Panasonic presents innovative cordless tools in your assembly line

3 key concepts of Panasonic assembly tools

Quality (Torque Control)
User-Friendly (Safety/Comfort)
Eco-Friendly (Long Life)

Benefit of Cordless
There are huge benefits from using cordless tools, such as

- Greater flexibility in the design and layout of assembly area.
- Reduce product mutilations by eliminating air hoses.
- Increase safety by eliminating air hoses from the floor and overhead.
- Increase comfort by not having to be tethered to an air hose.

Extensive Torque Control Tools line-up
Panasonic offers advanced cordless tools which can cover up-to 650N·m torque control applications.

<table>
<thead>
<tr>
<th>Torque Control Tools</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.8V/14.4V Shut-off Impact Tools</td>
<td>Shut-off impact driver/wrench with Panasonic's original torque control algorithm. Applicable between M6 and M12 Bolt.</td>
</tr>
</tbody>
</table>
| Screwdriver (With Clutch) | High accuracy screwdriver ±1.0%, Cmk ≥ 1.67*(ISO5393) Applicable to M6 and M6 Bolt. *1

Long life technologies
Durable parts and technology deliver longer life

Long Life
Panasonic's Lithium-ion battery technology offers high capacity and longer life compared to Ni-MH batteries. *1 Additionally, Lithium-ion batteries have no memory effect and may be charged at anytime.

Lithium-ion Battery
Panasonic’s Lithium-ion battery technology offers high capacity and longer life compared to Ni-MH batteries. *1

Li-ion Battery

Li-ion Battery

Ni-MH Battery

100%

170%

Longer Life

With Air tools

With cordless tools

With cordless tools

No hose No cord!

Safe Clean!

Benefit of Cordless

There are huge benefits from using cordless tools, such as

- Greater flexibility in the design and layout of assembly area.
- Reduce product mutilations by eliminating air hoses.
- Increase safety by eliminating air hoses from the floor and overhead.
- Increase comfort by not having to be tethered to an air hose.
# Innovative Line of Torque-Controlled Cordless Power Tools Designed for Manufacturing

<table>
<thead>
<tr>
<th>Recommended Bolt Size</th>
<th>M5</th>
<th>M6</th>
<th>M8</th>
<th>M10</th>
<th>M12</th>
<th>M14</th>
<th>M16</th>
<th>M18</th>
<th>M20</th>
<th>M24</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Torque Control Tool</strong></td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
<td><img src="image7.png" alt="Image" /></td>
<td><img src="image8.png" alt="Image" /></td>
<td><img src="image9.png" alt="Image" /></td>
<td><img src="image10.png" alt="Image" /></td>
</tr>
<tr>
<td>Intelligent Auto-Shut Off Function</td>
<td>EYFGA1N</td>
<td>EYFGA2N</td>
<td>EYFGA3N</td>
<td>14.4V</td>
<td>Shut-Off Range: 2~10N·m</td>
<td>EYFLA4A</td>
<td>10.8V</td>
<td>Shut-Off Range: 0~22N·m</td>
<td>EYFLA5A</td>
<td>EYFLA5Q</td>
</tr>
<tr>
<td><strong>No Torque Control Tool</strong></td>
<td><img src="image11.png" alt="Image" /></td>
<td><img src="image12.png" alt="Image" /></td>
<td><img src="image13.png" alt="Image" /></td>
<td><img src="image14.png" alt="Image" /></td>
<td><img src="image15.png" alt="Image" /></td>
<td><img src="image16.png" alt="Image" /></td>
<td><img src="image17.png" alt="Image" /></td>
<td><img src="image18.png" alt="Image" /></td>
<td><img src="image19.png" alt="Image" /></td>
<td><img src="image20.png" alt="Image" /></td>
</tr>
<tr>
<td>EYFLC1A</td>
<td>10.8V</td>
<td>Shut-Off Range: 2~10N·m</td>
<td>EYFLB1A</td>
<td>10.8V</td>
<td>Shut-Off Range: 0~22N·m</td>
<td>EYFLB3J</td>
<td>10.8V</td>
<td>Shut-Off Range: 5~25N·m</td>
<td>EYFLB3A</td>
<td>10.8V</td>
</tr>
</tbody>
</table>
The unique Panasonic algorithm offers high power, high speed and high accuracy all together without torque reaction.

1. Two kinds of sensors (rotor angle sensor and impulse monitoring sensor) detect the change of motor speed and rpm between impulse. The control circuit with a Panasonic original algorithm calculates applied torque to deliver a flush finish.
2. When applied torque reaches the pre-set torque selection, the control method shifts to the Impulse monitoring mode and automatically stops after completing tightening.*

Panasonic Unique Impact Torque Control Technology

Torque Control Mechanism

Speed of impulse is always monitored. If it falls below the selected value due to lack of battery power, the necessary torque is added by calculating the loss of impulse.

Before the battery power becomes too low to adjust the torque, the power supply stops automatically until a charged battery pack is attached.

Selected torque is maintained regardless of battery power condition.

- Torque Adjustment
  - Speed of impulse is always monitored. If it falls below the selected value due to lack of battery power, the necessary torque is added by calculating the loss of impulse.
  - Battery indication lamp
    - 100-40%: Torque decreasing gradually
    - Less than 20%: Time to charge
    - Auto battery shut down indication

- Auto Battery Shut Down
  - Before the battery power becomes too low to adjust the torque, the power supply stops automatically until a charged battery pack is attached.

