

Makita[®]

The Production Tool Specification Book





LITHIUM-ION

LXT

AVT

MM4

3Rs

RoHS

energy

Makita and the Environment

At every stage of a products life, Makita does its utmost to ensure its environmental impact is at a minimum. From the first stages of manufacturing through to shipping and usage, each Makita product is known to be efficient and recyclable, otherwise it wouldn't even leave the drawing board.

One of our most significant initiatives with Makita products has been the push towards safer, longer life and more environmentally friendly batteries. This ongoing task started many years ago with the push away from an over reliance on Nickel Cadmium (NiCad) as a power source for our cordless tools.

Recycling

Makita also has a successful recycling programme in place to take your dead batteries off your hands and give them a new lease of life, either as a brand new battery or any number of recycled plastic and metal parts. Whichever way, our batteries are unlikely to end up in a landfill.

Manufacturing

Makita's manufacturing process has also taken steps to reduce its impact on the environment, with efforts to ban harmful chemicals from its manufacturing plants across the world. As of 2010, Makita are fully compliant with both Reduction of Hazardous Substances (RoHS) and Waste Electrical and Electronic Equipment (WEEE) initiatives.

Lithium-ion batteries

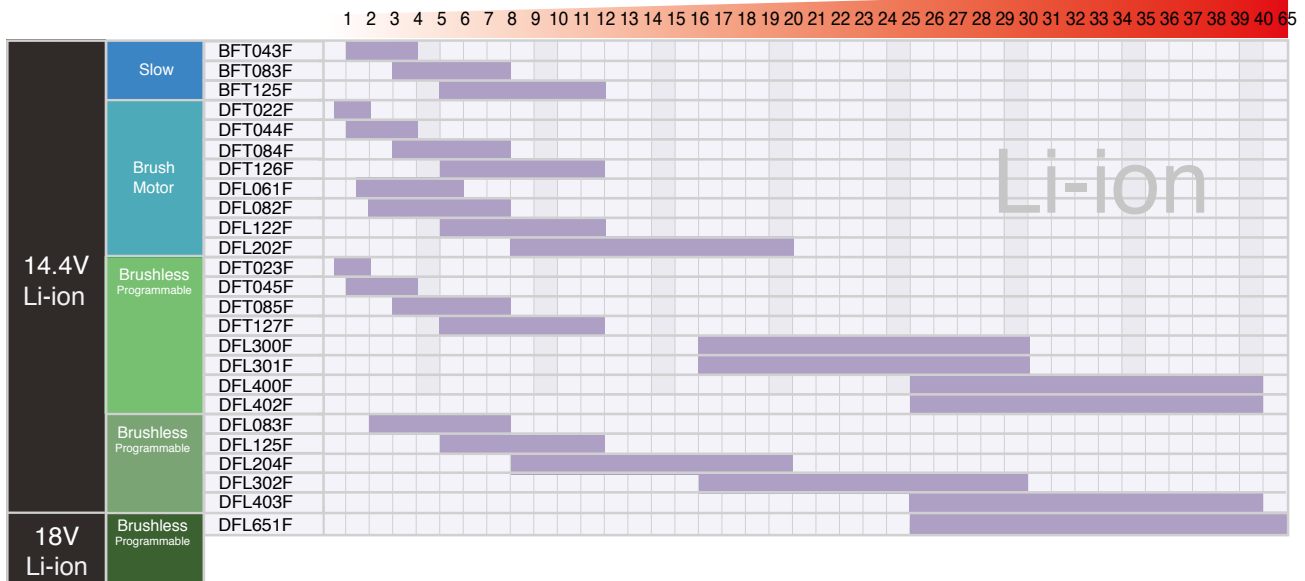
In 1998 Makita were the first to offer improved Nickel Metal Hydride (NiMH) batteries, the same sort that power your TV Remote at home, that removed the need to use the toxic Cadmium found in previous types of battery.

Today, Makita continue to push forward and have, in the past few years, introduced Lithium-ion to power its range of tools. These long life batteries last longer on much shorter charge times, meaning our customers are contributing less CO2 emissions than before, simply by using Makita products within their homes and workplace.



