**Assembly Tools Product Line-up**

### Mechanical Pulse Tools

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Torque Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYFLA4A</td>
<td>10.8V, 18-22Nm</td>
<td>2-22Nm</td>
</tr>
<tr>
<td>EYFLA5A</td>
<td>10.8V, 16-30Nm</td>
<td>6-30Nm</td>
</tr>
<tr>
<td>EYFLA5P</td>
<td>10.8V, 10-20Nm</td>
<td>3-20Nm</td>
</tr>
<tr>
<td>EYFLA5Q</td>
<td>10.8V, 6-30Nm</td>
<td>2-30Nm</td>
</tr>
<tr>
<td>EYFLA6J</td>
<td>10.8V, 16-53Nm</td>
<td>6-53Nm</td>
</tr>
<tr>
<td>EYFLA6P</td>
<td>10.8V, 14-100Nm</td>
<td>4-100Nm</td>
</tr>
<tr>
<td>EYFMA1J</td>
<td>14.4V, 25-100Nm</td>
<td>16-100Nm</td>
</tr>
<tr>
<td>EYFMA1P</td>
<td>14.4V, 25-100Nm</td>
<td>16-100Nm</td>
</tr>
<tr>
<td>EYFPA1J</td>
<td>21.6V, 140-650Nm</td>
<td>60-650Nm</td>
</tr>
</tbody>
</table>

### Wireless Mechanical Pulse Tools

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Torque Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYFLA4AR</td>
<td>10.8V, 18-22Nm</td>
<td>2-22Nm</td>
</tr>
<tr>
<td>EYFLA5AR</td>
<td>10.8V, 16-30Nm</td>
<td>6-30Nm</td>
</tr>
<tr>
<td>EYFLA5PR</td>
<td>10.8V, 10-20Nm</td>
<td>3-20Nm</td>
</tr>
<tr>
<td>EYFLA5QR</td>
<td>10.8V, 6-30Nm</td>
<td>2-30Nm</td>
</tr>
<tr>
<td>EYFLA6JR</td>
<td>10.8V, 16-53Nm</td>
<td>6-53Nm</td>
</tr>
<tr>
<td>EYFLA6PR</td>
<td>10.8V, 14-100Nm</td>
<td>4-100Nm</td>
</tr>
<tr>
<td>EYFMA1JR</td>
<td>14.4V, 25-100Nm</td>
<td>16-100Nm</td>
</tr>
<tr>
<td>EYFMA1PR</td>
<td>14.4V, 25-100Nm</td>
<td>16-100Nm</td>
</tr>
<tr>
<td>EYFPA1JR</td>
<td>21.6V, 140-650Nm</td>
<td>60-650Nm</td>
</tr>
</tbody>
</table>

### Basic Clutch Tools

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Torque Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYGB1N</td>
<td>14.4V, 2-5.5Nm</td>
<td>1-5.5Nm</td>
</tr>
<tr>
<td>EYGB2N</td>
<td>14.4V, 5-8Nm</td>
<td>3-8Nm</td>
</tr>
<tr>
<td>EYGB3N</td>
<td>14.4V, 5-10Nm</td>
<td>3-10Nm</td>
</tr>
</tbody>
</table>

### Programmable Clutch Tools

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Torque Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYGA1N</td>
<td>14.4V, 2-5.5Nm</td>
<td>1-5.5Nm</td>
</tr>
<tr>
<td>EYGA2N</td>
<td>14.4V, 5-8Nm</td>
<td>3-8Nm</td>
</tr>
<tr>
<td>EYGA3N</td>
<td>14.4V, 5-10Nm</td>
<td>3-10Nm</td>
</tr>
</tbody>
</table>

### Wireless Programmable Clutch Tools

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Torque Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYGA1NR</td>
<td>14.4V, 2-5.5Nm</td>
<td>1-5.5Nm</td>
</tr>
<tr>
<td>EYGA2NR</td>
<td>14.4V, 5-8Nm</td>
<td>3-8Nm</td>
</tr>
<tr>
<td>EYGA3NR</td>
<td>14.4V, 5-10Nm</td>
<td>3-10Nm</td>
</tr>
</tbody>
</table>

### Wireless Receivers

<table>
<thead>
<tr>
<th>Model</th>
<th>Qualifier Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYFR02B</td>
<td>Single Tool Qualifier</td>
</tr>
<tr>
<td>EYFR03</td>
<td>Multi-Tool Qualifier</td>
</tr>
</tbody>
</table>

### Oil Pulse Tool

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Torque Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYFLC1A</td>
<td>10.8V, 22-27Nm</td>
<td>2-27Nm</td>
</tr>
</tbody>
</table>

### Low Torque Clutch Tool

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Torque Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYFEA1NS</td>
<td>10.8V, 18-27Nm</td>
<td>2-27Nm</td>
</tr>
<tr>
<td>EYFEA1N</td>
<td>2.7-35.4 in.lbs</td>
<td>2-35.4 in.lbs</td>
</tr>
</tbody>
</table>
Panasonic Cordless Assembly Tools
Bringing Innovation to the Assembly Line

Benefits

Safer Work Environment

Improved Ergonomics
Lightweight and compact, no air hose to drag around.

Eliminate Trip Hazards
Removes dangerous air hoses and provides a clear work area.

Improved Air Quality
Eliminates airborne oily residue emitted from air tools.

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 in EYFL/M/P tools.

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 ±10% at Cmk=1.67 – ISO 5393*
• Fast Acting All Steel Clutch for Increased Durability
• Photo Interrupter Sensor Increases Clutch Life and Tool Accuracy
• Auto Stage Adjustable Clutch for Precise Adjustment
• Tamper Resistant Clutch for Increased Quality
• Programmable Version for Increased Versatility*
• Wireless Version for Error Proofing and Data Collection**

Programmable “Quick Set” Features

Speed Control
Adjustable speed in 10 rpm increments to exactly match the application.

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

Cross Thread / Rehit Detection
If the clutch is activated before the programmable minimum runtime, the tool stops the fastening process and signals a NOK fastening.

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

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

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

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

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

Buzzer
The buzzer can be programmed for OK, NOK or Disabled.
Precision Clutch Tools
Ergonomic, Accurate & Repeatable

High Accuracy
10% Cmk ≥ 1.67*
(ISO5393)
*In ≥3N·m range

**Complete Clutch Tool line-up covers a wide range of applications**

- Basic Clutch Tools
- Programmable Clutch Tools
- Wireless Programmable Clutch Tools

**60 Stage adjustable clutch**

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

Clutch Adjustment Tool

Quickly set the torque by adjusting the scale.

Clutch stage "*1"

- Clutch Adjustment Tool

**Advanced Fastening Features**

**Cross Thread Reduction**

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

**Reverse Rotation!**

- At a programmed period of time, the rpm automatically down-shifts to 300 rpm's maximizing operator's productivity.

**Auto Downshift Function**

- Reducing the fasteners impact to the material.

**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.

**Maintenance Interval Alarm**

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

**Variable Speed Control Function**

- Enable variable speed or single speed trigger operation.

**Auto Battery Shut Down**

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

**Durable Design**

- Photo interrupter sensor increases clutch life and tool accuracy

*No brushes to wear out*

**Additional Features**

- No brushes to wear out*

**Brushless Motor**

- The brake is controlled on a separate circuit.

**Working current**

- Only 0.5 amps

**Floating Connector**

- For easy identification

**Remote Control**

- Tool setting can be set only by remote control.

**Color plate for differentiation**

- Each tool is color coded for easy identification.

**New lightweight 2.0Ah battery (EYFB41B) or extended run time 4.2Ah battery (EYFB42B) available**

**Rubber grip**

**LED Light**

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

**Brushless Motor**

- The brake is controlled on a separate circuit.

**Working current**

- Only 0.5 amps

**How to set clutch**

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

Clutch Adjustment Tool

Quickly set the torque by adjusting the scale.

Clutch stage "*1"

- Insert the clutch adjustment tool into the nose of the tool.
- Rotate the clutch adjustment tool clockwise to increase torque and counter clockwise to decrease torque.

**Cross Thread Reduction**

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

**Reverse Rotation!**

- At a programmed period of time, the rpm automatically down-shifts to 300 rpm's maximizing operator's productivity.

**Auto Downshift Function**

- Reducing the fasteners impact to the material.

**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.

**Maintenance Interval Alarm**

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

**Variable Speed Control Function**

- Enable variable speed or single speed trigger operation.

