Panasonic

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Panasonic

Factory Use

Factory Tool Lineup
2024

Assembly line innovation by Panasonic

3 key concepts of Panasonic assembly tools

Quality
(Torque Control)

User-Friendly
(Safety/Comfort)

Eco-Friendly
(Energy Saving/
Long Life)

Powering Excellence through our tools

With our unwavering commitment to quality, User-Friendly, and Eco-Friendly tools, we are converging these 3 concepts to redefine the industry standard, one tool at a time. At the heart of our innovation lies a dedication to empowering user's full control of their work.

Cordless and No Reaction Benefits

Panasonic cordless and *virtually no reaction tools eliminate air hoses and reaction arms, and bring huge benefits.

- Greater flexibility in the design and layout of assembly area.
- Increase operator's safety and comfort.
- Reduce product mutilations.

* Screwdriver type tools have torque reaction

Extensive Torque Control Tools Line-up

Panasonic offers advanced cordless tools which can cover up-to 650N·m torque control applications.

Transducerized Mechanical Pulse Tools

- Torque Value, Angle Value, Fastening Curve and Other Traceability Data Output
- Advanced Fastening Features
- Line-up for M8~M14 Fasteners

Shut-off Impact Tools

- Snug Torque Detection Mode
- Torque Adjustment/ Consistent Pulse Control
- Advanced Fastening Features
- Line-up for M5~M24 Fasteners

Precision Screwdriver (with Clutch)

- ±10%, Cmk 1.67 *(ISO5393)
- Advanced Fastening Features
- Line-up for M5~M6 Fasteners

* In 3N·m range. Measured with the maximum RPM setting

Wireless Communication System

- Advanced wireless controller/ qualifier line-up for your needs
- Options of Traceability and Pokayoke
- A series of Panasonic tools are compatible with Herutu TW-800 receivers

Less Running Cost and Long Life Technology

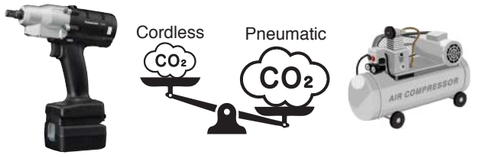
Panasonic maximize lifetime benefits from a tool.

No Oil Change

Mechanical pulse block requires no oil change and can make stable torque.

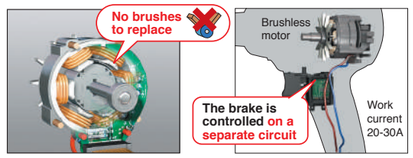
Minimum Energy Consumption

Battery operated tools don't require air-compressor which consumes large energy.

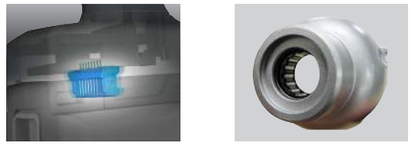


Durable Design

Panasonic tools designed for heavy duty industry use, such as *1 twice the life switch and motor, shock absorbing floating connector and *2 wear-resistant needle bearing.



Brushless motor | **New hybrid switch**



Floating Connector | **Needle Bearing**

*1 Compared with Panasonic's brush motor and non-hybrid switch.
*2 There are models which doesn't have the needle bearing.

Panasonic Assembly Tools Line-up

Recommended Bolt Size	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24

Torque Control Tool

Intelligent Auto-Shut Off Function

Precision Shut-off Impact Tools

- Low Noise **10.8V** (Shut-Off Range: 3~20N·m) — EYFLF1XA P.19 EYFLF1XC P.19
- Low Noise **10.8V** (Shut-Off Range: 6~35N·m) — EYFLF2XA P.19 EYFLF2XC P.19
- **10.8V** (Shut-Off Range: 3~22N·m) — EYFLA7A P.23
- **14.4V** (Shut-Off Range: 25~120N·m) — EYFMA2C P.24
- **10.8V** (Shut-Off Range: 6~30N·m) — EYFLA8A P.23 EYFLA8C P.23
- **10.8V** (Shut-Off Range: 20~60N·m) — EYFLA9C P.24

Shut-off Impact Tools

- **10.8V** (Shut-Off Range: 1.5~8N·m) — EYFLA4AVA P.27
- **10.8V** (Shut-Off Range: 2~15N·m) — EYFLA4AVB P.27
- **10.8V** (Shut-Off Range: 3~22N·m) — EYFLA4A P.27
- **14.4V** (Shut-Off Range: 25~100N·m) — EYFMA1J P.28
- **10.8V** (Shut-Off Range: 6~30N·m) — EYFLA5A P.27 EYFLA5Q P.27
- **18V** (Shut-Off Range: 70~200N·m) — EYFNA1C P.29
- **10.8V** (Shut-Off Range: 16~53N·m) — EYFLA6J P.28
- **21.6V** (Shut-Off Range: 160~650N·m) — EYFPA1J P.30
- **14.4V** (Shut-Off Range: 10~53N·m) — EYFME1C P.32

Precision Screwdriver

- **14.4V** (Shut-Off Range: 2~10N·m) — EYFGA1N P.46 EYFGA2N P.46 EYFGA3N P.46

No Torque Control Tool

Impact Tools

- Low Noise **10.8V** — EYFLG1XA P.20 EYFLG1XC P.20
- Low Noise **10.8V** — EYFLG2XA P.20 EYFLG2XC P.20
- **10.8V** — EYFLB1A P.41
- **10.8V** — EYFLC1A P.42
- **10.8V** — EYFLB3A P.41 EYFLB3J P.41
- **10.8V** — EYFLB2A P.41 EYFLB2Q P.41
- **14.4V** — EYFMB1B P.42 EYFMB1J P.42

Panasonic Assembly Tools Line-up with Wireless Communication

Recommended Bolt Size	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24

Traceability Tool with Wireless Communication

Traceability Data Management
Wireless Communication
Intelligent Auto-Shut Off Function

Transducerized Mechanical Pulse Tools

- **14.4V** (Shut-Off Range: 50~120N·m) — EYFMH2WC P.11
- **14.4V** (Shut-Off Range: 20~60N·m) — EYFMH1WC P.11
- NEW — **18V** (Shut-Off Range: 70~220N·m) — EYFNH1WC P.12

Torque Control Tool with Wireless Communication

Wireless Communication
Intelligent Auto-Shut Off Function

Shut-off Impact Tools

- **10.8V** (Shut-Off Range: 3~22N·m) — EYFLA4AR P.35
- **14.4V** (Shut-Off Range: 25~100N·m) — EYFMA1JR P.36
- **10.8V** (Shut-Off Range: 6~30N·m) — EYFLA5AR P.35 EYFLA5QR P.35
- **10.8V** (Shut-Off Range: 16~53N·m) — EYFLA6JR P.36

Precision Screwdriver

- **14.4V** (Shut-Off Range: 2~10N·m) — EYFGA1NR P.47 EYFGA2NR P.47 EYFGA3NR P.47

Torque Control Tool with Wireless Communication

Wireless Communication
Intelligent Auto-Shut Off Function

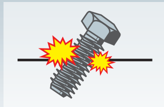
Shut-off Impact Tools

- **10.8V** (Shut-Off Range: 3~22N·m) — EYFLA7AH P.39
- **14.4V** (Shut-Off Range: 25~120N·m) — EYFMA2CH P.40
- **10.8V** (Shut-Off Range: 6~30N·m) — EYFLA8AH P.39 EYFLA8CH P.39
- **10.8V** (Shut-Off Range: 20~60N·m) — EYFLA9CH P.40

Various Support Features

Advanced Fastening Features

Cross Thread Reduction



Cross thread

Two types of the programmable features to reduce cross thread.
Soft Start : Lower the no load speed to the tool lowest rpm for a programmable time after trigger is pulled.
Reverse Start : Small reverse rotation for thread alignment then rotate forward.

Retightening Prevention Function

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

Variable Speed Control Function

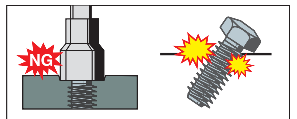
Speed can be controlled by use of the trigger. Speed control function ON and OFF can be selected.

Snug Torque Detection Delay

The tool doesn't activate Snug Torque Detection mode and ignores loads in the middle of rundown for a selected time period.

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)



Retightening Cross thread

• Example with 3.0sec. normal time setting

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

Angle Error Shut-Off

Tool shuts off when the rundown exceeds its upper angle limit to prevent the material from damaged.

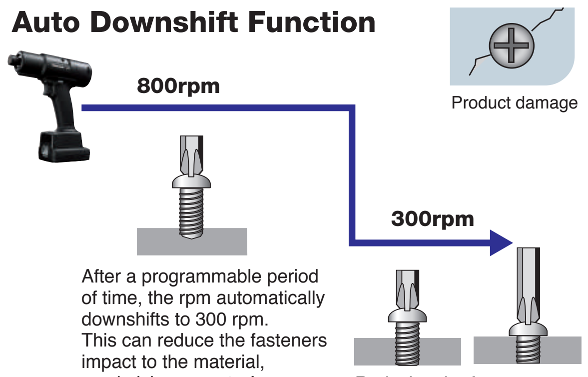
Disable Reverse

The tool is prevented from operating in reverse rotation when this function is ON.

Ignore Rundown Result before Snug

When this function is ON and tool stops before snug point due to trigger release, the rundown result isn't recorded.

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.

Reducing the fasteners impact to the material

Maintenance Interval Alarm

When the total fastening times (impact tools)/numbers (screwdrivers) are within 1 hours/10,000 fastenings of the preset maintenance interval, the display blinks notifying the operator. Once the tool reaches the preset interval, the tool is looked out from further use.
(Number of setting: 0-99 hours/0-990,000 fastenings)

Long Socket Mode

RPM can be adjusted depending on socket length to stabilize torque even with long socket.
(h1: for 150mm socket, h2: for 250mm socket)

Wireless Communication Features

2-way Communication

Tool settings can be automatically changed and/or tools can be remotely enabled/disabled based on preset sequence by wireless assembly controller.

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.
The Hertutu wireless compatible model does not have a range disable function.

Features Chart

		EYFMH1WC	EYFMH2WC	EYFNH1WC	EYFLA4A	EYFLA5A	EYFLA5Q	EYFLA6J	EYFLA7A	EYFLA8A	EYFLA8C	EYFLA9C	EYFLF1XA	EYFLF1XC	EYFLF2XA	EYFLF2XC	EYFMA1J	EYFMA2C	EYFME1C	EYFNA1C	EYFPA1J	EYFGA1N	EYFGA2N	EYFGA3N	EYFLA4AR	EYFLA5AR	EYFLA5QR	EYFLA6JR	EYFMA1JR	EYFGA1NR	EYFGA2NR	EYFGA3NR	EYFLA7AH	EYFLA8AH	EYFLA8CH	EYFLA9CH	EYFMA2CH	EYFLG1XA	EYFLG1XC	EYFLG2XA	EYFLG2XC	EYFLB1A	EYFLB2A	EYFLB3A	EYFLB2Q	EYFLB3J	EYFLC1A
Wireless communication	OK•NOK result	●	●	●																																									
	Torque result	●	●	●																																									
	Angle result	●	●	●																																									
	Fastening curve	●	●	●																																									
	2-way communication	●	●	●																																									
	Out of range disable function	●	●	●																																									
Data storage	OK•NOK result	●	●	●																																									
	Torque result	●	●	●																																									
	Angle result	●	●	●																																									
	Fastening curve	●	●	●																																									
Cross thread reduction	Soft start	●	●	●									●	●	●	●																						●	●	●	●						
	Reverse start	●	●	●					●	●	●	●	●	●	●	●		●	●	●	●	●	●	●						●	●	●	●	●	●	●	●	●	●	●	●						
Rundown error detection		●	●	●					●	●	●	●	●	●	●	●		●	●	●	●	●	●	●						●	●	●	●	●	●	●	●										
Retightening prevention		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						●	●	●	●	●				●	●	●	●	●	●	●	●	●						
Disable reverse		●	●	●																																									
Variable speed control		●	●	●	○	○	○	○	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	○	○	○	○	○	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○
Snug torque detection delay		●	●	●					●	●	●	●	●	●	●	●		●															●	●	●	●	●										
Angle error shut-off		●	●	●																																									
Ignore rundown result before snug		●	●	●																																									
Auto downshift function																						●	●	●						●	●	●															
Long socket mode									●	●	●	●	●	●	●	●		●															●	●	●	●	●										
Maintenance interval alarm		●	●	●					●	●	●	●	●	●	●	●		●	●	●	●	●	●	●						●	●	●	●	●	●	●	●										
Pokayoke																									●	●	●	●	●	●	●	●	●	●	●	●	●										
Out of range disable function																									●	●	●	●	●	●	●	●															

Transducerized Mechanical Pulse Wrench achieves both fastening quality and work efficiency!

Torque and Angle Monitoring

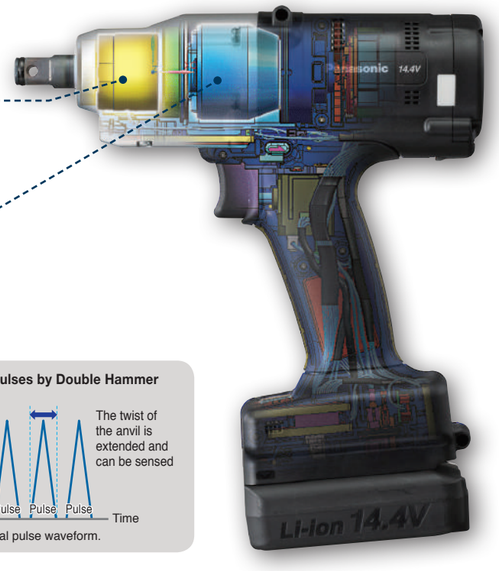
Max. Shut-Off Torque
EYFMH: **120 N•m**
NEW EYFNH: **220 N•m**

Panasonic Unique Technologies for Mechanical Pulse Torque Sensing

Unique High Sensitivity Torque Transducer

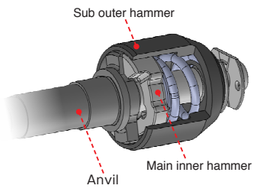
The transducer has high sensitivity to reliably measure the instantaneous torque at the pulses and high durability with non-contact structure which can't be worn out or damaged by the pulses.

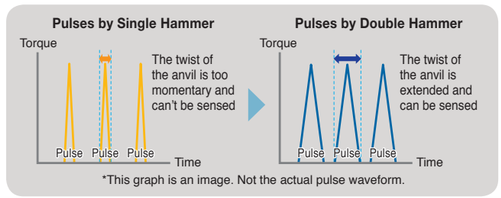
*The transducer senses the torsional torque of the anvil.



Unique Double Hammer with Optimum Pulse Behavior for Torque Sensing

Realize torque sensing with mechanical pulse tools by extending the twisting time of the anvil with continuous pulses of the main-hammer and sub-hammer.

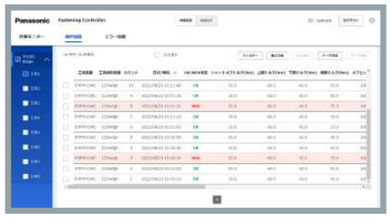




*This graph is an image. Not the actual pulse waveform.

Advanced Traceability Data Management

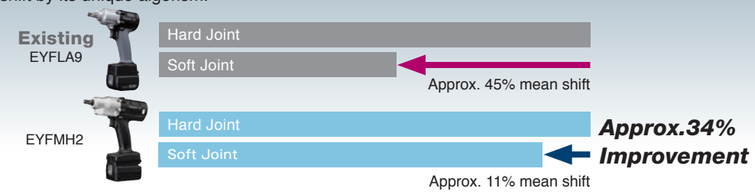
The tool can output torque value, angle value, fastening curve and other traceability data to PC・Tablet or your assembly management system.