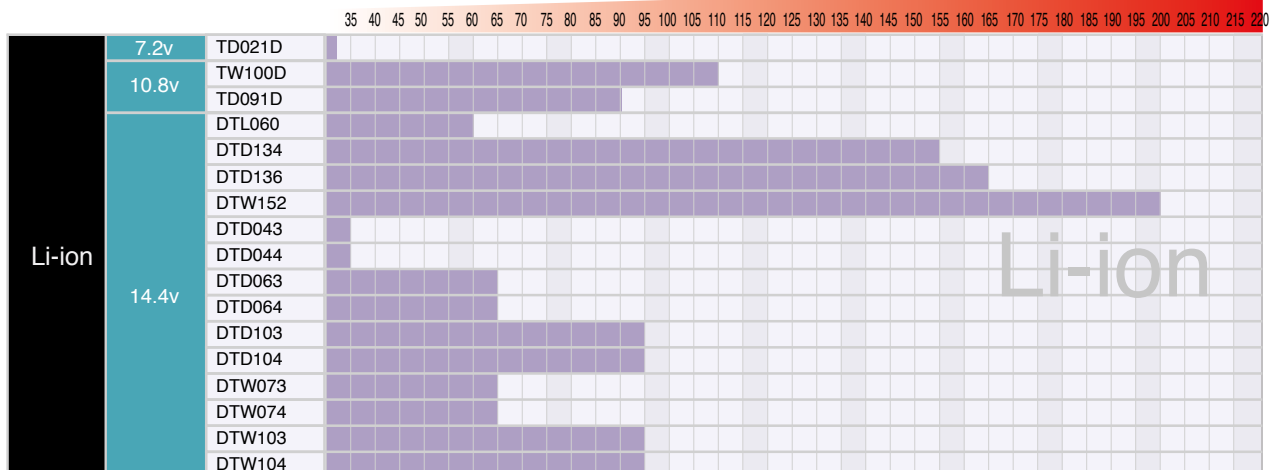
Angle Screwdrivers, Pistol Screwdrivers

torque (N.m)



Impact Driver, Impact Wrench

torque (N.m)





PRODUCTION TOOLS

Cordless tools for industry

The Makita cordless tool range for industry is a blend of tried and trusted products, together with some valuable innovations, carefully selected for the demanding needs of professional users.

With pin-point accuracy these tools are ideal for production lines, aircraft construction, motor manufacture and small assembly lines where flexibility is needed and cables or pneumatic hoses are not.

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All machines in this catalogue conform to CE Marking Regulations.

It is recommended that safety equipment such as eye and ear protection is used when operating powertools. Makita reserve the right to change specifications at any time owing to their policy of constant improvement. Accessories shown not necessarily supplied. Subject to availability. E&OE.

Availability of the products and accessories in this catalogue may vary by country or area.

Drive spindle

- 3/8" drive with spring pin retainer
- 3/8" drive with ball retainer
- Optional 1/4" square or hex (only available for models upto 20Nm)

360° head - DFL302/403FZ

- Head can be swiveled and fixed within a 360° radius.

Job light

- Good illumination for dark work areas

Torque control

- Tamper proof, prevents adjustment without the correct adjustment tool
- Indicator scale

Single sleeve chuck

- Rubberised to protect work piece
- Spindle direction by time or rotation

Angle head attachment

- 3 different spindle types available
- Free turning sleeve

Heavy duty motor

- Brushless, powerful, compact and light
- Solderless terminal connections
- CPU with overheat and current protection
- Replaceable armature
- Externally replaceable carbon brushes or brushless motor

Tube nut application

- Optional slow reverse control unit

Battery

- Different battery technologies are available
- Varying voltages and amp hours are available

Trigger

- Designed to enable low actuating on holding force
- Soft start
- Delayed restart
- Forward and reverse switch
- Optional paddle switch for angle tools only



The micro switch sends a signal to the control unit which stops the motor dead and nullifies the connection of battery to motor, ensuring high accuracy of the clutch, reduces kick back and operator fatigue.

Identification plate.

Rigid aluminum alloy head.