**Auto Battery Shut Down**

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

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**Rubber grip**

**LED Light**

- Program LED to turn on with the trigger switch or ON/OFF switch to match operators preference.
Cordless Precision Clutch Tool

Cordless Precision Clutch Tool

- Torque control range – 2-5.5Nm (17.7-48.6 in. lbs.)
- High accuracy ±10% at Cmk=1,67 – (ISO 5393)
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Fast acting all steel clutch for increased durability
- Photo interrupt 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

Available 2.0Ah (EYFB41B) & 4.2Ah (EYFB42B) high capacity 14.4V Li-ion battery

- Variable speed trigger/reversible
- 1/4" Hex quick change chuck
- Battery indicator lamp (3 stages) and programmable LED work light (ON/OFF Switch or trigger control)
- Charging time (EY0L82B charger (with 2.0Ah EYFB41B battery)): Usable: 35 minutes; Full: 40 minutes
- Compact size (L x H x W (with 2.0Ah EYFB41B battery)): 7-13/16" x 9-1/8" x 2-15/16"*
- Light weight (with 2.0Ah battery (EYFB41B)): 2.8 lbs.
- Includes 1 – Tool body, 1 – (EYFA32B) Clutch Adjustment Tool

ERROR PROOFING FEATURES

- OK/NOK both visual and audible indicators
- Compatibility with Panasonic Quality Control Monitoring System (Radio version required) *Available in EYFGA2NR
- Out of range anti-theft enable/disable (Radio version only) *Available in EYFGA2N and EYFGA3N
- Maintenance interval alarm
- Variable speed enable/disable
- Prevent and detect cross threads and rehits
- Adjustable speed (10 rpm Increments) and programmable auto downshift

ERROR PROOFING FEATURES

- OK/NOK both visual and audible indicators
- Compatibility with Panasonic Quality Control Monitoring System (Radio version required) *Available in EYFGA2NR
- Out of range anti-theft enable/disable (Radio version only) *Available in EYFGA2N and EYFGA3N
- Maintenance interval alarm
- Variable speed enable/disable
- Prevent and detect cross threads and rehits
- Adjustable speed (10 rpm Increments) and programmable auto downshift

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

1/4" Hex quick change chuck

[Image 989x476 to 1174x731]*Charging times are approximate and may be slightly longer depending on conditions.

**In 2AhN Range **Charging times are approximate and may be slightly longer depending on conditions.

EYFGA1N / EYFGA1NR / EYFB1N

Cordless Precision Clutch Tool

Cordless Precision Clutch Tool

- Torque control range – 5-10Nm (44.2-88.5 in. lbs.)
- High accuracy ±10% at Cmk=1,67 – (ISO 5393)
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Fast acting all steel clutch for increased durability
- Photo interrupt 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

Available 2.0Ah (EYFB41B) & 4.2Ah (EYFB42B) high capacity 14.4V Li-ion battery

- Variable speed trigger/reversible
- 1/4" Hex quick change chuck
- Battery indicator lamp (3 stages) and programmable LED work light (ON/OFF Switch or trigger control)
- Charging time (EY0L82B charger (with 2.0Ah EYFB41B battery)): Usable: 35 minutes; Full: 40 minutes
- Compact size (L x H x W (with 2.0Ah EYFB41B battery)): 7-13/16" x 9-1/8" x 2-15/16"*
- Light weight (with 2.0Ah battery (EYFB41B)): 2.9 lbs.
- Includes 1 – Tool body, 1 – (EYFA32B) Clutch Adjustment Tool

ERROR PROOFING FEATURES

- OK/NOK both visual and audible indicators
- Compatibility with Panasonic Quality Control Monitoring System (Radio version required) *Available in EYFGA3NR
- Out of range anti-theft enable/disable (Radio version only) *Available in EYFGA2N and EYFGA3N
- Maintenance interval alarm
- Variable speed enable/disable
- Prevent and detect cross threads and rehits
- Adjustable speed (10 rpm Increments) and programmable auto downshift

ERROR PROOFING FEATURES

- OK/NOK both visual and audible indicators
- Compatibility with Panasonic Quality Control Monitoring System (Radio version required) *Available in EYFGA3NR
- Out of range anti-theft enable/disable (Radio version only) *Available in EYFGA2N and EYFGA3N
- Maintenance interval alarm
- Variable speed enable/disable
- Prevent and detect cross threads and rehits
- Adjustable speed (10 rpm Increments) and programmable auto downshift

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

1/4" Hex quick change chuck

[Image 989x476 to 1174x731]*Charging times are approximate and may be slightly longer depending on conditions.

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

- 21 Stage clutch with auto shut off (Approx.): Low: 2.7-35.4 in. lbs. High: 2.7-17.7 in. lbs.
- Clutch cover for locking out clutch adjustment and speed selector switch
- 2 Speed/reversible: Low: 300 rpm High: 900 rpm
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Over Current Protection – Disables the tool if unable to achieve the target torque
- Variable speed trigger/reversible
- LED work light
- High lasting 1.5Ah Li-ion battery
- 1/4" Hex quick change chuck
- Powerful: High: 17.7 in. lbs. Low: 53.1 in. lbs.
- Compact size (L x H x W): 5-3/4" x 7-7/8" x 1-5/8"
- Light weight (incl. battery): 1.39 lbs.
- Charging Time (using EY0L20B charger)*: Usable: 35 minutes Full: 60 minutes
- Max. Screw Driving: High: M4 screw Low: M5 screw
- Kit includes 1 – Tool, 2 – (EY9L20B) 1.5Ah 7.2V Li-ion Battery, 1 – (EY0L20B) Charger and 1 – (WEYFEA1N3137) Clutch Lock Cover

Optional Accessory Clutch lock cover
WEFEA1N3137

7.2V

EYFEA1 Series Only
Prevent and Detect Cross Threads and Rehits
The tool first reverses 360 degrees, aligning the threads, greatly reducing the possibility of cross threads.

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

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

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

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

EYFEA1N2S / EYFEA1N

EYFEA1N
Battery pack and battery charger are not included.

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 shutoff, 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.

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

MORE FEATURES

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

WEIGHT
1.39 lbs.

LENGTH
5.7”

EYFEA1N (T shape body)

Approx. 2-13/16” difference in length

EY7410

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.

EYFEA1N Battery pack and battery charger are not included.
Cordless Mechanical Pulse Tools Deliver Accuracy and Durability
3 to 650Nm virtually reaction free!

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

Shut Off Tool delivers torque accuracy

Improving durability of motor and switch

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

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.

Maintains selected torque level as the battery power drops.

Example - Rehit prevention is programmed to one second.

1. Shut-off

2. Triggering within one sec.

Tool Disabled

Tools Enabled

Remote Control

Tool setting can be set only by remote control.

More Features

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

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

LED Light
For operations in dimly lit places

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

Long life parts provide lower running costs

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, 14.4V 4.2Ah and 21.6V 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.

1. Use on applications with no pulses before the flush point or when fastening fragile materials like plastic.

2. Use on most applications when the tool pulses before achieving the flush point.

Torque Control Mechanism

The on board CPU monitors two sensors (rotor angle sensor and pulse monitoring sensor) detecting the change in motor speed and rpm between pulses determining the flush point.

The CPU then switches to a torque calculation mode using a Panasonic patented algorithm to achieve an accurate and repeatable final torque.*

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

Torque Control Mechanism

1. Use on applications with no pulses before the flush point or when fastening fragile materials like plastic.

2. Use on most applications when the tool pulses before achieving the flush point.

Compact 10.8V/14.4V 2.0Ah Li-ion Batteries
High Capacity 10.8V 3.0Ah, 14.4V 4.2Ah and 21.6V 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.

1. Use on applications with no pulses before the flush point or when fastening fragile materials like plastic.

2. Use on most applications when the tool pulses before achieving the flush point.

Retightening Prevention Function

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

Maintains selected torque level as the battery power drops.

Example - Rehit prevention is programmed to one second.

1. Shut-off

2. Triggering within one sec.

Tool Disabled

Tools Enabled

Remote Control

Tool setting can be set only by remote control.

More Features

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

Remote Control
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LED Light
For operations in dimly lit places

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Long life parts provide lower running costs

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, 14.4V 4.2Ah and 21.6V 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.

1. Use on applications with no pulses before the flush point or when fastening fragile materials like plastic.

2. Use on most applications when the tool pulses before achieving the flush point.

Retightening Prevention Function

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

Maintains selected torque level as the battery power drops.
Cordless Mechanical Pulse Tool

EYFLA4A / EYFLA4AR

- Torque controlled range – 3-22Nm (2.2-16.2 ft. lbs.) (Based on medium hard joint*)
- Maximum Torque in non-shut off mode – Approx. 40Nm (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)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 1/4" Hex quick change chuck
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: rpm) – 1: 0-1,950, 2: 0-1,300, 3: 0-1,450, 4-8: 0-1,550, 9-30 & F: 0-2,300
- Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-7/32" x 9-25/32" x 2-61/64"
- Light weight (incl. 3.0Ah battery (EYFB30B)): 2.8 lbs.

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

*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
** M10 Bolt (F mode, tightening 3 sec.)

EYFLA5A / EYFLA5AR

- Torque controlled range – 6-30Nm (4.4-22 ft. lbs.) (Based on medium hard joint*)
- Maximum Torque in non-shut off mode – Approx. 90Nm (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)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 1/4" Hex quick change chuck
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: rpm) – 1: 0-1,300, 2: 0-1,450, 3: 0-1,550, 4-8: 0-1,550, 9-30 & F: 0-2,300
- Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-7/32" x 9-25/32" x 2-61/64"
- Light weight (incl. 3.0Ah battery (EYFB30B)): 2.8 lbs.

