## **Assembly Tools**

#### **Panasonic**

**Bringing Innovation to the Assembly Line** 



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#### **Assembly Tools Product Line-up**

#### **Mechanical Pulse Tools**



10.8V, 3-22Nm



10.8V, 6-30Nm



10.8V, 6-30Nm



10.8V, 6-30Nm



10.8V, 16-53Nm

1000



10.8V, 16-53Nm









14.4V, 25-100Nm

EYFMA1P 14.4V, 25-100Nm

EYFPA1J 21.6V, 160-650Nm

#### Wireless Mechanical Pulse Tools



EYFLA4AR 10.8V, 3-22Nm



**EYFLA5AR** 10.8V, 6-30Nm



**EYFLA5PR** 10.8V, 6-30Nm



EYFLA5QR 10.8V, 6-30Nm



EYFLA6JR 10.8V, 16-53Nm



EYFLA6PR 10.8V, 16-53Nm



EYFMA1JR 14.4V, 25-100Nm



EYFMA1PR 14.4V, 25-100Nm



EYFPA1JR 21.6V, 160-650Nm

#### **Basic Clutch Tools**



EYFGB1N 14.4V, 2-5.5Nm



EYFGB2N 14.4V, 5-8Nm



EYFGB3N 14.4V, 5-10Nm

#### **Programmable Clutch Tools**











**EYFGA3N** 14.4V, 5-10Nm

Wireless Programmable Clutch Tools







**EYFGA2NR** 14.4V, 5-8Nm



**Wireless Receivers** 



EYFR02B Single Tool Qualifier Multi-Tool Qualifier



Oil Pulse Tool



**Low Torque Clutch Tool** 



#### **Panasonic Cordless Assembly Tools**

#### **Bringing Innovation to the Assembly Line**

#### **Benefits**

#### Safer Work Environment

#### **Improved Ergonomics**

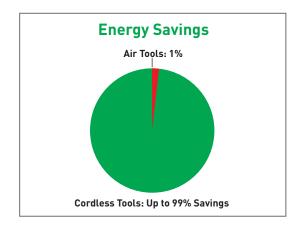
Lightweight and compact, no air hose to drag around.

#### **Eliminate Trip Hazards**

Removes dangerous air hoses and provides a clear work area.

#### **Improved Air Quality**

Eliminates airborne oily residue emitted from air tools.



#### 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.



#### **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.



# Precision Clutch Tools Ergonomic, Accurate & Repeatable

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







Basic Clutch Tools

Programmable Clutch Tools\*

Wireless Programmable Clutch Tools\*\*

#### Programmable "Quick Set" Features

#### **Speed Control**

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

#### **Cross Thread Reduction**

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

#### **Cross Thread / Rehit Detection**

If the clutch is activated before the programmable minimum runtime, the tool stops the fastening process and signals a NOK fastening.

#### **Auto Downshift**

After a programmable period of time, the rpm automatically downshifts to 300 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.



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

#### Buzzer

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

\*In ≥3Nm Range. 5



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





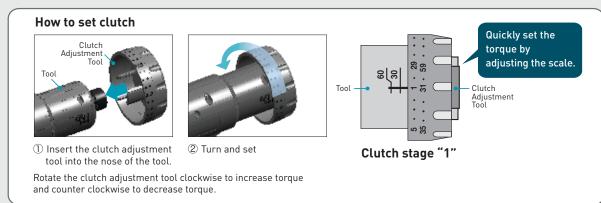


**Basic Clutch Tools** 

**Programmable Clutch Tools** 

Wireless Programmable Clutch Tools

#### 60 Stage adjustable clutch



#### **Advanced Fastening Features**

#### **Cross Thread Reduction**



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

# Reverse Rotation!

Product damage

360° reverse rotation The screws threads are aligned with

**Auto Downshift Function** 

Reducing the fasteners impact

to the material

Automatically

After a programmable

period of time, the rpm

automatically down-

shifts to 300 rpm's

productivity.

#### Finished with 3.0 sec. rundown time cross thread

3.0 sec.

Retightening Cross thread

rundown time due to rundown time due to

NOK

If the clutch is activated before the

programmable minimum runtime, the tool

stops the fastening process and signals a

#### Maintenance Interval Alarm

**Cross Thread / Rehit Detection** 

• Example with 3.0 sec. time setting

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

NOK fastening

NOK

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.

#### **Variable Speed Control Function**

Enable variable speed or single speed trigger operation.

#### **Auto Battery Shut Down**

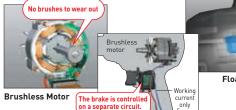
Before the battery power becomes too low to maintain torque, it shuts down the tool and notifies the operator by blinking the LED indicator until a charged battery pack is attached. Standard on all Precision Clutch Tools.

#### **Durable Design**

#### Photo interrupter sensor increases clutch life and tool accuracy



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



**Hybrid Switch** 



#### **Additional Features**



Compact and Lightweight A well balanced compact and light design



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

operators preference

Remote Control

Tool setting can be set only by

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



differentiation Each tool is color coded

for easy identification



#### EYFGA1N / EYFGA1NR / EYFGB1N

#### **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 interrupter sensor increases clutch life and tool accuracy
- Operator Lockout Tamper proof features
- Clutch adjustment tool (included (EYFA32B)) for changing torques
- Remote control (optional (EYFA31B)) required for "Quick Set" Features
- Available 2.0Ah (EYFB41B) & 4.2Ah (EYFB42B) high capacity 14.4V Li-ion battery
- Variable speed trigger/reversible
- 1/4" Hex guick 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

#### PROGRAMMABLE "QUICK SET" FEATURES

- Adjustable speed (10 rpm Increments) and programmable auto downshift
- Prevent and detect cross threads and rehits
- Maintenance interval alarm
- Variable speed enable/disable
- Out of range anti-theft enable/disable (Radio version only)

\*Available in EYFGA1N and EYFGA1NR

#### **ERROR PROOFING FEATURES**

- Compatibility with Panasonic Quality Control Monitoring System (Radio version required)
  - \*Available in EYFGA1NR



Torque Range	2-5.5Nm (17.7-48.6 in. lbs.)
Speed	150 - 800 rpm
Drive	1/4" Hex Quick Change

EYFGA1N/EYFGA1NR/EYFGB1N Battery pack, battery charger and remote control are not included.

#### EYFGA2N / EYFGA2NR / EYFGB2N

#### **Cordless Precision Clutch Tool**

• Torque control range - 5-8Nm (44.2-70.8 in. lbs.)

- High accuracy ±10% at Cmk≥1.67 ISO 5393
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Fast acting all steel clutch for increased durability
- Photo interrupter sensor increases clutch life and tool accuracy
- Operator Lockout Tamper proof features
- Clutch adjustment tool (included (EYFA32B)) for changing torques
- Remote control (optional (EYFA31B)) required for "Quick Set" Features
- 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

#### PROGRAMMABLE "QUICK SET" FEATURES

- Adjustable speed (10 rpm Increments) and programmable auto downshift
- · Prevent and detect cross threads and rehits
- Maintenance interval alarm
- Variable speed enable/disable
- Out of range anti-theft enable/disable (Radio version only)

\*Available in EYFGA2N and EYFGA2NR

#### **ERROR PROOFING FEATURES**

- OK/NOK both visual and audible indicators
- Compatibility with Panasonic Quality Control Monitoring System (Radio version required)

\*Available in EYFGA2NR

Torque Range 5-8Nm (44 2-70 8 in 1hs ) Speed 150-750 rpm 1/4" Hex Quick Change

> EYFGA2N/EYFGA2NR/EYFGB2N: Battery pack, battery charger and remote control are not included.

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

#### EYFGA3N / EYFGA3NR / EYFGB3N

#### **Cordless Precision Clutch Tool**

• Torque control range - 5-10Nm (44.3-88.5 in. lbs.)

- High accuracy ±10% at Cmk≥1.67 ISO 5393
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Fast acting all steel clutch for increased durability
- Photo interrupter sensor increases clutch life and tool accuracy
- Operator Lockout Tamper proof features
- Clutch adjustment tool (included (EYFA32B)) for changing torques
- Remote control (optional (EYFA31B)) required for "Quick Set" Features
- Available 2.0Ah (EYFB41B) & 4.2Ah (EYFB42B) high capacity 14.4V Li-ion battery
- Variable speed trigger/reversible
- 1/4" Hex guick change chuck
- Battery indicator lamp (3 stages) and programmable LED work light (ON/OFF Switch or trigger control)
- Charging time (EYOL82B charger (with 2.0Ah EYFB41B battery))\*: Usable: 35 minutes Full: 40 minutes
- Compact size (L x H x W (with 2.0Ah EYFB41B battery)): 7-13/16" x 9-1/8" x 2-15/16"
- Light weight (with 2.0Ah battery (EYFB41B)): 2.9 lbs.
- Includes 1 Tool body, 1 (EYFA32B) Clutch Adjustment Tool

#### PROGRAMMABLE "QUICK SET" FEATURES

- Adjustable speed (10 rpm Increments) and programmable auto downshift · Prevent and detect cross threads and rehits
- Maintenance interval alarm • Variable speed enable/disable
- Out of range anti-theft enable/disable (Radio version only)

\*Available in EYFGA3N and EYFGA3NR

#### **ERROR PROOFING FEATURES**

- OK/NOK both visual and audible indicators.
- Compatibility with Panasonic Quality Control Monitoring System (Radio version required) \*Available in EYFGA3NR



Torque Range	5-10Nm (44.2-88.5 in. lbs.)
Speed	150 - 450 rpm
Drive	1/4" Hex Quick Change

EYFGA3N/EYFGA3NR/EYFGB3N: Battery pack, battery charger and remote control are not included

**14.4V** 

#### **Cordless Low Torque Clutch Tool and Driver Kit**

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





**7.2V** 

Battery pack and battery charger are not included

#### TYPICAL APPLICATION

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

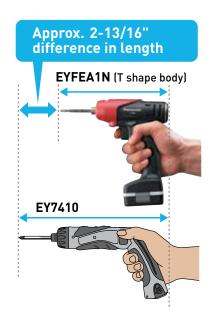
#### **MORE FEATURES**

#### **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.





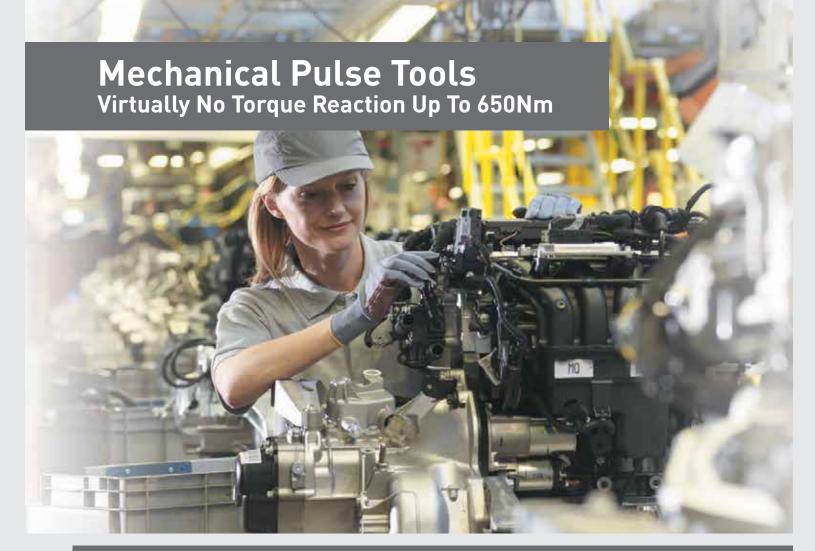




Clutch & High/Low switch lock cover prevents the operator from changing clutch setting or rpm







#### 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 model

#### 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.

#### **EYFPA1 Series Only**

#### **Prevent and Detect Cross Threads and Rehits**

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

#### Maintenance Interval Alarm

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.