Accurate Fastening Performance

Less Mean-Shift (Bolt size: M12 Target torque: 71Nm)

Mean-shift is reduced by the torque sensing. In addition, the tool can offset the mean-shift by its unique algorism.



*The values in this chart were measured under Panasonic measuring condition and are provided only for reference purpose. Actual tightening torque may vary with ambient conditions.

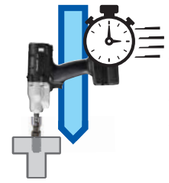
Validation Data (Socket length: 40mm) (only for reference purpose)

Model	Joint	Socket length	Bolt Size	Target	1	2	3	4	5		26	27	28	29	30	Average	Accuracy
14.4V EYFMH2	Hard	40mm	M10	50Nm	50	52	51	53	51		51	52	52	49	50	51.8	5.3%
			M12	80Nm	81	82	83	83	82		84	83	80	82	83	81.2	7.1%
18V EYFNH1 New	Hard	40mm	M12	70Nm	72	73	76	75	76		71	70	72	73	75	72.0	9.6%
			M14	140Nm	138	139	137	142	145		144	138	135	142	133	137.6	8.0%
			M16	190Nm	199	191	182	188	192		194	187	191	184	191	190.2	7.3%

*The values in this chart were measured under Panasonic measuring condition and are provided only for reference purpose. Actual tightening torque may vary with ambient conditions.

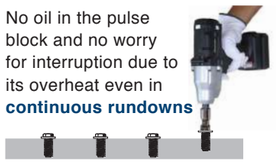
High Work Efficiency and Low Running Cost

Up to 120Nm fastening with *1.85kg light weight body! Possible to use with one hand.
*with EYFB41 battery pack



Powerful mechanical pulse for **speedy fastening even after snug!**
The tool can be used with confidence even in quick tack time.

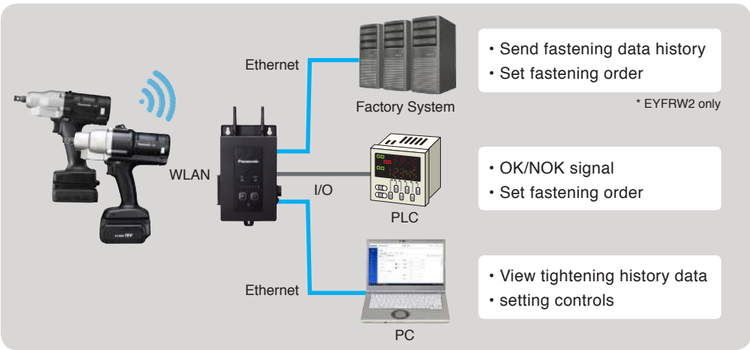
The tool causes **no reaction** and doesn't require reaction arm.



No oil in the pulse block and no worry for interruption due to its overheat even in **continuous rundowns**

Mechanical pulse block requires **no oil** change and can make stable torque.

System Diagram



*USB Type-C is a trademark of USB Implementers Forum.

More Features

Tightening Confirmation Lamp
Multiple lamps can be seen from various angles.

LED Light
For operations in dimly lit place.

Horizontal hanging (EYFNH,EYFMH)
Upside down hanging (EYFMH only)

Tool Hanger
The tool can be hung on a balancer both horizontally and upside down with accessory tool hanger.

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

USB Connection
Easy connection with PC・tablet using “USB Type-C” on the tool.

14.4V Electronic Mechanical Pulse Wrench and Wireless Communication

	Electronic Mechanical Pulse Wrench	
	EYFMH1WC	**EYFMH2WC**
	14.4V / Wireless Communication / Brushless Motor	
		
	4.0Ah / 2.0Ah	
	*Battery pack is not included	
Chuck / Anvil type	12.7mm Sq. drive Retainer ring and Pin-hole	
Application	M8 bolt (Tensile bolt) M10 bolt (Normal bolt)	M10 bolt (Tensile bolt) M12 bolt (Normal-Tensile bolt) M14 bolt (Normal bolt)
Shut-off range	20 ~ 60 Nm	50 ~ 120 Nm
No load speed (unit : rpm)	0 ~ 2,300 (Max. rpm is adjustable from 1,500 to 2,300 in 100 increments)	
Impact per minutes	0 ~ 2,700	0 ~ 2,600
Weight*1 (inc. battery) EYFB43B	2.05kg	
Weight*1 (inc. battery) EYFB41B	1.8kg	
Size Length	215mm	
Size Height	246mm (EYFB41), 264mm (EYFB43)	
Size Width	61mm (Width of battery pack: 75mm)	
Function Torque result	√	
Function Angle result	√	
Function Fastening curve	√	
Function Number of preset	Wireless Communication Mode: 5 (with EYFRW2), Standalone Mode: 1	
Function Data storage	√ (Standalone Mode: approx. 45,000 history data can be stored in case of 1.2 sec. fastening work)	
Function Wireless communication	√ (IEEE802.11a/b/g/n)	
Function USB connection	√ (USB Type-C™)	
Function Advanced fastening features	√ (For details of the feature, Please refer to page 7)	
Function Auto battery shutdown	√	
Work capacity / Fastening speed (approx.)	<M8: 23Nm> (EYFB43) 940 pcs/pack 0.5 sec/1pcs (EYFB41) 490 pcs/pack 0.5 sec/1pcs <M10: 43Nm> (EYFB43) 670 pcs/pack 0.7 sec/1pcs (EYFB41) 350 pcs/pack 0.7 sec/1pcs	<M12: 71Nm> (EYFB43) 450 pcs/pack 0.9 sec/1pcs (EYFB41) 230 pcs/pack 0.9 sec/1pcs
Charging time (approx.)	(Battery Pack EYFB43B, Charger EY0L82B) Usable Charge: 45min, Full Charge: 60min (Battery Pack EYFB41B, Charger EY0L82B) Usable Charge: 35min, Full Charge: 40min	

<Optional Accessory>

14.4V Li-Ion Battery Pack
EYFB43B, EYFB41B

EYFB43B (4.0Ah)

EYFB41B (2.0Ah)

Charger
EY0L82B

Protector for Battery
EYFA04-H (gray)
EYFA06-H (gray)

EYFA04 (forEYFB43B)

EYFA06 (for EYFB41B)

Tool Hanger
EYFA40B

USB cable (1m)
EYFMH1XL701W

Protector for Tool
EYFA14
-A (blue), -Y (yellow)
-H (gray), -D (orange)
-G (green)

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

18V Electronic Mechanical Pulse Wrench

	Electronic Mechanical Pulse Wrench
	EYFNH1WC
	18V / Wireless Communication / Brushless Motor
	
	5.0Ah
	*Battery pack is not included
Chuck / Anvil type	12.7mm Sq. drive Retainer ring and Pin-hole
Application	M12 • M14 bolt (Tensile bolt) M16 • M18 bolt (Normal bolt)
Shut-off range	70-220 Nm
No load speed (unit : rpm)	0-1,900 rpm (Max. rpm is adjustable from 1,300 to 1,900 in 100 rpm increments)
Impact per minutes	0 ~ 2,400
Weight*1 (inc. battery) EYFB50B	3.35kg
Size Length	265mm
Size Height	294mm (EYFB50)
Size Width	76mm (Width of battery pack: 76mm)
Function Torque result	√
Function Angle result	√
Function Fastening curve	√
Function Number of preset	Wireless Communication Mode: 5 (with EYFRW2), Standalone Mode: 1
Function Data storage	√ (Standalone Mode: approx. 45,000 history data can be stored in case of 1.2 sec. fastening work)
Function Wireless communication	√ (IEEE802.11a/b/g/n)
Function USB connection	√ (USB Type-C™)
Function Advanced fastening features	√ (For details of the feature, Please refer to page 7)
Function Auto battery shutdown	√
Work capacity / Fastening speed (approx.)	<M12: 100Nm> (EYFB50) approx. 500 pcs/pack approx. 1.0 sec/1pcs
Charging time (approx.)	(Battery pack EYFB50B, Charger EY0L82B) Usable Charge: 65 min. Full Charge: 80 min

<Optional Accessory>

18V Li-Ion Battery Pack
EYFB50B

(5.0Ah)

Charger
EY0L82B

Protector for Battery
EYFA10-H (gray)

(for EYFB50B)

Tool Hanger
EYFA41B

USB cable (1m)
EYFMH1XL701W

Protector for Tool
EYFA16
-A (blue), -Y (yellow)
-H (gray), -D (orange)
-G (green)

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

WLAN Controller with Maximum 8 Tools Simultaneous Control Capability

Various Technologies for Stable Wireless Communication

Recommended range approx **16m** 2.4GHz

Recommended range approx **10m** 5GHz

- **Support both 2.4GHz and 5GHz frequency**
  To avoid interference, the frequency can be selected according to the usage environment.There is also an auto channel function that automatically selects an empty channel.
- **High efficiency antenna design**
  Stable communication performance is achieved by the highly efficient antenna design (average -5dBi) of the diversity antenna on the controller and the transmission module on the tool.
  Demonstrates high performance with various tool positions and directions.
- **Safety function in case of communication disconnection**
  Work history data can be backed up in the tool and resent to the controller even when communication is temporarily disconnected, allowing work to continue.
- **High security**
  Communication data is encrypted and protected by TLS.

Setting and viewing from a web browser

Tool/controller settings and work history data viewing can be done from a web browser.
No software installation required on your PC.

Maximum 8 tools simultaneous control

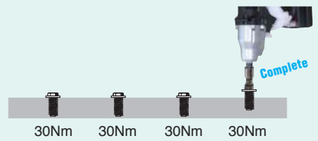
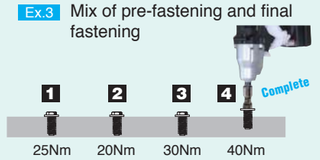
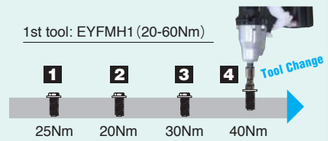
Simultaneously control the operations of up to 8 tools and collect work history data.

WLAN access point compatible

Supports communication via general WLAN access points.
Tools can be used regardless of where the controller is installed.

Compatible models:IEEE.802.11a/b/g/n compliant WLAN access points

Various control of tools is possible without external equipment

Batch	Job	Sequence
Continuous work with 1 tool and 1 torque setting	**Continuous work with 1 tool and multiple torque settings**	**Continuous work with multiple tools and multiple torque settings**
	Ex.1 Multiple fastening works with different target torques Ex.2 Multiple fastening works with different bolt lengths Ex.3 Mix of pre-fastening and final fastening 	Ex.1 Multiple fastening works with multiple bolt sizes Ex.2 Multiple fastening works which can not be covered with a single tool torque range 
Up to 5 batches can be registered for a tool	Up to 10 steps (batches) can be set for a job Up to 5 jobs can be registered for a tool	Up to 10 steps (batches/jobs) can be set for a sequence Up to 5 sequences can be registered in a controller

Model	EYFRW2
Communication data	• OK/NOK • Torque value • Angle value • Fastening curve
Rated supply voltage	AC100-240V 50-60Hz
Communication method	WLAN (IEEE802.11a/b/g/n)
Frequency band	(European nations, Turkey, Malaysia, Indonesia, Thailand, India) 2.412-2.472GHz / 5.180-5.240GHz (North America, Canada, China, South Korea) 2.412-2.462GHz / 5.180-5.240GHz
Channel	(European nations, Turkey, Malaysia, Indonesia, Thailand, India) 2.4GHz band: 1ch – 13ch / 5GHz band: 36,40,44,48ch (North America, Canada, China, South Korea) 2.4GHz band: 1ch – 11ch / 5GHz band: 36,40,44,48Ch
Recommended range	2.4GHz band: *approx. 16m / 5GHz band: *approx. 10m
No. of connectable devices	Maximum 8 tools
Input/output terminal (I/O)	Input: 8 / Output: 8
Power consumption	approx. 30W
Dimensions (L x H x W)	approx. 239mm × approx. 150mm × approx. 41mm (Hight including antenna: approx. 281mm)
Weight	550g (Main body only)
Communication interface	• Ethernet × 2 • USB-A × 1 • RS232C × 1
Communication protocol	OpenProtocol
Data storage	Approx. 200,000 history data (Including fastening curve)
Optional accessory	• Controller stand • AC adapter
Compatible tools	EYFMH1WC, EYFMH2WC, EYFNH1WC

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

<Optional Accessory>

Controller stand
WEYFRW1F7001

AC adapter
(NA)
WEYFRW1K7651
(EU,TUR,THA,IDN)
WEYFRW1K7751
(GBR, MYS)
WEYFRW1K7851
(CHN)
WEYFRW1K7951
(KOR)
WEYFRW1K7051
(IND)
WEYFRW1K7151

Controller Management Software

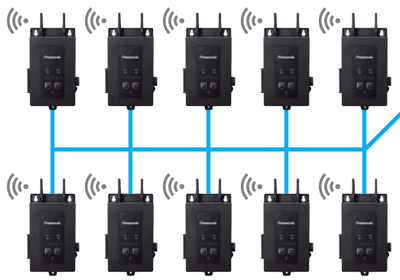
Optional software is available for managing traceability data from up to 10 controllers

Manage 10 controllers from one software

Controller Management Software

EYASW1B

LAN

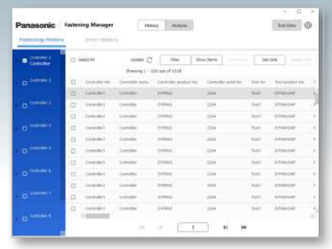


● **Operating environment and specifications <Controller Management Software>**

Model		EYASW1B
Operating environment	Compatible OS	Windows10 (64 bit) or later
	Compatible PC (CPU)	2.0 GHz, 4 or 2 cores, 4 or more logical processors
	Storage	8 GB or more
	Recommended hard disk capacity	SSD 100 GB or more
	Recommended resolution	1024 × 768 or more
	Interface	Optical drive (for software installation) USB Type-A (for license authentication) Ethernet port (for communication with a controller)
	Software environment	.NET Core 3.1
Specifications	Number of storable data	Maximum 40 million fastening history data
	Number of registrable controllers	Maximum 10 controllers
	Security	USB key activation
	Supported language	English, Japanese
	Standard accessory	USB dongle key × 1
	Applicable controllers	EYFRW2 *Including varieties

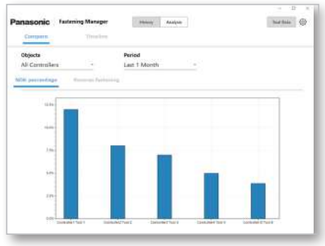
What you can do with the controller management software

❶ Fastening History Data Management



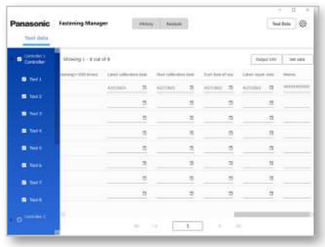
Maximum 40 million fastening history data collected from up to 10 controllers (80 tools) can be stored in one software.
Your PC doesn't have to be in the same place with the controllers when the PC and controllers are in the same local area network.

❷ Fastening History Data Analysis



The worst 5 tools with the highest NOK rate or number of reverse fastenings (reworks) can be shown and you can easily find the bottleneck tasks.
Trend changes in torque, fastening time, number of rotation in a fastening, and OK rate can be monitored over time.