### Torque Control Technology

1. Torque calculation mode
   - Calculation of applied torque with sensors towards flush finishing
2. Impulse monitoring mode
   - Precise detection by impulse monitoring sensor
   - "Flush Point in case of L2" (L1: For lighter loads during fastener run down; L2: For prevailing torque during run down and varying joint rate applications)
3. Rotor angle sensor
   - Green light indicates tightening is completed

### Time to charge reminder

- **Battery Voltage**
  - 10.8V 2.0Ah
  - 14.4V 2.0Ah
  - 10.8V 3.0Ah
  - 14.4V 4.2Ah

### Light Weight

- **Approx. 1.3kg** (EYFLA5/EYFLA6)

### Retightening Prevention Function

- **Lifetime total performance improves drastically with Brushless-motor and Hybrid switch**

- **Have choice of Compact 2.0Ah or High Capacity 3.0/4.2Ah**

#### Additional charging is acceptable

Since there is no memory effect, the battery never deteriorates if you charge it additionally during a break.

#### Needle Bearings

Needle Bearings on the output shaft reduce the vibration and realize longer life.

#### More Features

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

- **Rubber grip**

- **LED Light**
  - For operations in dimly lit place

#### Color Plate for Differentiation

Each tool model is color coded for easy identification.
10.8V / 14.4V Impact Driver & Wrench with Torque Control

**Cordless Impact Driver**

**EYFLA4A**

<table>
<thead>
<tr>
<th>10.8V</th>
<th>10.8V</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0Ah</td>
<td>3.0Ah</td>
</tr>
</tbody>
</table>

**EYFLA5A**

<table>
<thead>
<tr>
<th>10.8V</th>
<th>10.8V</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0Ah</td>
<td>2.0Ah</td>
</tr>
</tbody>
</table>

**EYFLASQ**

<table>
<thead>
<tr>
<th>10.8V</th>
<th>10.8V</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.2Ah</td>
<td>4.2Ah</td>
</tr>
</tbody>
</table>

**Application**

- **Flush detection mode setting**
  - Stage 1: F (without torque setting mode)
  - Stage 2 to 30:
    - F mode: fastening 3 sec.
    - F mode: fastening 3 sec.

**Function**

- **Tightening confirmation lamp**
  - For lighter loads during fastener run down
  - For prevailing torque during run down and varying joint rate applications

**No load speed**

- **(unit: rpm)**
  - Stage 1: 0 ~ 950
  - Stage 2: 0 ~ 1300
  - Stage 3: 0 ~ 1450
  - Stage 4: 0 ~ 1550
  - Stage 5: 0 ~ 1500
  - Stage 6: 0 ~ 2000
  - Stage 7: 0 ~ 2500
  - Stage 8: 0 ~ 2800
  - Stage 9: 0 ~ 3000
  - Stage 10: 0 ~ 3600

**Impact per minute**

- Stage 1: 0 ~ 950
  - Stage 2: 0 ~ 1300
  - Stage 3: 0 ~ 1450
  - Stage 4: 0 ~ 1550
  - Stage 5: 0 ~ 2000
  - Stage 6: 0 ~ 2500
  - Stage 7: 0 ~ 2800
  - Stage 8: 0 ~ 3000
  - Stage 9: 0 ~ 3600

**Shut-off range**

- Approx. 3—22 N·m
- Approx. 6—30 N·m
- Approx. 6—30 N·m

**Auto battery shut down**

- Stage 1: 0 ~ 950
  - Stage 2: 0 ~ 1300
  - Stage 3: 0 ~ 1450
  - Stage 4: 0 ~ 1550
  - Stage 5: 0 ~ 2000
  - Stage 6: 0 ~ 2500
  - Stage 7: 0 ~ 2800
  - Stage 8: 0 ~ 3000
  - Stage 9: 0 ~ 3600

**Chuck size**

- Single-ended 9mm
- Double-ended 12mm

**Maximum torque**

- (F mode, fastening 3 sec.)
  - Approx. 40 N·m
  - Approx. 90 N·m
  - Approx. 90 N·m

**Weight**

- Approx. 1.3kg
- Approx. 1.5kg
- Approx. 1.7kg

**Charging time**

- Battery pack EYFB30B, Charger EY0L82B
  - Usable charge: approx. 35 min.
  - Full charge: approx. 45 min.

**Tightening Torque Chart**

The values illustrated on this chart were measured under Panasonic measuring condition and are provided for reference purposes. Actual tightening torque varies with various conditions such as the particular bolt being tightened, fastener being used, method of holding the bolt in place, etc.

**Optional Accessory**

- EYFA02 (gray), EYFA03 (gray)
- EYFA04-H (gray), EYFA06-H (gray)
- EYFA02-H (gray), EYFA03-H (gray)
- EYFA04 (gray), EYFA06 (gray)
- EYFB41B (light Weight 2.4Ah)
- EYFB42B (light Weight 3.0Ah)
- EY0L82B (High Capacity 3.0Ah)
- EY0L84B (High Capacity 4.2Ah)
- EYFA04-H (gray), EYFA06-H (gray)
- EYFB42B (for EYFB41B)
- EYFB41B (for EYFB42B)
- EYFLA4A (Medium Duty 9.5mm)
- EYFLA5A (Medium Duty 12.7mm)
- EYFLASQ (Heavy Duty 12.7mm)

**Cordless Impact Wrench**

**EYFLAJJ**

<table>
<thead>
<tr>
<th>10.8V</th>
<th>10.8V</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0Ah</td>
<td>3.0Ah</td>
</tr>
</tbody>
</table>

**EYFLA5J**

<table>
<thead>
<tr>
<th>10.8V</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2.0Ah</td>
<td>2.0Ah</td>
</tr>
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</table>

**EYFLAM1J**

<table>
<thead>
<tr>
<th>10.8V</th>
<th>10.8V</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.2Ah</td>
<td>4.2Ah</td>
</tr>
</tbody>
</table>

