ASSEMBLY TOOLS
CATALOGUE



High-Performance and High Reliability

TO SUPPORT THE MANUFACTURING FIELD IN THE WORLD

CORDLESS SCREWDRIVERS
DFT Series (Pistol Type)
MODELS: DFT023F, DFT045F, DFT060F, DFT085F, DFT127F, DFT129F
Torque Range: 0.5 - 12 N.m

High Torque Accuracy
Equipped with a torque sensor, allowing for torque accuracy value ±10%, ±3σ, Cm≥1.67

Twin LED Job Light
with preglow function



Single Finger Trigger Switch



Large LED indicator
features a large LED light for added visibility



Indication Lamp and Beeper
Visually and audibly inform assembly worker of OK/ NOK judgment of each fastening process

Brushless DC Motor
- Maintenance-free due to no brush
- Energy production is more efficient than brushed motor because of no friction loss caused by brushes

Compatible with Poka-Yoke (error-proofing) system
The module can be built into the tool body

Torque change with adjustment grip
Torque value can be changed by adjust grip for quality control



Auto-Stop System
Automatically stops the tool when the preset fastening torque is reached, ensuring consistent tightening accuracy and preventing over-tightening

Auto Stop Battery Protection
Automatically stops operation when battery capacity becomes critically low, helping maintain fastening quality and protecting the battery from over-discharge

ACCESSORIES					
	Hex. Nut M28 Available Colours: RED/BLUE/YELLOW		**Protectors** Available Colours: RED/BLUE/YELLOW/ GREEN/CLEAR		**Torque Adjustment Tool** Part No. 765027-4



Programmable Speed Control
- Speed control can be programmed depending on types of joints (hard joint or soft joint) or takt time
- Speed control program you have set can be entered into the machine from Windows 7, 8 and 10 with a USB connection





New Application with added functions
1. "Time" & "Rotation angle" have been the trigger of the step transition in speed control program, and now "Torque (= current)" is added
2. "Clutch-up" has been the trigger to finish tightening, and now "Time", "Rotation angle" and "Torque (= current)" are added
3. Error conditions can be set

CORDLESS SCREWDRIVERS

DFT Series (Pistol Type)

MODELS: DFT023F, DFT045F, DFT060F, DFT085F, DFT127F, DFT129F

Torque Range: 0.5 - 12 N.m

DFT023F (14.4V)



Torque 0.5–2 N.m

14.4V LITHIUM-ION LXT BL MOTOR

Specifications

Driving Shank (Hex)	6.35 mm (1/4")
No Load Speed	400 - 1,300 min^{-1}
Fastening Torque	0.5 - 2 N.m
Max. Output Power	270W
Dimensions (LxWxH)	159x72x249 mm (with BL1460B)
Net Weight	1.3 kg (with BL1460B)

DFT045F (14.4V)



Torque 1-4 N.m

14.4V LITHIUM-ION LXT BL MOTOR

Specifications

Driving Shank (Hex)	6.35 mm (1/4")
No Load Speed	150 - 900 min^{-1}
Fastening Torque	Hard / Soft: 1 - 4 / 1 - 4 N.m
Max. Output Power	270W
Dimensions (LxWxH)	159x72x249 mm (with BL1460B)
Net Weight	1.3 kg (with BL1460B)

DFT060F (18V)



Torque 1-4 N.m

18V LITHIUM-ION LXT BL MOTOR

Specifications

Driving Shank (Hex)	6.35 mm (1/4")
No Load Speed	100 - 1,300 min^{-1}
Fastening Torque	Hard / Soft: 1.5 - 6.5 / 1.5 - 6.5 N.m
Max. Output Power	400W
Dimensions (LxWxH)	161x75x258 mm (with BL1860B)
Net Weight	1.5 kg (with BL1860B)

DFT085F (14.4V)



Torque 3-8 N.m

14.4V LITHIUM-ION LXT BL MOTOR

Specifications

Driving Shank (Hex)	6.35 mm (1/4")
No Load Speed	150 - 900 min^{-1}
Fastening Torque	Hard / Soft: 3 - 8 / 3 - 8 N·m
Max. Output Power	330W
Dimensions (LxWxH)	190x72x254 mm (with BL1460B)
Net Weight	1.5 kg (with BL1460B)

DFT127F (14.4V)



Torque 5-12 N.m

14.4V LITHIUM-ION LXT BL MOTOR

Specifications

Driving Shank (Hex)	6.35 mm (1/4")
No Load Speed	100 - 600 min^{-1}
Fastening Torque	Hard / Soft: 5 - 12 / 5 - 12 N·m
Max. Output Power	330W
Dimensions (LxWxH)	190x72x254 mm (with BL1460B)
Net Weight	1.5 kg (with BL1460B)

DFT129F (18V)



Torque 5-12 N.m

18V LITHIUM-ION LXT BL MOTOR

Specifications

Driving Shank (Hex)	6.35 mm (1/4")
No Load Speed	70 - 900 min^{-1}
Fastening Torque	Hard / Soft: 5 - 12 / 5 - 12 N·m
Max. Output Power	440W
Dimensions (LxWxH)	179x81x258 mm (with BL1860B)
Net Weight	1.6 kg (with BL1860B)

