 lbs.
- High power: 370 in. lbs.
- Variable speed/reversible: Low: 70-400 rpm High: 200-1400 rpm
- Clutch Torque (Approx.): 4.4-39.0 in. lbs. (2.0 in. lbs. per stage, total 18 stage)
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)*: Usable: 40 minutes Full: 55 minutes
- Electric brake
- LED work light
- Low battery indicator
- Belt hook
- Kit includes 1 - EY7441, 2 - (EY9L44B) 3.3Ah 14.4V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.
- Max. Drill Diameter: in Wood: dia. 1-3/8" in Metal: dia. 1/2"
- Max. Screws Driving: Machine screw: M5 Wood screw: dia. 1/4" Self-drilling screw: dia. 1/4"

TYPICAL APPLICATION

- General Construction
- Plumbing
- Finishing Carpentry
- Electric Installation Work



Cordless 1/2" Drill & Driver Kit

18V

- High capacity **EY7450LS2S** 4.2Ah Li-ion battery
EY7450LR2S 3.3Ah Li-ion battery
- Compact size (L x H x W): 8-9/16" x 9-3/4" x 2-1/2"
- Light weight (incl. battery): **EY7450LS2S** 4.70 lbs.
EY7450LR2S 4.70 lbs.
- High power: **EY7450LS2S** 505 in. lbs.
EY7450LR2S 505 in. lbs.
- Variable speed/reversible: Low: 50-430 rpm High: 160-1650 rpm
- Clutch Torque (Approx.): 8.8-61.0 in. lbs. (3.0 in. lbs. per stage, total 18 stage)
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)*:
EY7450LS2S Usable: 55 minutes Full: 70 minutes
EY7450LR2S Usable: 40 minutes Full: 55 minutes
- Electric brake
- LED work light
- Low battery indicator
- **EY7450LS2S** Kit includes 1 - EY7450, 2 - (EY9L51B) 4.2Ah 18V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.
EY7450LR2S Kit includes 1 - EY7450, 2 - (EY9L50B) 3.3Ah 18V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.
- Max. Drill Diameter: in Wood: dia. 1-7/16" in Metal: dia. 1/2"
- Max. Screws Driving: Wood screw: dia. 5/16" Self-drilling screw: dia. 1/4"



TYPICAL APPLICATION

- General Construction
- Finishing Carpentry
- Plumbing
- Electric Installation Work

Cordless Drill & Driver Kit with Batch Counting

3.6V

- Batch count function up to 99 fasteners
- 21 Stage clutch with auto shut off (Approx.): 2.7-25.7 in. lbs.
- Clutch cover for locking out clutch adjustment
- Reheat prevention function
- 3 Programmable tones for batch complete
- 2 Speed/reversible: Low: 200 rpm High: 600 rpm
- Yellow LED work light which reduces glare
- Long lasting 1.5Ah Li-ion battery
- 1/4" Hex quick change chuck
- Powerful: Low: 39.0 in. lbs. High: 13.3 in. lbs.
- Compact size (L x H x W): 10-7/8" x 5-9/32" x 1-13/16" in straight format
- Light weight (incl. battery): 1.10 lbs.
- Charging Time (using EY0L10B charger)*: Usable: 15 minutes Full: 30 minutes
- Low battery indicator
- Max. Drill Diameter: in Metal dia. 3/16" (spc t=1/16")
- Max. Screw Driving: Wood screw dia. 5/32" x 1-1/2"
- Kit includes 1 - EY7411LA1S, 1 - (EY9L10B) 1.5Ah 3.6V Li-ion Battery, 1 - (EY0L11B) Charger, 1 - (EY9X007E) Clutch Cover



TYPICAL APPLICATION

- Rack/Cabinet installers
- Electronics Assembly
- Electricians
- Service engineers



Standard Accessory Clutch lock cover **EY9X007E**

Cordless 1/2" Drill & Driver Kit

21.6V

- High capacity 3.1Ah Li-ion battery
- Compact size (L x H x W): 9-1/8" x 10-1/16" x 2-15/16"
- Light weight (incl. battery): 5.61 lbs.
- High power: 558 in. lbs.
- Variable speed/reversible: Low: 100-400 rpm High: 350-1500 rpm
- Clutch Torque (Approx.): 8.8-61.0 in. lbs. (3.0 in. lbs. per stage, total 18 stage)
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)*: Usable: 50 minutes Full: 60 minutes
- Electric brake
- LED work light
- Low battery indicator
- Kit includes 1 - EY7460, 2 - (EY9L61B) 3.1Ah 21.6V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.
- Max. Drill Diameter: in Wood: dia. 1-1/2" in Metal: dia. 1/2"
- Max. Screws Driving: Wood screw: dia. 3/8" Self-drilling screw: dia. 1/4"



TYPICAL APPLICATION

- General Construction
- Plumbing
- Finishing Carpentry
- Electric Installation Work

Cordless Drill & Driver Kit

3.6V

- 1.5Ah Li-ion battery
- Compact size (L x H x W): 10-7/8" x 5-9/32" x 1-13/16" in straight format
- Light weight (incl. battery): 1.10 lbs.
- Powerful: Low: 39.0 in. lbs. High: 13.3 in. lbs.
- 2 Speed reversible: Low: 200 rpm High: 600 rpm
- Clutch Torque (Approx.): 2.7-25.7 in. lbs. (0.9 in. lbs. per stage, total 21 stage)
- 21 Stage clutch with auto shut off
- 1/4" Hex quick change chuck
- Cap for clutch lock out
- Charging Time (using EY0L11B charger)*: Usable: 15 minutes Full: 30 minutes
- LED work light
- Low battery indicator
- Kit includes 1 - EY7410, 2 - (EY9L10B) 1.5Ah 3.6V Li-ion Batteries, 1 - (EY0L11B) Charger, and Case.
- Max. Drill Diameter: in Metal dia. 3/16" (spc t=1/16")
- Max. Screws Driving: Wood screw dia. 5/32" x 1-1/2"



EY7410LA1C: 1 Battery pack is included. Charger not included.