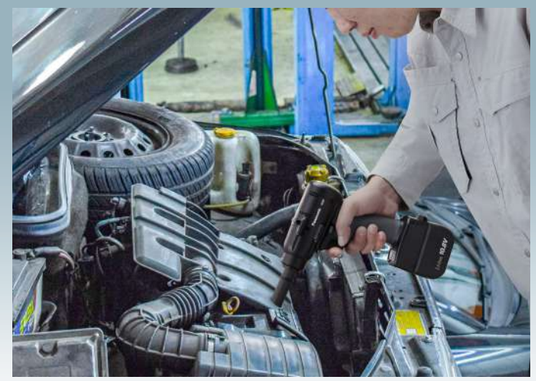
❸ Tool Status Management



You can record the usage history of the tools such as its start date of use, cumulative number of fastening works and latest repair date. Also, torque check history of the tools can be recorded as the evidence of the tool performance check.

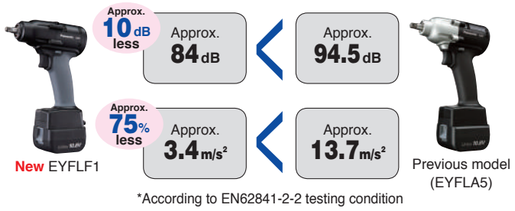
Low Noise Impact Wrench

Realize serial and continuous fastening with reduced noise of metal hammer blows!



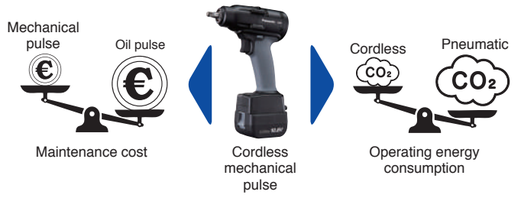
Features / Benefits

Less noise and vibration for improved working environment

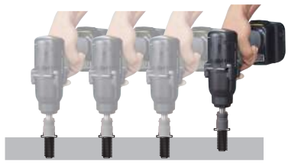


*According to EN62841-2-2 testing condition

Less running cost, eco-friendly



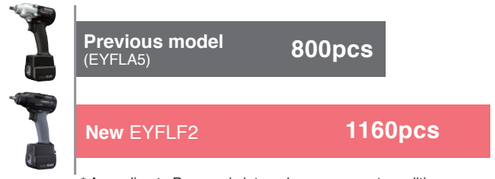
Increased productivity with serial fastening capability



Mechanical pulse – less overheat risk in serial fastening

More work capacity per one charge by improved mechanical pulse efficiency

Approx. 1.5 times more work capacity



* According to Panasonic internal measurement condition with battery pack EYFB30, M8 and tightening torque 23 Nm.

Panasonic New Mechanical Pulse Technology for Lower Noise

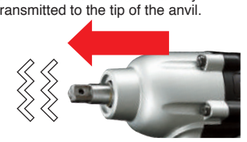
Highly durable split anvil shaft

Patent pending

provides reduction of pulse noise.

Split anvil shaft

Conventional Anvil Shaft
Vibration from the tool is directly transmitted to the tip of the anvil.

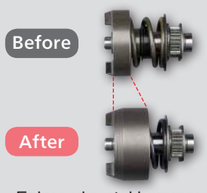


New Split Anvil Shaft
Anvil splits absorb and reduce vibration from the tool.

Enlarged metal hammer

Patent pending

reduces pulse noise level and vibration due to lower pulse frequency.



Enlarged metal hammer

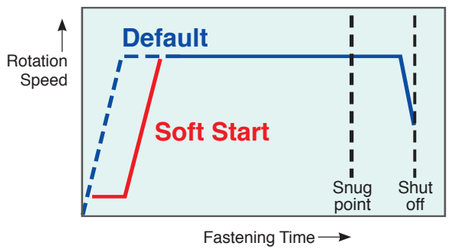
Conventional Hammer
The clamping force of one pulse is small and more pulses are needed to complete a fastening.

New Enlarged Metal Hammer
The clamping force of one pulse is large and less pulses are needed to complete a fastening. The noises are lower sound and less harsh.

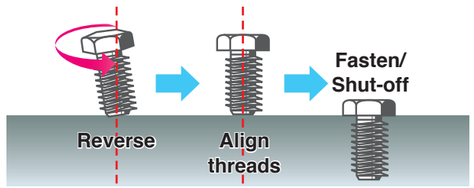
Advanced Fastening Features

Optional settings for preventing cross thread fastening

❶ Soft Start 200rpm



❷ Reverse Start 180°or 360°

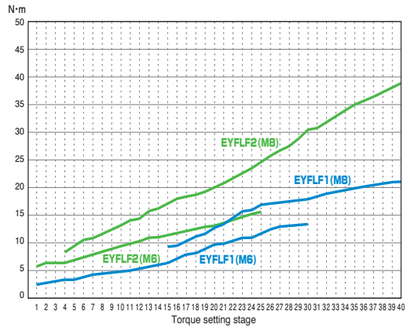


10.8V Low Noise Precision Shut-off Impact Driver & Wrench

10.8V Low Noise Impact Driver & Wrench without Torque Control

	Cordless Impact Driver & Wrench				Cordless Impact Driver & Wrench			
	EYFLF1XA	**EYFLF1XC**	**EYFLF2XA**	**EYFLF2XC**	**EYFLG1XA**	**EYFLG1XC**	**EYFLG2XA**	**EYFLG2XC**
	10.8V Low Noise Brushless Motor  Type C 3.0Ah 2.0Ah *Battery pack is not included		10.8V Low Noise Brushless Motor  Type C 3.0Ah 2.0Ah *Battery pack is not included		10.8V Low Noise Brushless Motor  Type C 3.0Ah 2.0Ah *Battery pack is not included		10.8V Low Noise Brushless Motor  Type C 3.0Ah 2.0Ah *Battery pack is not included	
Chuck / Anvil type	A:1/4" Hex quick change, C:9.5mm Sq. drive Retainer ring and Pin-hole				A:1/4" Hex quick change, C:9.5mm Sq. drive Retainer ring and Pin-hole			
Application	Screw M5•M6 (Normal-Tensile bolt) M8 bolt (Normal bolt)		M6 bolt (Tensile bolt) M8 bolt (Normal-Tensile bolt)		Screw M5•M6 (Normal-Tensile bolt) M8 bolt (Normal bolt)		M6 bolt (Tensile bolt) M8 bolt (Normal-Tensile bolt)	
Maximum torque (F mode, fastening 3 sec.)	approx. 30 N·m (M10 bolt)	approx. 40 N·m (M10 bolt)	approx. 70 N·m (UFT-M14 bolt)	approx. 100 N·m (M14 bolt)	approx. 30 N·m (M10 bolt)	approx. 40 N·m (M10 bolt)	approx. 70 N·m (M14 bolt)	approx. 100 N·m (M14 bolt)
Shut-off range	approx. 3 ~ 20 N·m		approx. 6 ~ 35 N·m		—		—	
Torque setting	40 stage + F (without torque setting mode)				—			
Snug torque detection mode setting	7 stages (L1 ~ L7)				—			
No load speed (unit : rpm)	stage1~4: 0~ 650 stage5~14: 0~950 stage15~19: 0~1200 stage20~40•F: 0~1800		stage1~3: 0~1450 stage4~40•F: 0~1800		0~1800			
Impact per minute	stage1~19: 0〜1300 stage20~40•F: 0〜1800		0〜2250		0〜1800		0〜2250	
Weight*1 (inc. battery) **EYFB30B**	approx. 1.45kg				approx. 1.45kg			
Weight*1 (inc. battery) **EYFB32B**	approx. 1.3kg				approx. 1.25kg			
Size **Length**	166mm	167mm	166mm	167mm	166mm	167mm	166mm	167mm
Size **Height**	249mm (EYFB30B), 231mm (EYFB32B)				249mm (EYFB30B), 231mm (EYFB32B)			
Size **Width**	approx. 59mm (Width of battery pack: approx. 75mm)				approx. 59mm (Width of battery pack: approx. 75mm)			
Vibration	2.6m/s²	3.4m/s²	4.2m/s²	3.4m/s²	2.6m/s²	3.4m/s²	4.2m/s²	3.4m/s²
Function **LED light**	√ (ON/OFF switch, Light turns off after five minutes automatically)				√ (ON/OFF switch, Light turns off after five minutes automatically)			
Function **Tightening confirmation lamp**	√ (OK fastening: Green lamp, NOK fastening: Red lamp)				√ (OK fastening: Green lamp, NOK fastening: Red lamp)			
Function **Battery indication lamp**	√ (3 stages)				√ (3 stages)			
Function **Auto battery shutdown**	√				√			
Function **Advanced fastening features**	√ (For details of the feature, Please refer to page 7)				√ (For details of the feature, Please refer to page 7)			
Function **Soft start**	√ (200 rpm or less)				√ (200 rpm or less)			
Function **Cross thread reduction**	√ (180°or 360°reverse start)				√ (180°or 360°reverse start)			
Function **Tool hanger**	√				√			
Work capacity / Fastening speed	<M6: 10 N·m, Stage: 21> (EYFB30B) approx. 1290 pcs/pack approx. 0.8 sec/1pcs (EYFB32B) approx. 780 pcs/pack approx. 0.8 sec/1pcs	<M6: 10 N·m, Stage: 20> (EYFB30B) approx. 1630 pcs/pack approx. 0.7 sec/1pcs (EYFB32B) approx. 840 pcs/pack approx. 0.7 sec/1pcs	<M8: 23 N·m, Stage: 25> (EYFB30B) approx. 800 pcs/pack approx. 1.2 sec/1pcs (EYFB32B) approx. 500 pcs/pack approx. 1.2 sec/1pcs	<M8: 23 N·m, Stage: 20> (EYFB30B) approx. 1160 pcs/pack approx. 0.9 sec/1pcs (EYFB32B) approx. 590 pcs/pack approx. 0.9 sec/1pcs	<M6: 10 N·m> (EYFB30B) approx. 1290 pcs/pack approx. 0.8 sec/1pcs (EYFB32B) approx. 780 pcs/pack approx. 0.8 sec/1pcs	<M6: 10 N·m> (EYFB30B) approx. 1630 pcs/pack approx. 0.7 sec/1pcs (EYFB32B) approx. 840 pcs/pack approx. 0.7 sec/1pcs	<M8: 23 N·m> (EYFB30B) approx. 800 pcs/pack approx. 1.2 sec/1pcs (EYFB32B) approx. 500 pcs/pack approx. 1.2 sec/1pcs	<M8: 23 N·m> (EYFB30B) approx. 1160 pcs/pack approx. 0.9 sec/1pcs (EYFB32B) approx. 590 pcs/pack approx. 0.9 sec/1pcs
Charging time	(Battery pack EYFB30B, Charger EY0L82B) Usable charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min				(Battery pack EYFB30B, Charger EY0L82B) Usable charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min			

Tightening Torque Chart (for Reference Use)



The 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.).

<Optional Accessory>

10.8V Li-Ion Battery Pack **EYFB30B** **EYFB32B**	Protector for Battery **EYFA02-H (gray)** **EYFA03-H (gray)**
 EYFB30B (3.0Ah)  **EYFB32B** (2.0Ah)	 **EYFA02** (for EYFB30B)  **EYFA03** (for EYFB32B)
Protector for Tool **EYFA15-A (blue), -Y (yellow), -H (gray)** **-D (orange), -G (green)**	
	
Remote Control **EYFA31B**	Tool Hanger **EYFA40**
	
Charger **EY0L82B**	
	

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

Precision Shut-Off Impact Wrench

Precision fastening quality utilizing Encoder Sensor and newly developed 7 stages Snug Torque Detection Mode

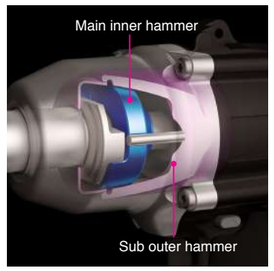
Advanced Impact Torque Control with 3 new technologies

❶ High Resolution Encoder Sensor
Encoder sensor monitors motor's rotation angle precisely and simulates snug torque accurately.

❷ 7 stages Snug Torque Detection Mode
Precise Snug Torque Detection Mode enables accurate fastening on variety of joints with large snug torque.

❸ Consistent Impact Control
Powers of impacts are always kept consistent regardless of remained battery capacity.

High Efficiency Double Hammer Block
(EYFLA9, EYFMA2 only)

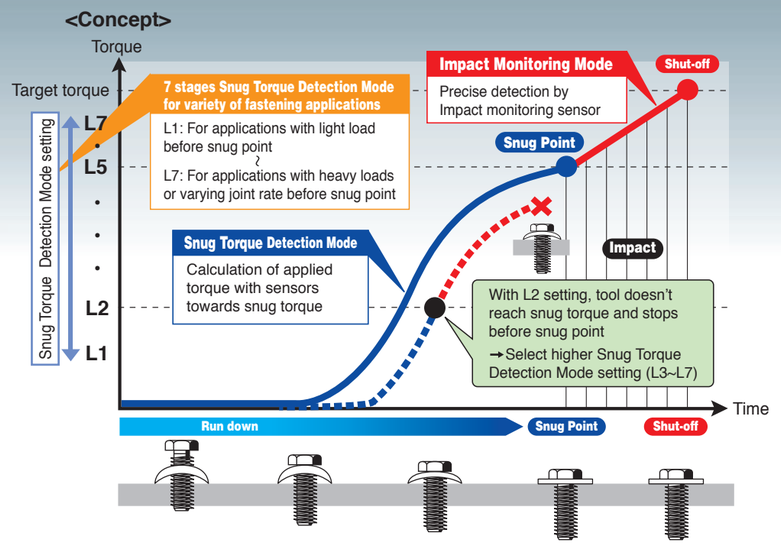


Newly developed Double Hammer Block reduces tool's vibration, and thus operator's fatigue and reflection noise from work material.

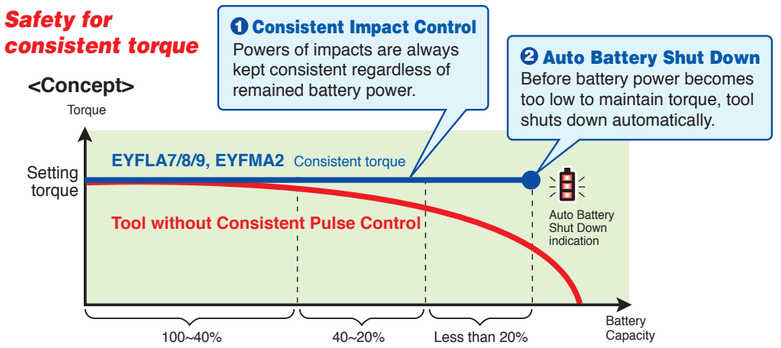
Calibration Data (only for reference purpose) Model number: EYFMA2C

Bolt Size	Torque setting	1	2	3	4	5		26	27	28	29	30	Average	Accuracy
M10	1	14.2	16.1	14.8	14.7	15.0	~	15.3	15.1	15.1	15.1	15.3	15.1	9.7%
	10	31.1	31.8	31.0	31.7	31.8		32.0	31.7	30.7	32.2	30.6	31.5	5.4%
M12	15	55	55	55	55	56		55	55	55	55	55	55	1.7%
	25	80	81	82	81	82		83	82	83	82	81	82	3.5%
M14	30	117	118	113	117	118		118	119	117	118	116	117	4.3%
	40	131	132	134	134	136		134	134	134	133	137	134	3.9%

*The values in this chart were measured under Panasonic measuring condition and are provided only for reference purpose.
Actual tightening torque may vary with ambient conditions.