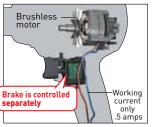
#### Buzzer

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



#### Long life parts provide lower running costs

#### Improved durability of motor and switch





**Hybrid Switch** 

**Brushless motor** 

#### 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.

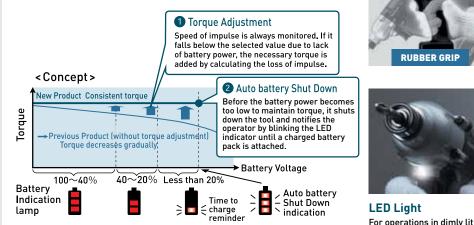


Green light indicates tightening is



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

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



#### **Needle Bearings**



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

#### **Retightening Prevention Function**

#### **Maintaining Good Quality**

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



#### **More Features**



#### Lightweight A well balanced lightweight design means workers will experience less muscle fatigue during



Remote Control

Tool setting can be set only by remote control.



places





#### **Color Plate for Differentiation**

Each tool model is color coded for easy identification.



#### EYFLA4A / EYFLA4AR

#### Cordless Mechanical Pulse Tool

10.8V

- 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)
- 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
- 1/4" Hex quick change chuck
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: rpm) 1: 0-950, 2: 0-1,300, 3: 0-1,450, 4-8: 0-1,550, 9-30 & F: 0-2,300
- Rehit Prevention Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-7/32" x 9-25/32" x 2-61/64"
- Light weight (incl. 3.0Ah battery (EYFB30B)): 2.8 lbs.

#### TYPICAL APPLICATION

- M5-M6 Bolt (Normal-Tensile Bolt)
- M8 Bolt (Normal Bolt)
- \* Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
- \*\* M10 Bolt (F mode, tightening 3 sec.)

# 10.87

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

10.8V

#### EYFLA5A / EYFLA5AR

#### Cordless Mechanical Pulse Tool

• 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)
- 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
- 1/4" Hex quick change chuck
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: rpm) 1: 0-1,300, 2: 0-1,450, 3: 0-1,550, 4-30 & F: 0-2,300
- Rehit Prevention Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-7/32" x 9-25/32" x 2-61/64"
- Light weight (incl. 3.0Ah battery (EYFB30B)): 2.8 lbs.

#### TYPICAL APPLICATION

- M6 Bolt (Tensile Bolt)
- M8 Bolt (Normal Bolt)
- \* Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
- \*\* M14 Bolt (F mode, tightening 3 sec.)



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

14 \*Available in EYFPA1 Series.

#### EYFLA5P / EYFLA5PR

#### **Cordless Mechanical Pulse Tool**

10.8V

- 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)
- 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
- Rehit Prevention Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-7/16" x 9-25/32" x 2-61/64"
- . Light weight (incl. 3.0Ah battery (EYFB30B)): 2.8 lbs.

#### TYPICAL APPLICATION

- M6 Bolt (Tensile Bolt)
- M8 Bolt (Normal Bolt)
- \* Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
- \*\* M14 Bolt (F mode, tightening 3 sec.)



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

10.8V

#### EYFLA5Q / EYFLA5QR

#### **Cordless Mechanical Pulse Tool**

• 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 page11)
- 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
- Rehit Prevention Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-7/16" x 9-25/32" x 2-61/64"
- . Light weight (incl. 3.0Ah battery (EYFB30B)); 2.8 lbs.

#### TYPICAL APPLICATION

- M6 Bolt (Tensile Bolt)
- M8 Bolt (Normal Bolt)
- \* Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
- \*\* M14 Bolt (F mode, tightening 3 sec.)



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

#### EYFLA6P / EYFLA6PR

#### Cordless Mechanical Pulse Tool

- 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)
- Flush Detection Mode Applications
- L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
- L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for "Quick Set" features (See page 11)
- Error proofing with OK/NOK indicator
- Radio version required for Panasonic Quality Control Monitoring System (See page 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
- Rehit Prevention Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-25/32" x 9-25/32" x 2-61/64"
- . Light weight (incl. 3.0Ah battery (EYFB30B)): 3.1 lbs.

#### TYPICAL APPLICATION

- M8 Bolt (Tensile Bolt)
- M10 Bolt (Normal Bolt)

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



10.8V

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

10.8V

#### 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)
- Flush Detection Mode Applications
- L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
- L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for "Quick Set" features (See page 11)
- Error proofing with OK/NOK indicator
- Radio version required for Panasonic Quality Control Monitoring System (See page 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
- Rehit Prevention Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-25/32" x 9-25/32" x 2-61/64"
- Light weight (incl. 3.0Ah battery (EYFB30B)): 3.1 lbs.

#### TYPICAL APPLICATION M8 Bolt (Tensile Bolt)

- M10 Bolt (Normal Bolt)

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



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

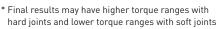
#### EYFMA1P / EYFMA1PR

#### **Cordless Mechanical Pulse Tool**

- Torque controlled range 25-100Nm (18.4-73.7 ft. lbs.) (Based on medium hard joint\*)
- Maximum 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 + F mode (non shut-off mode)
- Flush Detection Mode Applications
- L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
- L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for "Quick Set" features (See page 11)
- Error proofing with OK/NOK indicator
- Radio version required for Panasonic Quality Control Monitoring System (See page 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"
- Light weight (incl. 4.2Ah battery (EYFB42B)): 3.3 lbs.

#### TYPICAL APPLICATION

- M14 Bolt (Tensile Bolt) • M10 Bolt (Tensile Bolt)
- M12 Bolt (Normal Bolt)
- \*\* M16 Bolt (F mode, tightening 3 sec.)





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

#### EYFMA1J / EYFMA1JR

#### **Cordless Mechanical Pulse Tool**

- Torque controlled range 25-100Nm (18.4-73.7 ft. lbs.) (Based on medium hard joint\*)
- Maximum 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 + F mode (non shut-off mode)
- Flush Detection Mode Applications
- L1: Use on applications with no pulses before the flush point or when fastening fragile materials like plastic to metal.
- L2: Use on any applications when the tool pulses before achieving the flush point.
- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Remote control required for "Quick Set" features (See page 11)
- Error proofing with OK/NOK indicator
- Radio version required for Panasonic Quality Control Monitoring System (See page 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 through hole
- Battery indicator lamp (3 stages) and LED work light (ON/OFF Switch)
- No Load Speed (Torque Setting: rpm) Torque Setting 1-30 & F: 0-2,300
- Rehit Prevention Disables the tool for a period of time after a good fastening preventing the operator from double hitting the fastener.
- Compact size (L x H x W): 6-25/32" x 9-25/32" x 2-61/64"
- . Light weight (incl. 4.2Ah battery (EYFB42B)): 3.3 lbs.

#### TYPICAL APPLICATION

- M10 Bolt (Tensile Bolt)
- M14 Bolt (Normal Bolt)
- M12 Bolt (Normal-Tensile Bolt)
- \* Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints
- \*\* M16 Bolt (F mode, tightening 3 sec.)
- EYFMA1J/EYFMA1JR: Battery pack and battery charger are not included.

#### EYFPA1J/EYFPA1JR

#### Cordless Mechanical Pulse Tool

• Torque controlled range - 160-400Nm (118-295 ft. lbs) (Based on medium hard joint\*)

- Maximum Torque in non-shut off mode Approx. 650Nm (479 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
- 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)

- Light and Buzzer

- Low Battery Disable Disables tool if battery doesn't have the capacity to achieve proper torque
- Available 4.2Ah (EYFB60B) 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 EYFB60B): 7.7 lbs
- Optional accessories: EY0L82B Battery Charger, EYFB60B 21.6V 4.2Ah Li-ion Battery



EYFPA1J/EYFPA1JR: Battery pack and battery charger are not included

TYPICAL APPLICATION

• M16 Bolt (Tensile Bolt)

10.8V

\*Final results may have higher torque ranges with hard joints and lower torque ranges with soft joints \*\*M24 Bolt (F mode, tightening 3 sec.)

#### EYFLC1A

#### **Cordless Oil Pulse Tool**

• Torque controlled range - 18-27Nm (13.3-19.9 ft. lbs) (Based on medium hard joint\*)

- Brushless Motor and Hybrid Switch about doubles the life of the tool
- Overheat Warning Light Protects the tool in the event of the battery overheating
- 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 (rpm) 0-3150
- Compact size (L x H x W): 6-1/4" x 9-25/32" x 2-61/64"
- Lightweight (incl. 3.0Ah battery EYFB30B): 3.2 lbs



EYFLC1A: Battery pack and battery charger are not included

#### TYPICAL APPLICATION • M5 & M6 Bolt (Tensile Bolt)

- M8 Bolt (Normal Bolt)



Torque controlled range 160~**650**Nm Maximum Torque

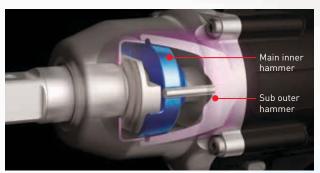
Lightweight approx. 7.7 lbs

> **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 fatique.