Identification plate

- Unique ID number
- Torque range
- Different colour depending on torque range

Indication lamp and beeper

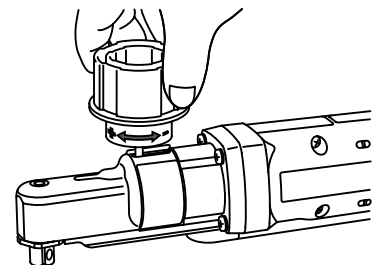
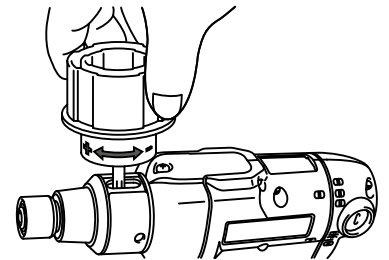
- Fastening torque reached: Green
- Fastening torque not reached: Red and beeping
- Battery warning: Red and beeping

Anti slip handle

- Ergonomically designed for maximum user comfort and low fatigue

Machine screws/nuts are used to assemble housing together for high reparability.

Tamper proof torque setting can only be changed with the adjustment tool. Part No. 765027-4



Angle head set.

Part No. 194038-6

Spindle A - 9.5mm square (3/8") - 154725-9

Spindle B - 6.35mm E-form - 154726-7

Spindle C - 6.35mm C-form - 154727-5

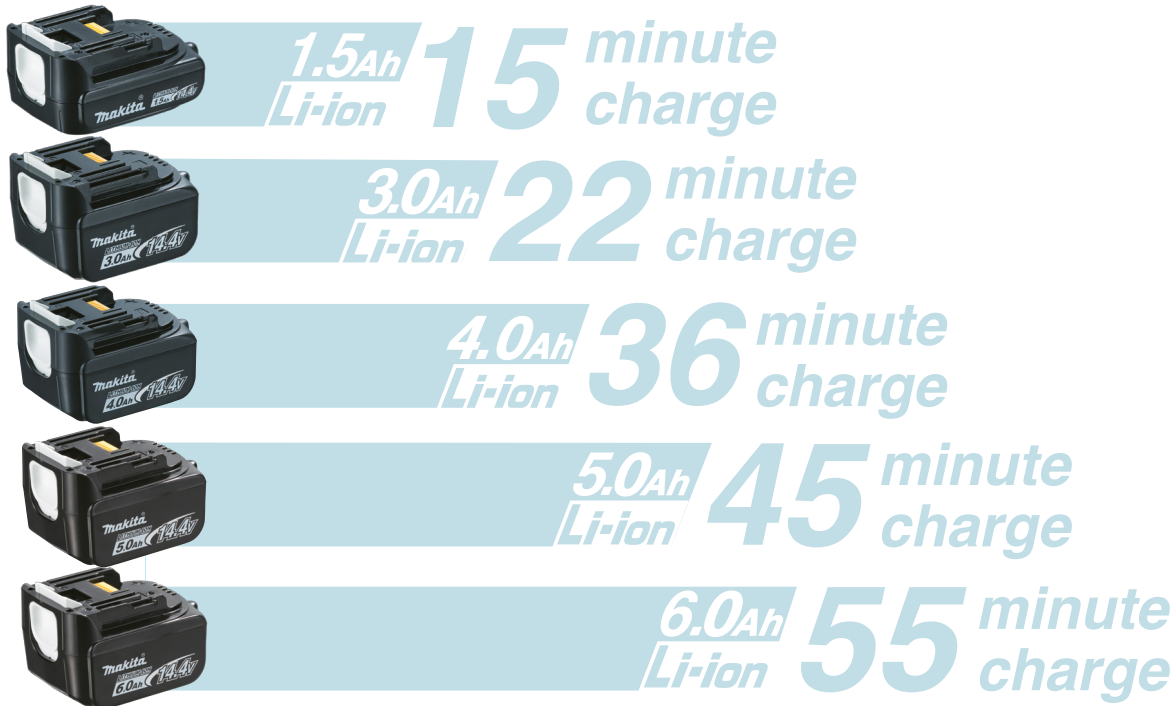
The angle head is designed to adjust the screwdriver head in 90° increments. DFT/DFL 082 - 202 machines up to 20NM.



Battery Charge Times

Unbeatable Charge Times on All Makita 14.4 V Li-ion Batteries

A great advantage of Lithium Ion technology is that it provides the user with the possibility to charge the batteries anytime, without any need to wait for their complete power deployment. A great improvement compared to older technologies like Ni-Cd.