**Application**

- **Flush detection mode setting**
  - Stage 1: F (without torque setting mode)
  - Stage 2 to 30:
    - For lighter loads during fastener run down
    - For prevailing torque during run down and varying joint rate applications

**Function**

- **Tightening confirmation lamp**
  - For lighter loads during fastener run down
  - For prevailing torque during run down and varying joint rate applications

**No load speed**

- **(unit: rpm)**
  - Stage 1: 0 ~ 950
  - Stage 2: 0 ~ 1300
  - Stage 3: 0 ~ 1450
  - Stage 4: 0 ~ 1550
  - Stage 5: 0 ~ 2000
  - Stage 6: 0 ~ 2500
  - Stage 7: 0 ~ 2800
  - Stage 8: 0 ~ 3000
  - Stage 9: 0 ~ 3600

**Impact per minute**

- Stage 1: 0 ~ 950
  - Stage 2: 0 ~ 1300
  - Stage 3: 0 ~ 1450
  - Stage 4: 0 ~ 1550
  - Stage 5: 0 ~ 2000
  - Stage 6: 0 ~ 2500
  - Stage 7: 0 ~ 2800
  - Stage 8: 0 ~ 3000
  - Stage 9: 0 ~ 3600

**Shut-off range**

- Approx. 3—22 N·m
- Approx. 6—30 N·m
- Approx. 6—30 N·m

**Auto battery shut down**

- Stage 1: 0 ~ 950
  - Stage 2: 0 ~ 1300
  - Stage 3: 0 ~ 1450
  - Stage 4: 0 ~ 1550
  - Stage 5: 0 ~ 2000
  - Stage 6: 0 ~ 2500
  - Stage 7: 0 ~ 2800
  - Stage 8: 0 ~ 3000
  - Stage 9: 0 ~ 3600

**Chuck size**

- 9.5mm Square Drive
- Double-hole type

**Maximum torque**

- (F mode, fastening 3 sec.)
  - Approx. 120 N·m
  - Approx. 185 N·m

**Weight**

- Approx. 1.25kg
- Approx. 1.4kg
- Approx. 1.6kg

**Charging time**

- Battery pack EYFB30B, Charger EY0L82B
  - Usable charge: approx. 35 min.
  - Full charge: approx. 45 min.

- Battery pack EYFB42B, Charger EY0L82B
  - Usable charge: approx. 35 min.
  - Full charge: approx. 45 min.

- Battery pack EYFB41B, Charger EY0L82B
  - Usable charge: approx. 35 min.
  - Full charge: approx. 45 min.

*Weights are described in 0.05kg increment. *There are models limited to particular region.
Cordless Impact Driver

EYFLB1A  EYFLB2A  EYFLB3A

10.8V  10.8V  10.8V

*Battery pack is not included

<table>
<thead>
<tr>
<th>Chuck size</th>
<th>Single-ended 9mm</th>
<th>Double-ended 12mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Screw</td>
<td>M5-M6 (Normal-Tensile bolt)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M8 bolt (Normal bolt)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M6 bolt (Tensile bolt)</td>
</tr>
<tr>
<td>Maximum torque</td>
<td>approx. 40 N·m</td>
<td>0 – 2300</td>
</tr>
<tr>
<td>(F mode, fastening 3 sec.)</td>
<td></td>
<td>approx. 90 N·m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(M10 bolt)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>approx. 120 N·m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(M14 bolt)</td>
</tr>
<tr>
<td>No load speed</td>
<td>0 ~ 2300</td>
<td>0 ~ 3000</td>
</tr>
<tr>
<td>Weight* (incl. battery)</td>
<td>EYFB30B</td>
<td>approx. 1.3kg</td>
</tr>
<tr>
<td></td>
<td>EYFB32B</td>
<td>approx. 1.15kg</td>
</tr>
<tr>
<td>Battery indication lamp</td>
<td>(3 stage)</td>
<td>(3 stage)</td>
</tr>
<tr>
<td>Auto battery shut down</td>
<td>Off mode</td>
<td>Off mode</td>
</tr>
<tr>
<td>Charging time</td>
<td>(Battery pack EYFB30B, Charger EY0L82B)</td>
<td>Usable charge: approx. 35 min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Full charge: approx. 45 min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Battery Pack EYFB32B, Charger EY0L82B)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Full Charge: approx. 40 min.</td>
</tr>
</tbody>
</table>

*Weights are described in 0.05kg increment. *There are models limited to particular region.

<table>
<thead>
<tr>
<th>Tightening Torque Chart (for Reference Use)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N = m</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>0  0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0</td>
</tr>
<tr>
<td>0  0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0</td>
</tr>
<tr>
<td>0  0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0</td>
</tr>
</tbody>
</table>

*Values illustrated on this chart were measured under Panasonic measuring condition and are provided for reference purposes. Actual tightening torque varies with ambient conditions (the particular bolt being tightened, hardware being used, method of holding the bolt in place, etc.).
Compact & Slim 14.4V Cordless Shut-Off Right Angle Impact Wrench

For tight spot fastenings with high-power, high speed and virtually no torque reaction

Compact and slim right angle tool with advanced ergonomics to help improve your work efficiency

EYFME1’s compact and slim body can fit easily in tight areas and provide more reach.

EYFME1 has virtually no torque reaction, so the tool can be used with only one hand even when torque requirement is high.

Ergonomic design with user-friendly long paddle switch

360° Rotating Head (90° step size)

Full-Scale Drawing

Shut-Off Range
10~53 N•m

Maximum Torque 
80 N•m (After 00 sec.)

Torque control for tight spot applications

*Please make sure the screw to fix angle head isn’t loose before use.