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

*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
** M10 Bolt (F mode, tightening 3 sec.)
**EYFLA5P / EYFLA5PR**

**Cordless Mechanical Pulse Tool**

- Torque controlled range – 8-30Nm (6.4-22 ft. lbs.) [Based on medium hard joint]*
- Maximum Torque in non-shut off mode – Approx. 10Nm (6.4 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)
- Flash Detection Mode Applications
  - L1: Use on any 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 24-25)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 3/8” Square drive with pin detent
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: rpm) = 1: 0-1,300, 2: 0-1,450, 3: 0-1,550, 4-30 & F: 0-2,300
- Rebit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-7/16” x 9-25/32” x 2-61/64”
- Light weight (incl. 3.0Ah battery (EYFB30B)): 2.8 lbs.

---

**EYFLA6P / EYFLA6PR**

**Cordless Mechanical Pulse Tool**

- Torque controlled range – 16-53Nm (11.8-39 ft. lbs.) [Based on medium hard joint]*
- Maximum Torque in non-shut off mode – Approx. 120Nm (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)
- Flash Detection Mode Applications
  - L1: Use on any 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 24-25)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 1/2” Square drive with pin detent
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: rpm) = Torque Setting 1-30 & F: 0-2,300
- Rebit 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.

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**EYFLA5Q / EYFLA5QR**

**Cordless Mechanical Pulse Tool**

- Torque controlled range – 4-30Nm (3.0-23 ft. lbs.) [Based on medium hard joint]*
- Maximum Torque in non-shut off mode – Approx. 10Nm (6.4 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)
- Flash Detection Mode Applications
  - L1: Use on any 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 24-25)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 3/8” Square drive with through hole
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: rpm) = 1: 0-1,300, 2: 0-1,450, 3: 0-1,550, 4-30 & F: 0-2,300
- Rebit 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.

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**EYFLA6J / EYFLA6JR**

**Cordless Mechanical Pulse Tool**

- Torque controlled range – 16-53Nm (11.8-39 ft. lbs.) [Based on medium hard joint]*
- Maximum Torque in non-shut off mode – Approx. 120Nm (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)
- Flash Detection Mode Applications
  - L1: Use on any 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 24-25)
- Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque
- Available 2.0Ah (EYFB32B) & 3.0Ah (EYFB30B) high capacity 10.8V Li-ion battery
- Variable speed trigger/reversible
- 1/2” Square drive with through hole
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: rpm) = Torque Setting 1-30 & F: 0-2,300
- Rebit 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**

- M4 Bolt (Tensile Bolt)
- M6 Bolt (Normal Bolt)
- M8 Bolt (Normal Bolt)
- M8 Bolt (Tensile Bolt)
- M10 Bolt (Normal Bolt)
- M10 Bolt (Tensile Bolt)
- M12 Bolt (Tensile Bolt)
- M12 Bolt (Normal Bolt)
- M14 Bolt (Normal Bolt)
- M14 Bolt (F mode, tightening 3 sec.)

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

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

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

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

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*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
**M16 Bolt (F mode, tightening 3 sec.)

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*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
**M16 Bolt (F mode, tightening 3 sec.)

---

*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
**M16 Bolt (F mode, tightening 3 sec.)

---

*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
**M16 Bolt (F mode, tightening 3 sec.)

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TYPICAL APPLICATION

- M6 Bolt (Tensile Bolt)
- M10 Bolt (Normal Bolt)
- M10 Bolt (Tensile Bolt)
- M14 Bolt (Normal Bolt)
- M14 Bolt (F mode, tightening 3 sec.)
Cordless Mechanical Pulse Tool

- Torque controlled range – 25-100Nm (18.6-73.7 ft. lbs.) (Based on medium hard joint*)
- Torque in non-shut off mode – Approx. 185Nm (136.5 ft. lbs.**)  
- Patented Panasonic CPU controlled auto-shut-off  
- Torque Setting – 30 stages in L1 mode and 30 stages in L2 mode  
- Flux 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 24-25)  
  - Low Battery Disable – Disables the tool if the battery doesn’t have the capacity to achieve the proper torque  
  - Available 2.0Ah (EYFB41B) & 4.2Ah (EYFB42B) high capacity 14.4V Li-ion battery  
  - Variable speed trigger/reversible  
  - 1/2” Square drive with pin detent  
  - Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)  
  - No Load Speed (Torque Setting: rpm) – Torque Setting 1-30 & F: 0-2,300  
  - Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.  
  - Compact size (L x H x W): 6-25/32” x 9-25/32” x 2-61/64”  
  - Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.  
  - No Load Speed (Torque Setting: rpm) – Torque Setting 1-30 & F: 0-2,300  
  - Rehit Prevention – Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.  
  - Light weight (incl. 4.2Ah battery EYFB42B): 3.3 lbs.  

TYPICAL APPLICATION  
• M10 Bolt (Tensile Bolt)  
• M12 Bolt (Normal Bolt)  
• M14 Bolt (Tensile Bolt)  

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

TYPICAL APPLICATION  
• M10 Bolt (Tensile Bolt)  
• M12 Bolt (Normal Bolt)  
• M14 Bolt (Tensile Bolt)  

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

TYPICAL APPLICATION  
• M10 Bolt (Tensile Bolt)  
• M12 Bolt (Normal Bolt)  
• M14 Bolt (Tensile Bolt)  

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

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

** M24 Bolt (F mode, tightening 3 sec.)

Cordless Oil Pulse Tool

- Torque controlled range – 18-27Nm (13.3-19.9 ft. lbs.) (Based on medium hard joint*)
- Torque in non-shut off mode – Approx. 30Nm (22 ft. lbs.**)  
- Patented Panasonic CPU controlled auto-shut-off  
- Torque Setting – 30 stages in L1 mode and 30 stages in L2 mode  
- Flux 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.  
  - Twin Hammer design for durability, speed & size  
  - Remote control required for “Quick Set” features  
  - Programmable “Quick Set” features  
  - Prevent and detect cross threads and rehits  
  - Maintenance interval alarm  
  - Variable speed or On/Off switch  
  - Error proofing with OK/NOK indicator  
  - Radio version required for Panasonic Quality Control Monitoring System (See page 24-25)  
  - Low Battery Disable – Disables tool if battery doesn’t have the capacity to achieve proper torque  
  - Available 4.2Ah (EYFB40B) high capacity 21.6V Li-ion battery  
  - Variable speed trigger/reversible  
  - 3/4” Square drive with through hole  
  - Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)  
  - No Load Speed: 0-1600 rpm  
  - Charging time: Usable: 60 minutes  Full: 75 minutes  
  - Compact size (L x H x W): 9-27/32” x 11-5/8” x 2-61/64”  
  - Lightweight (incl. 4.2Ah battery EYFB40B): 7.7 lbs  
  - Optional accessories: EY0L82B Battery Charger, EYFB60B – 21.6V 4.2Ah Li-ion Battery

TYPICAL APPLICATION  
• M6 Bolt (Tensile Bolt)  
• M8 Bolt (Normal Bolt)  

** M24 Bolt (F mode, tightening 3 sec.)

TYPICAL APPLICATION  
• M6 Bolt (Tensile Bolt)  
• M8 Bolt (Normal Bolt)  

** M24 Bolt (F mode, tightening 3 sec.)

*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints.
High Power 21.6V Cordless Mechanical Pulse Tool

Virtually no torque reaction
- M16 (High Tensile Bolt) up to 400Nm
- M24 (High Tensile Bolt) up to 650Nm

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

**Torque controlled range**
160~650Nm

**Maximum Torque**
700Nm
(After 3 sec.)

**Lightweight**
approx. 7.7 lbs

**High capacity**
4.2Ah

Advanced technologies delivering a compact, lightweight tool with high torque

High-Efficient, Twin Hammer
The newly developed high efficient twin hammer design delivers high power while reducing the tool size and vibration thus less operator fatigue.

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

Advanced fastening features

Cross thread reduction
The tool first reverses 360 degree, aligning the threads, greatly reducing the possibility of cross threads.

Reverse Rotation!

Maintenance interval alarm
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. This function can be set ON or OFF and is defined in 10,000 increment cycles. (Number of setting: 0-1,000,000pcs)

Additional features

Ergonomic design by computing the best weighted center position

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

NEED Hi-Res Image

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

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.

Speed Control Function
Speed can be controlled by use of the trigger. Speed control function ON and OFF can be selected by remote.

Tool Hanger (Optional)
Tool can be suspended from a balancer either vertically or horizontally.