TYPICAL APPLICATION

- Rack/Cabinet installers
- Electronics Assembly
- Electricians
- Service engineers



Optional Accessory Clutch lock cover **EY9X007E**

Hammer Drill & Driver

High power drilling in masonry, wood, metal.

Li-ion **S4.2Ah**



EY7960LZ2S

Li-ion **Z3.1Ah** **TOUGH IP™**

Cordless Hammer Drill & Driver Kit

21.6V

- High capacity 3.1Ah Li-ion battery
- Compact size (L x H x W): 9-5/8" x 10-1/16" x 2-15/16"
- Light weight (incl. battery): 5.61 lbs.
- High performance as regular drill: Max. Torque: 558 in. lbs. Max. Capacity: dia. 2-9/16" with low speed
- Variable speed control/reversible: Low: 100-400 rpm High: 350-1500 rpm
- Clutch Torque (approx.): 8.8-61.0 in. lbs. (3.0 in. lbs. per stage, total 18 stage) (Max. Torque at drilling position—stage 16)
- High speed masonry drilling: Max. 1500 rpm / 27000 bpm
- Blows Rate per Minute: Low: 1800-7200 bpm High: 6300-27000 bpm
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)*: Usable: 50 minutes Full: 60 minutes
- Electric brake
- LED work light
- Low battery indicator
- Kit includes 1 - EY7960, 2 - (EY9L61B) 3.1Ah 21.6V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.
- Max. Drill Diameter: in Metal: dia. 1/2" in Wood: dia. 1-1/2" in Mortar/Brick: dia. 1/2"



TYPICAL APPLICATION

- Electricians
- General construction
- Interior installation
- Masonry drilling
- Masonry/wood fastening
- Wood/metal drilling
- Heating, water & sanitation technicians

EY7950LS2S **S4.2Ah** EY7950LR2S **R3.3Ah**

TOUGH IP™

Cordless Hammer Drill & Driver Kit

18V

- High capacity **EY7950LS2S** 4.2Ah Li-ion battery
- Compact size (L x H x W): 9-1/4" x 9-3/4" x 2-1/2"
- Light weight (incl. battery): **EY7950LS2S** 5.00 lbs. **EY7950LR2S** 5.00 lbs.
- High performance as regular drill: Max. Torque: **EY7950LS2S** 505 in. lbs. **EY7950LR2S** 505 in. lbs.
- Variable speed control/reversible: Low: 50-430 rpm High: 160-1650 rpm
- Clutch Torque (approx.): 8.8-61.0 in. lbs. (3.0 in. lbs. per stage, total 18 stage) (Max. Torque at drilling position—stage 16)
- Blows Rate per Minute: Low: 900-7740 bpm High: 2880-29700 bpm
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)*: **EY7950LS2S** Usable: 55 minutes Full: 70 minutes **EY7950LR2S** Usable: 40 minutes Full: 55 minutes
- Electric brake
- LED work light
- Low battery indicator
- **EY7950LS2S** Kit includes 1 - EY7950, 2 - (EY9L51B) 4.2Ah 18V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.
- **EY7950LR2S** Kit includes 1 - EY7950, 2 - (EY9L50B) 3.3Ah 18V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.
- Max. Drill Diameter: in Wood: dia. 1-7/16" in Metal: dia. 1/2" in Mortar/Brick: dia. 1/2"
- Max. Screws Driving: Wood screw: dia. 5/16" Self-drilling screw: dia. 1/4"



TYPICAL APPLICATION

- Electricians
- General construction
- Interior installation
- Masonry drilling
- Masonry/wood fastening
- Wood/metal drilling
- Heating, water & sanitation technicians

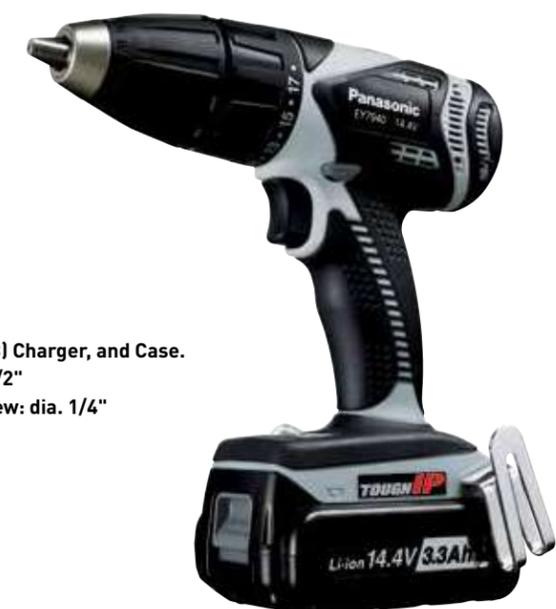
EY7940LR2S

Li-ion **R3.3Ah** **TOUGH IP™**

Cordless Hammer Drill & Driver Kit

14.4V

- High capacity 3.3Ah Li-ion battery
- Compact size (L x H x W): 7-7/8" x 9-1/8" x 2-3/8"
- Light weight (incl. battery): 3.96 lbs.
- High performance as regular drill: Max. Torque: 370 in. lbs.
- Variable speed control/reversible: Low: 70-400 rpm High: 200-1400 rpm
- Clutch Torque (approx.): 8.8-39 in. lbs. (1.8 in. lbs. per stage, total 18 stage) (Max. Torque at drilling position—stage 16)
- High speed masonry drilling: Max. 1400 rpm / 25200 bpm
- Blows Rate per Minute: Low: 1260-7200 bpm High: 3600-25200 bpm
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)*: Usable: 40 minutes Full: 55 minutes
- Electric brake
- LED work light
- Low battery indicator
- Kit includes 1 - EY7940, 2 - (EY9L44B) 3.3Ah 14.4V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.
- Max. Drill Diameter: in Metal dia. 1/2" in Wood dia. 1-3/8" in Mortar/Brick dia. 1/2"
- Max. Screws Driving: Machine screw: M5 Wood screw: dia. 1/4" Self-drilling screw: dia. 1/4"



TYPICAL APPLICATION

- Electricians
- General construction
- Interior installation
- Masonry drilling
- Masonry/wood fastening
- Wood/metal drilling
- Heating, water & sanitation technicians

Rotary Hammer Drill & Driver

Drilling concrete and installing anchors can be done with one tool.