EYFME1 can reduce burdensome hand tool applications.
13 14

14.4V Right Angle Impact Wrench with Torque Control

### Advanced Fastening Features
- **Cross Thread Reduction**
  The tool first reverses 360 degree, aligning the threads, greatly reducing the possibility of cross threads.

- **Rundown Error Detecting Function**
  If the clutch is activated before the programmable minimum runtime, the tool alerts the operator to a NOK fastening.
  (Time setting: 0.1 - 3.0 sec, 0.1 sec per stage)

- **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 interval, the tool is locked out from further use. This function can be set ON or OFF and is defined in 10,000 times per stage.

- **Auto Battery Shut Down**
  Before the battery power becomes too low to maintain the torque, the power supply stops automatically until a charged battery pack is attached.

### Additional Features
- **Paddle Switch**
  Long paddle switch provides options of grip position. The possibility of grip position, Paddle Switch provides more reach.

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

- **Tool Hanger**
  The tool can be hanged on the balancer to replace the usage of the holder.

- **Battery Shut-off Range**
  approx. 10 - 53 N·m

- **Rundown Time**
  approx. 0 - 2300

- **No Load Speed**
  approx. 360rpm

- **Weight**
  approx. 1.5kg (EYFB41B), approx. 1.7kg (EYFB42B)

- **Impact Per Minute**
  approx. 3000

- **Length**
  approx. 399mm (EYFB42B), approx. 381mm (EYFB41B)

- **Height**
  approx. 96mm (Height of battery pack: approx. 101mm)

- **Width**
  approx. 60mm (Width of battery pack: approx. 75mm)

- **Torque Adjustment**
  OK/NOK both visual and audible indicators.

- **Tightening Confirmation Lamp**
  (Possible to choose from the 2 LED light modes. by ON/OFF switch or trigger switch interlocked)

- **Cross Thread Reduction**
  Possible to choose ON/OFF.

- **Buzzer**
  Possible to choose from the 3 buzzer modes, No buzzer, buzzer with OK or buzzer with NOK.

- **Tightening Confirmation Lamp**
  Possible to choose from the 2 LED light modes, by ON/OFF switch or trigger switch interlocked.

- **Battery Indication Lamp**
  (Possible to choose from the 4 LED light modes. by ON/OFF switch or trigger switch interlocked)

- **Remote Control**
  (Possible to choose from the 3 buzzer modes, No buzzer, buzzer with OK or buzzer with NOK).

- **Auto Battery Shut Down**
  (Possible to choose between 0 ~ 3 sec.. 0.1 sec. per stage)

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

### Torque Setting
- **Maximum Torque**
  approx. 80 N·m (M12, F mode, fastening 3sec.)
- **Shut-off Range**
  approx. 10 - 53 N·m

### Torque Setting Chart
- **Example with 3.0sec normal time setting**
  - OK: Finished with 3.0sec.
  - NOK: Finished with 2.0sec.
  - Retightening: Finished with 0.5sec.

### Application
- **Battery Pack**
  EYFB41B, EYFB42B
- **Charger**
  EY0L82B

### Usage Information
- **Battery Pack**
  EYFB41B: approx. 120 pcs/pack, approx. 2.2 sec/1pcs
  EYFB42B: approx. 250 pcs/pack, approx. 2.2 sec/1pcs

### Technical Specifications
- **Charging Time**
  approx. 35min., Full Charge: approx. 40min
  (Battery Pack EYFB41, Charger EY0L82B)
  approx. 50min., Full Charge: approx. 60min
  (Battery Pack EYFB42, Charger EY0L82B)

### Torque Setting Table

#### Tightening Torque Chart (for Reference Use)

<table>
<thead>
<tr>
<th>Torque Setting Stage</th>
<th>N·m</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>2.8</td>
</tr>
<tr>
<td>20</td>
<td>5.5</td>
</tr>
<tr>
<td>30</td>
<td>8.2</td>
</tr>
</tbody>
</table>

The values illustrated on this chart were measured under Panasonic measuring conditions and are provided for reference purposes. Actual tightening torque varies with ambient conditions (the particular bolt being tightened, hardware being used, method of holding the bolt in place, etc.).
Fasten large bolts with virtually no torque reaction and no more air hoses

High-Efficient Double Hammer Block Mechanism
With the newly developed Double Hammer Block, High power and compact-light body become compatible. It also reduces the tool’s vibration and thus operator’s fatigue.

21.6V EYFPA1

- Shut-Off Range 160~650 N-m
- Maximum Torque 700 N-m (After 3 sec.)
- Light Weight approx. 3.6 kg
- High Capacity 4.2Ah

18V EYFNA1

- Shut-Off Range 70~200 N-m
- Maximum Torque 470 N-m (After 3 sec.)
- Light Weight approx. 3.0 kg
- High Capacity 5.0Ah

Advanced technologies to realize compact size, lightweight and outstanding high power

Compact and High-Power Brushless Motor
Compact and high-power brushless motor accomplishes heavy load applications.

Advanced Fastening Features

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

Reverse Rotation!

360° reverse rotation before fastening
The screws threads are aligned with the hole
Automatically shifting to normal rotation

Rundown Error Detecting Function
If the clutch 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 stage)

- Example with 3.0sec. normal time setting

Max. Torque 700 N-m

Auto Battery Shut Down
Before the battery power becomes too low to maintain the torque, the power supply stops automatically until a charged battery pack is attached.