CORDLESS ANGLE SCREWDRIVERS

DFL Series (Angle Type)

MODELS: DFL204F, DFL302F, DFL303F, DFL403F, DFL651F

Torque Range: 8 - 65 N.m

High Torque Accuracy

Equipped with a torque sensor, allowing for torque accuracy value ±10%, ±3σ, Cm≥1.67

Maintenance Alarm

- A yellow LED starts blinking to indicate that the preset number of screws tightened is reached.
- Auto stop function can be additionally preset



Brushless DC Motor

- Maintenance-free due to no brush
- Energy production is more efficient than brushed motor because of no friction loss caused by brushes

Compatible with Poka-Yoke (error-proofing) system

The module can be built into the tool body

Torque change with adjustment grip

Torque value can be changed by adjust grip for quality control



Auto-Stop System

Indication lamp and beeper warn assembly worker visually and audibly of battery power reduction. If battery power reduces further, the motor automatically stops to prevent incomplete fastening

Compact and Lightweight Design

- By downsizing each part to an optimum dimensions for a low torque range model, we have reduced the weight and overall length to decrease the stress on operator's wrist and hand
- Center height and head height lowered for better handling

Compact and Lightweight Design

- By downsizing each part to an optimum dimensions for a low torque range model, we have reduced the weight and overall length to decrease the stress on operator's wrist and hand.
- Center height and head height lowered for better handling

ACCESSORIES	Protectors Body Available Colours: RED/BLUE/YELLOW/ GREEN/CLEAR	Protectors Head Available Colours: RED/BLUE/YELLOW/ GREEN/CLEAR	Torque Adjustment Tool Part No. 765027-4

Programmable Speed Control

- By installing a dedicated application on your Windows PC, details of speed control can be programmed depending on types of joints (hard joint or soft joint) or takt time
- Speed Control Program can consist of up to 6 steps
- Speed control Program you have set can be entered into the machine from your Windows PC with a USB connection
- Forward/Reverse setting is available at every one of the 6 steps





CORDLESS ANGLE SCREWDRIVERS

DFL Series (Angle Type)

MODELS: DFL204F, DFL302F, DFL303F, DFL403F, DFL651F

Torque Range: 8 - 65 N.m

DFL204F (14.4V)



Torque 8-20 N.m

14.4V LITHIUM-ION | LXT | BL MOTOR

Specifications	
Driving Shank (Hex)	9.5 mm (3/8")
No Load Speed	100 - 440 min^{-1}
Fastening Torque	Hard / Soft: 8 - 20 / 8 - 20 N.m
Max. Output Power	390W
Dimensions (LxWxH)	481x74x98 mm (with BL1430B)
Net Weight	1.9 kg (with BL1460B)



DFL302F (14.4V)



Torque 16-30 N.m

14.4V LITHIUM-ION | LXT | BL MOTOR

Specifications	
Driving Shank (Hex)	9.5 mm (3/8")
No Load Speed	70 - 230 min^{-1}
Fastening Torque	16 - 30 N·m
Max. Output Power	390W
Dimensions (LxWxH)	481x74x98 mm (with BL1430B)
Net Weight	1.9 kg (with BL1460B)

DFL303F (18V)



Torque 16-30 N.m

18V LITHIUM-ION | LXT | BL MOTOR

Specifications	
Driving Shank (Hex)	9.5 mm (3/8")
No Load Speed	50 - 420 min^{-1}
Fastening Torque	Hard / Soft: 10 - 30 / 10 - 30 N.m
Max. Output Power	420W
Dimensions (LxWxH)	472x81x116 mm (with BL1460B)
Net Weight	2.4 kg (with BL1460B)

DFL403F (14.4V)



Torque 25-40 N.m

14.4V LITHIUM-ION | LXT | BL MOTOR

Specifications	
Driving Shank (Hex)	9.5 mm (3/8")
No Load Speed	70 - 230 min^{-1}
Fastening Torque	Hard / Soft: 25 - 40 / 25 - 40 N·m
Max. Output Power	390W
Dimensions (LxWxH)	481x74x98 mm (with BL1430B)
Net Weight	1.8 kg (with BL1460B)

DFL651F (18V)



Torque 25-65 N.m

18V LITHIUM-ION | LXT | BL MOTOR

Specifications	
Driving Shank (Hex)	9.5 / 12.7 mm (3/8 / 1/2")
No Load Speed	80 - 200 min^{-1}
Fastening Torque	Hard / Soft: 25 - 65 / 25 - 65 N·m
Max. Output Power	500W
Dimensions (LxWxH)	600x75x116 mm (with BL1860B)
Net Weight	2.7 kg (with BL1860B)

CORDLESS IMPACT DRIVERS

Torque Shut-Off Type

MODELS: DTDA040, DTDA070, DTDA100, DTDA140

Minimized wobbling of anvil
Two ball bearings in the newly designed hammer case hold the anvil to drastically reduce the wobbling of the anvil