Safety for consistent torque



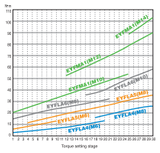
How to set

STEP1 **Select Torque Setting Stage** (1-40)

Torque Setting Stage:
Select referring to index chart
Snug Torque Detection setting: L1

Trial fastening → Check torque
OK Final torque meets target torque → **Setting complete**
NOK → Change Torque Setting Stage → Move to **STEP2**

Even though changing Torque Setting Stage, final torque can't be increased. (Fastener doesn't seat correctly) NOK



STEP2 **Select Flush Detection Level** (L1-L7 / Use only when final torque can't be increased by Torque Setting Stage change)

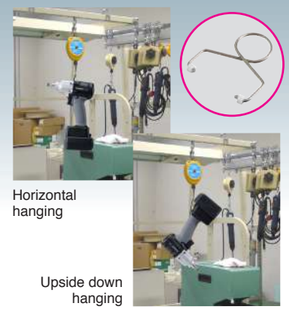
Torque Setting Stage:
Select referring to index chart
Snug Torque Detection setting:
Change from L1 to L2

*Please reset Torque Setting Stage if it's increased in Step1.

Trial fastening → Check torque
OK Final torque is above lower tolerance limit → Move to **STEP3**
NOK → Final torque can't be increased. (Fastener doesn't seat correctly)
Change Snug Torque Detection setting L2→L3~L7

STEP3 **Fine-tune Torque Setting Stage to meet target torque and complete setting**

More Features



Tool Hanger
The tool can be hanged on the balancer both and upside down.

Tightening Confirmation Lamp
Green light indicates tightening is completed.

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

LED Light
For operations in dimly lit place.

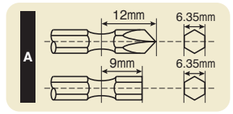
Remote Control
Tool setting can be set only by remote control.

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

Various Support Features

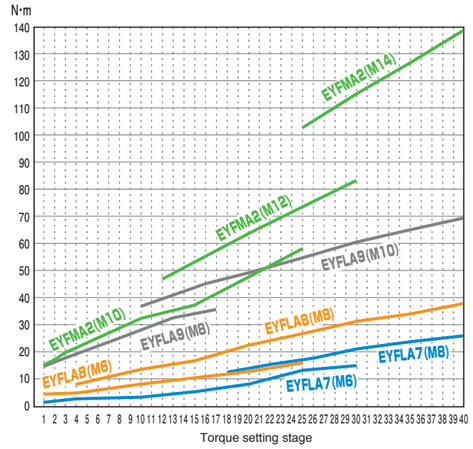
10.8V/14.4V Precision Shut-off Impact Driver & Wrench

Applicable bit size for quick change chuck



	Cordless Impact Driver		Cordless Impact Wrench		Cordless Impact Wrench	
	EYFLA7A	**EYFLA8A**	**EYFLA8C**		**EYFLA9C**	**EYFMA2C**
	10.8V Brushless Motor	10.8V Brushless Motor	10.8V Brushless Motor		10.8V Brushless Motor	14.4V Brushless Motor
						
	3.0Ah 2.0Ah	3.0Ah 2.0Ah	3.0Ah 2.0Ah		3.0Ah 2.0Ah	4.0Ah 2.0Ah
	*Battery pack is not included	*Battery pack is not included	*Battery pack is not included		*Battery pack is not included	*Battery pack is not included
Chuck / Anvil type	1/4" Hex quick change	1/4" Hex quick change	9.5mm Sq. drive Retainer ring and Pin-hole		12.7mm Sq. drive Retainer ring and Pin-hole	12.7mm Sq. drive Retainer ring and Pin-hole
Application	Screw M5•M6 (Normal—Tensile bolt) M8 bolt (Normal bolt)	M6 bolt (Tensile bolt) M8 bolt (Normal—Tensile bolt)	M6 bolt (Tensile bolt) M8 bolt (Normal—Tensile bolt)		M8 bolt (Tensile bolt) M10 bolt (Normal bolt)	M10 bolt (Tensile bolt) M12 bolt (Normal-Tensile bolt) M14 bolt (Normal bolt)
Maximum torque (F mode, fastening 3 sec.)	approx. 35 N·m (M10 bolt)	approx. 80 N·m (M14 bolt)	approx. 80 N·m (M14 bolt)		approx. 120 N·m (M14 Tensile bolt)	approx.185 N·m(M16 Tensile bolt)
Shut-off range	approx. 3 ~ 22 N·m	approx. 6 ~ 30 N·m	approx. 6 ~ 30 N·m		approx. 20 ~ 60 N·m	approx. 25 ~ 120 N·m
Torque setting	40 stage + F (without torque setting mode)				40 stages + F (without torque setting mode)	
Snug torque detection mode setting	7 stages (L1 ~ L7)				7 stages (L1 ~ L7)	
No load speed (unit : rpm)	stage1: 0~ 950, stage2 : 0~1250 stage3: 0~1450, stage4~8: 0~1550 stage9~40•F: 0~2300	stage1: 0~1300, stage2 : 0~1450 stage3: 0~1550, stage4~40•F: 0~2300			0 ~ 2300	0 ~ 2300
Impact per minute	stage1: 0~1800, stage2 : 0~2250 stage3: 0~2500, stage4~8: 0~2950 stage9~40•F: 0~3600	stage1: 0~2400, stage2 : 0~2500 stage3: 0~2800, stage4~40•F: 0~3300			0 ~ 2800	0 ~ 2900
Weight*1 (inc. battery) EYFB30B	approx. 1.3kg	approx. 1.35kg	approx. 1.35kg		approx. 1.45kg	—
Weight*1 (inc. battery) EYFB32B	approx. 1.15kg	approx. 1.15kg	approx. 1.15kg		approx. 1.3kg	—
Weight*1 (inc. battery) EYFB43B	—	—	—		—	approx. 1.6kg
Weight*1 (inc. battery) EYFB41B	—	—	—		—	approx. 1.4kg
Size Length	153mm	153mm	162mm		172mm	
Size Height	249mm (EYFB30B), 231mm (EYFB32B)				250mm (EYFB30B), 232mm (EYFB32B)	250mm (EYFB43B), 232mm (EYFB41B)
Size Width	approx. 59mm (Width of battery pack: approx. 75mm)				approx. 59mm (Width of battery pack: approx. 75mm)	
Vibration	5.2m/s²	7.0m/s²	6.3m/s²		5.1m/s²	6.9m/s²
Function LED light	√ (ON/OFF switch, Light turns off after five minutes automatically)				√ (ON/OFF switch, Light turns off after five minutes automatically)	
Function Tightening confirmation lamp	√ (OK fastening: Green lamp, NOK fastening: Red lamp)				√ (OK fastening: Green lamp, NOK fastening: Red lamp)	
Function Battery indication lamp	√ (3 stages)				√ (3 stages)	
Function Auto battery shutdown	√				√	
Function Advanced fastening features	√ (For details of the feature, Please refer to page 7)				√ (For details of the feature, Please refer to page 7)	
Function Tool hanger	√				√	
Work capacity / Fastening speed	<M6: 10 N·m, Stage: 22> (EYFB30B) approx. 1200 pcs/pack approx. 0.7 sec/1pcs (EYFB32B) approx. 800 pcs/pack approx. 0.7 sec/1pcs	<M8: 23 N·m, Stage: 22> (EYFB30B) approx. 800 pcs/pack approx. 0.8 sec/1pcs (EYFB32B) approx. 540 pcs/pack approx. 0.8 sec/1pcs	<M8: 23 N·m, Stage: 22> (EYFB30B) approx. 800 pcs/pack approx. 0.8 sec/1pcs (EYFB32B) approx. 540 pcs/pack approx. 0.8 sec/1pcs		<M10: 43 N·m, Stage: 15> (EYFB30B) approx. 540 pcs/pack approx. 0.7 sec/1pcs (EYFB32B) approx. 150 pcs/pack approx. 0.7 sec/1pcs	<M12: 71 N·m, Stage: 22> (EYFB43B) approx. 510 pcs/pack approx. 0.8 sec/1pcs (EYFB41B) approx. 270 pcs/pack approx. 0.8 sec/1pcs
Charging time	(Battery pack EYFB30B, Charger EY0L82B) Usable charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min				(Battery pack EYFB30B, Charger EY0L82B) Usable charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min	(Battery pack EYFB43B, Charger EY0L82B) Usable Charge: approx. 45 min. Full Charge: approx. 60 min (Battery Pack EYFB41B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min

Tightening Torque Chart (for Reference Use)



The 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.).

<Optional Accessory>

10.8V Li-Ion Battery Pack **EYFB30B, EYFB32B**	14.4V Li-Ion Battery Pack **EYFB43B, EYFB41B**
 **EYFB30B** (3.0Ah) **EYFB32B** (2.0Ah)	 **EYFB43B** (4.0Ah) **EYFB41B** (2.0Ah)
Charger **EY0L82B**	Remote Control **EYFA31B**
	
Protector for Battery **EYFA02-H (gray), EYFA03-H (gray), EYFA04-H (gray), EYFA06-H (gray)**	
 **EYFA02** (for EYFB30B) **EYFA03** (for EYFB32B) **EYFA04** (for EYFB43B) **EYFA06** (for EYFB41B)	
Protector for Tool **EYFA13-A (blue), -Y (yellow), -H (gray), -D (orange), -G (green)**	
	

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

Panasonic Unique Shut-Off Impact Tool Series

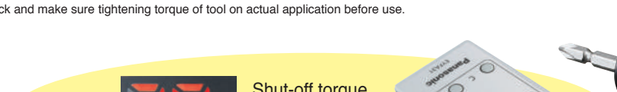
The unique Panasonic algorithm offers high power, high speed and high accuracy all together without torque reaction

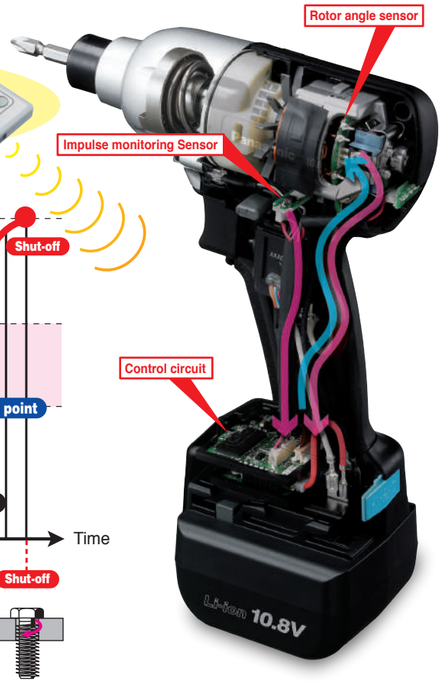
Torque Control Mechanism

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

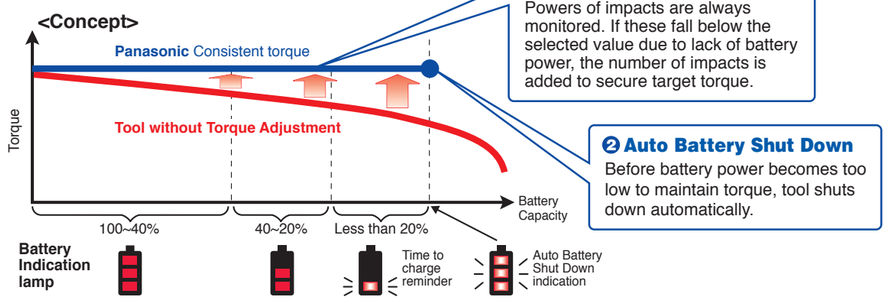
* Tightening torque may vary with ambient conditions.
Please check and make sure tightening torque of tool on actual application before use.

10.8V EYFLA4, EYFLA5, EYFLA6
14.4V EYFMA1, EYFME1
18V EYFNA1
21.6V EYFPA1





Safety for consistent torque



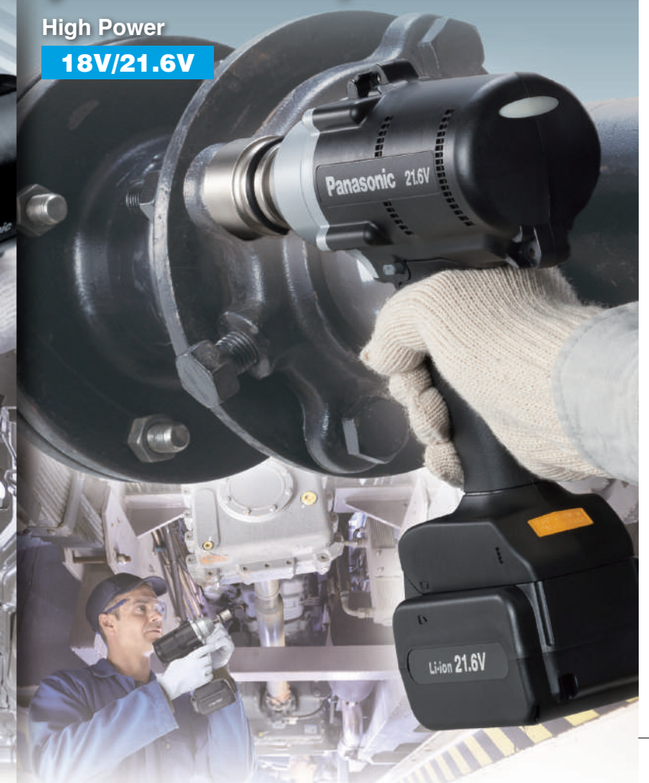
❶ Torque Adjustment
Powers of impacts are always monitored. If these fall below the selected value due to lack of battery power, the number of impacts is added to secure target torque.

❷ Auto Battery Shut Down
Before battery power becomes too low to maintain torque, tool shuts down automatically.

Cordless Shut-Off Impact Driver/Wrench

Compact
10.8V/14.4V

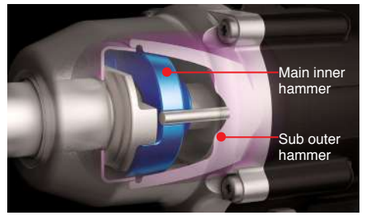
High Power
18V/21.6V



More Features

High-Efficient Double Hammer Block Mechanism
(EYFNA1, EYFPA1only)

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.



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

Light Weight

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

Tightening Confirmation Lamp
Green light indicates tightening is completed.

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

Tool Hanger (EYFNA1,EYFPA1only)
The tool can be hanged on the balancer both vertically and horizontally

Vertical hanging

Horizontal hanging

LED Light
For operations in dimly lit place.

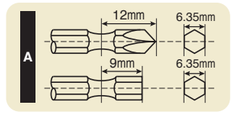
Remote Control
Tool setting can be set only by remote control.