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

Additional Features

Ergonomic design by computing the best weighted center position

Tool Hanger
The tool can be hanged on the balancer both vertically and horizontally

Light Weight
3.0kg
3.6kg
High Capacity
4.2Ah
5.0Ah

18V EYFNA1
21.6V EYFPA1

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

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

Non-skid rubber grip

Vertical hanging
Horizontal hanging

Non-skid rubber grip
Cordless Impact Wrench

**EYFNA1C**

*Optional Accessory*

18V Li-Ion Battery Pack EYFB60B

**EYFPA1J**

*Optional Accessory*

21.6V Li-Ion Battery Pack EYFB60B

**Application**

- **EYFNA1C**: M12 (High-Tensile bolt), M14 (Normal-High Tensile bolt)
- **EYFPA1J**: M16 (High-Tensile bolt), M18 (Normal, High-Tensile bolt), M20 (Normal bolt), M24 (Normal bolt)

**Maximum torque**

- **EYFNA1C**: approx. 470 N·m (M32 Tensile bolt, F mode, fastening 3sec.), approx. 520 N·m (M24 Tensile bolt, F mode, fastening 5sec.)
- **EYFPA1J**: approx. 700 N·m (M32 Tensile bolt, F mode, fastening 3sec.), approx. 750 N·m (M24 Tensile bolt, F mode, fastening 5sec.)

**No load speed (unit : rpm)**

- **EYFNA1C**: 1, 5, 10, 15, 20, 25, 30
- **EYFPA1J**: 0, 150, 300, 400, 500, 600, 700

**Weight*1 (inc. battery)**

- **EYFNA1C**: approx. 3.0kg
- **EYFPA1J**: approx. 3.6kg

**Height**

- **EYFNA1C**: approx. 286mm
- **EYFPA1J**: approx. 295mm

**Width**

- **EYFNA1C**: approx. 77mm (Width of battery pack: approx. 76mm)
- **EYFPA1J**: approx. 77mm (Width of battery pack: approx. 77mm)

**Battery indication lamp**

- **EYFNA1C**: (3 stage)
- **EYFPA1J**: (3 stage)

**Auto battery shut down**

- **EYFNA1C**: *
- **EYFPA1J**: *

**Work capacity / Fastening speed**

- **EYFNA1C**: <M12: 100 N·m, Stage: 13> approx.500pcs/pack
- **EYFPA1J**: <M16: 180 N·m, Stage: 6> approx.450pcs/pack

**Charging time**

- **EYFNA1C**: (Battery pack EYFB60B, Charger EYOL82B) Usable Charge: approx. 65 min., Full Charge: approx. 80 min
- **EYFPA1J**: (Battery pack EYFB60B, Charger EYOL82B) Usable Charge: approx. 65 min., Full Charge: approx. 85 min

*Weights are described in 0.5kg increment. *There are models limited to particular region.

---

**Function**

- **EYFNA1C**: Long life, Light weight, High torque, Torque setting stage
- **EYFPA1J**: Long life, Light weight, High torque, Torque setting stage

---

**Maintenance interval alarm function**

- **EYFNA1C**: 30 stage + F (without torque setting mode)
- **EYFPA1J**: 30 stage + F (without torque setting mode)

**Rundown error detecting**

- **EYFNA1C**: (OK fastening: Green lamp. NOK fastening: Red lamp)
- **EYFPA1J**: (OK fastening: Green lamp. NOK fastening: Red lamp)

**Tightening confirmation lamp**

- **EYFNA1C**: (OK fastening: Green lamp. NOK fastening: Red lamp)
- **EYFPA1J**: (OK fastening: Green lamp. NOK fastening: Red lamp)

**Cross thread reduction**

- **EYFNA1C**: (Possible to choose from the 3 buzzer modes, No buzzer, buzzer with OK, buzzer with NOK)
- **EYFPA1J**: (Possible to choose from the 3 buzzer modes, No buzzer, buzzer with OK, buzzer with NOK)

**Flush detection mode setting**

- **EYFNA1C**: L1: For lighter loads during fastener run down
- **EYFPA1J**: L1: For lighter loads during fastener run down

**No load speed (unit : rpm)**

- **EYFNA1C**: 0 ~ 1900
- **EYFPA1J**: 0 ~ 1900

**Impact per minute**

- **EYFNA1C**: 0 ~ 2200
- **EYFPA1J**: 0 ~ 2200

**Impact Wrench with Torque Control**

- **EYFNA1C**: 18V/21.6V
- **EYFPA1J**: 21.6V

**Weight**

- **EYFNA1C**: approx. 3.0kg
- **EYFPA1J**: approx. 3.6kg

**Height**

- **EYFNA1C**: approx. 286mm
- **EYFPA1J**: approx. 295mm

**Width**

- **EYFNA1C**: approx. 77mm (Width of battery pack: approx. 76mm)
- **EYFPA1J**: approx. 77mm (Width of battery pack: approx. 77mm)

**Battery indication lamp**

- **EYFNA1C**: (3 stage)
- **EYFPA1J**: (3 stage)

**Auto battery shut down**

- **EYFNA1C**: *
- **EYFPA1J**: *

**Work capacity / Fastening speed**

- **EYFNA1C**: <M12: 100 N·m, Stage: 13> approx.500pcs/pack
- **EYFPA1J**: <M16: 180 N·m, Stage: 6> approx.450pcs/pack

**Charging time**

- **EYFNA1C**: (Battery pack EYFB60B, Charger EYOL82B) Usable Charge: approx. 65 min., Full Charge: approx. 80 min
- **EYFPA1J**: (Battery pack EYFB60B, Charger EYOL82B) Usable Charge: approx. 65 min., Full Charge: approx. 85 min

*Weights are described in 0.5kg increment. *There are models limited to particular region.