Changes modes with one switch



Regardless of the clutch setting level during Drilling Mode, the Rotary Hammer drill can be used immediately by switching to the Hammer Mode.



EY7840LR2S

Li-ion 3.3Ah TOUGH IP™

Cordless Rotary Hammer Drill & Driver Kit

14.4V

- High capacity 3.3Ah Li-ion battery pack
- Compact size (L x H x W): 9-13/16" x 10-3/8" x 2-33/64"
- Light weight (incl. battery): 5.40 lbs.
- Blows Rate per Minute (Rotation with hammering): 0-3800 bpm
- Speed at No load (Rotation only): 0-1000 rpm
- Clutch torque (approx.): 13 in. lbs. - 48.7 in. lbs. (8.8 in. lbs. per stage, total 5 stage)
- Complete concrete anchor installation by one tool
- High speed concrete drilling by air type (Cup piston method) hammer
- One hand operation
- Dual function rotary hammer or drill & driver
- Hammering force: 21.6 kN
- Slow start switch for accurate drilling with a clean finish
- Bit adapter (EY9HX403E) as standard equipment
- 1/2" SDS-Plus bit system
- Charging Time (using EY0L82B charger)*: Usable: 40 minutes Full: 55 minutes
- LED work light
- Low battery indicator
- Kit includes 1 - EY7840, 2 - (EY9L44B) 3.3Ah 14.4V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.

TYPICAL APPLICATION

- Lighting equipment installation
- Conduit pipe installation
- Switch box installation



Drilling/Driving Mode



Max. Wood Screws dia. 11/64"
Max. Drill Diameter in Metal dia. 1/2"
Metal Holesaw dia. 53/64"
in Wood dia. 45/64"



Hex shank type bit



Bit adapter (standard) SDS-Plus shank compatible EY9HX403E



5 torque levels available The torque level can be adjusted according to the hardness of the material or the type of material being drilled.



Drilling can be done with only one hand!

Well balanced tool for easy up or down movements



Easy to hold



Resists fatigue

Hammer Mode



Drilling Capacity in concrete SDS dia. 1/8" x dia. 5/8" (dia. 15/32" - dia. 5/8")*

*For work that can be completed with 1 battery pack.

Air-Coupling Hammer Mechanism Quick hole drilling in hard concrete!

Large cooling fan



Dust protection switch Covered in rubber to protect against dust, which may cause problems to the switch.

Air System Hammer (Cup Piston Method) Power is effectively output by using compressed air to power the piston.

User Friendly Features



Shoulder strap

SDS-Plus Rotary Hammer

Powerful, light and tough for continuous use!



Easy to hold, resists fatigue!

Two-Speed Selection



<p>Ø5-Ø20</p> <p>HammerHard</p> <p>T + H</p> <p>23.6 kN [2,400 kgf]</p>	<p>Ø3.2-Ø5</p> <p>HammerSoft</p> <p>T + S</p> <p>12.7 kN [1,300 kgf]</p>
--------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------



EY7880LZ2S

Li-ion **3.1Ah** **TOUGH IP™**

Cordless SDS-Plus Rotary Hammer Kit

28.8V

- High capacity 3.1Ah Li-ion battery
- Compact size (L x H x W): 12-9/16" x 8" x 3-1/16"
- Light weight (incl. battery): 8.49 lbs.
- Two speed hammering selection: High: 0 - 4500 bpm Low: 0 - 2800 bpm
- Two speed drilling selection variable speed/reversible: High: 0 - 920 rpm Low: 0 - 500 rpm
- Dual function: Rotary hammer or drill
- Slow start two-finger switch for accurate drilling with a clean finish
- Ergonomic soft rubber grip for stress reduction
- Dust collection cup as standard equipment
- 3/4" SDS-Plus bit system
- Hammering force: 23.6 kN
- 360° auxiliary side handle with built-in depth gauge
- Charging Time (using EY0L82B charger)*: Usable: 65 minutes Full: 75 minutes
- LED work light
- Low battery indicator
- Kit includes 1 - EY7880, 2 - (EY9L81B) 3.1Ah 28.8V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.

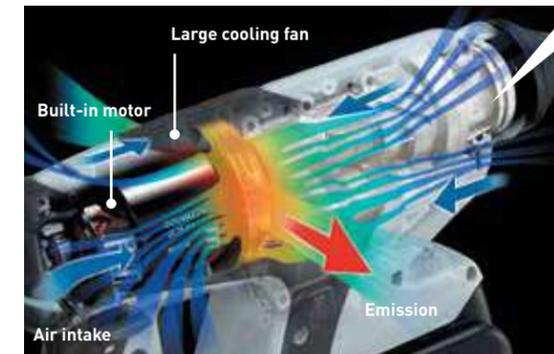


TYPICAL APPLICATION

- Concrete drilling
- Masonry drilling

Excellent cooling/dust-proof design supports continuous use

Rigorous continuous use is made possible by the flow of air through a space between the gear case and the main unit housing. This acts to cool the gear case, containing the hammer and gears, which can become hot during extended use. Large cooling fan drivers exhaust system helps prevent dust build-up.