Additional features

Ergonomic design by computing the best weighted center position

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

NEED Hi-Res Image

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

Horizontal hanging
Vertical hanging
Non-skid rubber grip

- M16 (High Tensile Bolt) up to 400Nm
- M24 (High Tensile Bolt) up to 650Nm

*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints.
**Mechanical Pulse Tool Spec Table**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>EYFLA4A/4AR</th>
<th>EYFLAS4/4SP/4SG</th>
<th>EYFLA51/5J/5MR</th>
<th>EYPA1/1J/1PR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>10.8V</td>
<td>10.8V</td>
<td>10.8V</td>
<td>21.6V</td>
</tr>
<tr>
<td>Torque Range</td>
<td>3-32Nm (2.2-16 ft. lbs.)</td>
<td>6-30Nm (4.4-22 ft. lbs.)</td>
<td>16-550Nm (118-477 ft. lbs.)</td>
<td>160-4550Nm (118-477 ft. lbs.)</td>
</tr>
<tr>
<td>Max Torque</td>
<td>0-3150 RPM</td>
<td>0-1850 RPM</td>
<td>3-22Nm</td>
<td>18-27Nm</td>
</tr>
<tr>
<td>Rehit Prevention</td>
<td>(Possible to set per 0.1 sec. between 0-3 sec.)</td>
<td>(Possible to set per 0.1 sec. between 0-3 sec.)</td>
<td>(Possible to set per 0.1 sec. between 0-3 sec.)</td>
<td>(Possible to set per 0.1 sec. between 0-3 sec.)</td>
</tr>
<tr>
<td>Features</td>
<td>Programmable</td>
<td>&quot;Quick Set&quot;</td>
<td>Battery Indication Lamp: (3 stage)</td>
<td>Battery Indication Lamp: (3 stage)</td>
</tr>
</tbody>
</table>
| Function| Wireless Communication with assembly qualifier: (OK Fasten=Green light, NOK Fasten=Red light) (*radio models only) | Wireless Communication with assembly qualifier: (OK Fasten=Green light, NOK Fasten=Red light) (*radio models only) | Wire \[..."Quick Set" Features

**Oil Pulse Tool Spec Table**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>EYFLC1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
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<tr>
<td>Drive</td>
<td>1/4&quot; Hex Quick Change</td>
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<tr>
<td>Torque Range</td>
<td>10-27Nm (3.5-17 ft. lbs.)</td>
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<tr>
<td>Max Torque</td>
<td>27Nm</td>
</tr>
<tr>
<td>PPM (Pulses Per Min)</td>
<td>2: 0-1300</td>
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<tr>
<td>Weight</td>
<td>2.8 lbs. (incl. 3.0Ah (EYFB30B))</td>
</tr>
<tr>
<td>Size (L x W x H)</td>
<td>4-7/32&quot; x 9-25/32&quot; x 2-61/64&quot;</td>
</tr>
</tbody>
</table>

**Assembly Tool Accessories**

- **Batteries & Chargers**
  - EYFL22B: 7.2V 1.5Ah Li-ion Battery Pack
  - EYFB32B: 10.8V 2.0Ah Li-ion Battery Pack
  - EYFB30B: 10.8V 3.0Ah Li-ion Battery Pack
  - EYFB12B: 14.4V 2.0Ah Li-ion Battery Pack
- **Battery Protector**
  - EYFL22B: 7.2V 1.5Ah Li-ion Battery Pack
  - EYFB32B: 10.8V 2.0Ah Li-ion Battery Pack
  - EYFB30B: 10.8V 3.0Ah Li-ion Battery Pack
  - EYFB12B: 14.4V 2.0Ah Li-ion Battery Pack

**Tool Covers**

- EYPA1J: EYFL Tool Hanger
- EYPA1B: EYFL Tool Hanger
- EYPA1M: EYFL Tool Hanger

**Accessories**

- EYPA2J: Clutch Adjustment Tool for EYFB Series Tools
- EYPA1B: Clutch Lock Out Cover for EYFA4J
- EYFA31B: Remote Control for all EYFG/EYFL/EYFM/EYP Tools
### Panasonic Quality Control Monitoring
With highly efficient tools and qualifiers, Panasonic offers a reliable Quality Control System.

#### Panasonic Assembly Qualifiers
A single tool Assembly Qualifier for a specific application or a multi-tool Assembly Qualifier for versatile error proofing options, the Panasonic Assembly Qualifiers deliver the solution you need.

**EYFR03**
**Multi-Tool Assembly Qualifier**

- **16 to 1**
  - Up to 16 tools can communicate over a secure connection simultaneously with the Qualifier to indicate OK/NOK fastenings.

- **Stores up to 10,000 fastenings**

- **Programming Modes**
  - Parameter - Run one tool at a time.
  - Groups - Run a group of tools simultaneously.
  - Jobs - Run tools or a group of tools in a sequence.

- **Process Control**
  - Utilizing I/O or Fieldbus capabilities improves quality and increases productivity.

### EYFR02B
**Single Tool Assembly Qualifier**

- **Wireless Communication**
  - OK/NOK light on the tool flashes green/red to indicate the completion of each fastener.
  - Stores up to 10,000 fastenings

- **Discrete I/O to PLC**
  - Green light indicates a successful fastening.
  - Red light indicates unsuccessful fastening.

- **Remote I/O (Future Use)**

**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.

**Enable/Disable Tools**
Tools can be locked out to prevent use after batch is completed and/or when not in use.

### Comparison of Assembly Qualifiers

<table>
<thead>
<tr>
<th>MODEL</th>
<th>EYFR02B</th>
<th>EYFR03A</th>
<th>EYFR03B</th>
<th>EYFR03C</th>
<th>EYFR03D</th>
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<tr>
<td>Graphics Display</td>
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<td>✔️</td>
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<td>Number of Tool Connectivity</td>
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<tr>
<td>Number of Tools Simultaneously</td>
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<td>Discrete Inputs/Outputs</td>
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<td>–</td>
<td>8/12</td>
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<td>Remote Inputs/Outputs Connection</td>
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<td>Atlas Copco Open Protocol</td>
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<tr>
<td>Atlas Copco ToolsNet</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Ethernet IP</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Out of Range Disable / Anti-Theft</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Recommended Range</td>
<td>10m</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Rated Supply Voltage</td>
<td>110V AC</td>
<td>110V AC</td>
<td>110V AC</td>
<td>110V AC</td>
<td>110V AC</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>9-1/16” x 14-5/8” x 3-1/2”</td>
<td>16-1/2” x 10-3/4” x 4-1/16”</td>
<td>16-1/2” x 10-3/4” x 4-1/16”</td>
<td>16-1/2” x 10-3/4” x 4-1/16”</td>
<td>16-1/2” x 10-3/4” x 4-1/16”</td>
</tr>
</tbody>
</table>

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

Software available for download for EYFR02B and EYFR03 models.
# Standard / Optional Accessory Chart

## Battery Packs
- **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**: EYFB33B
- **14.4V 2.0Ah Li-ion Battery Pack**: EYFB41B
- **14.4V 4.2Ah Li-ion Battery Pack**: EYFB42B
- **21.6V 4.2Ah Li-ion Battery Pack**: EYFB60B

## Chargers
- Charger for Panasonic Li-ion Battery 7.2V (EY9L20B): EY9L20B
- Charger for Panasonic Li-ion Batteries 10.8V - 28.8V: EY9L82B
- Charger for Panasonic Li-ion Batteries 10.8V - 28.8V: EY9L82B

## Qualifiers
- Single Tool Qualifier: EYFR02B
- Multi-Tool Qualifier - Graphics Disp/Discrete I/O/Remote I/O/ACOP/ToolNet/EIP: EYFR03-A
- Multi-Tool Qualifier - Graphics Disp/Remote I/O/ACOP/ToolNet/EIP: EYFR03-B
- Multi-Tool Qualifier - Discrete I/O/Remote I/O/ACOP/ToolNet/EIP: EYFR03-C
- Multi-Tool Qualifier - Remote I/O/ACOP/ToolNet/EIP: EYFR03-D

## Tool Covers
- Protector for EYFB30B Battery - Gray: EYFA02-H
- Protector for EYFB32B Battery - Gray: EYFA03-H
- Protector for EYFB41B Battery - Gray: EYFA06-H
- Protector for EYFB42B Battery - Gray: EYFA07-H
- Protector for EYFB41B Battery - Yellow: EYFA08-Y
- Protector for EYFB42B Battery - Yellow: EYFA09-Y
- Protector for EYFL/EYFM 10.8V & 14.4V Mechanical Pulse Tool Bodies - Blue: EYFA01-A
- Protector for EYFL/EYFM 10.8V & 14.4V Mechanical Pulse Tool Bodies - Green: EYFA02-G
- Protector for EYFL/EYFM 10.8V & 14.4V Mechanical Pulse Tool Bodies - Gray: EYFA03-H
- Protector for EYFL/EYFM 10.8V & 14.4V Mechanical Pulse Tool Bodies - Yellow: EYFA04-Y
- Protector for EYFP 21.6V Mechanical Pulse Tool Bodies - Blue: EYFA07-A
- Protector for EYFP 21.6V Mechanical Pulse Tool Bodies - Green: EYFA08-G
- Protector for EYFP 21.6V Mechanical Pulse Tool Bodies - Gray: EYFA09-G
- Protector for EYFP 21.6V Mechanical Pulse Tool Bodies - Yellow: EYFA10-Y

## Accessories
- Clutch Adjustment Tool for EYFG Clutch Tools: EYFA32B
- Clutch Lock Out Cover EYFB35N: EYFA31N
- U/V Cable for EYFR02B Single Tool Qualifier: EYFR022CA
- U/V Cable for EYFR03 Multi-Tool Qualifier: EYFR03CA
- Remote Control for all EYFL, EYFM, EYFG Series Tools: EYFA31B
- Tool Hanger for EYFG Clutch Tools: EYFA40B
- Tool Hanger for EYFL 10.8V & 14.4V Mechanical Pulse Tools: EYFLM-H
- Tool Hanger for EYFP 21.6V Mechanical Pulse Tools: EYFA41B
### Battery Pack/Battery Charger – Assembly Tool Compatibility Chart