---

**Tightening Torque Chart (for Reference Use)**

- **EYFNA1C**: N·m
- **EYFPA1J**: N·m

---

18/21.6V Impact Wrench with Torque Control
14.4V Precision Screwdriver with Advanced Fastening Features

Various Fastening Support Features

- Light and buzzer indicates fastenings' OK/NOK (Buzzer ON/OFF can be selected)
- Optional batteries: Compact 2.0Ah or High Capacity 4.2Ah

2.0Ah 4.2Ah

14.4V

10%•Cmk 1.67* (ISO5393)

High Accuracy

3 model line-up can cover a wide range of applications

Torque and RPM range by models

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque (N·m)</th>
<th>RPM Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYFGA1N/NR</td>
<td>2-5.5N·m</td>
<td>150-800 rpm</td>
</tr>
<tr>
<td>EYFGA2N/NR</td>
<td>5-8N·m</td>
<td>150-750 rpm</td>
</tr>
<tr>
<td>EYFGA3N/NR</td>
<td>5-10N·m</td>
<td>150-650 rpm</td>
</tr>
</tbody>
</table>

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

Accurate and Easy 60 Stage Adjustable Clutch

How to set clutch

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

Clutch stage “1”

Quickly set the torque by adjusting the scale.

Advanced Fastening Features

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

Rundown Error Detecting Function
If the clutch 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 stage)

Auto Downshift Function
After a programmable period of time, the rpm automatically downshifts to 300 rpm. This can reduce the fasteners impact to the material, maximizing operator's productivity.

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)

Auto Battery Shut Down
Before the battery power becomes too low to maintain the torque, the power supply stops automatically until a charged battery pack is attached.

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

Durable Design

Long Life Clutch with Photo Interrupter Sensor
The Photo Interrupter Sensor, which senses the clutch plate movement, increases clutch life by not relying on mechanical contacts that wear.

More Features

- LED Light For operations in dimly lit place (On/Off switch interlocked or Trigger switch interlocked)
- Compact and Lightweight A well-balanced compact and light design
- Color Plate for Differentiation Each tool model is color coded for easy identification.
- Remote Control Tool setting can be set only by remote control.

Compact and Light New 2.0Ah Li-ion Battery Pack! (EYFB41B)

Rubber grip

Remote Control

Tool Hanger

Auto Battery Shut Down

Variable Speed Control Function

Durable Design

Long Life Clutch with Photo Interrupter Sensor

The Photo Interrupter Sensor, which senses the clutch plate movement, increases clutch life by not relying on mechanical contacts that wear.

360° reverse rotation before fastening

The screws threads are aligned with the hole

Automatically shifting to normal rotation

Example with 3.0sec. normal time setting

NOK NOK OK

3.0sec 2.0sec 0.5sec

Finished with 3.0sec. rundown time

Finished with 2.0sec. rundown time due to cross thread

Finished with 0.5sec. rundown time due to retightening

Durable Design

More Features

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Auto Battery Shut Down

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NOK NOK OK

3.0sec 2.0sec 0.5sec

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Finished with 0.5sec. rundown time due to retightening

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Compact and Light New 2.0Ah Li-ion Battery Pack! (EYFB41B)

Rubber grip

Remote Control

Tool Hanger

Auto Battery Shut Down

Variable Speed Control Function

Durable Design

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The Photo Interrupter Sensor, which senses the clutch plate movement, increases clutch life by not relying on mechanical contacts that wear.

360° reverse rotation before fastening

The screws threads are aligned with the hole

Automatically shifting to normal rotation

Example with 3.0sec. normal time setting

NOK NOK OK

3.0sec 2.0sec 0.5sec

Finished with 3.0sec. rundown time

Finished with 2.0sec. rundown time due to cross thread

Finished with 0.5sec. rundown time due to retightening

Durable Design

More Features

- LED Light For operations in dimly lit place (On/Off switch interlocked or Trigger switch interlocked)
- Compact and Lightweight A well-balanced compact and light design
- Color Plate for Differentiation Each tool model is color coded for easy identification.
- Remote Control Tool setting can be set only by remote control.

Compact and Light New 2.0Ah Li-ion Battery Pack! (EYFB41B)

Rubber grip

Remote Control

Tool Hanger

Auto Battery Shut Down

Variable Speed Control Function

Durable Design

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The Photo Interrupter Sensor, which senses the clutch plate movement, increases clutch life by not relying on mechanical contacts that wear.

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The screws threads are aligned with the hole

Automatically shifting to normal rotation

Example with 3.0sec. normal time setting

NOK NOK OK

3.0sec 2.0sec 0.5sec

Finished with 3.0sec. rundown time

Finished with 2.0sec. rundown time due to cross thread

Finished with 0.5sec. rundown time due to retightening

Durable Design

More Features

- LED Light For operations in dimly lit place (On/Off switch interlocked or Trigger switch interlocked)
- Compact and Lightweight A well-balanced compact and light design
- Color Plate for Differentiation Each tool model is color coded for easy identification.
- Remote Control Tool setting can be set only by remote control.