Magnesium metal gear case



The gear case is made from magnesium which is light and excellent for dispersing heat. The hammer and gears are covered to prevent fine particles of dust from entering the tool and grease from leaking.

Dust-proof switch



The dust-proof switch prevents fine particles of dust from entering the tool and causing problems with the motor.

Serial drilling of 180 holes (1/2" in diameter)!

Cooling and dust proof performance have been improved and this serial drilling display of 180 holes (dia. 1/2" x 1-9/16") demonstrates the toughness of the hammer to handle rigorous continuous work conditions (equivalent to 3 battery packs).



Carefully designed for ease of use. Supported functions.



Standard Accessory
Dust collection cup



White LED light



For light chiseling

Optional Accessories

SDS-Plus Chiseling Attachment
For light chiseling

EY9HX402E

SDS-Plus Drill Chuck
For 1/16" dia. -
1/2" dia. bit

EY9HX400E

Reciprocating Saw

Long Lasting for continuous use

Li-ion
S4.2Ah

18V

Powerful cutting through thick metal pipe

14.4V

Fast cutting through thin metal pipe

EY45A1LS1G/EY45A1X

Li-ion
S4.2Ah

14.4V/18V

TOUGH IP™

Cordless Reciprocating Saw Kit

Dual Voltage Technology



- Dual voltage – accepts either 14.4V or 18V Panasonic Li-ion batteries
- High capacity 4.2Ah Li-ion battery
- Powerful Cutting (stroke length 1-1/8mm, 0-2800spm)
- Compact Size (L x H x W): 18-1/8" x 8-1/4" x 3-7/16"
- Light weight: 7.50 lbs.
- Max. Cutting Size in metal pipe dia. 5-1/8", in wood 9-1/4" thickness
- Easy blade replacement
- Safety switch lock lever
- Low battery indicator
- Charging Time (using EY0L82B charger)*: Usable: 55 minutes Full: 70 minutes
- Kit includes 1 - EY45A1, 1 - (EY9L51B) 4.2Ah 18V Li-ion Battery, 1 - (EY0L82B) Charger, and Case.

TYPICAL APPLICATION

- Carpentry
- Plumbing
- Electrician
- Installation
- Demolition

EY45A1X: Battery pack and battery charger are not included.



Cutting

Long strong length and high stroke speed enables cutting through thick materials.



Demolition

High voltage reciprocating saw offers powerful cutting performance.



Long Lasting

High battery capacity enables tool to last longer.



Anti vibration

Spring inside tool absorbs shock for less fatigue



Blade Replacement

Blade replacement made easy by using the blade clamping system. Blade is easily secured by inserting and pushing into tool. Blade can be easily removed by turning the holder collar.

Replacement Blade

*Not available as an accessory

Metal Blade Standard



- Bi-metal blade
- 14 teeth per inch
- Blade length: 5-7/8"
- Blade length for cutting: 5-1/8"
- Blade width: 1/16"
- Cutting range: ø2-3/4"

Wood Blade Standard



- carbon tool steels
- 5 teeth per inch
- Blade length: 9-7/16"
- Blade length for cutting: 8-11/16"
- Blade width: 1/16"
- Cutting range: ø5-7/8"

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

Multi-Purpose Metal Cutter

Made for cutting various materials



EY4542LR2M

Li-ion 3.3Ah

TOUGH IP™

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: 3600 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

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

EY4640X

TOUGH IP™

Cordless Angle Grinder

14.4V

- Compact size (L x H x W): 14-3/8" x 4-1/8" x 2-15/16"
- Light weight (incl. battery): 4.85 lbs.
- Speed at No Load: 9500 rpm
- Wheel diameter: 4-1/2"
- Slim grip
- On lock warning lamp function
- Low battery indicator
- Replaceable carbon brushes
- Charging Time (using EY0L82B charger)*: Usable: 40 minutes Full: 55 minutes
- Electronic Performance Monitoring System
- Accepts Panasonic 14.4V Li-ion battery packs.



EY4640X: Battery, battery charger and grinding wheel are not included.

TYPICAL APPLICATION

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

*Charging time, weight and size: case of using the battery pack (EY9L44B)

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



Reinforcement bar cutting



Metal Cutting



Metal Grinding



Slim grip design

Slim grip is designed so that you can hold it securely with five fingers, reducing fatigue and making the grinder easy to use both above your head and facing to the side.



Indicator lamp for on lock warning function

The grinder will not start when the switch is at the ON position, or even when the battery pack is inserted. The warning lamp will flash to indicate that the on lock start prevention has started.



EY37C1B

Cordless Flashlight

14.4V / 18V / 21.6V

- Triple voltage – accepts either 14.4V, 18V or 21.6V Panasonic Li-ion batteries
- Brightness of approx. 4000 Lux
- Adjustable head angle (Four steps)
- Low battery indicator
- Bulb: Xenon 0.55A
- Size (L x H x W) (excluding battery): 10-63/64" x 4-7/8" x 3-35/64"
- Weight (excluding battery): 0.75 lbs.
- Shoulder strap
- Accepts Panasonic 14.4V, 18V, 21.6V Li-ion battery packs.



EY37C1B: Battery pack and battery charger are not included.