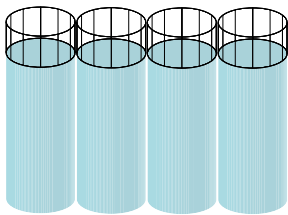
Well Balanced Charging

MAKITA: Capacity Balanced Battery Pack

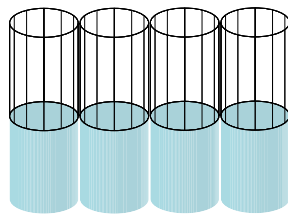
1. It is designed that an individual cell whose condition is full, discharge, empty works well. It is hard to become the over-discharge and an overcharge because the individual cell capacity prevent to anomalies.
2. It is possible to use it efficiency because the capacity of each cell is not uneven and discharge evenly.

Competitor A : Capacity Unbalanced Battery Pack

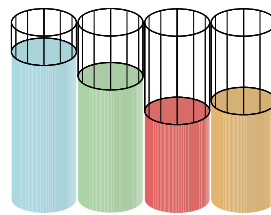
1. Competitor charging system causes to decrease the capacity of the cell, which weakened by the heavy load work because Competitors do not install an optimum charge.
 2. Discharge stops by using the capacity of the weakened cell completely, when you use the power tool in the condition, noted as above.
- Therefore the capacities of other cells are not used completely, so that workloads are decreased at a charge.



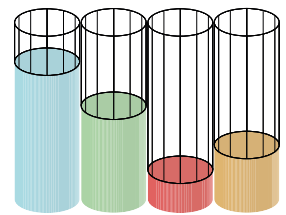
1.Charging



2.Discharging



1.Charging



2.Discharging



Anytime Charge

No Memory Effect
No discharging required



Shock Absorbing

Heavy Duty Pack



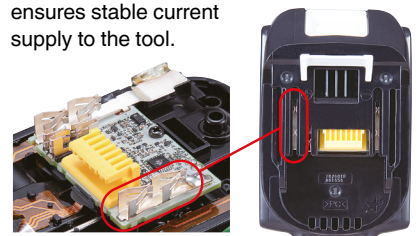
Long time Storage

Low Self Discharge



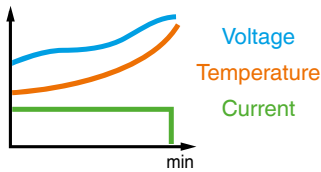
Firm Holding

Multi-contact terminals reduce electrical resistance and increase connection stability withstanding against vibration, and ultimately ensures stable current supply to the tool.

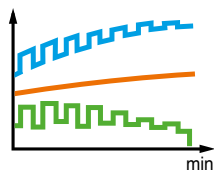


LXT LITHIUM-ION

Traditional Charging Method



Optimum Charging

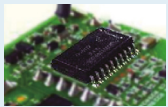


The charger communicates with the individual cell in battery and controls current, voltage, and temperature. Both rapid and optimum charge are achieved, making for a longer battery life.



Built-in Memory Chip

The built-in memory chip in battery records the battery usage history and transmits it to the charger.