Various Support Features

EYFLA4/5/6 EYFMA1
EYFNA1 EYFPA1

10.8V/ 14.4V Shut-off Impact Driver & Wrench

Applicable bit size for quick change chuck



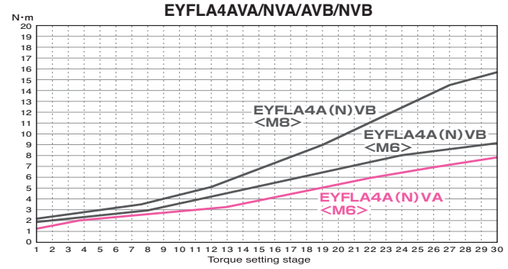
Rehit SPEED Control

	Cordless Impact Driver			Cordless Impact Driver / Wrench
	EYFLA4AVA	EYFLA4AVB	EYFLA4A	EYFLA5A / EYFLA5Q
	10.8V Brushless Motor		10.8V Brushless Motor	10.8V Brushless Motor
				
	3.0Ah 2.0Ah		3.0Ah 2.0Ah	3.0Ah 2.0Ah
	*Battery pack is not included		*Battery pack is not included	*Battery pack is not included
Chuck / Anvil type	1/4" Hex quick change		1/4" Hex quick change	A: 1/4" Hex quick change, Q: 9.5mm Sq. drive Pin-hole
Application	Screw M5・M6 (Normal-Tensile bolt)	Screw M5・M6 (Normal-Tensile bolt) M8 bolt (Normal bolt)	Screw M5・M6 (Normal-Tensile bolt) M8 bolt (Normal bolt)	M6 bolt (Tensile bolt) M8 bolt (Normal bolt)
Maximum torque (F mode, fastening 3 sec.)	approx. 13 N·m (M8 bolt)	approx. 25 N·m (M10 bolt)	approx. 40 N·m (M10 bolt)	approx. 90 N·m (M14 bolt)
Shut-off range	approx. 1.5 ~ 8 N·m	approx. 2 ~ 15 N·m	approx. 3 ~ 22 N·m	approx. 6 ~ 30 N·m
Torque setting	30 stage + F (without torque setting mode)			
Snug torque detection mode setting	L1: For lighter loads during fastener run down L2: For prevailing torque during run down and varying joint rate applications			
No load speed (unit : rpm)	stage1: 0 ~ 950 stage2: 0 ~ 1300 stage3: 0 ~ 1450 stage4 ~ 8: 0 ~ 1550 stage9 ~ 30・F: 0 ~ 2300		stage1: 0 ~ 950 stage2: 0 ~ 1300 stage3: 0 ~ 1450 stage4 ~ 8: 0 ~ 1550 stage9 ~ 30・F: 0 ~ 2300	stage1: 0 ~ 1300 stage2: 0 ~ 1450 stage3: 0 ~ 1550 stage4 ~ 30・F: 0 ~ 2300
Impact per minute	stage1: 0 ~ 1900 stage2: 0 ~ 2500 stage3: 0 ~ 2800 stage4 ~ 8: 0 ~ 3000 stage9 ~ 30・F: 0 ~ 4300	stage1: 0 ~ 1900 stage2: 0 ~ 2500 stage3: 0 ~ 2800 stage4 ~ 8: 0 ~ 3000 stage9 ~ 30・F: 0 ~ 4200	stage1: 0 ~ 1900 stage2: 0 ~ 2500 stage3: 0 ~ 2800 stage4 ~ 8: 0 ~ 3000 stage9 ~ 30・F: 0 ~ 4000	stage1: 0 ~ 2500 stage2: 0 ~ 2800 stage3: 0 ~ 3000 stage4 ~ 30・F: 0 ~ 3600
Weight*1 (inc. battery) EYFB30B	approx. 1.3kg			
EYFB32B	approx. 1.15kg			
EYFB43B	—			
EYFB41B	—			
Size Length	158mm		158mm	A: 158mm / Q: 164mm
Height	248mm (EYFB30B), 231mm (EYFB32B)			
Width	approx. 59mm (Width of battery pack: approx. 75mm)			
Function LED light	√ (ON/OFF switch, Light turns off after five minutes automatically)			
Tightening confirmation lamp	√ (OK fastening: Green lamp, NOK fastening: Red lamp)			
Retightening prevention function	√ (Possible to set between 0 ~ 3 sec.. 0.1 sec. per stage)			
Battery indication lamp	√ (3 stages)			
Torque Adjustment	√			
Auto battery shutdown	√			
Work capacity / Fastening speed	<M6: 10 N·m, Stage: 19> (EYFB30B) approx. 1200 pcs/pack approx. 0.7 sec/1pcs (EYFB32B) approx. 800 pcs/pack approx. 0.7 sec/1pcs		<M6: 10 N·m, Stage: 19> (EYFB30B) approx. 1200 pcs/pack approx. 0.7 sec/1pcs (EYFB32B) approx. 800 pcs/pack approx. 0.7 sec/1pcs	<M8: 23 N·m, Stage: 22> (EYFB30B) approx. 800 pcs/pack approx. 0.8 sec/1pcs (EYFB32B) approx. 540 pcs/pack approx. 0.8 sec/1pcs
Charging time	(Battery pack EYFB30B, Charger EY0L82B) Usable charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min			

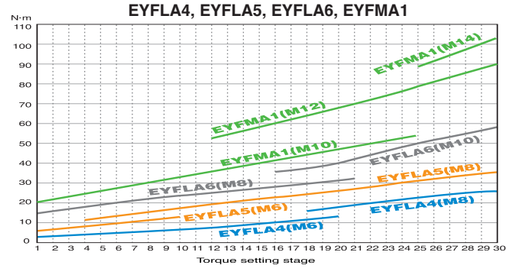
	Cordless Impact Wrench	
	EYFLA6J	EYFMA1J
	10.8V Brushless Motor	14.4V Brushless Motor
		
	3.0Ah 2.0Ah	4.0Ah 2.0Ah
	*Battery pack is not included	*Battery pack is not included
Chuck / Anvil type	12.7mm Sq. drive Pin-hole	12.7mm Sq. drive Pin-hole
Application	M8 bolt (Tensile bolt) M10 bolt (Normal bolt)	M10 bolt (Tensile bolt) M12 bolt (Normal-Tensile bolt) M14 bolt (Normal bolt)
Maximum torque (F mode, fastening 3 sec.)	approx. 120 N·m (M14 bolt)	approx.185 N·m(M16 bolt)
Shut-off range	approx. 16 ~ 53 N·m	approx. 25 ~ 100 N·m
Torque setting	30 stage + F (without torque setting mode)	
Snug torque detection mode setting	L1: For lighter loads during fastener run down L2: For prevailing torque during run down and varying joint rate applications	
No load speed (unit : rpm)	0 ~ 2300	0 ~ 2300
Impact per minute	0 ~ 3000	0 ~ 3200
Weight*1 (inc. battery) EYFB30B	approx. 1.4kg	—
EYFB32B	approx. 1.25kg	—
EYFB43B	—	approx. 1.5kg
EYFB41B	—	approx. 1.3kg
Size Length	172mm	
Height	248mm (EYFB30B), 231mm (EYFB32B)	248mm (EYFB43B), 231mm (EYFB41B)
Width	approx. 59mm (Width of battery pack: approx. 75mm)	
Function LED light	√ (ON/OFF switch, Light off after five minutes automatically)	
Tightening confirmation lamp	√ (OK fastening: Green lamp, NOK fastening: Red lamp)	
Retightening prevention function	√ (Possible to set between 0 ~ 3sec.. 0.1 sec. per stage)	
Battery indication lamp	√ (3 stage)	
Torque Adjustment	√	
Auto battery shutdown	√	
Work capacity / Fastening speed	<M10: 43 N·m, Stage: 23> (EYFB30B) approx. 500 pcs/pack approx. 0.9 sec/1pcs (EYFB32B) approx. 330 pcs/pack approx. 0.9 sec/1pcs	<M12: 71 N·m, Stage: 22> (EYFB43B) approx. 670 pcs/pack approx. 0.9 sec/1pcs (EYFB41B) approx. 350 pcs/pack approx. 0.9 sec/1pcs
Charging time	(Battery pack EYFB30B, Charger EY0L82B) Usable charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min	(Battery pack EYFB43B, Charger EY0L82B) Usable Charge: approx. 45 min. Full Charge: approx. 60 min (Battery Pack EYFB41B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min

Tightening Torque Chart (for Reference Use)

EYFLA4AVA/NVA/AVB/NVB



EYFLA4, EYFLA5, EYFLA6, EYFMA1



The 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.).

<Optional Accessory>

10.8V Li-Ion Battery Pack EYFB30B, EYFB32B

EYFB30B (3.0Ah)
EYFB32B (2.0Ah)

14.4V Li-Ion Battery Pack EYFB43B, EYFB41B

EYFB43B (4.0Ah)
EYFB41B (2.0Ah)

Charger EY0L82B

Remote Control EYFA31B

Protector for Battery
EYFA02-H (gray), EYFA03-H (gray), EYFA04-H (gray), EYFA06-H (gray)

EYFA02 (for EYFB30B)
EYFA03 (for EYFB32B)
EYFA04 (for EYFB43B)
EYFA06 (for EYFB41B)

Protector for Tool
EYFA01-A (blue), -Y (yellow)-H (gray), -G (green)

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

18V/ 21.6V Shut-off Impact Driver & Wrench

Cordless Impact Wrench
EYFNA1C

18V | Brushless Motor

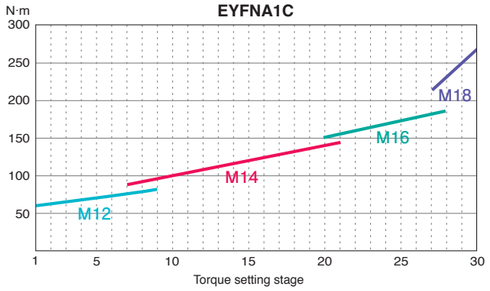
5.0Ah

*Battery pack is not included

Chuck / Anvil type		12.7mm Sq. drive Retainer ring and Pin-hole
Application		M12 (High-Tensile bolt), M14 (Normal, High-Tensile bolt) M16 (Normal bolt), M18 (Normal bolt)
Maximum torque		approx.470 N·m (M24 Tensile bolt, F mode, fastening 3sec.) approx.520 N·m (M24 Tensile bolt, F mode, fastening 5sec.)
Shut-off range		approx. 70 ~ 200 N·m
Torque setting		30 stage + F (without torque setting mode)
Snug torque detection mode setting		L1: For lighter loads during fastener run down L2: For prevailing torque during run down and varying joint rate applications
No load speed (unit : rpm)		0 ~ 1900
Impact per minute		0 ~ 2200
Weight*1 (inc. battery)		approx. 3.0kg
Size	**Length**	233mm
	Height	approx. 286mm
	Width	approx. 77mm (Width of battery pack: approx. 76mm)
Function	**Torque adjustment**	√
	Cross thread reduction	√ (The tool rotates approx. 360 degree in reverse before fastening starts. Possible to choose ON/OFF)
	Rundown error detecting	√ (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 - 99hours. 1hour per stage)
	LED light	√ (Possible to choose from the 2 LED light modes. by ON/OFF switch or trigger switch interlocked)
	Buzzer	√ (Possible to choose from the 3 buzzer modes, No buzzer, buzzer with OK or buzzer with NOK)
	Tightening confirmation lamp	√ (OK fastening: Green lamp. NOK fastening: Red lamp)
	Battery indication lamp	√ (3 stage)
	Auto battery shut down	√
Work capacity / Fastening speed		<M12: 100 N·m, Stage: 13> approx.500pcs/pack
Charging time		(Battery pack EYFB50B, Charger EY0L82B) Usable Charge: approx. 65 min. Full Charge: approx. 80 min

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

Tightening Torque Chart (for Reference Use)



The 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.).

<Optional Accessory>

18V Li-Ion Battery Pack
EYFB50B

(5.0Ah)

Charger
EY0L82B

Remote Control
EYFA31B

Protector for Battery
EYFA10-H (gray)

Tool Hanger
EYFA41B

Protector for Tool
EYFA09
-A (blue), -Y (yellow)
-H (gray), -G (green)

Cordless Impact Wrench
EYFPA1J

21.6V | Brushless Motor

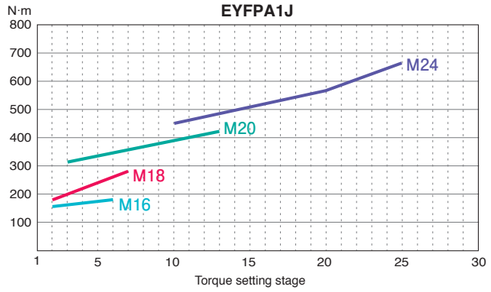
4.0Ah

*Battery pack is not included

Chuck / Anvil type		19mm Sq. drive Pin-hole
Application		M16 (High-Tensile bolt), M18 (Normal, High-Tensile bolt) M20 (Normal bolt), M24 (Normal bolt)
Maximum torque		approx.700 N·m (M24 Tensile bolt, F mode, fastening 3sec.) approx.750 N·m (M24 Tensile bolt, F mode, fastening 5sec.)
Shut-off range		approx. 160 ~ 650 N·m
Torque setting		30 stage + F (without torque setting mode)
Snug torque detection mode setting		L1: For lighter loads during fastener run down L2: For prevailing torque during run down and varying joint rate applications
No load speed (unit : rpm)		0 ~ 1900
Impact per minute		0 ~ 2200
Weight*1 (inc. battery)		approx. 3.6kg
Size	**Length**	250mm
	Height	approx. 295mm
	Width	approx. 77mm (Width of battery pack: approx. 77mm)
Function	**Torque adjustment**	√
	Cross thread reduction	√ (The tool rotates approx. 360 degree in reverse before fastening starts. Possible to choose ON/OFF)
	Rundown error detecting	√ (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 - 99hours. 1hour per stage)
	LED light	√ (Possible to choose from the 2 LED light modes. by ON/OFF switch or trigger switch interlocked)
	Buzzer	√ (Possible to choose from the 3 buzzer modes, No buzzer, buzzer with OK or buzzer with NOK)
	Tightening confirmation lamp	√ (OK fastening: Green lamp. NOK fastening: Red lamp)
	Battery indication lamp	√ (3 stage)
	Auto battery shut down	√
Work capacity / Fastening speed		<M16: 180 N·m, Stage: 6> (EYFB61B) approx.380pcs/pack, approx. 0.7 sec/1pcs
Charging time		(Battery pack EYFB61B, Charger EY0L82B) Usable Charge: approx. 65 min. Full Charge: approx. 75 min

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

Tightening Torque Chart (for Reference Use)



The 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.).

<Optional Accessory>

21.6V Li-Ion Battery Pack
EYFB61B

(4.0Ah)

Charger
EY0L82B

Remote Control
EYFA31B

Protector for Battery
EYFA08-H (gray)

Tool Hanger
EYFA41B

Protector for Tool
EYFA07
-A (blue), -Y (yellow)
-H (gray), -G (green)

Cordless Shut-Off Angle Impact Wrench

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

More Features

Paddle Switch
Long paddle switch provides options of grip position, center or back end.

Back end position provides more reach.

Center position provides better balance.

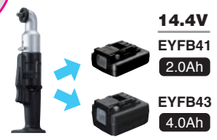
Tightening Confirmation Lamp
Green light indicates tightening is completed.

360° Rotating Head (90°step size)

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

Tool Hanger
The tool can be hanged on the balancer.

LED Light
For operations in dimly lit place.



Various Support Features

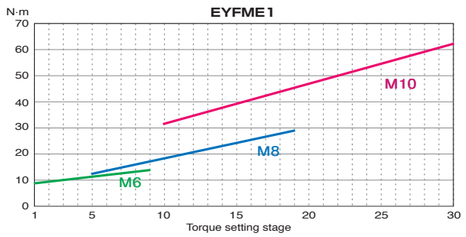
14.4V Shut-off Right Angle Impact Wrench

Cordless Right Angle Impact Wrench	
EYFME1C	
14.4V / Brushless Motor 4.0Ah / 2.0Ah *Battery pack is not included	

Chuck / Anvil type		9.5mm Sq. drive Retainer ring and Pin-hole
Application		M6 bolt (Tensile bolt), M8 bolt (Normal-Tensile bolt), M10 bolt (Normal bolt)
Maximum torque		approx.80 N·m (M12 , F mode, fastening 3sec.)
Shut-off range		approx. 10 ~ 53 N·m
Torque setting		30 stage + F (without torque setting mode)
Snug torque detection mode setting		L1: For lighter loads during fastener run down L2: For prevailing torque during run down and varying joint rate applications
No load speed (unit : rpm)		0 ~ 2300
Impact per minute		0 ~ 3500
Weight*1 (inc. battery)		approx. 1.5kg (EYFB41B), approx. 1.7kg (EYFB43B)
Size	**Length**	381mm (EYFB41B), 399mm (EYFB43B)
Size	**Height**	approx. 96mm (Height of battery pack: approx. 101mm)
Size	**Width**	approx. 60mm (Width of battery pack: approx. 75mm)
Function	**Torque adjustment**	√
Function	**Cross thread reduction**	√ (The tool rotates approx. 360 degree in reverse before fastening starts. Possible to choose ON/OFF)
Function	**Rundown error detecting**	√ (Alert with Red light. Possible to set between 0 ~ 3 sec.. 0.1 sec. per stage)
Function	**Maintenance interval alarm function**	√ (Possible to set between 0 - 99hours. 1hour per stage)
Function	**Retightening prevention function**	√ (Possible to set between 0 ~ 0.9sec.. 0.1 sec. per stage)
Function	**LED light**	√ (Possible to choose from the 2 LED light modes. by ON/OFF switch or trigger switch interlocked)
Function	**Buzzer**	√ (Possible to choose from the 3 buzzer modes, No buzzer, buzzer with OK or buzzer with NOK)
Function	**Tightening confirmation lamp**	√ (OK fastening: Green lamp. NOK fastening: Red lamp)
Function	**Battery indication lamp**	√ (3 stage)
Function	**Auto battery shut down**	√
Work capacity / Fastening speed		<M10: 53 N·m, Stage: 25> (EYFB41B) approx. 120 pcs/pack, approx. 2.2 sec/1pcs (EYFB43B) approx. 210 pcs/pack, approx. 2.2 sec/1pcs
Charging time		(Battery Pack EYFB41, Charger EY0L82B) Usable Charge: approx. 35min., Full Charge: approx. 40min (Battery Pack EYFB43, Charger EY0L82B) Usable Charge: approx. 45min., Full Charge: approx. 60min

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

Tightening Torque Chart (for Reference Use)



The 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.).