Acceptable Battery Packs and Hours of Use

- With 21.6V Li-ion battery pack EY9L61B: Approx. 6 hours 20 minutes
- With 18V Li-ion battery pack EY9L51B: Approx. 6 hours 15 minutes
- With 18V Li-ion battery pack EY9L50B: Approx. 5 hours 30 minutes
- With 14.4V Li-ion battery pack EY9L45B: Approx. 5 hours 10 minutes
- With 14.4V Li-ion battery pack EY9L44B: Approx. 4 hours 35 minutes
- With 14.4V Li-ion battery pack EY9L41B: Approx. 4 hours 20 minutes
- With 14.4V Li-ion battery pack EY9L42B: Approx. 2 hours

EYC194LR

Li-ion **3.3Ah**

3.3Ah Lithium Combo Kit

14.4V

- 1 - EY7441 (Body): 14.4V Drill & Driver
- 1 - EY4542 (Body): 14.4V Multi Purpose Metal Cutter
- 2 - EY9L44B: 14.4V 3.3Ah Li-ion battery pack

- 1 - EY0L82B: Charger
- 1 - Panasonic Tool Bag
- Standard/Optional Accessories: See page 41



EYC941B

Li-ion **4.2Ah**

14.4V Power Supply Kit

14.4V

- 2 - EY9L45B: 14.4V 4.2Ah Li-ion battery pack
- 1 - EY0L82B: Charger



EYC950B

Li-ion **4.2Ah**

18V Power Supply Kit

18V

- 2 - EY9L51B: 18V 4.2Ah Li-ion battery pack
- 1 - EY0L82B: Charger



Ni-MH Series



EY6432NQKW

Cordless 1/2" Drill & Driver Kit

15.6V

- 2.8Ah Ni-MH battery
- Compact size (L x H x W): 8-3/16" x 9" x 2-9/32"
- Light weight (incl. battery): 4.50 lbs.
- High power: 370 in. lbs.
- Variable speed control/reversible: Low: 65 - 450 rpm High: 200 - 1450 rpm
- Clutch Torque (approx.): 9-61 in. lbs. (3.0 in. lbs. per stage, total 18 stage) (Max. Torque at drilling position-stage 19)
- 1/2" heavy-duty keyless chuck
- 2-speed gear box
- Spindle Thread: 3/8" - 24
- Charging Time (using EY0110B charger)*: 45 minutes
- Electric brake
- New ergonomic design
- Kit includes 1 - EY6432, 2 - (EY9230B) 2.8Ah 15.6V Ni-MH Batteries, 1 - (EY0110B) Charger, and Case.

TYPICAL APPLICATION

- General construction
- Finishing carpentry
- Electric installation work
- Plumbing



EY6409NQKW

Cordless 1/2" Drill & Driver Kit

12V

- 2.8Ah Ni-MH battery
- Compact size (L x H x W): 8-3/16" x 8-31/32" x 2-9/32"
- Light weight (incl. battery): 4.20 lbs.
- High power: 292 in. lbs.
- Variable speed control/reversible: Low: 50-400 rpm High: 180-1300 rpm
- Clutch Torque (approx.): 9-50 in. lbs. (2.4 in. lbs. per stage, total 18 stage) (Max. Torque at drilling position-stage 19)
- 1/2" heavy-duty keyless chuck
- 2-speed gear box
- Spindle Thread: 3/8" - 24
- Charging Time (using EY0110B charger)*: 45 minutes
- Electric brake
- New ergonomic design
- Kit includes 1 - EY6409, 2 - (EY9200B) 2.8Ah 12V Ni-MH Batteries, 1 - (EY0110B) Charger, and Case.

TYPICAL APPLICATION

- General construction
- Finishing carpentry
- Electric installation work
- Plumbing



EY6220NQ

Cordless Drill & Driver Kit

2.4V

- Compact size (L x H x W): 9-3/8" x 5" x 1-7/16" in straight format
- Light weight (incl. battery): 0.90 lbs.
- Max. Torque: Low: 26 in. lbs. High: 13 in. lbs.
- Speed at No Load: Low: 200 rpm High: 400 rpm
- Clutch Torque (approx.): 3.5, 6.3, 9.1, 11.9, 14.7, 17.5 in. lbs. (multi-stage) (Max. Torque at 6 position)
- Easily converts from straight to pistol form
- 2-speed gear box
- 1/4" hex drive
- Multi-stage clutch plus drill
- Reversible
- Gear lock mechanism for manual tightening
- Charging Time (using EY0L11B charger)*: 45 minutes
- Kit includes 1 - EY6220, 1 - (EY9221B) 2.8Ah 2.4V Ni-MH Battery, and 1 - (EY0L11B) Charger.



TYPICAL APPLICATION

- Appliance Repair
- Production line, assembly work
- Circuit board assembly (of small equipment)

EY6220N: 1 Battery pack is included. Charger not included.

EY3530NQMKW

Cordless Metal Cutter Kit

15.6V

- 2.8Ah Ni-MH battery
- Compact size (L x H x W): 13-25/32" x 7-1/8" x 7-13/16"
- Light weight (incl. battery): 6.70 lbs.
- Rotating Speed: 3100 rpm
- Blade Size: Outer diameter 5-3/8" Arbor size 13/16"
- Cutting Depth: Min. 1/8" 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
- Spindle lock button for easy blade replacement
- Charging Time (using EY0110B charger)*: 45 minutes
- Kit includes 1 - EY3530, 2 - (EY9230B) 2.8Ah 15.6V Ni-MH Batteries, 1 - (EY0110B) Charger, and Case.

TYPICAL APPLICATION

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



EY9PM13C Standard

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

Replacement Blades Blade size: dia. 5-5/16"

EYC136NQKW

Metal Combo Kit

15.6V

- 1 - EY3530 (Body): 15.6V Metal Cutter + Standard metal cutter blade
- 1 - EY6432 (Body): 15.6V Drill & Driver
- 1 - EY0110: Charger for Ni-MH battery pack
- 2 - EY9230: 2.8Ah Ni-MH battery pack
- 1 - Carrying Case



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

EYOL82B

Charger for Li-ion Batteries

- Accepts Panasonic's **10.8V-28.8V** Battery Packs (See below for details)
- Equipped with a lamp system that indicates the status of the 6 charging functions at a glance

	TYPE OF BATTERY			
	Li-ion			
	LS TYPE	LR TYPE	LZ TYPE	LE TYPE
28.8V			EY9L81B	
21.6V			EY9L61B	
18V	EY9L51B	EY9L50B		
14.4V	EY9L45B	EY9L44B	EY9L41B	EY9L42B
Charging Time	EY9L51B: 55 min.* 70 min. EY9L45B: 55 min.* 70 min.	40 min.* 55 min.	EY9L81B: 65 min.* 75 min. EY9L61B: 50 min.* 60 min. EY9L41B: 35 min.* 50 min.	30 min.* 35 min.