Digital Communication

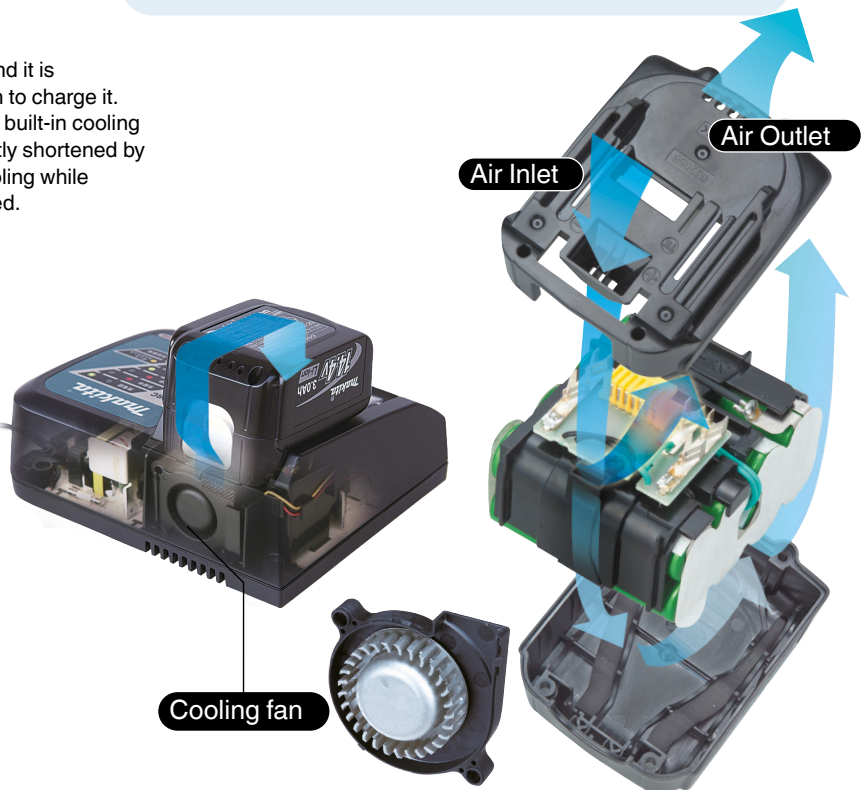


Built-in CPU

The CPU built in the charger analyzes its condition; high temperature, re-charge after full charged, over-discharging. The battery lasts long life because it can be charged at the best method and time.



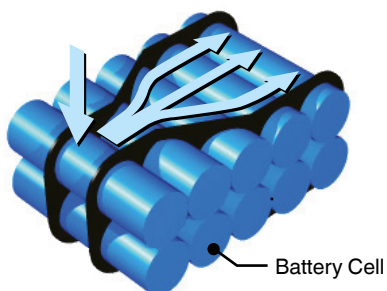
After use, batteries can reach a high temperature, and it is necessary to cool the battery down before you begin to charge it. Makita developed the original charger system with a built-in cooling fan. The stand-by time until the charge starts is greatly shortened by cooling efficiently. In addition, the charger keeps cooling while charging the battery, and the rapid charge is achieved.



Well Balanced Cooling

The battery is designed so air flows efficiently over all of the battery so it can cool all cells evenly and rapidly.

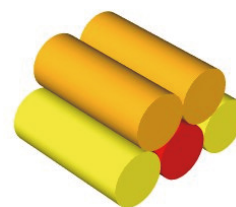
MAKITA's Optimum Air flow



Competitor A
Unbalanced Cooling
Out of air flow



Competitor B
Without Cooling
Enclosed



High
Low
Temperature

SMALLER. LIGHTER. SMARTER.

REAL WORLD ACCURACY - $CmK > 1.67 (+/-10\%)$

AS CERTIFIED BY MAJOR AEROSPACE & AUTOMOTIVE MANUFACTURERS

ADVANCED ERGONOMICS

ONLY 152mm
IN LENGTH

ONLY 1.1kg
WITH BATTERY

These machines
comply with the
German
Homologation
standards
VDI/VDE2647
approval of
screwdriving
tools.



DFT023F

DFT045F

No Load Speed (RPM):

400-1,300/min

150-900/min

Torque Range:

0.5Nm-2.0Nm

1.0Nm-4.0Nm

Weight: 1.1 kg with battery

14.4 V Lithium-Ion Cordless

6.35mm Hex Screwdriver, Tool only



DFT085F

DFT127F

No Load Speed (RPM):

150-900/min

100-600/min

Torque Range:

3.0Nm-8.0Nm

5.0Nm-12.0Nm

Weight: 1.2 kg with battery

14.4 V Lithium-Ion Cordless

6.35mm Hex Screwdriver, Tool only



COMPATIBLE WITH THESE BATTERIES:

BL1415N BL1430B BL1440B BL1450B BL1460B



DC18RC

18V LXT Lithium-ion
Rapid Optimum Charger



6-STAGE PROGRAMMABLE PRECISION FASTENING

- Spindle Direction by Time or Angle
- Speed Management by Time or Angle
- Finishing Strategy

TORQUE ACCURACY



provides $Cm > 1.67$ (within +/- 10% tolerance range)

RPM PROGRAMMABLE



via USB, for multi-stage rundowns

LARGE PASS/FAIL LAMP



indicates Pass (green) or Fail (red) and audibly alerts operator of failed fastenings

BUILT-IN L.E.D. LIGHT



illuminates work surface for better visibility in low light environments

Software Programme Specifications

Makita Industry Tool Settings

Language(L) Version(A)