Automatic impact stop system
- Once a preset fastening time is reached after a screw has been seated, the automatic impact stop system stops the motor to prevent under- and over-tightening
- The time of impact fastening can be set using PC



Large LED indicator
features a large LED light on the rear side of Motor housing for added visibility

Twin LED Job Light
with preglow and after glow functions



Compatible with Poka-Yoke (error-proofing) system
The module can be built into the tool body

DTDA040 (14.4V)



Max. Fastening Torque **35 N.m**

14.4V LITHIUM-ION LXT BL MOTOR

Specifications

Capacity	Standard Bolt: M5-M10
	High Strength Bolt: M5-M8
No Load Speed	0 - 2,400 min^{-1}
Impacts per minute	0 - 3,700 min^{-1}
Dimensions (LxWxH)	139x74x256 mm (with BL1460B)
Net Weight	1.4 kg (with BL1460B)

DTDA070 (14.4V)



Max. Fastening Torque **65 N.m**

14.4V LITHIUM-ION LXT BL MOTOR

Specifications

Capacity	Standard Bolt: M5-M12
	High Strength Bolt: M5-M10
No Load Speed	0 - 2,500 min^{-1}
Impacts per minute	0 - 3,700 min^{-1}
Dimensions (LxWxH)	139x74x256 mm (with BL1460B)
Net Weight	1.4 kg (with BL1460B)

DTDA100 (14.4V)



Max. Fastening Torque **95 N.m**

14.4V LITHIUM-ION LXT BL MOTOR

Specifications

Capacity	Standard Bolt: M5-M12
	High Strength Bolt: M5-M10
No Load Speed	0 - 2,700 min^{-1}
Impacts per minute	0 - 3,300 min^{-1}
Dimensions (LxWxH)	146x74x256 mm (with BL1460B)
Net Weight	1.5 kg (with BL1460B)

DTDA140 (14.4V)



Max. Fastening Torque **140 N.m**

14.4V LITHIUM-ION LXT BL MOTOR

Specifications

Capacity	Standard Bolt: M6-M16
	High Strength Bolt: M6-M12
No Load Speed	0 - 2,700 min^{-1}
Impacts per minute	0 - 3,300 min^{-1}
Dimensions (LxWxH)	146x74x256 mm (with BL1460B)
Net Weight	1.5 kg (with BL1460B)

CORDLESS IMPACT WRENCHES

Torque Shut-Off Type

MODELS: DTWA100, DTWA140, DTWA190, DTWA260

Minimized wobbling of anvil
Two ball bearings in the newly designed hammer case hold the anvil to drastically reduce the wobbling of the anvil

Automatic impact stop system
- Once a preset fastening time is reached after a screw has been seated, the automatic impact stop system stops the motor to prevent under- and over-tightening
- The time of impact fastening can be set using PC



Large LED indicator
features a large LED light on the rear side of Motor housing for added visibility

Twin LED Job Light
with preglow and after glow functions



Compatible with Poka-Yoke (error-proofing) system
The module can be built into the tool body

DTWA100 (14.4V)



Square Drive 9.5 mm

Max. Fastening Torque 95 N.m

14.4V LITHIUM-ION LXT BL MOTOR

Specifications

Capacity	Standard Bolt: M5-M12
	High Strength Bolt: M5-M10
No Load Speed	0 - 2,700 min^{-1}
Impacts per minute	0 - 3,300 min^{-1}
Dimensions (LxWxH)	151x74x256 mm (with BL1460B)
Net Weight	1.5 kg (with BL1460B)

DTWA140 (14.4V)



Square Drive 12.7mm

Max. Fastening Torque 140 N.m

14.4V LITHIUM-ION LXT BL MOTOR

Specifications

Capacity	Standard Bolt: M6-M16
	High Strength Bolt: M6-M12
No Load Speed	0 - 2,700 min^{-1}
Impacts per minute	0 - 3,300 min^{-1}
Dimensions (LxWxH)	158x74x256 mm (with BL1460B)
Net Weight	1.5 kg (with BL1460B)

DTWA190 (14.4V)



Square Drive 12.7mm

Max. Fastening Torque 185 N.m

14.4V LITHIUM-ION LXT BL MOTOR

Specifications

Capacity	Standard Bolt: M8-M16
	High Strength Bolt: M8-M14
No Load Speed	0 - 2,600 min^{-1}
Impacts per minute	0 - 3,000 min^{-1}
Dimensions (LxWxH)	158x74x256 mm (with BL1460B)
Net Weight	1.6 kg (with BL1460B)

DTWA260 (18V)



Square Drive 12.7mm

Max. Fastening Torque 260 N.m

18V LITHIUM-ION LXT BL MOTOR

Specifications

Capacity	Standard Bolt: M14-M20
	High Strength Bolt: M10-M16
No Load Speed	0 - 2,800 min^{-1}
Impacts per minute	0 - 3,400 min^{-1}
Dimensions (LxWxH)	161x82x265 mm (with BL1460B)
Net Weight	1.8 kg (with BL1460B)



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ASSEMBLY TOOLS CATALOGUE - V.25.1