*Usable Charge (80%)



EYOL11B

Charger for Li-ion Batteries & Ni-MH Batteries

- Accepts Panasonic's **2.4V-3.6V** Battery Packs (See below for details)

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



EY0110B

Charger for Ni-MH Batteries & Ni-Cd Batteries

- Accepts Panasonic's **7.2V-24V** Battery Packs (See below for details)
- Equipped with a lamp system that indicates the status of the 5 charging functions at a glance

	TYPE OF BATTERY							
	Ni-MH				Ni-Cd			
	G TYPE	N TYPE	V TYPE	F TYPE	E TYPE	C TYPE	D TYPE	
24V		EY9210B	EY9117B	EY9116B				
18V	EY9251B							
15.6V	EY9231B	EY9230B		EY9136B				
12V	EY9201B	EY9200B		EY9106B	EY9101B	EY9006B	EY9001B	
9.6V					EY9182B/9180B	EY9086B	EY9080B	
7.2V				EY9166B		EY9066B		
Charging Time	65 min.	55 min.	90 min.	45 min.	60 min.	30 min.	25 min.	



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

Battery Pack / Battery Charger - Compatibility Chart

Voltage	Model	Battery	Charging Time								Charger				
			15	30	35	40	50	55	60	70		75			
28.8V	EY7880	EY9L81B								▲*2			●	EYOL82B	
21.6V	EY7460 EY7960	EY9L61B						▲*2					●		
18V	EY7450 EY7950 EY7552	EY9L51B								▲*2			●		
		EY9L50B						▲*2					●		
14.4V	EY74A1 EY45A1 EY75A4 EY75A5	EY9L45B						▲*2					●		
		EY9L44B							▲*2				●		
3.6V	EY7410 EY7411	EY9L10B							▲*2			●	EYOL11B		
15.6V	EY6432 EY3530	EY9230B											●		EY0110B
12V	EY6409	EY9200B											●		
2.4V	EY6220	EY9221B											●		EYOL11B

*1 Available X type (bare tool) *2 Usable Charge (80%)

Li-ion Capacity Table

Impact Driver

Voltage				18V
Model No.				EY75A4X
Battery Type				EY9L51B (LS)
Fastening	Wood Screws in Yellow Pine	dia. 3/16" x 2-15/16"	610 pcs	
	Self-Drilling Screws in SPC	dia. 5/32" x 1/2" t=1/16"	990 pcs	
Bolting	Standard Tensil Bolt	M16 x 1" t=3/8"	1150 pcs	
	Standard Tensil Bolt	M12 x 1" t=3/8"	2700 pcs	
	High Tensil Bolt	M12 x 1" t=3/8"	340 pcs	

High Torque Impact Wrench

Voltage				18V
Model No.				EY7552LS2S
Battery Type				EY9L51B (LS)
Fastening	SPAX screws in yellow pine	dia. 8mm x 80mm	210 pcs	
	standard tensile bolt	M16 x 25mm, t=10mm 2 sec.	300 pcs	
Bolting		M16 x 25mm, t=10mm 2 sec. *with extension	180 pcs	
		M12 x 25mm, t=10mm 1 sec.	640 pcs	
	high tensile bolt	M24 x 25mm, t=10mm 3 sec.	220 pcs	
		M20 x 25mm, t=10mm 2.5 sec.	250 pcs	
		M16 x 25mm, t=10mm 2 sec.	300 pcs	

Impact Wrench

Voltage				18V
Model No.				EY75A5X
Battery Type				EY9L51B (LS)
Fastening	Wood Screws in Yellow Pine	dia. 3/16" x 2-15/16"	550 pcs	
	Wood Screws in Yellow Pine	dia. 3/16" x 4-3/4"	120 pcs	
	Self-Drilling Screws in SPC	dia. 5/32" x 1/2" t=1/16"	950 pcs	
Bolting	Standard Tensil Bolt	M16 x 1" t=3/8"	1000 pcs	
	Standard Tensil Bolt	M14 x 1" t=3/8"	1090 pcs	
	High Tensil Bolt	M12 x 1" t=3/8"	350 pcs	

Multi-Impact & Drill Driver

Voltage				14.4V
Model No.				EY7549X
Battery Type				EY9L45B (LS)
Drill Driver Mode	Holes in SPC	dia. 13/16", t=1/16"	19 pcs	
	Holes in SPC	dia. 1-5/16", t=1/16"	16 pcs	
	Holes in Yellow Pine	dia. 11/16", t=4-3/4"	90 pcs	
	Holes in Yellow Pine	dia. 1-3/16", t=1-9/16"	120 pcs	
Impact Mode	Coach Screws in Yellow Pine	dia. 11/32" x 1-31/32"	55 pcs	
	Self Drilling Screws in SPC	dia. 5/32" x 1/2", t=3/32"	450 pcs	
	High Tensile Bolt	M12 x 1", t=3/8"	200 pcs	