Product Information

Model No.: DFT045F/FT045FD
 ID: 17BCH1J092
 NOTE1: Productionline1
 NOTE2: StationA

Write NOTE in Tool

Common Settings

Lighting: ☒ Bright ☐ Dim ☐ OFF
 Buzzer: ☒ ON ☐ OFF
 Brake: ☒ ON ☐ OFF
 Slowstart: ☒ Normal ☐ Slow1 ☐ Slow2
 Enable Rotation: ☒ Fwd & Rev ☐ Fwd ☐ Rev
 OK/NOK Indication: ☒ Fwd ☐ Rev
 Phase Condition: ☒ Angle ☐ Time

Gear Ratio
 Initialize
 20.8

Restart Delay
 1.0 [s]

Double Hit
☐ ON ☒ OFF
 0.0 [s]

22/01/2018 08:47:47 Communication...
 22/01/2018 08:47:49 Success!
 22/01/2018 08:47:54 Communication...
 22/01/2018 08:47:56 Success!

F/R lever: Forward position

Initialize

1st. phase: ☐ ON(CW) ☒ ON(CCW) ☐ OFF
 150 [min⁻¹] 360 [°]

2nd. phase: ☒ ON(CW) ☐ ON(CCW) ☐ OFF
 150 [min⁻¹] 720 [°]

3rd. phase: ☒ ON(CW) ☐ ON(CCW) ☐ OFF
 900 [min⁻¹] 540 [°]

4th. phase: ☐ ON(CW) ☒ ON(CCW) ☐ OFF
 150 [min⁻¹] 720 [°]

5th. phase: ☐ ON(CW) ☐ ON(CCW) ☒ OFF
 900 [min⁻¹] 0 [°]

Tight phase: ☒ ON(CW) ☐ ON(CCW) ☐ OFF
 150 [min⁻¹]

After clutch phase: ☐ ON(CW) ☒ ON(CCW) ☐ OFF
 500 [min⁻¹] 3600 [°]

F/R lever: Reverse position

Initialize

1st. phase: ☐ ON(CCW) ☐ ON(CW) ☒ OFF
 900 [min⁻¹] 0 [°]

2nd. phase: ☐ ON(CCW) ☐ ON(CW) ☒ OFF
 900 [min⁻¹] 0 [°]

3rd. phase: ☐ ON(CCW) ☐ ON(CW) ☒ OFF
 900 [min⁻¹] 0 [°]

4th. phase: ☐ ON(CCW) ☐ ON(CW) ☒ OFF
 900 [min⁻¹] 0 [°]

5th. phase: ☐ ON(CCW) ☐ ON(CW) ☒ OFF
 900 [min⁻¹] 0 [°]

Tight phase: ☒ ON(CCW) ☐ ON(CW) ☐ OFF
 900 [min⁻¹]

After clutch phase: ☐ ON(CCW) ☐ ON(CW) ☒ OFF
 900 [min⁻¹] 0 [°]

Maintenance information

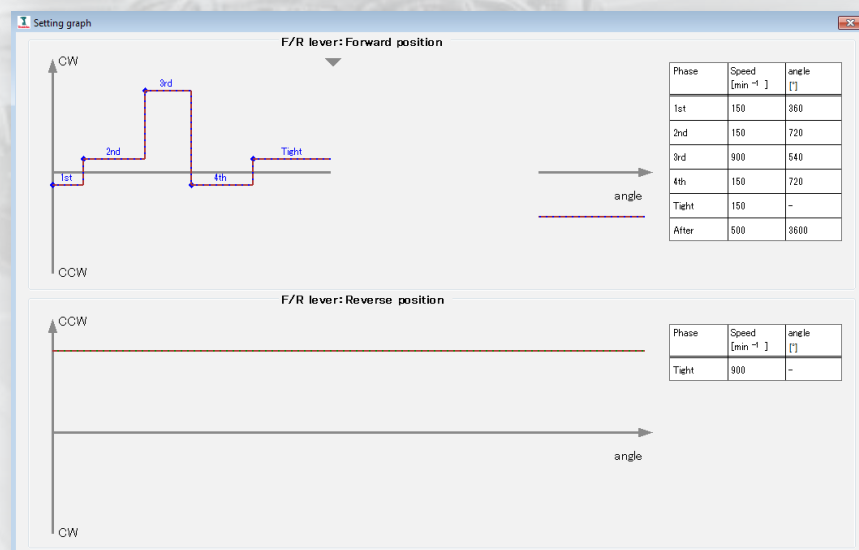
Retrieve data from the Tool

View stored data in the PC

Show setting

Save settings in PC

Write settings in Tool



Tool ID, Tool Settings,
5 stage run down
programme.