<Optional Accessory>

14.4V Li-Ion Battery Pack
EYFB43B, EYFB41B

EYFB43B (4.0Ah)
EYFB41B (2.0Ah)

Charger
EY0L82B

Remote Control
EYFA31B

Protector for Battery
EYFA04-H (gray)
EYFA06-H (gray)

EYFA04 (for EYFB43B)
EYFA06 (for EYFB41B)

Tool Hanger
EYFA41B

Protector for Tool
EYFA12
-A (blue), -Y (yellow)
-H (gray), -G (green)

Panasonic Quality Control Monitoring

With highly efficient tools and qualifiers, Panasonic offers a reliable Quality Control System

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

Panasonic Wireless Communication System

System Flow Chart of Wireless Communication System

With EYFR02 With EYFR02

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

Wireless Communication

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

Green light Indicates a successful fastening.

Red light indicates unsuccessful fastening.

***PLC* (sequencer)**

From the qualifier the following data can be output to PLC

·OK/NOK

Functionality Chart (Combination of tool body and accessories)

	Improving fastening quality with Torque Control	Transmission of OK/NOK signal	Storing the OK/NOK signal data *The data is stored in a computer
Tool body+ Assembly qualifier + PLC (sequencer)	○	○	×
Tool body only	○	×	×

*Distance can vary depending on operating conditions.

Utilizes a highly reliable radio system to extend the operating range

Tool Distance

A highly reliable data signal can be transmitted if the tool is within 10m of the assembly qualifier and if there are no barriers between the tool and qualifier.

ID management is not required

The qualifiers accept only registered ID. There is no interference even when multiple tools are used on the production line.

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.

EYFR02B		
	Recommended range	10m*
	Rated supply voltage	AC100-230V, 50/60Hz
	Power consumption	4.4W – 4.6W
	No. of connected devices	1
	Communication Data	OK/NOK signal (Pokayoke)
	Function settings	With PC
	ID settings	With Soft key
	Reset input	60mA at 24V
	External connection output	5A at 250VAC or 5A at 30VDC
	Operating temperature range	–10°C (14°F) ~ 60°C (140°F)
	Weight	1.15kg
	Dimensions (LxHxW)	254mmx119mmx73mm
	Function: Out of range disable function	●(On/Off of this function can be switched on the tool body)
	Function: Fastener count function	– (Needed to be set by external device)
	Compartible tools	EYFLA4AR, EYFLA5AR, EYFLA5QR, EYFLA6JR, EYFMA1JR, EYFGA1NR, EYFGA2NR, EYFGA3NR

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

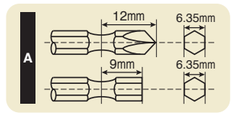
There is a risk of less communication range and/or communication error in conditions as below.

- Obstacle to disturb radio wave such as metals and/or reinforced concrete between tool and qualifier
- Metal cover on qualifier's antenna
- Operator's body between tool and qualifier
- Devices creating radio noise such as PC and/or mobile phone near tool and/or qualifier

*If strength of radio signal is weak and/or qualifier's reaction speed is slow, change qualifier's location and/or channel setting.

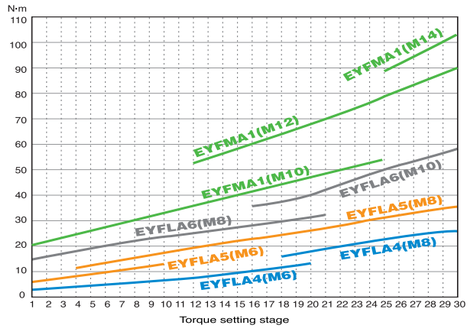
10.8V/ 14.4V Shut-off Impact Driver & Wrench with Wireless Communication

Applicable bit size for quick change chuck



	Cordless Impact Driver		Cordless Impact Wrench		Cordless Impact Wrench	
	EYFLA4AR	**EYFLA5AR**	**EYFLA5QR**		**EYFLA6JR**	**EYFMA1JR**
	10.8V Brushless Motor Wireless Communication  3.0Ah 2.0Ah *Battery pack is not included	10.8V Brushless Motor Wireless Communication  3.0Ah 2.0Ah *Battery pack is not included	10.8V Brushless Motor Wireless Communication  3.0Ah 2.0Ah *Battery pack is not included		10.8V Brushless Motor Wireless Communication  3.0Ah 2.0Ah *Battery pack is not included	14.4V Brushless Motor Wireless Communication  4.0Ah 2.0Ah *Battery pack is not included
Chuck / Anvil type	1/4" Hex quick change	1/4" Hex quick change	9.5mm Sq. drive Pin-hole		12.7mm Sq. drive Pin-hole	12.7mm Sq. drive Pin-hole
Application	Screw M5・M6 (Normal-Tensile bolt) M8 bolt (Normal bolt)	M6 bolt (Tensile bolt) M8 bolt (Normal bolt)	M6 bolt (Tensile bolt) M8 bolt (Normal bolt)		M8 bolt (Tensile bolt) M10 bolt (Normal bolt)	M10 bolt (Tensile bolt) M12 bolt (Normal-Tensile bolt) M14 bolt (Normal bolt)
Maximum torque (F mode, fastening 3 sec.)	approx. 40 N·m (M10 bolt)	approx. 90 N·m (M14 bolt)	approx. 90 N·m (M14 bolt)		approx. 120 N·m (M14 bolt)	approx.185 N·m(M16 bolt)
Shut-off range	approx. 3 ~ 22 N·m	approx. 6 ~ 30 N·m	approx. 6 ~ 30 N·m		approx. 16 ~ 53 N·m	approx. 25 ~ 100 N·m
Torque setting	30 stage + F (without torque setting mode)				30 stage + F (without torque setting mode)	
Snug torque detection mode setting	L1: For lighter loads during fastener run down L2: For prevailing torque during run down and varying joint rate applications				L1: For lighter loads during fastener run down L2: For prevailing torque during run down and varying joint rate applications	
No load speed (unit : rpm)	stage1: 0 ~ 950 stage2: 0 ~ 1300 stage3: 0 ~ 1450 stage4 ~ 8: 0 ~ 1550 stage9 ~ 30・F: 0 ~ 2300	stage1: 0 ~ 1300 stage2: 0 ~ 1450 stage3: 0 ~ 1550 stage4 ~ 30・F: 0 ~ 2300	stage1: 0 ~ 1300 stage2: 0 ~ 1450 stage3: 0 ~ 1550 stage4 ~ 30・F: 0 ~ 2300		0 ~ 2300	0 ~ 2300
Impact per minute	stage1: 0 ~ 1900 stage2: 0 ~ 2500 stage3: 0 ~ 2800 stage4 ~ 8: 0 ~ 3000 stage9 ~ 30・F: 0 ~ 4000	stage1: 0 ~ 2500 stage2: 0 ~ 2800 stage3: 0 ~ 3000 stage4 ~ 30・F: 0 ~ 3600	stage1: 0 ~ 2500 stage2: 0 ~ 2800 stage3: 0 ~ 3000 stage4 ~ 30・F: 0 ~ 3600		0 ~ 3000	0 ~ 3200
Weight*1 (inc. battery) EYFB30B	approx. 1.3kg				approx. 1.4kg	—
Weight*1 (inc. battery) EYFB32B	approx. 1.15kg				approx. 1.25kg	—
Weight*1 (inc. battery) EYFB43B	—				—	approx. 1.5kg
Weight*1 (inc. battery) EYFB41B	—				—	approx. 1.3kg
Size Length	158mm	158mm	164mm		172mm	
Size Height	248mm (EYFB30B), 231mm (EYFB32B)				248mm (EYFB30B), 231mm (EYFB32B)	248mm (EYFB43B), 231mm (EYFB41B)
Size Width	approx. 59mm (Width of battery pack: approx. 75mm)				approx. 59mm (Width of battery pack: approx. 75mm)	
Function Wireless communication	√				√	
Function LED light	√ (ON/OFF switch, Light turns off after five minutes automatically)				√ (ON/OFF switch, Light turns off after five minutes automatically)	
Function Tightening confirmation lamp	√ (OK fastening: Green lamp, NOK fastening: Red lamp)				√ (OK fastening: Green lamp, NOK fastening: Red lamp)	
Function Retightening prevention function	√ (Possible to set between 0 ~ 3 sec.. 0.1 sec. per stage)				√ (Possible to set between 0 ~ 3 sec.. 0.1 sec. per stage)	
Function Battery indication lamp	√ (3 stages)				√ (3 stages)	
Function Auto battery shutdown	√				√	
Work capacity / Fastening speed	<M6: 10 N·m, Stage: 19> (EYFB30B) approx. 1200 pcs/pack approx. 0.7 sec/1pcs (EYFB32B) approx. 800 pcs/pack approx. 0.7 sec/1pcs	<M8: 23 N·m, Stage: 22> (EYFB30B) approx. 800 pcs/pack approx. 0.8 sec/1pcs (EYFB32B) approx. 540 pcs/pack approx. 0.8 sec/1pcs	<M8: 23 N·m, Stage: 22> (EYFB30B) approx. 800 pcs/pack approx. 0.8 sec/1pcs (EYFB32B) approx. 540 pcs/pack approx. 0.8 sec/1pcs		<M10: 43 N·m, Stage: 23> (EYFB30B) approx. 500 pcs/pack approx. 0.9 sec/1pcs (EYFB32B) approx. 330 pcs/pack approx. 0.9 sec/1pcs	<M12: 71 N·m, Stage: 22> (EYFB43B) approx. 670 pcs/pack approx. 0.9 sec/1pcs (EYFB41B) approx. 350 pcs/pack approx. 0.9 sec/1pcs
Charging time	(Battery pack EYFB30B, Charger EY0L82B) Usable charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min				(Battery pack EYFB30B, Charger EY0L82B) Usable charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min	(Battery pack EYFB43B, Charger EY0L82B) Usable Charge: approx. 45 min. Full Charge: approx. 60 min (Battery Pack EYFB41B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min

Tightening Torque Chart (for Reference Use)



The 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.).

<Optional Accessory>

Assembly Qualifier
EYFR02B

10.8V Li-Ion Battery Pack **EYFB30B, EYFB32B**	14.4V Li-Ion Battery Pack **EYFB43B, EYFB41B**
 **EYFB30B** (3.0Ah) **EYFB32B** (2.0Ah)	 **EYFB43B** (4.0Ah) **EYFB41B** (2.0Ah)
Charger **EY0L82B**	Remote Control **EYFA31B**
	

Protector for Battery
EYFA02-H (gray), EYFA03-H (gray), EYFA04-H (gray), EYFA06-H (gray)

EYFA02 (for EYFB30B)
EYFA03 (for EYFB32B)
EYFA04 (for EYFB43B)
EYFA06 (for EYFB41B)

Protector for Tool
EYFA01-A (blue), -Y (yellow)-H (gray), -G (green)

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

Panasonic tool with Herutu model
(HERUTU ELECTRONICS CORPORATION)

Compatible with a wide range of Herutu TW-800 series receivers

Herutu Pokayoke Tools

TW-800 series manufactured by HERUTU ELECTRONICS CORPORATION can be connected to Panasonic tools

Built in transmitter

This module allows the data from your work to transfer to your system

Data flow order

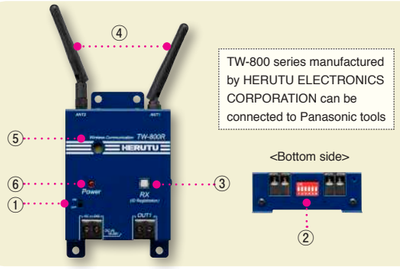
Panasonic tool

Wireless Communication

TW-800 series

Your quality control system

TW-800 series names and functions



① Power switch	Power on and off
② DIP Switch	Adjusting the alert sound (6 selection)
③ RX light switch	LED lights at receiving the signal from transmitter RX light switch used for pairing.
④ Antenna	2 antennas (Adjustable for multiple angles)
⑤ Buzzer	Buzzer sounds at receiving the signal from transmitter. (Adjustable to loud or quieter sound)
⑥ Power light	Lights up when the power is on

TW-800 Pairing process

① Turn on the power switch while holding the RX pairing button.

② Within 10 seconds reconnect the battery with the tool.

③ Pull the trigger and the light from the RX button should disappear and the pairing is complete.