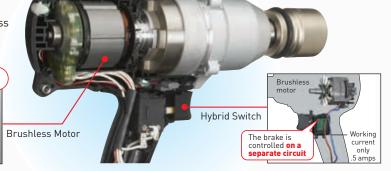


60 unique torque controlled algorithms -30 stages in L1 mode and 30 stages in L2 mode + F mode (non-shut off mode)

#### Compact and high-power brushless motor

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



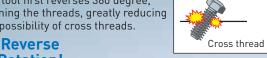


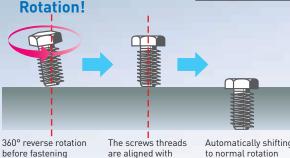


#### **Advanced fastening features**

#### **Cross thread reduction**

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





#### 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:0-990,000pcs)

#### Additional features

Ergonomic design by computing the best weighted center position

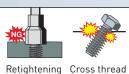


#### LED light

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

#### **Cross Thread / Rehit Detection**

If the shut-off is activated before the programmable minimum runtime, the tool alerts the operator to a NOK fastening (Time setting: 0.1–3.0sec, 0.1sec per



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



#### **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.



#### **Tightening** confirmation lamp

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



#### Mechanical Pulse Tool Spec Table

MODELS	EYFLA4A EYFLA4AR	EYFLA5A/5P/5Q EYFLA5AR/5PR/5QR	EYFLA6J/6P EYFLA6JR/6PR	EYFMA1J/1P EYFMA1JR/1PR	EYFPA1J/EYFPA1JR			
Voltage	10.8V	10.8V	10.8V	14.4V	21.6V			
Drive	A = 1/4" Hex Quick Change	A = 1/4" Hex Quick Change P = 3/8" Sq. Pin Detent Q = 3/8" Sq. Through Hole	J = 1/2" Sq. Through Hole P = 1/2" Sq. Pin Detent	J = 1/2" Sq. Through Hole P = 1/2" Sq. Pin Detent	J = 3/4" Sq. Through Hole			
Torque Range	3-22Nm (2.2-16.2 ft. lbs.)	6-30Nm (4.4-22 ft. lbs.)	16-53Nm (11.8-39 ft. lbs.)	25-100Nm (18.4-73.8 ft. lbs.)	160-650Nm (118-479.4 ft. lbs.)			
Max Torque (F mode, tightening 3 sec.)	Approx. 40Nm M10 Bolt	Approx. 90Nm M14 Bolt	Approx. 120Nm M14 Bolt	Approx. 185Nm M14 Bolt	Approx. 700Nm M24 Bolt			
No Load Speed (Torque Setting : RPM)	1: 0-950 2: 0-1300 3: 0-1450 4-8: 0-1550 9-30 & F: 0-2300	1: 0-1300 2: 0-1450 3: 0-1550 4-30 & F: 0-2300	1-30 & F: 0-2300	1-30 & F: 0-2300	0-1600			
PPM (Pulses Per Min)	1: 0-1900 2: 0-2500 3: 0-2800 8: 0-3000 9-30 & F: 0-4000	1: 0-2500 2: 0-2800 3: 0-3000 4-30 & F: 0-3600	1-30 & F: 0-3000	1-30 & F: 0-3200	0-2200			
Weight	2.8 lbs. (incl. 3.0Ah (EYFB30B))	2.8 lbs. (incl. 3.0Ah (EYFB30B))	3.1 lbs. (incl. 3.0Ah (EYFB30B))	3.3 lbs. (incl. 4.2Ah (EYFB42B))	7.7 lbs. (incl. 4.2Ah (EYFB60B))			
Size (L x W x H)	6-7/32" x 9-25/32" x 2-61/64"	5A: 6-7/32" x 9-25/32" x 2-61/64" 5P/5Q: 6-7/16" x 9-25/32" x 2-61/64"	6-25/32" x 9-25/32" x 2-61/64"	6-25/32" x 9-25/32" x 2-61/64"	9-27/32" x 11-5/8" x 2-61/64"			
	Wireless Communication with assem	bly qualifier: (OK Fasten=Green light, NOK F	Fasten=Red light) (*radio models only)	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)			
	Tightening & Confirmati	on Lamp: (ON/OFF Switch, Light off after fiv	ve minutes automatically)	Tightening & Confirmation Lamp: (ON/OFF Switch, Light off after five minutes automatically)	Tightening & Confirmation Lamp: (ON/OFF Switch, Light off after five minutes automatically)			
Function	0K/N0K Ligh	ıt: (Finish tightening: Green / Not finished ti	ghtening: Red)	OK/NOK Light: (Finish tightening: Green / Not finished tightening: Red)	OK/NOK Light: (Finish tightening: Green / Not finished tightening: Red)			
	Rehit Pre	vention: (Possible to set per 0.1 sec. betwee	en 0-3 sec.)	Rehit Prevention: (Possible to set per 0.1 sec. between 0-3 sec.)	Rehit Prevention: (Possible to set per 0.1 sec. between 0-3 sec.)			
		Battery Indication Lamp: (3 stage)		Battery Indication Lamp: (3 stage)	Battery Indication Lamp: (3 stage)			
		Low Power Disable		Low Power Disable	Low Power Disable			
		-		-	Prevent and detect cross threads and rehits			
Programmmable		-	Maitenance interval alarm					
"Quick Set"		-		-	Variable speed On / Off Switch			
Features		-		-	LED Light: On / Off or On with pull of switch			
		-		-	Buzzer On / Off			

#### Oil Pulse Tool Spec Table

MODELS	EYFLC1A				
Voltage	10.8V				
Drive	1/4" Hex Quick Change				
Torque Range	18-27Nm (13.3-19.9 ft. lbs.)				
Max Torque (F mode, tightening 3 sec.)	Approx. 27Nm M8 Bolt				
No Load Speed (Torque Setting : RPM)	0 - 3150				
PPM (Pulses Per Min)	0 - 1850				
Weight	3.2 lbs. (incl. 3.0Ah (EYFB30B))				
Size (L x W x H)	6-1/4" x 9-25/32" x 2-61/64"				

#### Batteries & Chargers



EY9L20B 7.2V 1.5Ah Li-ion



10.8V 2.0Ah Li-ion Battery Pack



EYFB41B 14.4V 2.0Ah Li-ion Battery Pack



EY0L82B











EYFA06-H Battery Protector



EYFA40B



EYFG Tool Hanger



EYFA31B

EYFL/EYFM Tool Hanger

Remote Control for all EYFG/EYFL/ EYFM/EYFP Tools

#### **Assembly Tool Accessories**

Battery Pack

EYFB42B

14.4V 4.2Ah Li-ion

Battery Pack



EYFB60B 21.6V 4.2Ah Li-ion Battery Pack



EY0L20B 7.2V Charger

10.8V - 28.8V Charger

#### **Tool Covers**

EYFA08-H

Battery Protector for EYFB60B





for EYFB32B

EYFA05

-H (gray)

-A (blue) -Y (yellow) -A (blue) -Y (yellow)



EYFA01

-H (gray) -G (green)

EYFG Tool Protectors EYFL/EYFM Tool Protectors EYFP Tool Protectors -A (blue) -Y (yellow) -H (gray) -G (green)

EYFA41B EYFP Tool Hanger

Accessories

EYFA32B

Clutch Adjustment Tool

for EYFG Series Tools

WEYFEA1N3137 Clutch Lock Out Cover for EYFEA1N



#### **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

16 to 1

fastenings.

#### Multi-Tool Assembly Qualifier

110V



Up to 16 tools can communicate over a secure connection simultaneously

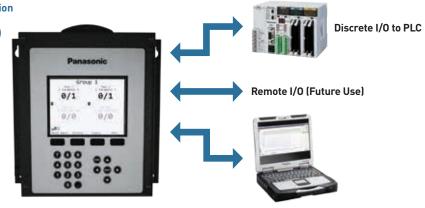
with the Qualifier to indicate OK/NOK

#### **Programming Modes**

Parameter - Run one tool at a time. Groups - Run a group of tools simultaneously.

Stores up to 10,000 fastenings

Jobs - Run tools or a group of tools in a sequence.



✓ Atlas Copco Open Protocol ✓ Atlas Copco Tools Net ✓ Ethernet IP

#### **Process Control**

Utilizing I/O or Fieldbus capabilities improves quality and increases productivity.

#### EYFR02B

#### Single Tool Assembly Qualifier

Wireless Communication  $((((((\bullet)))))$ 





Discrete I/O to PLC

OK/NOK signal and Tool ID Data is transmitted from the tool to the qualifier.

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

Green light Indicates a Red light indicates successful fastening.

From the qualifier the following data can be output to a computer or PLC

#### **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.



Utilizes a highly reliable radio system to extend the operating range

#### 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.

110V



#### **Comparison of Assembly Qualifiers**

MODEL	EYFR02B	EYFR03A	EYFR03B	EYFR03C	EYFR03D			
	田	0:0 ##	11 H		P			
Graphics Display	-	<b>V</b>	·	-	-			
Number of Tool Connectivity	1	16	16	16	16			
Number of Tools Simultaneously	1	16	16	16	16			
Secure Zigbee Wireless Communication	V	V	V	V	V			
Discrete Inputs/Outputs	1/2	8/12	-	8/12	-			
Remote Inputs/Outputs Connection	-	V	V	V	V			
PLC Integration	~	V	*With Remote I/O Box	V	*With Remote I/O Box			
Ethernet IP/Atlas Copco OP & ToolsNet	-	V	~	V	V			
Data Collection	-	V	V	V	V			
Batch Counting	-	V	~	V	V			
Tool Sequencing	-	V	~	V	V			
Bar Code Scan Capability	-	V	V	V	V			
Remote Tool Disable	~	V	~	V	V			
Out of Range Disable / Anti-Theft	V	V	V	V	V			
Recommended Range			10M					
Rated Supply Voltage	AC 100-240V, 50/60 Hz							
I/O Voltage	5A @ 30VDC 2A @ 24VDC							
Dimensions (L x H x W)	9-1/16" x 14-1/8" x 3-1/2" 10-1/4" x 10-3/4" x 4-1/4"							
Operating Temperature Range	14-140°F ((-10)-60°C)							
Compatible Tools	EYFGA1NR, EYFGA2NR, EYFGA3NR, EYFLA4AR, EYFLA5AR, EYFLA5PR, EYFLA6PR, EYFLA6PR, EYFLA6JR, EYFMA1PR, EYFMA1JR, EYFPA1JR							