Drill & Driver

Voltage		21.6V	18V			14.4V	
Model No.		EY7460LZ2S	EY7450LS2S	EY7450LR2S	EY74A1LS2G	EY7441LR2S	
Battery Type		EY9L61B (LZ)	EY9L51B (LS)	EY9L50B (LR)	EY9L51B (LS)	EY9L44B (LR)	
Fastening	Wood Screws in Yellow Pine [High Mode]	dia. 3/16" x 2-15/16"	880 pcs	-	-	-	
	Wood Screws in Yellow Pine [High Mode]	dia. 5/32" x 1"	-	-	1300 pcs	930 pcs	
	Wood Screws in Yellow Pine [Low Mode]	dia. 5/16" x 3-5/32"	-	-	340 pcs	-	
	Self-drilling Screws in SPC [High Mode]	dia. 1/8" x 1/2" t=1/16"	1200 pcs	-	-	-	
	Self-drilling Screws in SPC [High Mode]	dia. 5/32" x 1/2" t=1/16"	-	640 pcs	500 pcs	1050 pcs	590 pcs
Drilling	Holes in Plaster Board + PlyWood [Wooding Core] [High Mode]	Plaster Board 1/2" + PlyWood 15/32" dia. 2-11/16" t=15/16"	-	75 pcs	60 pcs	80 pcs	-
	Holes in SPC [High Mode]	dia. 1/2" t=1/16"	230 pcs	300 pcs	240 pcs	-	-
	Holes in SPC [Hole saw] [High Mode]	dia. 13/16" x t=1/16"	-	45 pcs	35 pcs	40 pcs	19 pcs
	Holes in SPC [Hole saw] [Low Mode]	dia. 1-5/16" t=1/16"	-	45 pcs	35 pcs	60 pcs	16 pcs
	Holes in Yellow Pine [High Mode]	dia. 11/16" x t=4-3/4"	110 pcs	130 pcs	100 pcs	120 pcs	75 pcs
	Holes in Yellow Pine [Low Mode]	dia. 1-3/16" t=1-9/16"	-	-	-	220 pcs	120 pcs

Voltage		3.6V	3.6V
Model No.		EY7410LA2S	EY7411LA1S
Battery Type		EY9L10B (LA)	EY9L10B (LA)
Wood Screws	dia. 1/8" x 1/2"	600 pcs	600 pcs
Screws in	M5 x 5/16"	1000 pcs	1000 pcs
Holes in SPC	dia. 1/16", *t=1/16"	85 pcs	85 pcs

Hammer Drill & Driver

Voltage		21.6V	18V		14.4V	
Model No.		EY7960LZ2S	EY7950LS2S	EY7950LR2S	EY7940LR2S	
Battery Type		EY9L61B (LZ)	EY9L51B (LS)	EY9L50B (LR)	EY9L44B (LR)	
Fastening	Wood Screws in Yellow Pine [High Mode]	dia. 3/16" x 2-15/16"	880 pcs	-	-	
	Wood Screws in Yellow Pine [High Mode]	dia. 1/4" x 3-5/32"	-	300 pcs	240 pcs	
	Wood Screws in Yellow Pine [Low Mode]	dia. 5/16" x 3-5/32"	-	190 pcs	150 pcs	
	Self-drilling Screws in SPC [High Mode]	dia. 1/8" x 1/2" t=1/16"	1200 pcs	-	-	
	Self-drilling Screws in SPC [High Mode]	dia. 5/32" x 1/2" t=1/16"	-	640 pcs	500 pcs	590 pcs
Drilling	Holes in Plaster Board + PlyWood [Wooding Core] [High Mode]	Plaster Board 1/2" + PlyWood 15/32" dia. 2-11/16" t=15/16"	-	75 pcs	60 pcs	-
	Holes in Plaster Board + PlyWood [Low Mode]	Plaster Board 1/2" + PlyWood 15/32" dia. 4-29/32" x 15/16"	-	30 pcs	25 pcs	-
	Holes in SPC [High Mode]	dia. 1/2" t=1/16"	230 pcs	300 pcs	240 pcs	-
	Holes in SPC [Hole saw] [High Mode]	dia. 13/16" x t=1/16"	-	45 pcs	35 pcs	19 pcs
	Holes in SPC [Hole saw] [Low Mode]	dia. 1-5/16" t=1/16"	-	45 pcs	35 pcs	16 pcs
	Holes in mortar [High Mode]	dia. 1/4" x 1-3/16" depth	210 pcs	180 pcs	140 pcs	85 pcs
	Holes in mortar [High Mode]	dia. 3/8" x 1-3/16" depth	180 pcs	140 pcs	110 pcs	-
	Holes in masonry [High Mode]	dia. 3/16" x 1-9/16" depth	150 pcs	150 pcs	120 pcs	-
	Holes in Yellow Pine [High Mode]	dia. 11/16" t=4-3/4"	-	130 pcs	100 pcs	75 pcs

Rotary Hammer Drill & Driver

Voltage				18V
Model No.				EY75A4X
Battery Type				EY9L51B (LS)
Drilling + Fastening	Concrete Screw	Holes in Concrete and Screws Fastened	dia. 1/8" x 1-3/16"	120 pcs/charge
			dia. 1/4" x 1-3/16"	100 pcs/charge
	Plastic Anchor Fastening Application	Holes in Concrete and Screws Fastened	dia. 1/4" x 1-3/16"	100 pcs/charge
			dia. 3/16" x 1"	100 pcs/charge
Drilling	Holes in Concrete	dia. 1/8" x 1-3/16"	140 holes/charge	
		dia. 1/4" x 1-3/16"	110 holes/charge	
		dia. 3/8" x 1-9/16"	50 holes/charge	
		dia. 1/2" x 1-9/16"	30 holes/charge	

SDS-Plus Rotary Hammer

Voltage		28.8V
Model No.		EY7880LZ2S
Battery Type		EY9L81B (LZ)
Concrete*	dia. 1/4" x 1-3/16"	160 holes /charge
	dia. 5/16" x 3-15/16"	30 holes /charge
	dia. 1/2" x 1-9/16"	75 holes /charge
	dia. 9/16" x 3-17/32"	20 holes /charge
	dia. 25/32" x 1-9/16"	30 holes /charge