<table>
<thead>
<tr>
<th>MODELS</th>
<th>BATTERY</th>
<th>VOLTAGE</th>
<th>CHARGING TIMES</th>
<th>CHARGER</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYFB60B</td>
<td>4.2Ah</td>
<td>21.6V</td>
<td>65 min : 85 min</td>
<td>EYLA2B</td>
</tr>
<tr>
<td>EYFGA1N</td>
<td>4.2Ah</td>
<td>14.4V</td>
<td>35 min : 40 min</td>
<td>EYLA2B</td>
</tr>
<tr>
<td>EYFB42B</td>
<td>4.2Ah</td>
<td>10.8V</td>
<td>50 min : 60 min</td>
<td>EYLA2B</td>
</tr>
<tr>
<td>EYFB30B</td>
<td>4.2Ah</td>
<td>7.2V</td>
<td>35 min : 45 min</td>
<td>EYLA2B</td>
</tr>
</tbody>
</table>

### Mechanical Pulse Tool Working Capacities

<table>
<thead>
<tr>
<th>MODELS</th>
<th>EYFLA4A</th>
<th>EYFLA5A/5AR</th>
<th>EYFLA5P/5PR</th>
<th>EYFLA5Q/5QR</th>
<th>Application Capacity/Working Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYFB41B</td>
<td>2.0Ah</td>
<td>approx. 1200 pcs/pack</td>
<td>approx. 1100 pcs/pack</td>
<td>approx. 1000 pcs/pack</td>
<td>Hard Joint 30°</td>
</tr>
<tr>
<td>EYFLA6A</td>
<td>3.0Ah</td>
<td>approx. 800 pcs/pack</td>
<td>approx. 700 pcs/pack</td>
<td>approx. 600 pcs/pack</td>
<td>Soft Joint 720°</td>
</tr>
</tbody>
</table>

### Precision Clutch Tool Working Capacities

<table>
<thead>
<tr>
<th>MODELS</th>
<th>EYFLA5N</th>
<th>Application Capacity/Working Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYFLA5A</td>
<td>3.0Ah</td>
<td>Screws in Sheet Metal (M4.5 x 5/16&quot;) Low: approx. 1450 pcs</td>
</tr>
<tr>
<td>EYFLA6A</td>
<td>3.0Ah</td>
<td>Screws in Sheet Metal (M4.5 x 5/16&quot;) High: approx. 1900 pcs</td>
</tr>
<tr>
<td>EYFLA5P</td>
<td>3.0Ah</td>
<td>Screws in Sheet Metal (M5 x 5/16&quot;) High: approx. 1900 pcs</td>
</tr>
</tbody>
</table>

### Low Torque Clutch Tool and Driver Working Capacities

<table>
<thead>
<tr>
<th>MODELS</th>
<th>Application Capacity/Working Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYL20B</td>
<td>Screws in Sheet Metal (M4 x 3/8&quot;) Low: approx. 1450 pcs</td>
</tr>
</tbody>
</table>

### Oil Pulse Tool Working Capacities

<table>
<thead>
<tr>
<th>MODELS</th>
<th>Application Capacity/Working Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYFLA5N</td>
<td>Screws in Sheet Metal (M4 x 5/16&quot;) Low: approx. 1450 pcs</td>
</tr>
</tbody>
</table>

---

**Battery Pack/Battery Charger – Assembly Tool Compatibility Chart**

**Battery Model**

- **EYFB41B (2.0Ah)**
- **EYFB42B (4.2Ah)**
- **EYFB60B (4.2Ah)**

**Voltage Levels**

- **21.6V**
- **14.4V**
- **10.8V**
- **7.2V**

**Charging Times**

- **Full Charge**: 65 min : 85 min
- **Usable**: 35 min : 40 min
- **60 min** : 80 min

**Charger Compatibility**

- **EYLA2B**

---

**Mechanical Pulse Tool Working Capacities**

**Application Speed**

- **(M6 - 5.5Nm)**
- **(M6 - 8Nm)**
- **(M6 - 10Nm)**

**Maximum Torque**

- **60 Nm**

**Screws Capacity**

- **2000 pcs/pack**

**Product Spaceful**

- **M6**: 10Nm Stage: 19
- **M8**: 23Nm Stage: 22
- **M10**: 43Nm Stage: 23

---

**Precision Clutch Tool Working Capacities**

**Application Speed**

- **(M4 x 3/8")**
- **(M4 x 5/16")**

**Maximum Torque**

- **(M4 - 5.5Nm)**

**Screws Capacity**

- **approx. 1200 pcs/pack**

**Product Spaceful**

- **M6**: 10Nm Stage: 23

---

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

**Application Speed**

- **(M4 x 3/8")**
- **(M2.5 x 1/4")**
- **(M4 x 3/8")**

**Maximum Torque**

- **5.5Nm**

**Screws Capacity**

- **approx. 1200 pcs/pack**

**Product Spaceful**

- **M4**: 10Nm Stage: 19

---

**Oil Pulse Tool Working Capacities**

**Application Speed**

- **(M3 x 1/8")**
- **(M4 x 1/8")**

**Maximum Torque**

- **5.5Nm**

**Screws Capacity**

- **approx. 1200 pcs/pack**

**Product Spaceful**

- **M4**: 10Nm Stage: 19
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, it’s 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.

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.

**Dust Protection**

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

**Water Protection**

- **Level 6**: Protected against powerful water jets
- **Level 5**: Protected against water jets
- **Level 4**: Protected against splashing water
- **Level 3**: Protected against spraying water
- **Level 2**: Protected against vertically falling water drops when enclosure tilted up to 15°
- **Level 1**: Protected against vertically falling water drops

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

**Tough. Durable. Innovative.**

**Cordless Tools with high-end features.**

**Tough Environmental Conditions**
- Dust Resistance
- Water Resistance

**IP56**

**Tough Usage**
- High Durability
- Long Life
- High Capacity

**Task Efficiency Innovation**
- Work Speed
- Comfortable
- Convenience

- **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.

- **Long-lasting, Brushless Motor**
  No Brushes! Replacement is not necessary.

- **Multi-task with a single tool**
  Separate wiring system

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

**Important Features**
- High power/high speed drilling/cutting
- Easy-to-hold, ergonomic design
- Electronic switch
  - The switch only requires the amount of electrical current used for controlling speed and brake.
- No Brushes! Replacement is not necessary.
- Electronic switch
  - Separate wiring system
- Impact mode
- Drill & Driver mode
- Drill & Driver mode

**Environmental Conditions**
- **Dust Resistance**
- **Water Resistance**
- **IP56**

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

**Task Efficiency**
- Work Speed
- Comfortable
- Convenience

**Innovation**
- **Work Speed**
- **Comfortable**
- **Convenience**

**Tough Usage**
- High Durability
- Long Life
- High Capacity

**Impact mode**

**Drill & Driver mode**

**Drill & Driver mode**

**Impact mode**

**Impact mode**

**Impact mode**

**Impact mode**

**Impact mode**
Panasonic’s Lithium Durable, Lightweight
4.2Ah Battery Pack! and Extended Run Time.

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.

4.2Ah Li-ion Battery = Longer Battery Capacity

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

Bolting 350 pcs
M12 x 1 1/8” *Impact Wrench 18V EY75A5

Cutting yellow pine 80 pcs
*Reciprocating Saw 18V EY45A1

Approx. 27%
More working capacity per charge

Holes in Yellow Pine dia. 11/16” x 4-3/4” *Drill & Driver 18V EY74A1

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

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

Panasonic’s Lithium Nickel 4.2Ah Battery Pack!

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

4.2Ah Li-ion Battery = Longer Battery Capacity

Holes in Yellow Pine dia. 11/16” x 4-3/4” *Drill & Driver 18V EY74A1

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

Bolting 350 pcs
M12 x 1 1/8” *Impact Wrench 18V EY75A5

Cutting yellow pine 80 pcs
*Reciprocating Saw 18V EY45A1

More working capacity per charge

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[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

Panasonic’s Lithium Nickel 4.2Ah Battery Pack!

Battery
Flashing lamp indicates low battery.
Flashing lamp indicates overheating battery.
Battery is automatically reactivated when the temperature drops.
Panasonic introduces the latest technology in digital cordless tools.

**Li-ion Power Tool Line-Up**

3.6V
- EY7411LA2S Drill & Driver
- EY7410LA2S Drill & Driver

14.4V
- EY7441LR2S Drill & Driver
- EY7549X Multi-Impact & Drill Driver
- EY7940LR2S Hammer Drill & Driver
- EY4542LR2M Multi-Purpose Metal Cutter
- EY4440X Angle Grinder

14.4V / 18V Series with Dual Voltage
- EY74A1LS2G Drill & Driver
- EY75A4LS2G Impact Driver
- EY75A5LS2G Impact Wrench
- EY45A1LS1S Reciprocating Saw

14.4V / 18V
- EY7450LS2S Drill & Driver
- EY7550LS2S Drill & Driver
- EY7552X Angle Grinder

18V
- EY7450LR2S Drill & Driver
- EY7950LR2S Hammer Drill & Driver
- EY7940LR2S Hammer Drill & Driver
- EY7552X Impact Wrench
- EY7880LP2S SDS-Plus Rotary Hammer

28.8V
- EY75A4LS2G Impact Driver

Power Supply Kits
- EY45A1LS2G Drill & Driver
- EY45A1LS1S Reciprocating Saw

**Ni-MH Power Tool Line-Up**

Combo Kits
- EYC144V33 14.4V 3.3Ah Combo Kit
- EYC144DV42 14.4V 4.2Ah Combo Kit
- EYC194LR 14.4V 3.3Ah Combo Kit

Ni-MH Power Tool Line-Up
- EY6432NQKW Cordless 1/2" Drill & Driver Kit
- EY6449NQKW Cordless 1/2" Drill & Driver Kit
- EY6230NQ Cordless Drill & Driver Kit
- EY3530NQMKW Cordless Metal Cutter Kit
- EYC136NQKW Metal Combo Kit
Dual Voltage Technology

Versatility, High Performance and Extreme Run Time!