Compact and Light New 2.0Ah Li-ion Battery Pack! (EYFB41B)
### 14.4V Cordless Screwdriver

- **Cordless Screwdriver**
- **Model:** EYFGA1N / EYFGA2N / EYFGA3N

#### Features
- **Chuck size:**
  - Single-ended: 9-13mm
  - Double-ended: 12-16mm

#### Specifications
- **Clutch torque (Low):** 2 - 5.5 N·m
- **Clutch torque (High):** 5 - 8 N·m
- **Clutch torque (Max):** 5 - 10 N·m
- **Chuck size:**
  - Single-ended: 9-13mm
  - Double-ended: 12-16mm

#### Weight
- **Weight (incl. battery):**
  - EYFB41B: approx. 1.25kg
  - EYFB42B: approx. 1.5kg

#### Size
- **Size (LxHxW):**
  - EYFB41B: 199mm × 232mm × 54mm (Width of battery pack: 75mm)
  - EYFB42B: 199mm × 249mm × 54mm (Width of battery pack: 75mm)

#### Function
- **Rotation speed adjustment (Max.RPM):**
  - Possible to choose the Max.RPM setting.
  - GA1: 150 - 800 rpm
  - GA2: 150 - 750 rpm
  - GA3: 150 - 450 rpm
  - 10RPM per stage
- **Auto downshift function:**
  - Possible to choose the timing of auto downshift between 0 ~ 3 sec.
  - 0.1 sec. per stage
- **Cross thread reduction:**
  - The tool rotates approx. 360 degree in reverse before fastening starts.
  - Possible to choose ON/OFF
- **Rundown error detecting function:**
  - Alert with Red light.
  - Possible to set between 0 ~ 3 sec.
  - 0.1 sec. per stage
- **Maintenance interval alarm function:**
  - Possible to set between 0 - 990,000 times.
  - 10,000 times per stage
- **Battery indication lamp:**
  - 3 stage
- **Auto battery shut down:**
  - (3 stage)
- **Charging time:**
  - (Battery Pack EYFB41, Charger EY0L82B)
  - Usable: approx. 35min.
  - Full: approx. 40min.
  - (Battery Pack EYFB42, Charger EY0L82B)
  - Usable: approx. 50min.
  - Full: approx. 60min

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### 3.6V Cordless Screwdriver

- **Cordless Screwdriver**
- **Model:** EY7410LA2S

#### Features
- **Max.torque:**
  - Low: 4.4 N·m
  - High: 1.5 N·m

#### Speed at no load
- **Speed at no load:**
  - Low: 200 rpm
  - High: 600 rpm

#### Clutch torque (approx.)
- **Clutch torque:**
  - Low: 0.3 - 2.9 N·m
  - High: 0.1 N·m

#### Charging time
- **Charging time:**
  - Usable: 15 minutes
  - Full: 30 minutes

#### Weight (incl. battery)
- **Weight:**
  - EY7410LA2S: 0.5 kg

#### Size
- **Size (LxHxW):**
  - 276 mm x 134 mm x 46 mm

#### Working capacity
- **Fastening:**
  - Wood Screws in Yellow Pine
  - ø3.1 x 13 mm: 600 pcs
  - Screws in Sheet Metal (pre-hole)
  - M5 x 8 mm: 1100 pcs

#### Standard accessory
- **Standard accessory:**
  - 2 X 1.5Ah Li-ion battery pack (EY9L10B)
  - Charger (EY0L11B)
  - Clutch lock cover

#### Optional Accessory
- **1.5Ah Li-ion Battery Pack EY9L10B**
- **Charger EY0L11B**

---

*Weights are described in 0.05kg increment. There are models limited to particular region.*
### Features Chart

<table>
<thead>
<tr>
<th>Feature</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque adjustment</td>
<td>EYFLA4A, EYFLA5A, EYFLA6J, EYFLA5Q, EYFLA5QR, EYFLA6JR, EYFLB1A, EYFLB2A, EYFLB3A, EYFLC1A, EYFLA4AR, EYFLA5AR, EYFLB2A, EYFLB3A, EYFLA5Q, EYFLA5QR, EYFLB2Q, EYFLB3Q, EYFLA6J, EYFLA6JR, EYFLB3J, EYFLC1A</td>
</tr>
<tr>
<td>Auto battery shut down</td>
<td>EYFLA4A, EYFLA5A, EYFLA6J, EYFLA5Q, EYFLA5QR, EYFLA6JR, EYFLB1A, EYFLB2A, EYFLB3A, EYFLC1A, EYFLA4AR, EYFLA5AR, EYFLB2A, EYFLB3A, EYFLA5Q, EYFLA5QR, EYFLB2Q, EYFLB3Q, EYFLA6J, EYFLA6JR, EYFLB3J, EYFLC1A</td>
</tr>
<tr>
<td>Retightening prevention function</td>
<td>EYFLA4A, EYFLA5A, EYFLA6J, EYFLA5Q, EYFLA5QR, EYFLA6JR, EYFLB1A, EYFLB2A, EYFLB3A, EYFLC1A, EYFLA4AR, EYFLA5AR, EYFLB2A, EYFLB3A, EYFLA5Q, EYFLA5QR, EYFLB2Q, EYFLB3Q, EYFLA6J, EYFLA6JR, EYFLB3J, EYFLC1A</td>
</tr>
<tr>
<td>Cross thread reduction</td>
<td>EYFLA4A, EYFLA5A, EYFLA6J, EYFLA5Q, EYFLA5QR, EYFLA6JR, EYFLB1A, EYFLB2A, EYFLB3A, EYFLC1A, EYFLA4AR, EYFLA5AR, EYFLB2A, EYFLB3A, EYFLA5Q, EYFLA5QR, EYFLB2Q, EYFLB3Q, EYFLA6J, EYFLA6JR, EYFLB3J, EYFLC1A</td>
</tr>
<tr>
<td>Rundown error detecting function</td>
<td>EYFLA4A, EYFLA5A, EYFLA6J, EYFLA5Q, EYFLA5QR, EYFLA6JR, EYFLB1A, EYFLB2A, EYFLB3A, EYFLC1A, EYFLA4AR, EYFLA5AR, EYFLB2A, EYFLB3A, EYFLA5Q, EYFLA5QR, EYFLB2Q, EYFLB3Q, EYFLA6J, EYFLA6JR, EYFLB3J, EYFLC1A</td>
</tr>
<tr>
<td>RPM adjustment</td>
<td>EYFLA4A, EYFLA5A, EYFLA6J, EYFLA5Q, EYFLA5QR, EYFLA6JR, EYFLB1A, EYFLB2A, EYFLB3A, EYFLC1A, EYFLA4AR, EYFLA5AR, EYFLB2A, EYFLB3A, EYFLA5Q, EYFLA5QR, EYFLB2Q, EYFLB3Q, EYFLA6J, EYFLA6JR, EYFLB3J, EYFLC1A</td>
</tr>
<tr>
<td>Auto downshift function</td>
<td>EYFLA4A, EYFLA5A, EYFLA6J, EYFLA5Q, EYFLA5QR, EYFLA6JR, EYFLB1A, EYFLB2A, EYFLB3A, EYFLC1A, EYFLA4AR, EYFLA5AR, EYFLB2A, EYFLB3A, EYFLA5Q, EYFLA5QR, EYFLB2Q, EYFLB3Q, EYFLA6J, EYFLA6JR, EYFLB3J, EYFLC1A</td>
</tr>
<tr>
<td>Variable speed control function</td>
<td>EYFLA4A, EYFLA5A, EYFLA6J, EYFLA5Q, EYFLA5QR, EYFLA6JR, EYFLB1A, EYFLB2A, EYFLB3A, EYFLC1A, EYFLA4AR, EYFLA5AR, EYFLB2A, EYFLB3A, EYFLA5Q, EYFLA5QR, EYFLB2Q, EYFLB3Q, EYFLA6J, EYFLA6JR, EYFLB3J, EYFLC1A</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>EYFLA4A, EYFLA5A, EYFLA6J, EYFLA5Q, EYFLA5QR, EYFLA6JR, EYFLB1A, EYFLB2A, EYFLB3A, EYFLC1A, EYFLA4AR, EYFLA5AR, EYFLB2A, EYFLB3A, EYFLA5Q, EYFLA5QR, EYFLB2Q, EYFLB3Q, EYFLA6J, EYFLA6JR, EYFLB3J, EYFLC1A</td>
</tr>
</tbody>
</table>