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

						CL	UTCH	TOOLS				OIL PULSE						٨	1ECHA	NICAL	PULS	E T00	LS						QUALI	IFIERS
		7.2V			,			14.4	V								1	V8.0							14.4	4V		21.6V		
● STANDARD		25		~		~		~						~		~			<u>~</u>		~		<u>ر</u> ا		<u>~</u>		<u>م</u>	~		
OPTIONAL		A A N I A	A1N	A1N	A2N	A2N	A3N	A3N	B1N	B2N	B3N	C1A	A4A	A4A	A5A	A5A	A5Q A5Q	A5P	A5P	A6J	A6JF	A6P	A6P	IA1J	IA1J	IA1P	IA1P	A17F	02B	03
		EYFEA1N EYFEA1N2S	EYFGA1N	EYFGA1NR	EYFGA2N	EYFGA2NR	EYFGA3N	EYFGA3NR	EYFGB1N	EYFGB2N	EYFGB3N	EYFLC1A	EYFLA4A	EYFLA4AR	EYFLA5A	EYFLA5AR	EYFLA5Q EYFLA5QR	EYFLA5P	EYFLA5PR	EYFLA6J	EYFLA6JR	EYFLA6P	EYFLA6PR	EYFMA1J	EYFMA1JR	EYFMA1P	EYFMA1PR	EYFPA1JR EYFPA1JR	EYFR02B	EYFR03
BATTERY PACKS																														
7.2V 1.5Ah Li-ion Battery Pack	EY9L20B	0	Т																											
10.8V 2.0Ah Li-ion Battery Pack	EYFB32B											0	0	0	0	0	0 0	0	0	0	0	0	0							
10.8V 3.0Ah Li-ion Battery Pack	EYFB30B											0		0			0 0		+	_	0	0	0							
14.4V 2.0Ah Li-ion Battery Pack	EYFB41B		0	0	0	0	0	0	0	0	0													0	0	0	0			
14.4V 4.2Ah Li-ion Battery Pack	EYFB42B		0	_	_	_	0	0	0	0	0													0			0			
21.6V 4.2Ah Li-ion Battery Pack	EYFB60B																											0		
CHARGERS																														
Charger for Panasonic Li-ion Battery 7.2V (EY9L20B)	EY0L20B	0	Т																											
Charger for Panasonic Li-ion Batteries 10.8V - 28.8V	EY0L82B		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0 0	0		
QUALIFIERS																														
Single Tool Qualifier	EYFR02B			0		0		0						0		0	0		0		0		0		0		0	0		
Multi-Tool Qualifier - Graphics Disp/Discrete I/O/Remote I/O/ACOP/ToolNet/EIP	EYFR03-A			0		0		0						0		0	0	_	0		0		0		0		0	0		$\Box$
Multi-Tool Qualifier - Graphics Disp/Remote I/O/ACOP/ToolNet/EIP	EYFR03-B			0		0		0						0		0	0		0		0		0		0		0	0		
Multi-Tool Qualifier - Discrete I/O/Remote I/O/ACOP/ToolNet/EIP	EYFR03-C			0		0		0						0		0	0	_	0		0		0		0		0	0		
Multi-Tool Qualifier - Remote I/O/ACOP/ToolNet/EIP	EYFR03-D			0		0		0						0		0	0		0		0		0		0		0	0		
TOOL COVERS																														
Protector for EYFB30B Battery - Gray	EYFA02-H												0	0	0	0	0 0	0	0	0	0	0	0							
Protector for EYFB32B Battery - Gray	EYFA03-H													0	_		0 0		+	_	0	0	0						$\top$	
Protector for EYFB40B/EYFB42B Battery - Gray	EYFA04-H		0	0	0	0	0	0	0	0	0													0	0	0	0			
Protector for EYFB41B Battery - Gray	EYFA06-H		0	0	0	0	0	0	0	0	0													0	0	0	0			
Protector for EYFB60B Battery - Gray	EYFA08-H																											0 0		
Protector for EYFG Clutch Tool Bodies - Blue	EYFA05-A		0	0	0	0	0	0	0	0	0																			
Protector for EYFG Clutch Tool Bodies - Gray	EYFA05-H		0	0	0	0	0	0	0	0	0																			
Protector for EYFG Clutch Tool Bodies - Yellow	EYFA05-Y		0	0	0	0	0	0	0	0	0																			
Protector for EYFL/EYFM 10.8V & 14.4V Mechanical Pulse Tool Bodies - Blue	EYFA01-A												0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			
Protector for EYFL/EYFM 10.8V & 14.4V Mechanical Pulse Tool Bodies - Green	EYFA01-G												0	0			0 0		+			0				0	0			
Protector for EYFL/EYFM 10.8V & 14.4V Mechanical Pulse Tool Bodies - Gray	EYFA01-H												0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			
Protector for EYFL/EYFM 10.8V & 14.4V Mechanical PulseTool Bodies - Yellow	EYFA01-Y												0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			
Protector for EYFP 21.6V Mechanical Pulse Tool Bodies - Blue	EYFA07-A																											0		
Protector for EYFP 21.6V Mechanical Pulse Tool Bodies - Green	EYFA07-G																											0 0		
Protector for EYFP 21.6V Mechanical Pulse Tool Bodies - Gray	EYFA07-H																											0		
Protector for EYFP 21.6V Mechanical PulseTool Bodies - Yellow	EYFA07-Y																											0 0		
ACCESSORIES										,							·													
Clutch Adjustment Tool for EYFG Clutch Tools	EYFA32B		•	•	•	•	•	•	•	•	•																			
Clutch Lock Out Cover EYFEA1N	WEYFEA1N3137	• •																												
I/O Cable for EYFRZ02 Single Tool Qualifier	EYFRZ02CA																												0	
I/O Cable for EYFR03 Multi-Tool Qualifier	EYFR03CA																													0
Remote Control for all EYFL, EYFM, EYFG Series Tools	EYFA31B		0	0	0	0	0	0					0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0 0	0 0		
Tool Hanger for EYFG Clutch Tools	EYFA40B		0	_		+	0	0	0	0	0																			
Tool Hanger for EYFL 10.8V & 14.4V Mechanical Pulse Tools	EYFLM-H												0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			
Tool Hanger for EYFP 21.6V Mechanical Pulse Tools	EYFA41B																											0		
																												$\overline{}$		

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

VOLTAGE	MODEL	BATTERY	CHARGING TIMES USABLE: FULL CHARGE	CHARGER
21.6V	EYFPA1J/1JR	EYFB60B (4.2Ah)	65 min : 85 min	
14.4V	EYFGA1N/1NR EYFGA2N/2NR EYFGA3N/3NR EYFGB1N	EYFB41B (2.0Ah)	35 min : 40 min	
14.4¥	EYFGB2N EYFGB3N EYFMA1J/1JR EYFMA1P/1PR	EYFB42B (4.2Ah)	50 min : 60 min	EY0L82B
10.8V	EYFLA4A/4AR EYFLA5A/5AR EYFLA5P/5PR	EYFB30B (3.0Ah)	35 min : 45 min	
10.07	EYFLA5Q/5QR EYFLA6J/6JR EYFLA6P/6PR	EYFB32B (2.0Ah)	35 min : 40 min	
7.2V	EYFEA1N EYFEA1N2S	EY9L20B	35 min : 60 min	EY0L20B

#### Mechanical Pulse Tool Working Capacities

	MODELS	EYFLA4A EYFLA4AR	EYFLA5A/5P/5Q EYFLA5AR/5PR/5QR	EYFLA6J/6P EYFLA6JR/6PR	EYFMA1J/1P EYFMA1JR/1PR	EYFPA1J EYFPA1JR
	EYFB30B 3.0Ah Battery	approx. 1200 pcs/pack approx. 0.7 sec/1 pcs (M6: 10Nm Stage: 19)	approx. 800 pcs/pack approx. 0.8 sec/1 pcs (M8: 23Nm Stage: 22)	approx. 500 pcs/pack approx. 0.9 sec/1 pcs (M10: 43Nm Stage: 23)	-	-
Application Capacity/ Working Speed	EYFB42B 4.2Ah Battery	-	-	-	approx. 785 pcs/pack approx. 0.9 sec/1 pcs (M12: 71Nm Stage: 22)	-
	EYFB60B 4.2Ah Battery	-	-	-	-	approx. 450 pcs/pack approx. 0.7 sec/1 pcs (M16: 180Nm Stage: 6)

#### **Precision Clutch Tool Working Capacities**

	MODELS	JOINT	EYFGA1N/1NR EYFGB1N	EYFGA2N/2NR EYFGB2N	EYFGA3N/3NR EYFGB3N
	EYFB41B	Hard Joint 30°	approx. 1200 pcs/pack approx. 1.1 sec/1 pcs (M6 - 5.5Nm)	approx. 1050 pcs/pack approx. 1.0 sec/1 pcs (M6 - 8Nm)	approx. 1100 pcs/pack approx. 1.0 sec/1 pcs (M6 - 10Nm)
Application	2.0Ah Battery	Soft Joint 720°	approx. 540 pcs/pack approx. 1.3 sec/1 pcs (M6 - 5.5Nm)	approx. 410 pcs/pack approx. 1.3 sec/1 pcs (M6 - 8Nm)	approx. 310 pcs/pack approx. 1.4 sec/1 pcs (M6 - 10Nm)
Capacity/ Working Speed	EYFB42B	Hard Joint 30°	approx. 2700 pcs/pack approx. 1.1 sec/1 pcs (M6 - 5.5Nm)	approx. 2350 pcs/pack approx. 1.0 sec/1 pcs (M6 - 8Nm)	approx. 2500 pcs/pack approx. 1.0 sec/1 pcs (M6 - 10Nm)
	4.2Ah Battery	Soft Joint 720°	approx. 1250 pcs/pack approx. 1.3 sec/1 pcs (M6 - 5.5Nm)	approx. 1000 pcs/pack approx. 1.3 sec/1 pcs (M6 - 8Nm)	approx. 730 pcs/pack approx. 1.4 sec/1 pcs (M6 - 10Nm)

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

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

#### Oil Pulse Tool Working Capacities

	MODEL	FASTENING
Application Capacity/ Working Speed	EYFB30B 3.0Ah Battery	approx. 720 pcs/pack approx. 0.7 sec/1 pcs

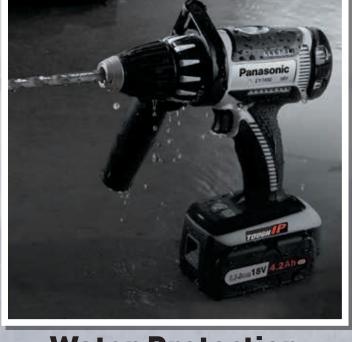




# TOUGH Tough Tools for Tough Conditions







**Water Protection** Level 6

#### **Test**

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

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



#### **Water Protection Test**

**Dust Protection Test** The tool is subjected

to heavy dust and then

checked to ensure it

continues to function

properly.

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

#### **Conditions**

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

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





#### Results

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

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

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

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

**IP56** 



HIGH LEVEL
TEST RESULTS

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

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



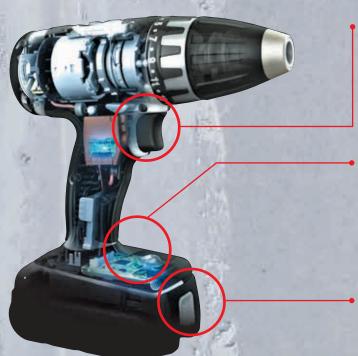
# Tough. Durable. Innovative. Cordless Tools with high-end features.