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.

Dual Voltage Circuit

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

The new series with dual voltage line up

14.4V
4.2Ah S type EY9L51B
3.3Ah R type EY9L50B

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

EY74A1LS2G Drill & Driver
EY75A4LS2G Impact Driver
EY75A5LS2G Impact Wrench
EY45A1LS1G Reciprocating Saw
**Cordless 1/2” Impact Wrench**

- **Brushless Motor, Variable Speed, 1/2” Square Drive with 1/4” Quick Change Adapter Included.**
- **Dual voltage – accepts either 14.4V or 18V Panasonic Li-ion batteries**
- **High capacity 4.2Ah Li-ion battery (optional)**
- **High power: Impact Mode: 1,815 in. lbs. (151 ft. lbs.)**
- **Brushless motor and hybrid switch**
- **Variable speed trigger/reversible**
- **1/2” Square drive with 1/4” quick change adapter (EY9HX111E)**
- **Electric brake**
- **LED work light**
- **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**

<table>
<thead>
<tr>
<th>Tool Specs</th>
<th>Max. Torque</th>
<th>1,815 in. lbs.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed at No Load</td>
<td>0 - 2,500 rpm</td>
<td></td>
</tr>
<tr>
<td>Impact/min.</td>
<td>0 - 3,000 rpm</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

**EY75A5LS2G / EY75A5X**

**Cordless 1/4” Hex Impact Driver**

- **Brushless Motor with Variable Speed for Increased Control**
- **Dual voltage – accepts either 14.4V or 18V Panasonic Li-ion batteries**
- **High power: Impact Mode: 1,370 in. lbs. (114 ft. lbs.)**
- **Brushless motor and hybrid switch**
- **Variable speed trigger/reversible**
- **1/4” Hex quick connect collet**
- **LED work light**
- **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**

<table>
<thead>
<tr>
<th>Tool Specs</th>
<th>Max. Torque</th>
<th>1,370 in. lbs.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed at No Load</td>
<td>0 - 2,300 rpm</td>
<td></td>
</tr>
<tr>
<td>Impact/min.</td>
<td>0 - 3,500 rpm</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

**EY75A4LS2G / EY75A4X**

**Impact Driver**

- **Faster and long lasting**
- **Lighter weight for overhead use**

**Impact Wrench**

- **Faster and long lasting**
- **Light weight for overhead use**

**TYPICAL APPLICATION**
- **Construction**
- **General Industry**
- **Automotive/Truck Repair and Maintenance**
- **HVAC**
- **Maintenance**
- **Recreational Vehicles**
**High Torque Impact Wrench**

470Nm (344 ft. lbs.) High Torque Impact, 1/2" Square Drive, Compact & Light Weight

- High torque output 470Nm (344 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 EY9L82B charger): Usable: 55 minutes Full: 70 minutes

**Tool Specs**

<table>
<thead>
<tr>
<th>Max. Torque</th>
<th>470Nm (344 ft. lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed at No Load</td>
<td>0 - 1,550 rpm</td>
</tr>
<tr>
<td>Impact/min.</td>
<td>0 - 2,400 rpm</td>
</tr>
</tbody>
</table>

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

---

**Multi-Impact & Drill Driver**

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

**EY7549X**

- 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 (EY9X111E included)
- 2 Speed variable speed drill with 21 stage adjustable clutch
  (Approx.): 6.2 in. lbs. - 38.9 in. lbs.
- Variable Speed/Reversible:
  - Impact Mode: 0-2,350 rpm
  - Drill & Driver Mode: High 180-1,200 rpm Low: 60-380 rpm
- Impact/min.: 0-5,200 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 3-1/16" (square drive)
- Light weight (incl. Battery): 6.07 lbs. (square drive) 6.52 lbs. (with keyless chuck)
- Charging Time (using EY9L82B charger): Usable: 55 minutes Full: 60 minutes

**Tool Specs**

<table>
<thead>
<tr>
<th>Max. Torque</th>
<th>470Nm (344 ft. lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed at No Load</td>
<td>0 - 2,350 rpm</td>
</tr>
<tr>
<td>Impact/min.</td>
<td>0 - 5,200 ipm</td>
</tr>
</tbody>
</table>

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

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**EY7552LS2S / EY7552X**

Cordless High Torque Impact Wrench Kit

- High 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 (EY9X111E included)
- 2 Speed variable speed drill with 21 stage adjustable clutch
  (Approx.): 6.2 in. lbs. - 38.9 in. lbs.
- Variable Speed/Reversible:
  - Impact Mode: 0-2,350 rpm
  - Drill & Driver Mode: High 180-1,200 rpm Low: 60-380 rpm
- Impact/min.: 0-5,200 ipm in Impact Mode
- Electric brake
- LED work light
- Belt hook
- Low battery indicator
- Compact size (L x H x W): 8-7/16" x 9-15/16" x 3-1/16"
- Light weight (incl. Battery): 5.7 lbs.
- Charging Time (using EY9L82B charger): Usable: 60 minutes Full: 70 minutes

**Tool Specs**

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<td>Speed at No Load</td>
<td>0 - 1,550 rpm</td>
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<tr>
<td>Impact/min.</td>
<td>0 - 2,400 rpm</td>
</tr>
</tbody>
</table>

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

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**EY7554LY**

High Torque Impact Wrench

470Nm (344 ft. lbs.) High Torque Impact, 1/2" Square Drive, Compact & Light Weight

- High torque output 470Nm (344 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 EY9L82B charger): Usable: 55 minutes Full: 70 minutes

**Tool Specs**

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

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**EY7554X**

Cordless Multi-Tool Impact & Drill Driver

- 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 (EY9X111E included)
- 2 Speed variable speed drill with 21 stage adjustable clutch
  (Approx.): 6.2 in. lbs. - 38.9 in. lbs.
- Variable Speed/Reversible:
  - Impact Mode: 0-2,350 rpm
  - Drill & Driver Mode: High 180-1,200 rpm Low: 60-380 rpm
- Impact/min.: 0-5,200 ipm in Impact Mode
- Electric brake
- LED work light
- Belt hook
- Low battery indicator
- Compact size (L x H x W): 8-7/16" x 9-15/16" x 3-1/16"
- Light weight (incl. Battery): 5.7 lbs.
- Charging Time (using EY9L82B charger): Usable: 60 minutes Full: 70 minutes

**Tool Specs**

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

---

**EY9X003E**

Standard Accessory 1/2" Square Drive

**EY9X111E**

Standard Accessory 1/4" Hex quick change adapter

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

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

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**Cordless 1/2'' Drill & Driver Kit**

**EY74A1LS2G / EY74A1X**
- 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 9-1/32" x 2-5/16"  
- Light weight (incl. battery): 3.60 lbs.
- Variable speed/reversible: Low: 60-600 rpm  High: 220-1,750 rpm  
- Clutch Torque (Approx.) 1-3/8 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.

**EY7441LR2S**
- 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: 200-1,400 rpm  
- Clutch Torque (Approx.) 6-39.0 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 - (EY9L50B) 3.3Ah 18V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.

**TYPICAL APPLICATION**
- General Construction
- Plumbing
- Finishing Carpentry
- Electric Installation Work
Cordless Drill & Driver Kit

EY7410LA2S / EY7410LA1C

- 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
- Low battery indicator
- 1/4” Hex quick change chuck
- Kit includes 1 - EY7410LA1S, 1 - (EY9L10B) 1.5Ah 3.6V Li-ion Battery, 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”

EY7411LA1S

- 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
- Rebit 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
- Low battery indicator
- 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
- Yellow LED work light which reduces glare
- Long lasting 1.5Ah Li-ion battery
- Cap for clutch lock out
- Kit includes 1 - EY7411LA1S, 1 - (EY9L10B) 1.5Ah 3.6V Li-ion Battery, 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”

TYPICAL APPLICATION
• Rack/Cabinet installers
• Electricians
• Electronics Assembly
• Service engineers

*Charging times are approximate and may be slightly longer depending on conditions.
Hammer Drill & Driver

High power drilling in masonry, wood, metal.