*There are models limited to particular region.

*Variable speed control function: Models with “○” don’t have ON/OFF setting.

### Battery Pack / Battery Charger - Compatibility Chart

<table>
<thead>
<tr>
<th>Battery Pack</th>
<th>Model</th>
<th>Charger</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.6V</td>
<td>EYFPA1J</td>
<td>EYFB60B</td>
</tr>
<tr>
<td></td>
<td>EYFMA1J, EYFMA1JR</td>
<td>EYFB50B</td>
</tr>
<tr>
<td>18V</td>
<td>EYFNA1C</td>
<td>EYFB42B</td>
</tr>
<tr>
<td></td>
<td>EYFMA1J, EYFMA1JR</td>
<td>EYFB41B</td>
</tr>
<tr>
<td>14.4V</td>
<td>EYFGA1N, EYFGA2N, EYFGA3N, EYFGA1NR, EYFGA2NR, EYFGA3NR</td>
<td>EYFB30B</td>
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<tr>
<td></td>
<td>EYFME1C</td>
<td>EYFB41B</td>
</tr>
<tr>
<td></td>
<td>EYFMA1J, EYFMA1JR</td>
<td>EYFB30B</td>
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<tr>
<td></td>
<td>EYFLA4A, EYFLA4AR, EYFLA5A, EYFLA5AR, EYFLB1A, EYFLB2A, EYFLB3A</td>
<td>EYFB32B</td>
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<tr>
<td></td>
<td>EYFLA5Q, EYFLA5QR, EYFLB2Q</td>
<td>EY9L10B</td>
</tr>
<tr>
<td></td>
<td>EYFLA6J, EYFLA6JR, EYFLB3J</td>
<td>EY9L10B</td>
</tr>
<tr>
<td></td>
<td>EYFLC1A</td>
<td>EY9L10B</td>
</tr>
<tr>
<td>10.8V</td>
<td>EYFLA4A, EYFLA4AR, EYFLA5A, EYFLA5AR, EYFLB1A, EYFLB2A, EYFLB3A</td>
<td>EY9L11B</td>
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<tr>
<td></td>
<td>EYFLA5Q, EYFLA5QR, EYFLB2Q</td>
<td>EY9L11B</td>
</tr>
<tr>
<td></td>
<td>EYFLA6J, EYFLA6JR, EYFLB3J</td>
<td>EY9L11B</td>
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<tr>
<td></td>
<td>EYFLC1A</td>
<td>EY9L11B</td>
</tr>
<tr>
<td></td>
<td>EYFLA4A, EYFLA4AR, EYFLA5A, EYFLA5AR, EYFLB1A, EYFLB2A, EYFLB3A</td>
<td>EY9L11B</td>
</tr>
<tr>
<td></td>
<td>EYFLA5Q, EYFLA5QR, EYFLB2Q</td>
<td>EY9L11B</td>
</tr>
<tr>
<td></td>
<td>EYFLA6J, EYFLA6JR, EYFLB3J</td>
<td>EY9L11B</td>
</tr>
<tr>
<td></td>
<td>EYFLC1A</td>
<td>EY9L11B</td>
</tr>
</tbody>
</table>

*Battery Pack Compatibility:
- 21.6V: EYFPA1J
- 18V: EYFNA1C
- 14.4V: EYFGA1N, EYFGA2N, EYFGA3N, EYFGA1NR, EYFGA2NR, EYFGA3NR
- 10.8V: EYFLA4A, EYFLA4AR, EYFLA5A, EYFLA5AR, EYFLB1A, EYFLB2A, EYFLB3A
- 3.6V: EY7410LA