Reciprocating Saw

Voltage		18V
Model No.		EY45A1LS1G
Battery Type		EY9L51B (LS)
Steel Pipe for Ordinary Piping	outer diameter 1-11/32" (t=1/8")	45 pcs/charge
	outer diameter 1-29/32" (t=1/8")	30 pcs/charge
	outer diameter 3-1/16" (t=5/32")	10 pcs/charge
Yellow Pine	2 x 4 [1-1/16" x 3-1/16"]	80 pcs/charge
	2 x 10 [1-1/16" x 9-1/32"]	50 pcs/charge

Multi-Purpose Metal Cutter

Voltage		14.4V
Model No.		EY4542LR2M
Battery Type		EY9L44B (LR)
Conduit Pipe	ø1" t=1/16"	170 pcs/charge
SPC	17-11/16" t=1/16"	14 pcs/charge
Plywood	35-7/16" t=1/2"	55 pcs/charge
PVC Pipe	dia. 1-1/2" t=1/8"	120 pcs/charge

Angle Grinder*

Voltage		14.4V
Model No.		EY4640X
Reinforcing Bar	dia. 3/8"	30 pcs/charge

*Capacity if using EY9L44B battery pack

Ni-MH Capacity Table

Voltage		15.6V	12V	2.4V
Model No.		EY6432NQKW	EY6409NQKW	EY6220NQ
Wood Screws in Yellow Pine	dia. 5/32" x 1"	-	525 pcs	-
	dia. 1/4" x 2-1/2"	480 pcs	-	-
	dia. 1/8" x 25/32"	-	-	280 pcs
Self-Drilling Screws in SPC	dia. 1/8" x 1/2", *t=1/16"	-	730 pcs	-
Holes in Yellow Pine	dia. 1-7/16", *t=1-1/2"	120 pcs	-	-

Metal Cutter

Voltage		15.6V
Model No.		EY3530NQMKW
Hanger Rail	W: 1-5/8" H: 1-5/8" t=1/8"	Metal EY9PM13C 35 pcs/charge
	W: 1-5/8" H: 1-3/16" t=1/16"	Metal EY9PM13C 75 pcs/charge
Conduit Pipe	Outer / 1" EMT dia. 1-5/32"	Metal EY9PM13C 105 pcs/charge

* The above table shows average values. There may be some difference depending on the battery condition, the sharpness of the drill bit, the material hardness, etc.
* t=thickness of material *At concrete strength of medium hardness.

Standard / Optional Accessory Chart

● STANDARD

○ OPTIONAL



Voltage		14.4V/18V							14.4V/18V/21.6V
Model No.		EY74A1LS2G	EY74A1X	EY75A1LS2G	EY75A4X	EY75A5X	EY45A1LS1G	EY45A1X	EY37C1
28.8V Battery Pack (3.1Ah Li-ion Battery Type Z)	EY9L81B								
21.6V Battery Pack (3.1Ah Li-ion Battery Type Z)	EY9L61B								○
18V Battery Pack (3.3Ah Li-ion Battery Type R)	EY9L50B	○	○	○	○	○	○	○	○
18V Battery Pack (4.2Ah Li-ion Battery Type S)	EY9L51B	●	○	●	○	○	●	○	○
15.6V Battery Pack (2.8Ah Ni-MH Battery Type N)	EY9230B								
14.4V Battery Pack (3.1Ah Li-ion Battery Type Z)	EY9L41B	○	○	○	○	○	○	○	○
14.4V Battery Pack (1.5Ah Li-ion Battery Type E)	EY9L42B	○	○	○	○	○	○	○	○
14.4V Battery Pack (3.3Ah Li-ion Battery Type R)	EY9L44B	○	○	○	○	○	○	○	○
14.4V Battery Pack (4.2Ah Li-ion Battery Type S)	EY9L45B	○	○	○	○	○	○	○	○
12V Battery Pack (2.8Ah Ni-MH Battery Type N)	EY9200B								
3.6V Battery Pack (1.2Ah Li-ion Battery Type L)	EY9L10B								
2.4V Battery Pack (2.8Ah Ni-MH Battery Type N)	EY9221B								
Power Supply Kit	EYC941B	○	○	○	○	○	○	○	○
Power Supply Kit	EYC950B	○	○	○	○	○	○	○	○
Charger for Li-ion	EY0L82B	●	○	●	○	○	●	○	○
Charger for Ni-MH & Ni-Cd Battery (7.2-24V)	EY0110B								
Charger for Li-ion, Ni-MH battery	EY0L11B								
Attachable 1/2" to 1/4" Quick Change Adapter	EY9HX111E					●			
Attachable 1/2" Keyless Drill Chuck for EY7549	EY9X003E								
1/2" Keyless Chuck for 18V and 21.6V Drills	EY9HX410E	●	●						
1/2" Keyless Chuck for EY7441 and EY7940	EY9HX411E								
1/2" Keyless Drill Chuck for EY7950	EY9HX412E								
Carbide-Tipped Blade for Metal	EY9PM13C								
Carbide-Tipped Blade for Wood	EY9PW13A								
Rip Fence	EY3500B7727								
Dust collection cup	EY9X004E								
Clutch Lock Cover	EY9X007E								

28.8V	21.6V	18V					14.4V					3.6V	15.6V	12V	2.4V								
EY7880LZ2S	EY7460LZ2S	EY7960LZ2S	EY7450LS2S	EY7450LR2S	EY7552X	EY7950LS2S	EY7950LR2S	EY7441LR2S	EY7940LR2S	EY7549X	EY7840LR2S	EY4542LR2M	EYC194LR	EY7411LA1S	EY7410LA2S	EY7410LA1C	EY6432NQKW	EY3530NQMKW	EYC136NQKW	EY6409NQKW	EY6220NQ	EY6220N	
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