④ (To adjust the alert volume, adjust selection #6 on the dip switch)

*Refer to Herutu manual for additional functions/features

② Reconnect the battery with the tool

③ Pull the trigger

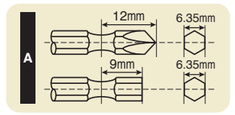
Compatible tools with Herutu receiver

Supports M5 to M14

EYFLA7AH, EYFLA8AH, EYFLA8CH, EYFLA9CH, EYFMA2CH

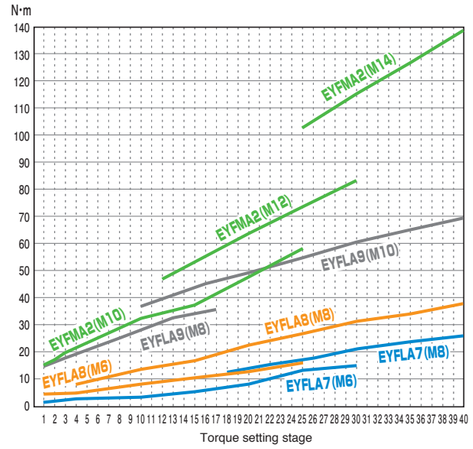
10.8V/ 14.4V Precision Shut-off Impact Driver & Wrench with Herutu Wireless Communication

Applicable bit size for quick change chuck



	Cordless Impact Driver		Cordless Impact Wrench		Cordless Impact Wrench	
	EYFLA7AH	**EYFLA8AH**	**EYFLA8CH**		**EYFLA9CH**	**EYFMA2CH**
	10.8V Brushless Motor Wireless Communication	10.8V Brushless Motor Wireless Communication	10.8V Brushless Motor Wireless Communication		10.8V Brushless Motor Wireless Communication	14.4V Brushless Motor Wireless Communication
						
	3.0Ah 2.0Ah *Battery pack is not included	3.0Ah 2.0Ah *Battery pack is not included	3.0Ah 2.0Ah *Battery pack is not included		3.0Ah 2.0Ah *Battery pack is not included	4.0Ah 2.0Ah *Battery pack is not included
Chuck / Anvil type	1/4" Hex quick change	1/4" Hex quick change	9.5mm Sq. drive Retainer ring and Pin-hole		12.7mm Sq. drive Retainer ring and Pin-hole	12.7mm Sq. drive Retainer ring and Pin-hole
Application	Screw M5•M6 (Normal—Tensile bolt) M8 bolt (Normal bolt)	M6 bolt (Tensile bolt) M8 bolt (Normal—Tensile bolt)	M6 bolt (Tensile bolt) M8 bolt (Normal—Tensile bolt)		M8 bolt (Tensile bolt) M10 bolt (Normal bolt)	M10 bolt (Tensile bolt) M12 bolt (Normal-Tensile bolt) M14 bolt (Normal bolt)
Maximum torque (F mode, fastening 3 sec.)	approx. 35 N·m (M10 bolt)	approx. 80 N·m (M14 bolt)	approx. 80 N·m (M14 bolt)		approx. 120 N·m (M14 Tensile bolt)	approx.185 N·m (M16 Tensile bolt)
Shut-off range	approx. 3 ~ 22 N·m	approx. 6 ~ 30 N·m	approx. 6 ~ 30 N·m		approx. 20 ~ 60 N·m	approx. 25 ~ 120 N·m
Torque setting	40 stage + F (without torque setting mode)				40 stages + F (without torque setting mode)	
Snug torque detection mode setting	7 stages (L1 ~ L7)				7 stages (L1 ~ L7)	
No load speed (unit : rpm)	stage1: 0~ 950, stage2 : 0~1250 stage3: 0~1450, stage4~8: 0~1550 stage9~40•F: 0~2300	stage1: 0~1300, stage2 : 0~1450 stage3: 0~1550, stage4~40•F: 0~2300			0 ~ 2300	0 ~ 2300
Impact per minute	stage1: 0~1800, stage2 : 0~2250 stage3: 0~2500, stage4~8: 0~2950 stage9~40•F: 0~3600	stage1: 0~2400, stage2 : 0~2500 stage3: 0~2800, stage4~40•F: 0~3300			0 ~ 2800	0 ~ 2900
Weight*1 (inc. battery) EYFB30B	approx. 1.3kg	approx. 1.35kg	approx. 1.35kg		approx. 1.45kg	—
Weight*1 (inc. battery) EYFB32B	approx. 1.15kg	approx. 1.15kg	approx. 1.15kg		approx. 1.3kg	—
Weight*1 (inc. battery) EYFB43B	—	—	—		—	approx. 1.6kg
Weight*1 (inc. battery) EYFB41B	—	—	—		—	approx. 1.4kg
Size Length	153mm	153mm	162mm		172mm	
Size Height	249mm (EYFB30B), 231mm (EYFB32B)				250mm (EYFB30B), 232mm (EYFB32B)	250mm (EYFB43B), 232mm (EYFB41B)
Size Width	approx. 59mm (Width of battery pack: approx. 75mm)				approx. 59mm (Width of battery pack: approx. 75mm)	
Vibration	5.2m/s²	7.0m/s²	6.3m/s²		5.1m/s²	6.9m/s²
Function Wireless communication	√				√	
Function LED light	√ (ON/OFF switch, Light turns off after five minutes automatically)				√ (ON/OFF switch, Light turns off after five minutes automatically)	
Function Tightening confirmation lamp	√ (OK fastening: Green lamp, NOK fastening: Red lamp)				√ (OK fastening: Green lamp, NOK fastening: Red lamp)	
Function Battery indication lamp	√ (3 stages)				√ (3 stages)	
Function Auto battery shutdown	√				√	
Function Advanced fastening features	√ (For details of the feature, Please refer to page 7)				√ (For details of the feature, Please refer to page 7)	
Function Tool hanger	√				√	
Work capacity / Fastening speed	<M6: 10 N·m, Stage: 22> (EYFB30B) approx. 1200 pcs/pack approx. 0.7 sec/1pcs (EYFB32B) approx. 800 pcs/pack approx. 0.7 sec/1pcs	<M8: 23 N·m, Stage: 22> (EYFB30B) approx. 800 pcs/pack approx. 0.8 sec/1pcs (EYFB32B) approx. 540 pcs/pack approx. 0.8 sec/1pcs	<M8: 23 N·m, Stage: 22> (EYFB30B) approx. 800 pcs/pack approx. 0.8 sec/1pcs (EYFB32B) approx. 540 pcs/pack approx. 0.8 sec/1pcs		<M10: 43 N·m, Stage: 23> (EYFB30B) approx. 400 pcs/pack approx. 0.8 sec/1pcs (EYFB32B) approx. 260 pcs/pack approx. 0.8 sec/1pcs	<M12: 71 N·m, Stage: 22> (EYFB43B) approx. 510 pcs/pack approx. 0.8 sec/1pcs (EYFB41B) approx. 270 pcs/pack approx. 0.8 sec/1pcs
Charging time	(Battery pack EYFB30B, Charger EY0L82B) Usable charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min				(Battery pack EYFB30B, Charger EY0L82B) Usable charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min	(Battery pack EYFB43B, Charger EY0L82B) Usable Charge: approx. 45 min. Full Charge: approx. 60 min (Battery Pack EYFB41B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min

Tightening Torque Chart (for Reference Use)



The 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.).

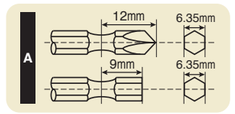
<Optional Accessory>

10.8V Li-Ion Battery Pack **EYFB30B, EYFB32B**	14.4V Li-Ion Battery Pack **EYFB43B, EYFB41B**
 **EYFB30B** (3.0Ah) **EYFB32B** (2.0Ah)	 **EYFB43B** (4.0Ah) **EYFB41B** (2.0Ah)
Charger **EY0L82B**	Remote Control **EYFA31B**
	
Protector for Battery **EYFA02-H (gray), EYFA03-H (gray) EYFA04-H (gray), EYFA06-H (gray)**	
 **EYFA02** (for EYFB30B) **EYFA03** (for EYFB32B) **EYFA04** (for EYFB43B) **EYFA06** (for EYFB41B)	
Protector for Tool **EYFA13-A (blue), -Y (yellow), -H (gray), -D (orange), -G (green)**	
	

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

10.8V Impact Driver & Wrench without Torque Control

Applicable bit size for quick change chuck



SPEED Control

	Cordless Impact Driver	Cordless Impact Driver / Wrench			Cordless Impact Wrench	Cordless Oilpulse Driver
	EYFLB1A	**EYFLB2A / EYFLB2Q**	**EYFLB3A / EYFLB3J**		**EYFMB1B / EYFMB1J**	**EYFLC1A**
	10.8V Brushless Motor	10.8V Brushless Motor	10.8V Brushless Motor		14.4V Brushless Motor	10.8V Brushless Motor
						
	3.0Ah 2.0Ah	3.0Ah 2.0Ah	3.0Ah 2.0Ah		4.0Ah 2.0Ah	3.0Ah 2.0Ah
	*Battery pack is not included	*Battery pack is not included	*Battery pack is not included		*Battery pack is not included	*Battery pack is not included
Chuck / Anvil type	1/4" Hex quick change	A: 1/4" Hex quick change Q: 9.5mm Sq. drive Pin-hole	A: 1/4" Hex quick change J: 12.7mm Sq. drive Pin-hole		B: 12.7mm Sq. drive Ball-detent J: 12.7mm Sq. drive Pin-hole	1/4" Hex quick change
Application	Screw M5•M6 (Normal-Tensile bolt) M8 bolt (Normal bolt)	M6 bolt (Tensile bolt) M8 bolt (Normal bolt)	M8 bolt (Tensile bolt) M10 bolt (Normal bolt)		M10 bolt (Tensile bolt) M12 bolt (Normal-Tensile bolt) M14 bolt (Normal bolt)	Screw M5•M6 (Normal-Tensile bolt) M8 bolt (Normal bolt)
Maximum torque (F mode, fastening 3 sec.)	approx. 40 N·m (M10 bolt)	approx. 90 N·m (M14 bolt)	approx. 120 N·m (M14 bolt)		approx. 185 N·m (M16 bolt)	approx. 27 N·m (M8 bolt)
No load speed (unit : rpm)	0 ~ 2300				0 ~ 2300	0 ~ 3150
Impact per minute	0 ~ 4000	0 ~ 3600	0 ~ 3000		0 ~ 3200	0 ~ 1850
Weight*1 (inc. battery) EYFB30B	approx. 1.3kg		approx. 1.4kg		—	approx. 1.45kg
Weight*1 (inc. battery) EYFB32B	approx. 1.15kg		approx. 1.25kg		—	approx. 1.3kg
Weight*1 (inc. battery) EYFB43B	—		—		approx. 1.5kg	—
Weight*1 (inc. battery) EYFB41B	—		—		approx. 1.3kg	—
Size Length	158mm	A: 158mm / Q: 164mm	A: 158mm / J: 172mm		172mm	158mm
Size Height	248mm (EYFB30B), 231mm (EYFB32B)				248mm (EYFB43B), 231mm (EYFB41B)	248mm (EYFB30B), 231mm (EYFB32B)
Size Width	approx. 59mm (Width of battery pack: approx. 75mm)				approx. 59mm (Width of battery pack: approx. 75mm)	
Function LED light	√ (ON/OFF switch, Light off after five minutes automatically)				√ (ON/OFF switch, Light off after five minutes automatically)	
Function Battery indication lamp	√ (3 stage)				√ (3 stage)	
Function Auto battery shut down	√				√	
Work capacity / Fastening speed	<M6: 10 N·m> (EYFB30B) approx. 1150 pcs/pack approx. 0.7 sec/1pcs (EYFB32B) approx. 770 pcs/pack approx. 0.7 sec/1pcs	<M8: 23 N·m> (EYFB30B) approx. 740 pcs/pack approx. 0.8 sec/1pcs (EYFB32B) approx. 500 pcs/pack approx. 0.8 sec/1pcs	<M10: 43 N·m> (EYFB30B) approx. 480 pcs/pack approx. 0.9 sec/1pcs (EYFB32B) approx. 320 pcs/pack approx. 0.9 sec/1pcs		<M12: 71 N·m, Stage: 22> (EYFB43B) approx. 670 pcs/pack approx. 0.9 sec/1pcs (EYFB41B) approx. 350 pcs/pack approx. 0.9 sec/1pcs	<M6: 10 N·m> (EYFB30B) approx. 720 pcs/pack approx. 0.7 sec/1pcs (EYFB32B) approx. 480 pcs/pack approx. 0.7 sec/1pcs
Charging time	(Battery pack EYFB30B, Charger EY0L82B) Usable charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min				(Battery pack EYFB43B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 60 min (Battery Pack EYFB41B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min	(Battery pack EYFB30B, Charger EY0L82B) Usable Charge: approx. 35 min. Full charge: approx. 45 min (Battery Pack EYFB32B, Charger EY0L82B) Usable Charge: approx. 35 min. Full Charge: approx. 40 min

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

<Optional Accessory>

10.8V Li-Ion Battery Pack **EYFB30B, EYFB32B**

EYFB30B (3.0Ah)
EYFB32B (2.0Ah)

14.4V Li-Ion Battery Pack **EYFB43B, EYFB41B**

EYFB43B (4.0Ah)
EYFB41B (2.0Ah)

Charger **EY0L82B**

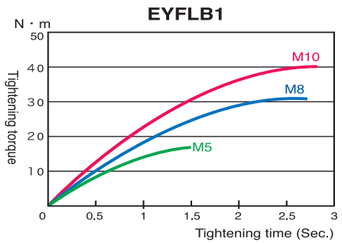
Remote Control **EYFA31B**

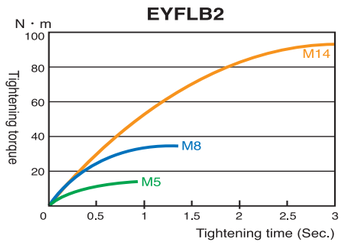
Protector for Battery
EYFA02-H (gray), EYFA03-H (gray), EYFA04-H (gray), EYFA06-H (gray)

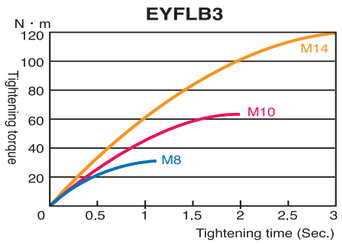
EYFA02 (for EYFB30B)
EYFA03 (for EYFB32B)
EYFA04 (for EYFB43B)
EYFA06 (for EYFB41B)

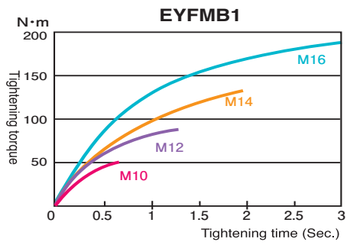
Protector for Tool
EYFA01-A (blue), -Y (yellow)-H (gray), -G (green)

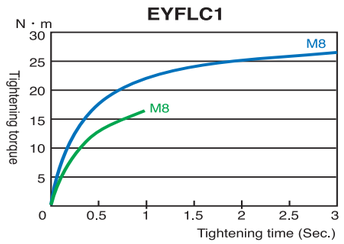
Tightening Torque Chart (for Reference Use)











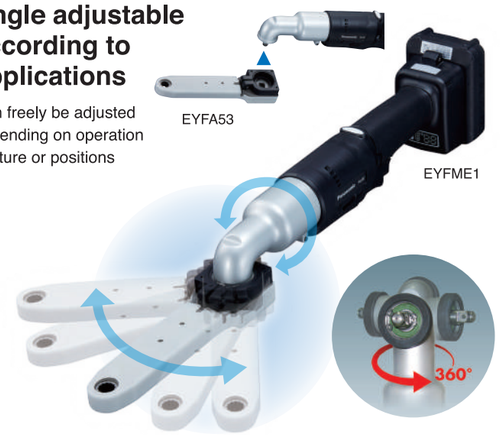
The values illustrated on this chart were measured under Panasonic measuring condition and are provided for reference purposes. Actual tightening torque varies with ambient conditions (the particular bolt being tightened, hardware being used, method of holding the bolt in place, etc.).

For hard-to-reach narrow applications

Attachment mount for existing Panasonic impact wrenches

Angle adjustable according to applications

Can freely be adjusted depending on operation posture or positions



Reverse mode

With Forward/Reverse switch of the impact wrench, untightening operation can easily be done.

4 model lineups for the below cordless impact wrenches

Attachment for narrow application

EYFA50 (for Cordless Impact Wrench EYFLA8C)

EYFA51 (for Cordless Impact Wrench EYFLA9C)

EYFA52 (for Cordless Low Noise Impact Wrench EYFLF2XC)

EYFA53 (for Cordless Right Angle Impact Wrench EYFME1C)

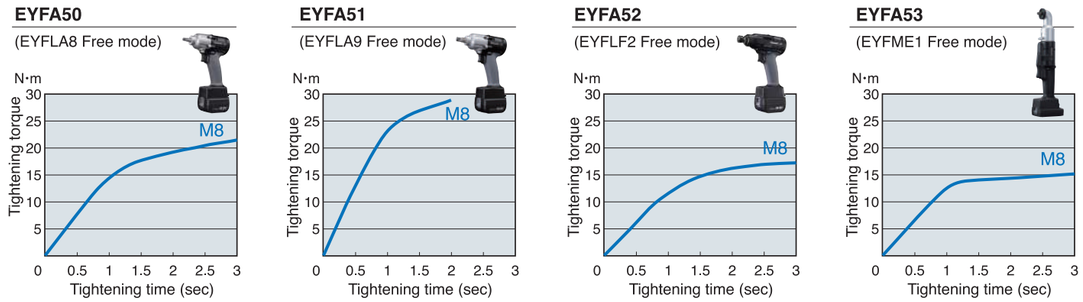
Specification

*numbers are approx.