Line drawing illustrating
direction of rotation,
each stage programme,
speed and distance.

Maintenance information

Information

Total Trigger count: 3575
 Total Clutch count: 2075
 Trip Trigger count: 0
 Trip Clutch count: 0
 Last maintenance date: 2018/1/22

Trip count clear

Maintenance alarm stop setting

Select: ☐ OFF ☐ Alarm ☒ Alarm&Stop
☐ Trigger count ☒ Clutch count

Alarm Count setting: 1000
 Stop Count setting: 1100

Write alarm setting in Tool

Stored data

Path: Corporation\Makita Industry Tool Settings\data

Select

Search Word:

Search

Model No.	File Name
DFL651F/FL651FD	cas261016 20161026082050
DFT085F/FT085FD	cas261016 20170907132532
DFL651F/FL651FD	cat test2 20161013101245
DFL651F/FL651FD	cat test 20161013094430
DFT127F/FT127FD	dft127test15517 20170515141220
DFT127F/FT127FD	dft127test15517 20171123114443
DFT045F/FT045FD	door 1 20170915132014
DFL651F/FL651FD	test12-10-16 20161012172823

Delete

OK

View, save and retrieve data in PC.

Trigger and clutch count,
maintenance programme.

Pistol Screwdrivers: Torque Shut-Off Programmable

Screwdrivers

DFT023F
DFT045F
DFT085F
DFT127F

These four cordless screwdrivers used for fastening work in the assembly line are developed as advanced models of 9.6V Ni-MH battery tools and the BFT020F series. In addition to the same high fastening torque accuracy as the current series models, these products feature a powerful and efficient power source of 14.4V Li-ion battery.

- 1/4" hex drive
- High torque accuracy
- Heavy duty motor
- Rare earth magnet
- High accuracy clutch (ISO5393)
- Auto-stop fastening function
- Voltage control level shut-off (VCL)
- Fully moulded control circuit
- Light/buzzer indicator for fastening and low battery power
- Self-testing electronic system
- Impossible to adjust the torque without the adjustment tool
- speed control



DFT023F / DF045F 14.4V Mini series

Brushless

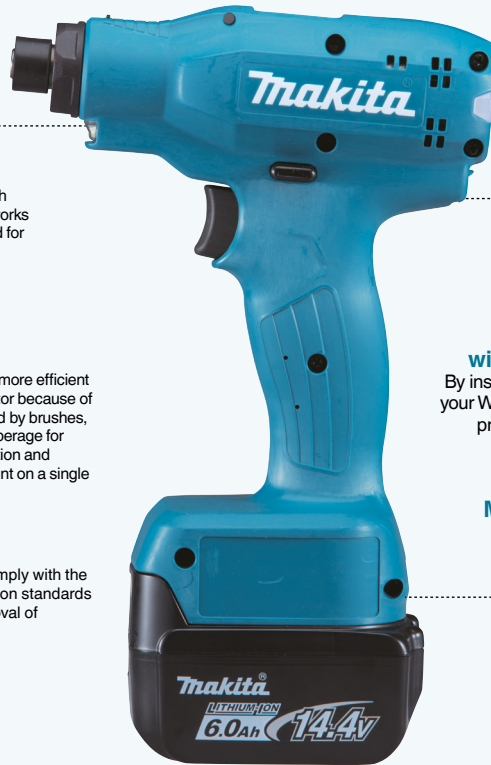
2x LED Job Light with Afterglow Function works when trigger is pulled for low light conditions.

Energy production is more efficient than brushed DC motor because of no friction loss caused by brushes, enabling to lower amperage for reduced heat production and increased work amount on a single full battery charge.

These machines comply with the German Homologation standards VDI/VDE2647 approval of screwdriving tools.

BL
MOTOR

LITHIUM-ION



Large LED Display
Indicate fastening sufficiency and battery power conditions.