**Cordless Hammer Drill & Driver Kit**

**EY7950LS2S**
- High capacity: 4.2Ah Li-ion battery
- 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): 5.00 lbs.
- High performance as regular drill: Max. Torque: 505 in. lbs.
- Variable speed control/reversible: Low: 50-430 rpm High: 200-1,450 rpm
- Clutch Torque (approx.): 8.8-61.0 in. lbs. (3.0 in. lbs. per stage, total 16 stage)
- High speed masonry drilling: Max. 1,450 rpm / 29,700 bpm
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)*: Usable: 60 minutes Full: 95 minutes
- Electric brake
- LED work light
- Low battery indicator
- Kit includes 1 - EY7950, 2 - (EY9L51B) 4.2Ah 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"

**EY7950LR2S**
- High capacity: 3.3Ah Li-ion battery
- Compact size (L x H x W): 9-1/4" x 9-3/4" x 2-1/2"
- Light weight: 5.00 lbs.
- High performance as regular drill: Max. Torque: 505 in. lbs.
- Variable speed control/reversible: Low: 50-430 rpm High: 200-1,450 rpm
- Clutch Torque (approx.): 8.8-39.0 in. lbs. (1.8 in. lbs. per stage, total 18 stage)
- High speed masonry drilling: Max. 1,450 rpm / 29,700 bpm
- 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 - 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"

**EY7940LR2S**
- 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: 200-1,400 rpm
- Clutch Torque (approx.): 8.8-39.0 in. lbs. (1.8 in. lbs. per stage, total 18 stage)
- High speed masonry drilling: Max. 1,400 rpm / 29,700 bpm
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)*: Usable: 50 minutes Full: 70 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. 1-3/8" in Mortar/Brick dia. 1/2"

**TYPICAL APPLICATION**
- Electricians
- General construction
- Interior installation
- Masonry drilling
- Masonry/wood fastening
- Interior installation
- Heating, water & sanitation technicians

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

**EY7940LS2S**
- High capacity: 4.2Ah Li-ion battery
- Compact size (L x H x W): 7-7/8" x 9-1/8" x 2-3/8"
- Light weight: 5.00 lbs.
- High performance as regular drill: Max. Torque: 505 in. lbs.
- Variable speed control/reversible: Low: 50-430 rpm High: 160-1,650 rpm
- Clutch Torque (approx.): 8.8-61.0 in. lbs. (3.0 in. lbs. per stage, total 16 stage)
- Max. Torque at drilling position-stage 16
- Blows Rate per Minute: Low: 900-7,740 bpm High: 2,880-29,700 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. 1-3/8" in Mortar/Brick dia. 1/2"

**TYPICAL APPLICATION**
- Electricians
- General construction
- Interior installation
- Masonry drilling
- Masonry/wood fastening
- Interior installation
- Heating, water & sanitation technicians

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

**18V**

**14.4V**
Cordless SDS-Plus Rotary Hammer Kit

• High capacity 3.0Ah 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 - 4,500 bpm Low: 0 - 2,800 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: 60 minutes
  - Full: 80 minutes
• LED work light
• Low battery indicator
• Kit includes 1 - EY7880, 2 - (EY9L81B) 3.0Ah 28.8V Li-ion Batteries, 1 - (EY0L82B) Charger, and Case.

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.

Excellent cooling/dust-proof design supports continuous use

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).

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 causing problems with the motor.

Magnesium metal gear case

Optional Accessories

SDS-Plus Chiseling Attachment For light chiseling EY9HX402E

SDS-Plus Drill Chuck For 1/16” dia. – 1/2” dia. bit. EY9HX400E

TYPICAL APPLICATION

• Concrete drilling
• Masonry drilling

Carefully designed for ease of use. Supported functions.

Standard Accessory

Dust collection cup

White LED light

For light chiseling

Large cooling fan

Built-in meter

Dust-proof switch

Air intake

Emission

Grip width of our EY6813

Two-finger switch

Easy to hold, resists fatigue!

Two-Speed Selection

Powerful, light and tough for continuous use!

EY7880LP2S

SDS-Plus Rotary Hammer

SDS-Plus Rotary Hammer Kit

Easy to hold, resists fatigue!

ED6813

Grip width of our EY6813

Two-finger switch

TYPICAL APPLICATION

• Concrete drilling
• Masonry drilling

Carefully designed for ease of use. Supported functions.

Standard Accessory

Dust collection cup

White LED light

For light chiseling

Large cooling fan

Built-in meter

Dust-proof switch

Air intake

Emission

Grip width of our EY6813

Two-finger switch

Easy to hold, resists fatigue!

Two-Speed Selection

Powerful, light and tough for continuous use!
Cordless Reciprocating Saw Kit

- Dual voltage – accepts either 14.4V or 18V Panasonic Li-ion batteries
- High capacity 4.2Ah Li-ion battery
- Powerful Cutting (stroke length 1-1/8", 0-2,800spm)
- 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.

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

TYPICAL APPLICATION
- Carpentry
- Plumbing
- Electrician
- Installation
- Demolition

EY45A1X: Battery pack and battery charger are not included.

**Reciprocating Saw**

Long Lasting for continuous use

**18V**

Powerful cutting through thick metal pipe

**14.4V**

Fast cutting through thin metal pipe

**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.

**Replacement Blade**

*Not available as an accessory

**Metal Blade**

Standard
- Bi-metal blade
- 14 teeth per inch
- Blade length: 5-7/8"

**Wood Blade**

Standard
- carbon tool steels
- 5 teeth per inch
- Blade length: 9-7/16"

**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.

**Anti vibration**

Spring inside tool absorbs shock for less fatigue.

**EY45A1LS1G/EY45A1X**
Cordless Multi-Purpose Metal Cutter Kit

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

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

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)

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

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
Cordless Angle Grinder

- 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: 9,500 rpm
- Wheel diameter: 4-1/2”
- Slim grip
- On lock warning lamp function
- Low battery indicator
- Replaceable carbon brushes
- Charging Time (using EYL0B2 charger)*:
  - Usable: 40 minutes  Full: 55 minutes
- Electronic Performance Monitoring System
- Accepts Panasonic 14.4V Li-ion battery packs.

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

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

Backed by a 3-year warranty.

EY37C1B

- Triple voltage – accepts either 14.4V, 18V or 21.6V Panasonic Li-ion batteries
- Brightness of approx. 4,000 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.

Acceptable Battery Packs and Hours of Use
- With 21.6V Li-ion battery pack EYL6A1B: Approx. 6 hours 20 minutes
- With 18V Li-ion battery pack EYL6A1B: Approx. 6 hours 15 minutes
- With 14.4V Li-ion battery pack EYL6A5B: Approx. 5 hours 30 minutes
- With 14.4V Li-ion battery pack EYL6A5B: Approx. 5 hours 10 minutes
- With 14.4V Li-ion battery pack EYL6A4B: Approx. 4 hours 30 minutes
- With 14.4V Li-ion battery pack EYL6A1B: Approx. 4 hours 10 minutes
- With 14.4V Li-ion battery pack EYL6A2B: Approx. 2 hours

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

14.4V / 10V / 21.6V

EY37C1B: Battery pack and battery charger are not included.
EYC194LR

14.4V 3.3Ah Combo Kit

- 1 - EY7441 (Body): 14.4V Drill & Driver
- 1 - EY6542 (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 66-67

EYC941B

14.4V Power Supply Kit

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

EYC950B

18V Power Supply Kit

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

EYC144V33

14.4V 3.3Ah Combo Kit

- 1 - EY7441 14.4V Drill & Driver
- 2 - EY9L44B 14.4V 3.3Ah Battery Packs
- 1 - Carry Bag
- 1 - EY75A1 Dual Voltage Impact Driver
- 1 - EY0L82B Charger

EYC144DV42

14.4V 4.2Ah Combo Kit

- 1 - EY74A1 Dual Voltage Drill & Driver
- 2 - EY9L45B 14.4V 4.2Ah Battery Packs
- 1 - Carry Bag
- 1 - EY75A1 Dual Voltage Impact Driver
- 1 - EY0L82B Charger

EYC18DV42

18V 4.2Ah Combo Kit

- 1 - EY75A1 Dual Voltage Drill & Driver
- 2 - EY9L51B 18V 4.2Ah Battery Packs
- 1 - Carry Bag
- 1 - EY75A1 Dual Voltage Impact Driver
- 1 - EY0L82B Charger
Cordless Drill & Driver Kit

- **EY6220NQ**
  - **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: 600 rpm
  - **Clutch Torque (approx.):** 3.5, 6.3, 9.1, 11.9, 14.7, 17.5 in. lbs.  (multi-stage)  (Max. Torque at 6 position)
  - **Easily converts from straight to pistol form**
  - **2-speed gear box**
  - **Multi-stage clutch plus drill**
  - **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 - 1-(EY0L11B) Charger.**

Cordless Metal Cutter Kit

- **EY3530NQMKW**
  - **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:** 3,100 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.**

Metal Combo Kit

- **EYC136NQKW**
  - **15.6V**
  - **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: 180-1,300 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**
  - **Electric brake**
  - **New ergonomic design**
  - **Kit includes 1 - EY6409, 2 - (EY9200B) 2.8Ah 12V Ni-MH Batteries, 1 - 1-(EY0110B) Charger, and Case.**

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 - 650 rpm  High: 200 - 1,450 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**
  - **Electric brake**
  - **New ergonomic design**
  - **Kit includes 1 - EY6432, 2 - (EY9230B) 2.8Ah 15.6V Ni-MH Batteries, 1 - (EY0110B) Charger, and Case.**