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





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



#### Tough Environmental Conditions

- Dust Resistance
- Water Resistance

**IP56** 

#### Switch

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



#### **Electronic Circuit**

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



#### **Battery**

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



#### Task Efficiency Innovation

- Work Speed
- Comfortable
- Convenience

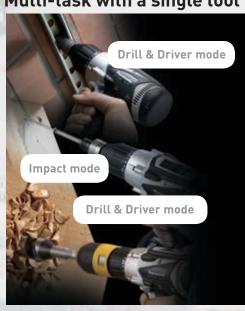
#### High power/high speed drilling/cutting



Easy-to-hold, ergonomic design

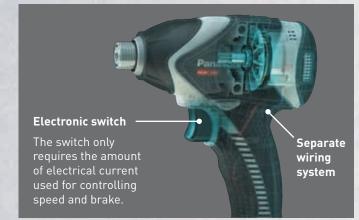


#### Multi-task with a single tool



#### Long-lasting, Brushless Motor





#### **Tough Usage**

- High Durability
- Long Life
- High Capacity





# Panasonic's Lithium Nickel 4.2Ah Battery Pack!

Panasonic CLOVATO EY74A1

TOUGH

Li-ion 18V 4

Durable, Lightweight and Extended Run Time.

#### Approx. 27% More working capacity per charge



Li-ion S type



18V EY9L50B Li-ion S type

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

#### 4.2Ah Li-ion Battery = Longer Battery Capacity



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



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



Cutting yellow pine 80 pcs \*Reciprocating Saw 18V EY45A1

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

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

#### Monitoring of Individual Battery Cells

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

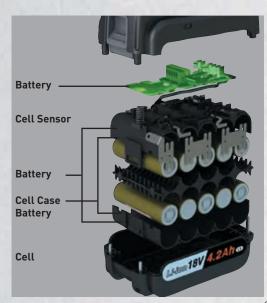
#### **Overdischarge Prevention Sensor**

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

#### **Battery Overheat Protection Sensor**

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





#### Li-ion Power Tool Line-Up

#### Panasonic introduces the latest technology in digital cordless tools.





**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



EY4640X Angle Grinder

#### 14.4V / 18V Series with Dual Voltage



EY74A1LS2G Drill & Driver



EY75A4LS2G **Impact Driver** 



EY75A5LS2G Impact Wrench



EY45A1LS1S **Reciprocating Saw** 

#### 14.4V / 18V / 21.6V



**EY37C1B** Flashlight

#### 18V



EY7450LS2S Drill & Driver



**EY7450LR2S** Drill & Driver





**EY7950LR2S** Hammer Drill & Driver





EY7950LS2S Hammer Drill & Driver



EY7552X Impact Wrench

#### 28.8V



EY7880LP2S SDS-Plus Rotary Hammer

#### **Power Supply Kits**



EYC941B 14.4V Power Supply Kit



EYC950B 18V Power Supply Kit

#### Combo Kits



EYC144V33 14.4V 3.3Ah Combo Kit



EYC144DV42 14.4V 4.2Ah Combo Kit



EYC18DV42 18V 4.2Ah Combo Kit



EYC194LR 14.4V 3.3Ah Combo Kit

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



EY6432NQKW Cordless 1/2" Drill & Driver Kit



EY6409NQKW Cordless 1/2" Drill & **Driver Kit** 



**EY6220NQ** Cordless Drill & Driver Kit



EY3530NQMKW Cordless Metal Cutter Kit



EYC136NQKW Metal Combo Kit

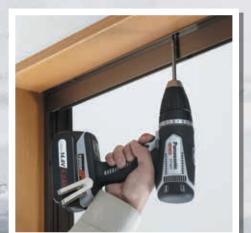
#### **Dual Voltage Technology**

Versatility, High Performance and Extreme Run Time!



Panasonic

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





**18V**Increases application speed and working capacity



**Dual Voltage Circuit** 



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

Lindon 18V

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



#### The new series with dual voltage line up



EY74A1LS2G Drill & Driver



EY75A4LS2G Impact Driver



EY75A5LS2G Impact Wrench



**EY45A1LS1G**Reciprocating Saw





#### **EY75A4LS2G / EY75A4X**









#### **Dual Voltage Technology**

- Dual voltage excepts either 14.4V or 18V Panasonic Li-ion batteries
- High capacity 4.2Ah Li-ion battery (optional)
- High power: Impact Mode: 1,370 in. lbs. (114 ft. lbs.)
- Brushless motor and hybrid switch
- Variable speed trigger/reversible
- Electric brake
- 1/4" Hex quick connect collet
- LED work light
- Belt hook
- Low battery indicator
- Compact size (L x H x W): 5-5/8" x 9-17/32" x 2-13/16"
- . Light weight (incl. Battery): 3.53 lbs.
- Charging Time (using EY0L82B charger)\*: Usable: 55 minutes Full: 70 minutes

ΗVΔC

• Maintenance

• Recreational Vehicles

#### Tool Specs

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

\*M14 High tensile bolt tightening for 3 sec.

#### TYPICAL APPLICATION

- Construction
- General Industry
- Automotive/Truck Repair and Maintenance

- Cordless 1/4" Hex Impact Driver





EY75A4X: Battery pack and battery charger are not included.

#### **EY75A5LS2G / EY75A5X**

#### Cordless 1/2" Impact Wrench

- Dual voltage accepts either 14.4V or 18V Panasonic Li-ion batteries
- High capacity 4.2Ah Li-ion battery (optional)
- High power: Impact Mode: 1,815 in. lbs. (151 ft. lbs.)
- Brushless motor and hybrid switch
- Variable speed trigger/reversible
- 1/2" Square drive with 1/4" quick change adapter (EY9HX111E)
- Electric brake
- LED work light
- Belt hook
- Low battery indicator
- Compact size (L x H x W): 6-1/8" x 9-17/32" x 2-13/32"
- . Light weight (incl. Battery): 3.75 lbs.
- Charging Time (using EY0L82B charger)\*: Usable: 55 minutes Full: 70 minutes

#### Tool Specs

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

\*M16 High tensile bolt tightening for 3 sec.

- Construction
- Automotive/Truck Repair and Maintenance
- Standard Accessory 1/2" square drive to 1/4" quick change adapter

EY9HX111E

S4 2Ah 14.4V/18V

battery charger are not included.

#### TYPICAL APPLICATION

- General Industry
- HVAC
- Maintenance
- Recreational Vehicles



TOUGH IP

**Dual Voltage Technology** 





#### EY7552LS2S / EY7552X



#### Cordless High Torque Impact Wrench Kit

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

#### Tool Specs

Max. Torque	470Nm (346 ft. lbs.)
Speed at No Load	0 - 1,550 rpm
Impact/min.	0 - 2,400 ipm

#### TYPICAL APPLICATION

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

EY7552X: Battery pack and battery charger are not included.

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

#### EY7549X

#### 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 (EY9HX111E (included))
- 2 Speed variable speed drill with 21 stage adjustable clutch (Approx.): 6.2 in. lbs. - 38.9 in. lbs.
- High power: Impact Mode: 1327 in. lbs. Drill & Driver Mode: 230 in. lbs.
- Variable Speed/Reversible:
- Impact Mode: 0-2,350 rpm
- Drill & Driver Mode: High 180-1,200 rpm Low: 60-380 rpm
- Impact/min.: 0-3,200 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 2-1/16" (square drive)
- Light weight (incl. Battery): 4.07 lbs. (square drive) 4.52 lbs. (with keyless chuck)
- Charging Time (using EY0L82B charger): Usable: 50 minutes Full: 60 minutes

#### TYPICAL APPLICATION

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

#### Standard Accessory 1/2" Detachable keyless chuck

EY9X003E

EY7549X: Battery pack

and battery charger

are not included.

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

EY9HX111E

TOUGH P

# **Drill & Driver** High Speed Performance, Compact and Lightweight Panasonic Increases application speed and working capacity

EY7450LS2S 542h EY7450LR2S 533h

TOUGH IP

Cordless 1/2" Drill & Driver Kit

- High capacity EY7450L52S 4.2Ah Li-ion battery EY7450LR2S 3.3Ah Li-ion battery
- Compact size (L x H x W): 8-9/16" x 9-3/4" x 2-1/2"
- Light weight (incl. battery): EY7450LS2S 4.70 lbs. EY7450LR2S 4.70 lbs.
- High power: EY7450LS2S 505 in. lbs.
  - EY7450LR2S 505 in. lbs.
- Variable speed/reversible: Low: 50-430 rpm High: 160-1,650 rpm
- Clutch Torque (Approx.): 8.8-61.0 in. lbs. (3.0 in. lbs. per stage, total 18 stage)
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)\*:

EY7450LS2S Usable: 55 minutes Full: 70 minutes EY7450LR2S Usable: 40 minutes Full: 55 minutes

- Electric brake
- LED work light
- . Low battery indicator
- EY7450LS2S Kit includes 1 EY7450, 2 (EY9L51B) 4.2Ah 18V Li-ion Batteries, 1 - (EYOL82B) Charger, and Case.
- EY7450LR2S Kit includes 1 EY7450, 2 (EY9L50B) 3.3Ah 18V Li-ion Batteries, 1 - (EYOL82B) Charger, and Case.
- Max. Drill Diameter: in Wood: dia. 1-7/16" in Metal: dia. 1/2"
- Max. Screws Driving: Wood screw: dia. 5/16" Self-drilling screw: dia. 1/4"

#### TYPICAL APPLICATION

- General Construction
- Plumbing
- Finishing Carpentry Flectric Installation Work



#### **EY74A1LS2G / EY74A1X**







**Dual Voltage Technology** 

#### Cordless 1/2" Drill & Driver Kit

- Dual voltage accepts either 14.4V or 18V Panasonic Li-ion batteries
- High capacity 4.2Ah Li-ion battery
- Compact size (L x H x W): 8" x 9-13/32" x 2-5/16"
- . Light weight (incl. battery): 4.30 lbs.
- Variable speed/reversible: Low: 80-600 rpm High: 220-1,750 rpm
- Clutch Torque (Approx.): 4.3-39 in. lbs. (2.0 in. lbs. per stage, total 18 stage)
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)\*: Usable: 55 minutes Full: 70 minutes
- Electric brake
- LED work light
- . Low battery indicator
- Kit includes 1 EY74A1, 2 (EY9L51B) 4.2Ah 18V Li-ion Batteries,
- 1 (EYOL82B) Charger, and Case.
- Max. Drill Diameter: in Wood: dia. 1-3/8" in Metal: dia. 1/2"
- Max. Screws Driving: Wood screw: dia. 9/32" Self-drilling screw: dia. 1/4"

#### TYPICAL APPLICATION

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



EY74A1X: Battery pack and battery charger are not included.