Performance (Bolt dia.)	M8 (Normal to Tensile bolt)	EYFA50, EYFA51
	M8 (Normal bolt)	EYFA52, EYFA53
Output side dimension	Dia.12mm	
Input side dimension	EYFA50, 52, 53	□9.5mm
	EYFA51	□12.7mm
Max. torque*	EYFA50 (with EYFLA8)	19N·m (3 sec)
	EYFA51 (with EYFLA9)	26N·m (2 sec)
	EYFA52 (with EYFLF2)	15N·m (3 sec)
	EYFA53 (with EYFME1)	14N·m (3 sec)
Performance•Speed*	EYFA50 (with EYFLA8)	170 settings, 3 sec/setting (EYFB30)
		110 settings, 3 sec/setting (EYFB32)
	EYFA51 (with EYFLA9)	150 settings, 2 sec/setting (EYFB30)
		100 settings, 2 sec/setting (EYFB32)
	EYFA52 (with EYFLF2)	230 settings, 3 sec/setting (EYFB30)
		145 settings, 3 sec/setting (EYFB32)
	EYFA53 (with EYFME1)	270 settings, 3 sec/setting (EYFB43)
		130 settings,3 sec/setting (EYFB41)
Weight (attachment only, with protector)	EYFA50	710g
	EYFA51	700g
	EYFA52	710g
	EYFA53	700g

* The data are reference values based on our measurement conditions.

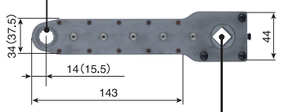
Tightening torque reference chart



Dimension

*() value with protector *Dimension unit: mm *numbers are approx.

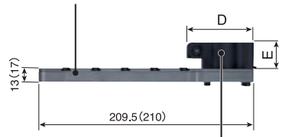
● **Output gear**
M8 (dia. 12mm)



● **Input gear**

model number	dimension
EYFA50	□ 9.5mm
EYFA51	□12.7mm
EYFA52	□ 9.5mm
EYFA53	

● **Housing**
dimension, shape, common for all models

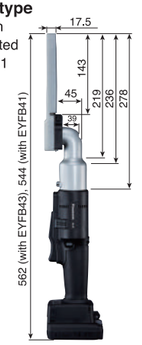


● **Mounting part**

model number	compatible tool	D	E
EYFA50	EYFLA8C	67.1	25
EYFA51	EYFLA9C	67.1	25
EYFA52	EYFLF2XC	67.3	30
EYFA53	EYFME1C	67.1	13.5

● **Pistol type**
Dimension with EYFA50 mounted
Tool: EYFLA8C

● **Right angle type**
Dimension with EYFA53 mounted
Tool: EYFMEC1



14.4V Precision Screwdriver

Light and buzzer indicates fastenings' OK/NOK (Buzzer ON/OFF can be selected)

Various Fastening Support Features

High Accuracy 10%•Cmk≧1.67* (ISO5393)

*In ≧3N•m range. Measured with the maximum RPM setting

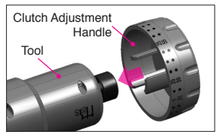
Possible to set suitable RPM by remote

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

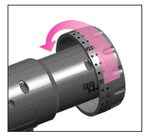
EYFGA1N/NR	150-800 rpm			2-5.5N·m							
EYFGA2N/NR	150-750 rpm						5-8N·m				
EYFGA3N/NR	150-450 rpm						5-10N·m				

Accurate and Easy 60 Stage Adjustable Clutch

Rotating the clutch adjustment handle clockwise to increase torque and counter clockwise to decrease torque

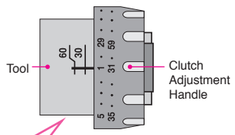


①Insert the clutch adjustment handle into the nose of the tool



②Turn and set

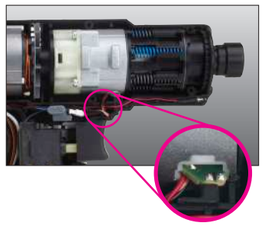
Clutch stage "1"



Quickly set the torque by adjusting the scale

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

Compact and Lightweight
A well balanced compact and light design

LED Light
For operations in dimly lit place

Tool Hanger
The tool can be hanged on the balancer

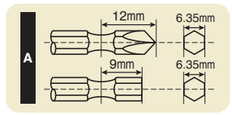
Remote Control
Tool setting can be set only by remote control.

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

Various Support Features

14.4V Screw Driver with Torque Control

Applicable bit size for quick change chuck



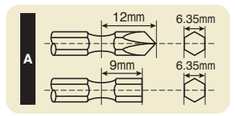
	Cordless Screwdriver		
	EYFGA1N	EYFGA2N	EYFGA3N
	14.4V Brushless Motor	14.4V Brushless Motor	14.4V Brushless Motor
			
	4.0Ah 2.0Ah	4.0Ah 2.0Ah	4.0Ah 2.0Ah
	*Battery pack is not included	*Battery pack is not included	*Battery pack is not included

Chuck size		Single-ended 9-13mm Double-ended 12-16mm		
Application		Screw M5・M6 (Normal-Tensile bolt)		
Clutch torque		Approx. 2 ~ 5.5 N·m	Approx.5 ~ 8 N·m	Approx.5 ~ 10 N·m
Clutch setting stage		1 - 60, Total 60 stages (Approx. 0.08 N·m per stage)	1 - 60, Total 60 stages (Approx. 0.08 N·m per stage)	1 - 60, Total 60 stages (Approx. 0.13 N·m per stage)
Torque accuracy		±10%・Cmk≧1.67 (*Compliant with ISO5393. Measured with the Max RPM setting)(*In ≧3N·m range)		
No load speed (unit: rpm)		0 ~ 800	0 ~ 750	0 ~ 450
Weight*1 (inc. battery)	EYFB41B	approx. 1.25kg		approx. 1.3kg
	EYFB43B	approx. 1.5kg		approx. 1.55kg
Size (LxHxW)	EYFB41B	199mm × 232mm × 54mm (Width of battery pack: 75mm)		
	EYFB43B	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) *Same Max.RPM in reverse rotation		
	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)		
	Wireless communication	—		
	LED light	√ (Possible to choose from the 2 LED light modes. by ON/OFF switch or trigger switch interlocked)		
	Buzzer	√ (Possible to choose from the 3 buzzer modes, No buzzer, buzzer with OK or buzzer with NOK)		
	Tightening confirmation lamp	√ (OK fastening: Green lamp. NOK fastening: Red lamp)		
	Retightening prevention function	√ (Fixed to 0.7 sec.)		
	Battery indication lamp	√ (3 stage)		
	Auto battery shut down	√		
Work capacity / Fastening speed	EYFB41B Hard Joint 30°	approx. 1200 pcs/pack approx. 1.1 sec./1pcs (M6: 5.5 N·m)	approx. 1050 pcs/pack approx. 1.0 sec./1pcs (M6: 8 N·m)	approx. 1100 pcs/pack approx. 1.0 sec./1pcs (M6: 10 N·m)
	EYFB41B Soft Joint 720°	approx. 540 pcs/pack approx. 1.3 sec./1pcs (M6: 5.5 N·m)	approx. 410 pcs/pack approx. 1.3 sec./1pcs (M6: 8 N·m)	approx. 310 pcs/pack approx. 1.4 sec./1pcs (M6: 10 N·m)
	EYFB43B Hard Joint 30°	approx. 2320 pcs/pack approx. 1.1 sec./1pcs (M6: 5.5 N·m)	approx. 2020 pcs/pack approx. 1.0 sec./1pcs (M6: 8 N·m)	approx. 2150 pcs/pack approx. 1.0 sec./1pcs (M6: 10 N·m)
	EYFB43B Soft Joint 720°	approx. 1070 pcs/pack approx. 1.3 sec./1pcs (M6: 5.5 N·m)	approx. 860 pcs/pack approx. 1.3 sec./1pcs (M6: 8 N·m)	approx. 620 pcs/pack approx. 1.4 sec./1pcs (M6: 10 N·m)
Charging time		(Battery Pack EYFB41, Charger EY0L82B) Usable Charge: approx. 35min. Full Charge: approx. 40min (Battery Pack EYFB43, Charger EY0L82B) Usable Charge: approx. 45min. Full Charge: approx. 60min		

✓ Available *1 Weights are described in 0.05kg increment. *There are models limited to particular region.

14.4V Screw Driver with Torque Control and Wireless Communication

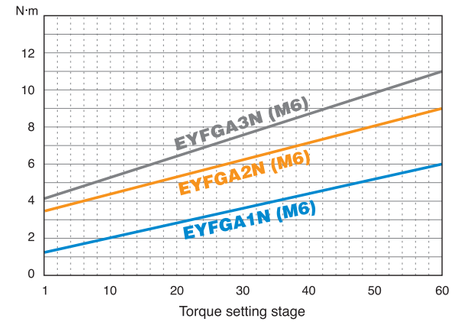
Applicable bit size for quick change chuck



	Cordless Screwdriver		
	EYFGA1NR	**EYFGA2NR**	**EYFGA3NR**
	14.4V Brushless Motor Wireless Communication	14.4V Brushless Motor Wireless Communication	14.4V Brushless Motor Wireless Communication
			
	4.0Ah 2.0Ah	4.0Ah 2.0Ah	4.0Ah 2.0Ah
	*Battery pack is not included	*Battery pack is not included	*Battery pack is not included

Chuck size			Single-ended 9-13mm Double-ended 12-16mm		
Application			Screw M5・M6 (Normal-Tensile bolt)		
Clutch torque			Approx. 2 ~ 5.5 N·m	Approx.5 ~ 8 N·m	Approx.5 ~ 10 N·m
Clutch setting stage			1 - 60, Total 60 stages (Approx. 0.08 N·m per stage)	1 - 60, Total 60 stages (Approx. 0.08 N·m per stage)	1 - 60, Total 60 stages (Approx. 0.13 N·m per stage)
Torque accuracy			±10%・Cmk≧1.67 (*Compliant with ISO5393. Measured with the Max RPM setting)(*In ≧3N·m range)		
No load speed (unit: rpm)			0 ~ 800	0 ~ 750	0 ~ 450
Weight*1 (inc. battery)	**EYFB41B**		approx. 1.25kg		approx. 1.3kg
	EYFB43B		approx. 1.5kg		approx. 1.55kg
Size (LxHxW)	**EYFB41B**		199mm × 232mm × 54mm (Width of battery pack: 75mm)		
	EYFB43B		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) *Same Max.RPM in reverse rotation		
	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)		
	Wireless communication		√ With assembly qualifier(OK Fasten=Green Light, NOK Fasten=Red Light)		
	LED light		√ (Possible to choose from the 2 LED light modes. by ON/OFF switch or trigger switch interlocked)		
	Buzzer		√ (Possible to choose from the 3 buzzer modes, No buzzer, buzzer with OK or buzzer with NOK)		
	Tightening confirmation lamp		√ (OK fastening: Green lamp. NOK fastening: Red lamp)		
	Retightening prevention function		√ (Fixed to 0.7 sec.)		
	Battery indication lamp		√ (3 stage)		
	Auto battery shut down		√		
Work capacity / Fastening speed	**EYFB41B**	**Hard Joint 30°**	approx. 1200 pcs/pack approx. 1.1 sec./1pcs (M6: 5.5 N·m)	approx. 1050 pcs/pack approx. 1.0 sec./1pcs (M6: 8 N·m)	approx. 1100 pcs/pack approx. 1.0 sec./1pcs (M6: 10 N·m)
		Soft Joint 720°	approx. 540 pcs/pack approx. 1.3 sec./1pcs (M6: 5.5 N·m)	approx. 410 pcs/pack approx. 1.3 sec./1pcs (M6: 8 N·m)	approx. 310 pcs/pack approx. 1.4 sec./1pcs (M6: 10 N·m)
	EYFB43B	**Hard Joint 30°**	approx. 2320 pcs/pack approx. 1.1 sec./1pcs (M6: 5.5 N·m)	approx. 2020 pcs/pack approx. 1.0 sec./1pcs (M6: 8 N·m)	approx. 2150 pcs/pack approx. 1.0 sec./1pcs (M6: 10 N·m)
		Soft Joint 720°	approx. 1070 pcs/pack approx. 1.3 sec./1pcs (M6: 5.5 N·m)	approx. 860 pcs/pack approx. 1.3 sec./1pcs (M6: 8 N·m)	approx. 620 pcs/pack approx. 1.4 sec./1pcs (M6: 10 N·m)
Charging time			(Battery Pack EYFB41, Charger EY0L82B) Usable Charge: approx. 35min. Full Charge: approx. 40min (Battery Pack EYFB43, Charger EY0L82B) Usable Charge: approx. 45min. Full Charge: approx. 60min		

Tightening Torque Chart (for Reference Use)



The 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.).

<Optional Accessory>

Assembly Qualifier
EYFR02B

14.4V Li-Ion Battery Pack **EYFB43B, EYFB41B**	Charger **EY0L82B**
 **EYFB43B** (4.0Ah) **EYFB41B** (2.0Ah)	
Remote Control **EYFA31B**	**Protector for Battery** **EYFA04-H (gray)** **EYFA06-H (gray)**
	 **EYFA04** (for EYFB43B) **EYFA06** (for EYFB41B)

Protector for Tool
EYFA05-A (blue), -Y (yellow)-H (gray)

Clutch Adjustment Handle **EYFA32**	Tool Hanger **EYFA40**
	

3.6V/7.2V Compact Screwdriver with Torque Control

	Cordless Screwdriver **EY7410LA2S**
	
Features	• 1/4” Hex quick change chuck • Cap for clutch lock out • LED work light • 30 min. charging system (Full charge)
Max.torque	Low: 4.4 N·m High: 1.5 N·m
Speed at no load	Low: 200 rpm High: 600 rpm
Clutch torque (approx.)	0.3 ~ 2.9 N·m (0.1 N.m per stage, total 21 stage)
Charging time	Usable: 15 minutes, Full: 30 minutes (using EY0L11B charger)
Weight (incl.battery)	0.5 kg
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 1,000 pcs
	Drilling: Holes in SPC t=1 mm, ø2 85 pcs
Standard accessory	2 X 1.5Ah Li-ion battery pack (EY9L10B) Charger (EY0L11B) Clutch lock cover

	Cordless Drill & Driver **EYFEA1N2S**
	
Chuck size	☐ 1/4” Hex Quick Change
Max.torque	High: 2.0 N·m Low: 6.0 N·m
Speed at no load	High: 0 ~ 900 rpm Low: 0 ~ 300 rpm
Clutch torque (approx.)	High: 0.3 N·m ~ 2.0 N·m (stage 1-10, 0.19 N·m per stage) Low: 0.3 N·m ~ 4.0 N·m (stage 1-21, 0.19 N·m per stage)
Charging time	Usable: 35 minutes, Full: 60 minutes (Battery pack EY9L20, charger EY0L20)
Weight (incl.battery)	630g
Size (LxHxW)	145mm x 198mm x 42mm
Max. screws driving	High mode: M4 screw Low mode: M5 screw
Working capacity	Fastening: Screws in Sheet Metal (M2.5 x 6mm) High: Approx.1900 pcs Screws in Sheet Metal (M4 x 10mm) High: Approx.1850 pcs Screws in Sheet Metal (M5 x 8mm) Low: Approx.1450 pcs
Standard accessory	2 X 1.5Ah Li-ion battery pack (EY9L20) Charger (EY0L20) Clutch & H/L switch lock cover
Function	• Auto Shut-Off Function • Auto-Power Stop Function • LED Light • Clutch & H/L switch lock cover • Electronic brake • ESD approved (as per EN 55014-1 and -2)

<Optional Accessory>

1.5Ah Li-ion Battery Pack **EY9L10B**	Charger **EY0L11B**
	

<Accessory>

1.5Ah Li-ion Battery Pack **EY9L20B**	Charger **EY0L20B**
	

Battery Pack / Battery Charger - Compatibility Chart