- **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: 370 in. lbs.**
  - **Variable speed control/reversible: Low: 65 - 650 rpm  High: 200 - 1,450 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**
  - **Electric brake**
  - **New ergonomic design**
  - **Kit includes 1 - EY6409, 2 - (EY9200B) 2.8Ah 12V Ni-MH Batteries, 1 - 1-(EY0110B) Charger, and Case.**

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

**TYPICAL APPLICATION**
- General construction
- Finishing carpentry
- Electric installation work
- Plumbing

**Replacement Blades**
- Blade size: dia. 5-5/16”
### 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

<table>
<thead>
<tr>
<th>TYPE OF BATTERY</th>
<th>Charger</th>
<th>Model</th>
<th>Battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Li-ion</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>28.8V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>21.6V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>18V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>14.4V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>12V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>9.6V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>7.2V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>Charging Time</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
</tbody>
</table>

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

- Accepts Panasonic’s 2.4V-3.6V Battery Packs [See below for details]

<table>
<thead>
<tr>
<th>TYPE OF BATTERY</th>
<th>Charger</th>
<th>Model</th>
<th>Battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Li-ion</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>3.6V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>2.4V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>Charging Time</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
</tbody>
</table>

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

- Accepts Panasonic’s 2.4V-3.6V Battery Packs [See below for details]

<table>
<thead>
<tr>
<th>TYPE OF BATTERY</th>
<th>Charger</th>
<th>Model</th>
<th>Battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Li-ion</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>3.6V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>2.4V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>Charging Time</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>TYPE OF BATTERY</th>
<th>Charger</th>
<th>Model</th>
<th>Battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ni-MH</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>2.4V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>1.8V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>1.5V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>1.2V EY9L82B</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>Charging Time</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
</tbody>
</table>

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

---

**Battery Pack / Battery Charger - Compatibility Chart**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Model</th>
<th>Battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>28.8V</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>18V</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>15.6V</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>12V</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>9.6V</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
<tr>
<td>7.2V</td>
<td>EY9L82B</td>
<td>EY7880</td>
</tr>
</tbody>
</table>

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

---

*Charging times are approximate and may be slightly longer depending on conditions.*
## Li-ion Capacity Table

### Impact Driver

<table>
<thead>
<tr>
<th>Voltage</th>
<th>18V</th>
<th>14.4V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>EY9L44B (LR)</td>
<td>EY9L44B (LR)</td>
</tr>
<tr>
<td>Model No.</td>
<td>EY7950LS2S</td>
<td>EY7950LR2S</td>
</tr>
</tbody>
</table>

### High Torque Impact Wrench

<table>
<thead>
<tr>
<th>Voltage</th>
<th>18V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>EY9L82B</td>
</tr>
<tr>
<td>Model No.</td>
<td>EY7940LR2S</td>
</tr>
</tbody>
</table>

### SDS-Plus Rotary Hammer

<table>
<thead>
<tr>
<th>Voltage</th>
<th>18V, 15.6V, 12V, 2.4V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>EY9L44B (LR)</td>
</tr>
<tr>
<td>Model No.</td>
<td>EY9PM13C</td>
</tr>
</tbody>
</table>

## Multi-Impact & Drill Driver

<table>
<thead>
<tr>
<th>Voltage</th>
<th>18V, 14.4V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>EY9L45B (LS)</td>
</tr>
<tr>
<td>Model No.</td>
<td>EY7549X</td>
</tr>
</tbody>
</table>

## Hammer Drill & Driver

<table>
<thead>
<tr>
<th>Voltage</th>
<th>18V, 10.8V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>EY9L45B (LS)</td>
</tr>
<tr>
<td>Model No.</td>
<td>EY7552LS2S</td>
</tr>
</tbody>
</table>

## Steel Pipe for Ordinary Piping

<table>
<thead>
<tr>
<th>Voltage</th>
<th>18V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>EY9L44B (LR)</td>
</tr>
<tr>
<td>Model No.</td>
<td>EY4542LR2M</td>
</tr>
</tbody>
</table>

## Ni-MH Capacity Table

<table>
<thead>
<tr>
<th>Voltage</th>
<th>18V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>EY9L51B (LS)</td>
</tr>
<tr>
<td>Model No.</td>
<td>EY9PM13C</td>
</tr>
</tbody>
</table>

## Metal Cutter

<table>
<thead>
<tr>
<th>Voltage</th>
<th>18V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>EY9L51B (LS)</td>
</tr>
<tr>
<td>Model No.</td>
<td>EY7420LA2S</td>
</tr>
</tbody>
</table>

---

*This information is an average value. The actual number of revolutions may vary depending on the battery condition, the sharpness of the drill bit, the material hardness, etc.

*With extension: 180 pcs

*Capacity if using EY9L44B battery pack.
## Standard / Optional Accessory Chart

### Standard / Optional

<table>
<thead>
<tr>
<th>Voltage</th>
<th>14.4V/18V</th>
<th>14.4V/18V/21.6V</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model No.</strong></td>
<td><strong>EY9L82B</strong></td>
<td><strong>EY9L82B</strong></td>
</tr>
<tr>
<td>28.8V Battery Pack (3.0Ah Li-ion Battery Type P)</td>
<td>EY9L82B</td>
<td>EY9L82B</td>
</tr>
<tr>
<td>27.6V Battery Pack (4.2Ah Li-ion Battery Type S)</td>
<td>EY9L62B</td>
<td>EY9L62B</td>
</tr>
<tr>
<td>18V Battery Pack (3.3Ah Li-ion Battery Type R)</td>
<td>EY9L50B</td>
<td>EY9L50B</td>
</tr>
<tr>
<td>18V Battery Pack (4.2Ah Li-ion Battery Type S)</td>
<td>EY9L51B</td>
<td>EY9L51B</td>
</tr>
<tr>
<td>15.6V Battery Pack (2.8Ah Ni-MH Battery Type N)</td>
<td>EY9230B</td>
<td>EY9230B</td>
</tr>
<tr>
<td>14.4V Battery Pack (3.3Ah Li-ion Battery Type R)</td>
<td>EY9L44B</td>
<td>EY9L44B</td>
</tr>
<tr>
<td>14.4V Battery Pack (4.2Ah Li-ion Battery Type S)</td>
<td>EY9L45B</td>
<td>EY9L45B</td>
</tr>
<tr>
<td>12V Battery Pack (2.8Ah Ni-MH Battery Type N)</td>
<td>EY9200B</td>
<td>EY9200B</td>
</tr>
<tr>
<td>3.6V Battery Pack (1.2Ah Li-ion Battery Type L)</td>
<td>EY9L10B</td>
<td>EY9L10B</td>
</tr>
<tr>
<td>2.4V Battery Pack (2.8Ah Ni-MH Battery Type N)</td>
<td>EY9211B</td>
<td>EY9211B</td>
</tr>
<tr>
<td>Power Supply Kit</td>
<td>EY9C411B</td>
<td>EY9C411B</td>
</tr>
<tr>
<td>Power Supply Kit</td>
<td>EY9C410B</td>
<td>EY9C410B</td>
</tr>
<tr>
<td>Charger for Li-ion</td>
<td>EY9L11B</td>
<td>EY9L11B</td>
</tr>
<tr>
<td>Charger for Ni-MH &amp; Ni-Cd Battery (7.2-24V)</td>
<td>EY9L10B</td>
<td>EY9L10B</td>
</tr>
<tr>
<td>Charger for Li-ion, Ni-MH battery</td>
<td>EY9L11B</td>
<td>EY9L11B</td>
</tr>
<tr>
<td>Attachable 1/2&quot; to 1/4&quot; Quick Change Adapter</td>
<td>EY9H111E</td>
<td>EY9H111E</td>
</tr>
<tr>
<td>Attachable 1/2&quot; Keyless Drill Chuck for EY7549</td>
<td>EY9K03E</td>
<td>EY9K03E</td>
</tr>
<tr>
<td>1/2&quot; Keyless Chuck for 18V and 21.6V Drills</td>
<td>EY7H015E</td>
<td>EY7H015E</td>
</tr>
<tr>
<td>1/2&quot; Keyless Chuck for EY7441 and EY7940</td>
<td>EY9H041E</td>
<td>EY9H041E</td>
</tr>
<tr>
<td>1/2&quot; Keyless Drill Chuck for EY7950</td>
<td>EY9H042E</td>
<td>EY9H042E</td>
</tr>
<tr>
<td>Carbide-Tipped Blade for Metal</td>
<td>EYPP13C</td>
<td>EYPP13C</td>
</tr>
<tr>
<td>Carbide-Tipped Blade for Wood</td>
<td>EYPP13A</td>
<td>EYPP13A</td>
</tr>
<tr>
<td>Rip Fence</td>
<td>EY9508B727</td>
<td>EY9508B727</td>
</tr>
<tr>
<td>Dust collection cup</td>
<td>EY9K03E</td>
<td>EY9K03E</td>
</tr>
<tr>
<td>Clutch Lock Cover</td>
<td>EY9K00E</td>
<td>EY9K00E</td>
</tr>
</tbody>
</table>