#### **EY7441LR2S**

#### TOUGH P

#### Cordless 1/2" Drill & Driver Kit

- 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.): 4.4-39.0 in. lbs. (2.0 in. lbs. per stage, total 18 stage)
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)\*: Usable: 40 minutes Full: 55 minutes
- Electric brake
- LED work light
- Low battery indicator
- Belt hook
- Kit includes 1 EY7441, 2 (EY9L44B) 3.3Ah 14.4V Li-ion Batteries, 1 - (EYOL82B) Charger, and Case.
- Max. Drill Diameter: in Wood: dia. 1-3/8" in Metal: dia. 1/2"
- Max. Screws Driving: Machine screw: M5 Wood screw: dia. 1/4" Self-drilling screw: dia. 1/4"

#### TYPICAL APPLICATION

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



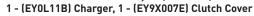
#### **Cordless Drill & Driver Kit**



#### **EY7411LA1S**

#### **Cordless Drill & Driver Kit with Batch Counting**

- 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
- Rehit prevention function
- 3 Programmable tones for batch complete
- 2 Speed/reversible: Low: 200 rpm High: 600 rpm
- Yellow LED work light which reduces glare
- Long lasting 1.5Ah Li-ion battery
- 1/4" Hex quick change chuck
- Powerful: Low: 39.0 in. lbs. High: 13.3 in. lbs.
- Compact size (L x H x W): 10-7/8" x 5-9/32" x 1-13/16" in straight format
- . Light weight (incl. battery): 1.10 lbs.
- Charging Time (using EYOL10B charger)\*: Usable: 15 minutes Full: 30 minutes
- Low battery indicator
- Max. Drill Diameter: in Metal dia. 3/16" (spc t=1/16")
- Max. Screw Driving: Wood screw dia. 5/32" x 1-1/2"
- Kit includes 1 EY7411LA1S. 1 (EY9L10B) 1.5Ah 3.6V Li-ion Battery.







#### TYPICAL APPLICATION

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

#### **EY7410LA2S / EY7410LA1C**

#### **Cordless Drill & Driver Kit**

• 1.5Ah Li-ion battery

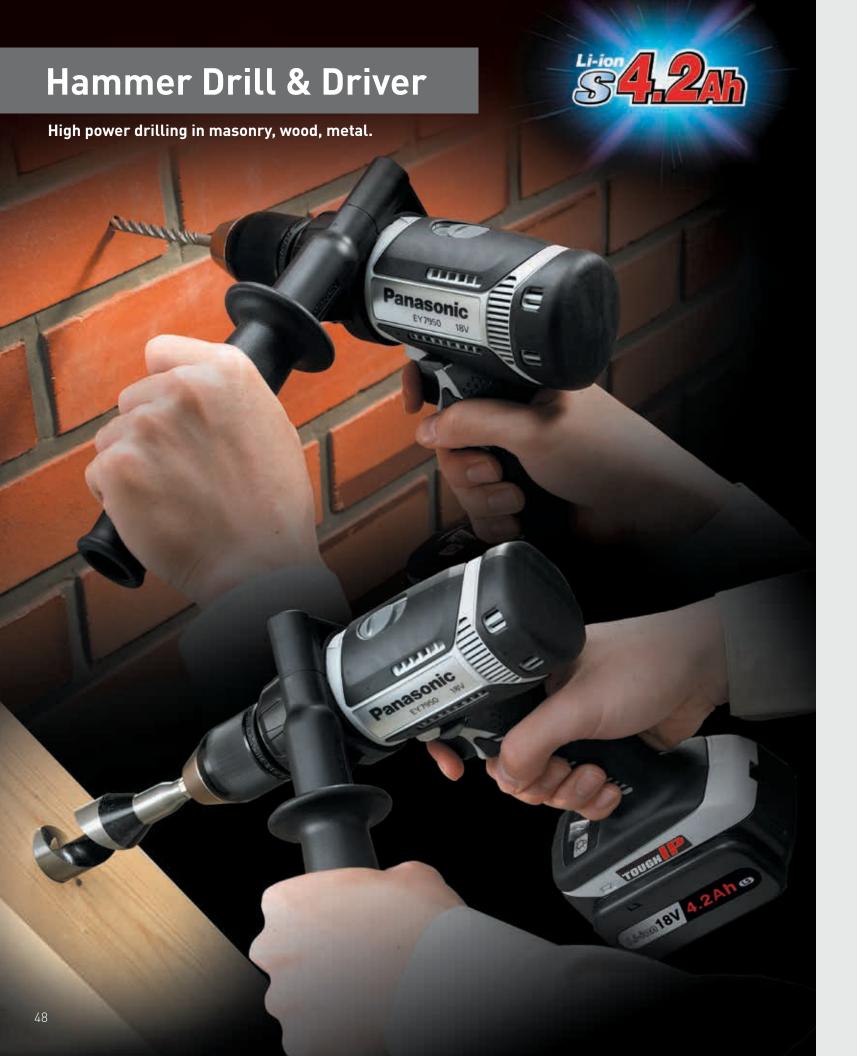
- Compact size (L x H x W): 10-7/8" x 5-9/32" x 1-13/16" in straight format
- Light weight (incl. battery): 1.10 lbs.
- Powerful: Low: 39.0 in. lbs. High: 13.3 in. lbs.
- 2 Speed reversible: Low: 200 rpm High: 600 rpm
- Clutch Torque (Approx.): 2.7-25.7 in. lbs. (0.9 in. lbs. per stage, total 21 stage)
- 21 Stage clutch with auto shut off
- 1/4" Hex quick change chuck
- Cap for clutch lock out
- Charging Time (using EY0L11B charger)\*: Usable: 15 minutes Full: 30 minutes
- Yellow LED work light which reduces glare
- Low battery indicator
- Kit includes 1 EY7410, 2 (EY9L10B) 1.5Ah 3.6V Li-ion Batteries, 1 - (EYOL11B) 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



EY7950LS2S 5424 EY7950LR2S 34h

#### **Cordless Hammer Drill & Driver Kit**

TOUGH IP

• High capacity EY7950LS2S 4.2Ah Li-ion battery EY7950LR2S 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 (incl. battery): EY7950LS2S 5.00 lbs. EY7950LR2S 5.00 lbs.
- High performance as regular drill: Max. Torque: EY7950LS2S 505 in. lbs. EY7950LR2S 505 in. lbs.
- Variable speed control/reversible: Low: 50-430 rpm High: 160-1,650 rpm
- Clutch Torque (approx): 8.8-61.0 in. lbs. (3.0 in. lbs. per stage, total 18 stage) (Max. Torque at drilling position-stage 16)
- Blows Rate per Minute: Low: 900-7,740 bpm High: 2,880-29,700 bpm
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)\*:

EY7950L525 Usable: 55 minutes Full: 70 minutes EY7950LR2S Usable: 40 minutes Full: 55 minutes

- Electric brake
- LED work light
- Low battery indicator
- EY7950LS2S Kit includes 1 EY7950, 2 (EY9L51B) 4.2Ah 18V Li-ion Batteries,

1 - (EYOL82B) Charger, and Case.

EY7950LR2S Kit includes 1 - EY7950, 2 - (EY9L50B) 3.3Ah 18V Li-ion Batteries, 1 - (EYOL82B) Charger, and Case.

• Max. Drill Diameter: in Wood: dia. 1-7/16" in Metal: dia. 1/2" in Mortar/Brick: dia. 1/2"

• Max. Screws Driving: Wood screw: dia. 5/16" Self-drilling screw: dia. 1/4"

TYPICAL APPLICATION Flectricians General construction Interior installation

Masonry drilling Masonry/wood fastening Wood/metal drilling Heating, water & sanitation technicians

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

#### **EY7940LR2S**

R33Ah TOUGH P

#### Cordless Hammer Drill & Driver Kit

- 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 in. lbs. (1.8 in. lbs. per stage, total 18 stage) (Max. Torque at drilling position-stage 16)
- High speed masonry drilling: Max.1,400 rpm / 25,200 bpm
- Blows Rate per Minute: Low: 1,260-7,200 bpm High: 3,600-25,200 bpm
- 1/2" Heavy duty keyless chuck
- Charging Time (using EY0L82B charger)\*: Usable: 40 minutes Full: 55 minutes
- Electric brake
- LED work light
- Low battery indicator
- Kit includes 1 EY7940, 2 (EY9L44B) 3.3Ah 14.4V Li-ion Batteries, 1 (EY0L82B) Charger, and Case.
- Max. Drill Diameter: in Metal dia. 1/2" in Wood dia. 1-3/8" in Mortar/Brick dia. 1/2"
- Max. Screws Driving: Machine screw: M5 Wood screw: dia. 1/4" Self-drilling screw: dia. 1/4"

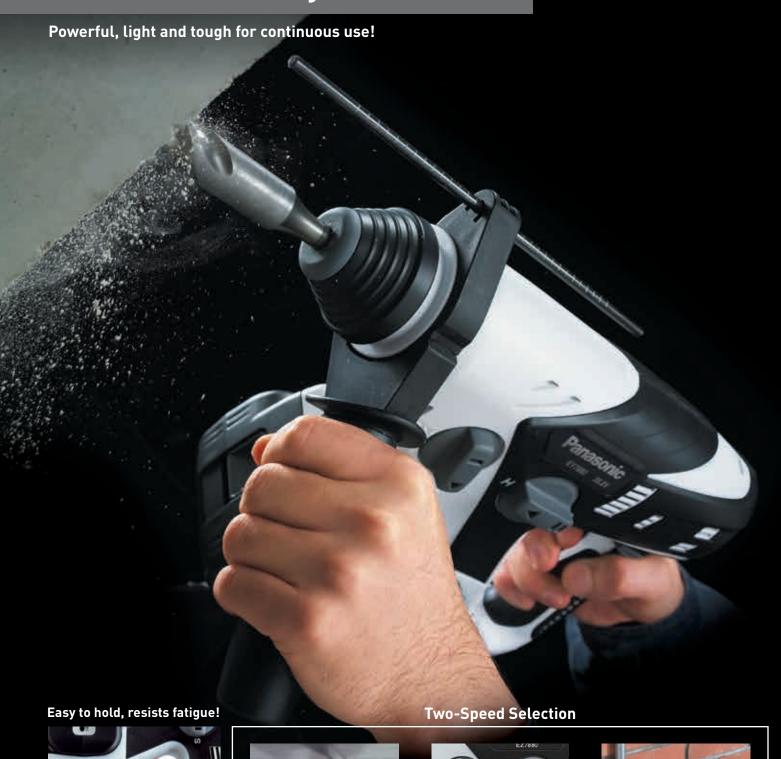
#### TYPICAL APPLICATION

- Masonry drilling
- Electricians General construction
- Interior installation

- Masonry/wood fastening
- Wood/metal drilling
- Heating, water & sanitation technicians



#### **SDS-Plus Rotary Hammer**



ø3.2- ø5

12.7 kN

[1,300 kgf]

23.6 kN

[2,400 kgf]

#### **EY7880LP2S**



#### **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 - (EYOL82B) Charger, and Case.

supports continuous use

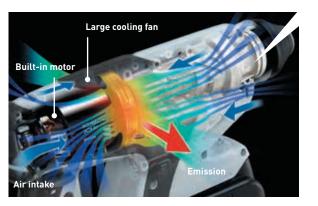


#### TYPICAL APPLICATION

- Concrete drilling
- Masonry drilling

**Excellent cooling/dust-proof design** 

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



#### Magnesium metal gear case



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



particles of dust from entering the tool and causing problems with the motor.

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

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



#### Optional Accessories SDS-Plus Chiseling Attachment For light chiseling EY9HX402E SDS-Plus Drill Chuck For 1/16" dia. 1/2" dia. bit EY9HX400E

#### Carefully designed for ease of use. Supported functions.



Standard Accessory Dust collection cup



White LED light



For light chiseling

Grip width of our EY6813



#### EY45A1LS1G/EY45A1X







**Dual Voltage Technology** 

#### **Cordless Reciprocating Saw Kit**



EY45A1X: Battery pack and battery charger are not included.

#### TYPICAL APPLICATION

• Light weight: 7.50 lbs.

 Easy blade replacement Safety switch lock lever • Low battery indicator

1 - (EYOL82B) Charger, and Case.

- Carpentry
- Plumbing
- Electrician
- Installation

• Kit includes 1 - EY45A1, 1 - (EY9L51B) 4.2Ah 18V Li-ion Battery,

• Charging Time (using EY0L82B charger)\*: Usable: 55 minutes Full: 70 minutes

• Demolition



#### Cutting

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



#### **Demolition**

High voltage reciprocating saw offers powerful cutting performance.



#### Long Lasting

High battery capacity enables tool to last longer.



#### **Anti vibration**

Spring inside tool absorbs shock for less fatique



#### **Blade Replacement**

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

#### Replacement Blade

\*Not available as an accessory

#### Metal Blade Standard

- Bi-metal blade
- 14 teeth per inch
- Blade length: 5-7/8"
- Blade width: 1/16"

  - Cutting range: ø2-3/4"

#### Wood Blade



- carbon tool steels • 5 teeth per inch
- Blade length for cutting: 8-11/16"

• Blade length for cutting: 5-1/8"

- Blade width: 1/16"
- Blade length: 9-7/16" Cutting range: ø5-7/8"

# **Multi-Purpose Metal Cutter** Made for cutting various materials

#### **EY4542LR2M**





#### 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"
- 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 (EYOL82B) Charger, and Case.

#### TYPICAL APPLICATION

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



#### Metal Cutting Blade Standard



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

#### 3-way Dust Control



1 Use with vacuum cleaner to collect dust



Cutting depth adjustment

#### **Wood Cutting Blade Optional**



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

2 Collects dust in the dust case



3 Eject dust to the rear of the machine



Cutting edge is easily seen through window



#### **EY4640X**

#### TOUGH IP

#### **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 EY0L82B charger)\*: Usable: 40 minutes Full: 55 minutes
- Electronic Performance Monitoring System
- Accepts Panasonic 14.4V Li-ion battery packs.
- \*Charging time, weight and size: case of using the battery pack (EY9L44B)

#### TYPICAL APPLICATION

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



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

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



Reinforcement bar cutting

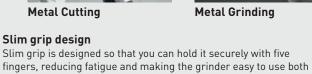


above your head and facing to the side.

**Metal Cutting** 

Slim grip design





when the switch is at the ON position, or even when the battery pack is inserted. The warning lamp will flash to indicate that the on lock start prevention has started.

Indicator lamp for on lock warning lamp function The grinder will not start

#### **EY37C1B**



#### **Cordless Flashlight**

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





EY37C1B: Battery pack and battery charger are not included.



#### 14.4V 3.3Ah Combo Kit

14.4V

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



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





#### EYC941B

Li-ion 4.2Ah

#### 14.4V Power Supply Kit

14.4V

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





#### EYC950B



#### 18V Power Supply Kit

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





**EYC144V33** 

#### 14.4V 3.3Ah Combo Kit

• 1 - EY75A1 Dual Voltage Impact Driver

• 1 - EY0L82B Charger

- 1 EY7441 14.4V Drill & Driver
- 2 EY9L44B 14.4V 3.3Ah Battery Packs
- 1 Carry Bag







#### EYC144DV42

Li-ion A 2A

**14.4V** 

#### 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

Li-ion 4 2 N

#### 18V 4.2Ah Combo Kit

- 1 EY74A1 Dual Voltage Drill & Driver • 2 - EY9L51B 18V 4.2Ah Battery Packs
- 1 Carry Bag



- 1 EY75A1 Dual Voltage Impact Driver
- 1 EY0L82B Charger





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14.4V



#### EY6432NQKW

#### Cordless 1/2" Drill & Driver Kit

15.6V

- 2.8Ah Ni-MH battery
- Compact size (L x H x W): 8-3/16" x 9" x 2-9/32"
- Light weight (incl. battery): 4.50 lbs.
- High power: 370 in. lbs.
- Variable speed control/reversible: Low: 65 450 rpm High: 200 -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
- Spindle Thread: 3/8" 24
- Charging Time (using EY0110B charger)\*: 45 minutes
- Electric brake
- New ergonomic design
- Kit includes 1 EY6432, 2 (EY9230B) 2.8Ah 15.6V Ni-MH Batteries, 1 - (EY0110B) Charger, and Case.

#### TYPICAL APPLICATION

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



#### EY6409NQKW

#### Cordless 1/2" Drill & Driver Kit

- 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
- Spindle Thread: 3/8" 24
- Charging Time (using EY0110B charger)\*: 45 minutes
- Electric brake

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- New ergonomic design
- Kit includes 1 EY6409. 2 (EY9200B) 2.8Ah 12V Ni-MH Batteries. 1 - (EY0110B) Charger, and Case.



#### TYPICAL APPLICATION

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

#### **EY6220NQ**

#### **Cordless Drill & Driver Kit**

• Compact size (L x H x W): 9-3/8" x 5" x 1-7/16" in straight format

- . Light weight (incl. battery): 0.90 lbs.
- Max. Torque: Low: 26 in. lbs. High: 13 in. lbs.
- Speed at No Load: Low: 200 rpm High: 400 rpm
- Clutch Torque (approx.): 3.5. 6.3. 9.1. 11.9. 14.7. 17.5 in. lbs. (multi-stage) (Max. Torque at 6 position)
- Easily converts from straight to pistol form
- 2-speed gear box
- 1/4" hex drive
- Multi-stage clutch plus drill
- Reversible
- · Gear lock mechanism for manual tightening
- Charging Time (using EY0L11B charger)\*: 45 minutes
- Kit includes 1 EY6220, 1 (EY9221B) 2.8Ah 2.4V Ni-MH Battery, and 1 - (EYOL11B) Charger.



#### TYPICAL APPLICATION

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

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

#### EY3530NQMKW

#### **Cordless Metal Cutter Kit**

15.6V

**2.4V** 

- 2.8Ah Ni-MH battery
- Compact size (L x H x W): 13-25/32" x 7-1/8" x 7-13/16"
- . Light weight (incl. battery): 6.70 lbs.
- Rotating Speed: 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.

#### TYPICAL APPLICATION • General construction

- Electric installation work
- Metal construction
- Plumbing





- blade for metal cutting
- 30 teeth
- Kerf (in.): 1/16" (.055)

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

#### EYC136NQKW

#### Metal Combo Kit

• 1 - EY3530 (Body): 15.6V Metal Cutter + Standard metal cutter blade

- 1 EY6432 (Body): 15.6V Drill & Driver
- 1 EY0110: Charger for Ni-MH battery pack
- 2 EY9230: 2.8Ah Ni-MH battery pack
- 1 Carrying Case



\*Charging times are approximate and may be slightly longer depending on conditions. 41

#### **Charger for Li-ion Batteries**

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

	TYPE OF BATTERY							
	Li-ion							
	LS TYPE LR TYPE LZ TYPE							
28.8V			EY9L82B					
21.6V			EY9L62B					
18V	EY9L51B	EY9L50B						
14.4V	EY9L45B	EY9L44B						
Charging Time	EY9L51B: 55 min.* 70 min. EY9L45B: 55 min.* 70 min.	40 min.* 55 min.	EY9L82B: 60 min.* 80 min. EY9L62B: 60 min.* 85 min.					



#### EYOL11B

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

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

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



#### EYOL10B

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

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

	TYPE OF BATTERY								
	Li-ion Ni-Cd								
	LA TYPE	C TYPE	D TYPE						
3.6V	EY9L10B	EY9025B							
2.4V			EY9021B						
Charging Time	15 min.* • 30 min.	15 min.	15 min.						



#### **EY0110B**

#### Charger for Ni-MH Batteries & Ni-Cd Batteries

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

	TYPE OF BATTERY									
		Ni-	мн			Ni-Cd				
	G T	YPE	N TYPE		V TYPE	F TYPE	E TYPE	C TYPE	D TYPE	
24V			EY9210B	EY9210B E		EY9116B				
18V	EY9251B									
15.6V		EY9231B		EY9230B		EY9136B				
12V		EY9201B		EY9200B		EY9106B	EY9101B	EY9006B	EY9001B	
9.6V							EY9182B/9180B	EY9086B	EY9080B	
7.2V			EY9166B			EY9066B				
Charging Time			60 min.	30 min.	25 min.	20 min.	20 min.			



#### Battery Pack / Battery Charger - Compatibility Chart

Voltage	Model			Battery						ng Time					Charger
vottage		Modet			15	30	35	40	50	55	60	70	75	80	Charger
28.8V	EY7880			EY9L82B							<b>^</b> *2			•	
18V			EY7450 EY7950	EY9L51B						*2		•			
			EY7552	EY9L50B				<b>^</b> *2		•					EY0L82B
	EY37C1B	EY74A1 EY45A1 EY75A4 EY75A5							*2		•				
14.4V		EY744 EY794 EY454 EY464	EY7441 EY7940 EY4542 EY4640	EY9L45B	-			<b>^</b> *2		•					
				EY7549	EY9L44B		*2	•							
3.6V	EY7410 EY7411			EY9L10B	*2	•									EY0L11B
15.6V	EY6432 EY3530			EY9230B				•							EY0110B
12V	EY6409			EY9200B				•							2101100
2.4V		EY6220		EY9221B				•							EY0L11B

#### Li-ion Capacity Table

#### **Impact Driver**

Voltage	18V		
Model No.	EY75A4LS2G		
Battery Type			EY9L51B (LS)
Fastening	Wood Screws in Yellow Pine	dia. 3/16" x 2-15/16"	610 pcs
rastening	Self-Drilling Screws in SPC	dia. 5/32" x 1/2" t=1/16"	990 pcs
	Standard Tensil Bolt	M16 x 1" t=3/8"	1,150 pcs
Bolting	Standard Tensil Bolt	M12 x 1" t=3/8"	2,700 pcs
	High Tensil Bolt	M12 x 1" t=3/8"	340 pcs

#### **High Torque Impact Wrench**

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

#### **Impact Wrench**

Voltage			18V	
Model No.			EY75A5LS2G	
Battery Type			EY9L51B (LS)	
	Wood Screws in Yellow Pine	dia. 3/16" x 2-15/16"	550 pcs	
Fastening	Wood Screws in Yellow Pine	dia. 3/16" x 4-3/4"	120 pcs	
	Self-Drilling Screws in SPC	dia. 5/32" x 1/2" t=1/16"	950 pcs	
	Standard Tensil Bolt	M16 x 1" t=3/8"	1,000 pcs	
Bolting	Standard Tensil Bolt	M14 x 1" t=3/8"	1,090 pcs	
	High Tensil Bolt	M12 x 1" t=3/8"	350 pcs	

#### Multi-Impact & Drill Driver

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

#### **Drill & Driver**

Voltage			14.4V			
Model No.	Model No.		EY7450LS2S	EY7450LR2S	EY74A1LS2G	EY7441LR2S
Battery Type		EY9L51B (LS)	EY9L50B (LR)	EY9L51B (LS)	EY9L44B (LR)	
	Wood Screws in Yellow Pine [High Mode]	dia. 5/32" x 1"	-	-	1,300 pcs	930 pcs
Fastening	Wood Screws in Yellow Pine [Low Mode]	dia. 5/16" x 3-5/32"	-	-	340 pcs	-
	Self-drilling Screws in SPC [High Mode]	dia. 5/32" x 1/2" t=1/16"	640 pcs	500 pcs	1,050 pcs	590 pcs
	Holes in Plaster Board + PlyWood (Wooding Core) [High Mode]	Plaster Board 1/2" + PlyWood 15/32" dia. 2-11/16" t=15/16"	75 pcs	60 pcs	80 pcs	-
	Holes in SPC [High Mode]	dia. 1/2" t=1/16"	300 pcs	240 pcs	-	-
Drilling	Holes in SPC (Hole saw) [High Mode]	dia. 13/16" x t=1/16"	45 pcs	35 pcs	40 pcs	19 pcs
	Holes in SPC (Hole saw) [Low Mode]	dia. 1-5/16" t=1/16"	45 pcs	35 pcs	60 pcs	16 pcs
	Holes in Yellow Pine [High Mode]	dia. 11/16" x t=4-3/4"	130 pcs	100 pcs	120 pcs	75 pcs
	Holes in Yellow Pine [Low Mode]	dia. 1-3/16" t=1-9/16"	-	-	220 pcs	120 pcs

Voltage		3.6V	3.6V
Model No.		EY7410LA2S	EY7411LA1S
Battery Type		EY9L10B (LA)	EY9L10B (LA)
Wood Screws dia. 1/8" x 1/2"		600 pcs	600 pcs
Screws in M5 x 5/16"		1,000 pcs	1,000 pcs
Holes in SPC	dia. 1/16", *t=1/16"	85 pcs	85 pcs

#### Hammer Drill & Driver

Voltage			10	14.4V	
Model No.			EY7950LS2S	EY7950LR2S	EY7940LR2S
Battery Type		EY9L51B (LS)	EY9L50B (LR)	EY9L44B (LR)	
	Wood Screws in Yellow Pine [High Mode]	dia. 1/4" x 3-5/32"	300 pcs	240 pcs	-
Fastening	Wood Screws in Yellow Pine [Low Mode]	dia. 5/16" x 3-5/32"	190 pcs	150 pcs	-
	Self-drilling Screws in SPC [High Mode]	dia. 5/32" x 1/2" t=1/16"	640 pcs	500 pcs	590 pcs
	Holes in Plaster Board + PlyWood Plaster Board 1/2"+ PlyWood 15/32" [Wooding Core] [High Mode] dia. 2-11/16" t=15/16"		75 pcs	60 pcs	-
	Holes in Plaster Board + PlyWood [Low Mode]	Plaster Board 1/2"+PlyWood 15/32" dia. 4-29/32" x 15/16"	30 pcs	25 pcs	-
	Holes in SPC [High Mode]	dia. 1/2" t=1/16"	300 pcs	240 pcs	-
	Holes in SPC (Hole saw) [High Mode]	dia. 13/16" x t=1/16"	45 pcs	35 pcs	19 pcs
Drilling	Holes in SPC (Hole saw) [Low Mode]	dia. 1-5/16" t=1/16"	45 pcs	35 pcs	16 pcs
	Holes in mortar [High Mode]	dia. 1/4" x 1-3/16" depth	180 pcs	140 pcs	85 pcs
	Holes in mortar [High Mode]	dia. 3/8" x 1-3/16" depth	140 pcs	110 pcs	-
	Holes in masonry [High Mode]	dia. 3/16" x 1-9/16" depth	150 pcs	120 pcs	-
	Holes in Yellow Pine [High Mode]	dia. 11/16" t=4-3/4"	130 pcs	100 pcs	75 pcs

#### SDS-Plus Rotary Hammer

Voltage		28.8V
Model No.		EY7880LP2S
Battery Typ	e	EY9L82B
	dia. 1/4" x 1-3/16"	160 holes /charge
	dia. 5/16" x 3-15/16"	30 holes /charge
Concrete*	dia. 1/2" x 1-9/16"	75 holes /charge
	dia. 9/16" x 3-17/32"	20 holes /charge
	dia. 25/32" x 1-9/16"	30 holes /charge

#### **Reciprocating Saw**

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

#### Multi-Purpose Metal Cutter

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

#### Angle Grinder\*

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

\*Capacity if using EY9L44B battery pack

#### Ni-MH Capacity Table

#### **Drill & Driver**

Voltage		15.6V	12V	2.4V	
Model No.		EY6432NQKW	EY6409NQKW	EY6220NQ	
	dia. 5/32" x 1"	-	525 pcs	-	
Wood Screws in Yellow Pine	dia. 1/4" x 2-1/2"	480 pcs	-	-	
	dia. 1/8" x 25/32"	-	-	280 pcs	
Self-Drilling Screws in SPC	dia. 1/8" x 1/2", *t=1/16"	-	730 pcs	-	
Holes in Yellow Pine dia. 1-7/16", *t=1-1/2"		120 pcs	-	_	
* Ti		· · · · · · · · · · · · · · · · · · ·		1747 - 41 - 1	

#### **Metal Cutter**

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

<sup>\*</sup> The above table shows average values. There may be some difference depending on the battery condition, the sharpness of the drill bit, the material hardness, etc.

\* t=thickness of material 

\*At concrete strength of medium hardness.

#### Standard / Optional Accessory Chart

#### STANDARD







Voltage			14.4V/18V						14.4V/18V/21.6V
Voltage					14.44/164				14.44/184/21.64
Model No.		EY74A1L52G	EY74A1X	EY75A4L52G	EY75A4X	EY75A5X	EY75A5L52G	EY45A1X	EY37C1
28.8V Battery Pack (3.0Ah Li-ion Battery Type P)	EY9L82B								
21.6V Battery Pack (4.2Ah Li-ion Battery Type S)	EY9L62B								0
18V Battery Pack (3.3Ah Li-ion Battery Type R)	EY9L50B	0	0	0	0	0	0	0	0
18V Battery Pack (4.2Ah Li-ion Battery Type S)	EY9L51B	•	0	•	0	0	•	0	0
15.6V Battery Pack (2.8Ah Ni-MH Battery Type N)	EY9230B								
14.4V Battery Pack (3.3Ah Li-ion Battery Type R)	EY9L44B	0	0	0	0	0	0	0	0
14.4V Battery Pack (4.2Ah Li-ion Battery Type S)	EY9L45B	0	0	0	0	0	0	0	0
12V Battery Pack (2.8Ah Ni-MH Battery Type N)	EY9200B								
3.6V Battery Pack (1.2Ah Li-ion Battery Type L)	EY9L10B								
2.4V Battery Pack (2.8Ah Ni-MH Battery Type N)	EY9221B								
Power Supply Kit	EYC941B	0	0	0	0	0	0	0	0
Power Supply Kit	EYC950B	0	0	0	0	0	0	0	0
Charger for Li-ion	EY0L82B	•	0	•	0	0	•	0	0
Charger for Ni-MH & Ni-Cd Battery (7.2-24V)	EY0110B								
Charger for Li-ion, Ni-MH battery	EY0L11B								
Attachable 1/2" to 1/4" Quick Change Adapter	EY9HX111E					•	•		
Attachable 1/2" Keyless Drill Chuck for EY7549	EY9X003E								
1/2" Keyless Chuck for 18V and 21.6V Drills	EY9HX410E	•	•						
1/2" Keyless Chuck for EY7441 and EY7940	EY9HX411E								
1/2" Keyless Drill Chuck for EY7950	EY9HX412E								
Carbide-Tipped Blade for Metal	EY9PM13C								
Carbide-Tipped Blade for Wood	EY9PW13A								
Rip Fence	EY3500B7727								
Dust collection cup	EY9X004E								
Clutch Lock Cover	EY9X007E								

28.8V	21	21.6V 18V						14.4V					3.6V			15.6V			12V 2.4V			
EY7880LP2S	EY7460LZ2S	EY7960LZ2S	EY7450LS2S	EY7450LR2S	EY7552LS2G	EY7552X	EY7950LS2S	EY7950LR2S	EY7441LR2S	EY7940LR2S	EY7549X	EY4542LR2M	EYC194LR	EY7411LA1S	EY7410LA2S	EY7410LA1C	EY6432NQKW	EY3530NQMKW	EYC136NQKW	EY6409NQKW	EY6220NQ	EY6220N
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