USB Speed control with variable adjustment

By installing a dedicated application on your Windows PC, speed control can be programmed into the machine.

Maintenance Alarm

Batteries



BL1460B
(197709-4)



BL1450B
(197122-6)



BL1440B
(196386-9)



BL1430B
(197615-3)



BL1415N
(638586-0)

See page 31 for more info

DFT085F / DFT127F 14.4V

Brushless

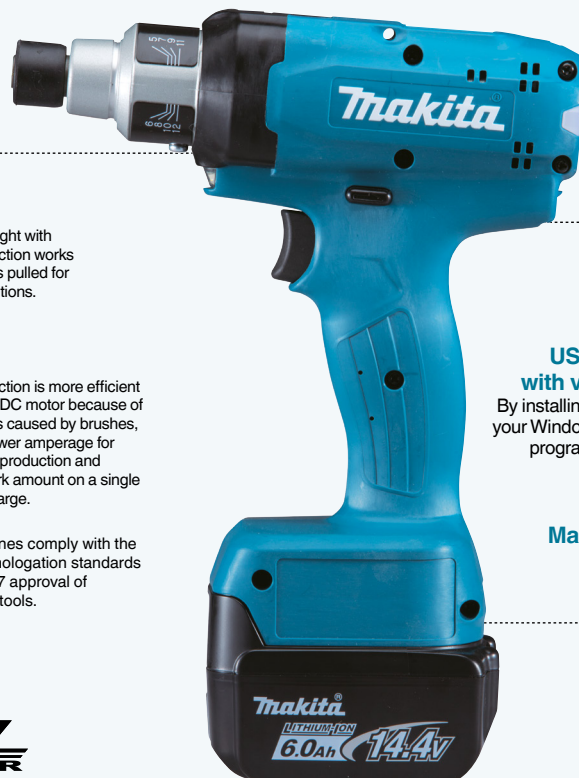
2x LED Job Light with Afterglow Function works when trigger is pulled for low light conditions.

Energy production is more efficient than brushed DC motor because of no friction loss caused by brushes, enabling to lower amperage for reduced heat production and increased work amount on a single full battery charge.

These machines comply with the German Homologation standards VDI/VDE2647 approval of screwdriving tools.

BL
MOTOR

LITHIUM-ION



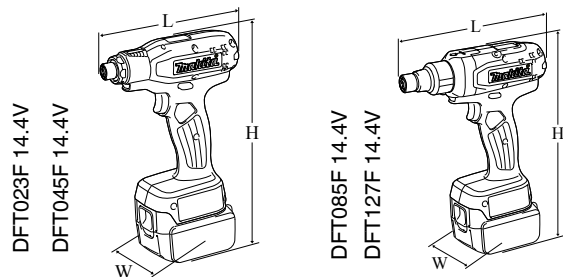
Large LED Display
Indicate fastening sufficiency and battery power conditions.

**USB Speed control
with variable adjustment**
By installing a dedicated application on your Windows PC, speed control can be programmed into the machine.

Maintenance Alarm

Pistol Screwdrivers: Torque Shut-Off Specifications

	Mini							
	Brushless Programmable							
	DFT023F	DFT045F	DFT085F	DFT127F				
No Load Speed	400 - 1,300 rpm	150 - 900 rpm	150 - 900 rpm	100 - 600 rpm				
Torque Shut-off	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch				
Torque Range								
(Hard Joint)	0.5-2.0 N.m	1.0-4.0 N.m	3.0-8.0 N.m	5.0-12.0 N.m				
(Soft Joint)	0.5-2.0 N.m	1.0-4.0 N.m	3.0-8.0 N.m	5.0-12.0 N.m				
Voltage	14.4 V	14.4 V	14.4 V	14.4 V				
Cell	Li-Ion	Li-Ion	Li-Ion	Li-Ion				
Drive	Hex 1/4"	Hex 1/4"	Hex 1/4"	Hex 1/4"				
Noise Levels	70 bB(A)	70 bB(A)	70 bB(A)	70 bB(A)				
Vibration	2.5 m/s²	2.5 m/s²	2.5 m/s²	2.5 m/s²				
Weight	1.1 kg	1.3 kg	1.5 kg	1.5 kg				
Brushless	✓	✓	✓	✓				
LED Job Light	✓	✓	✓	✓				
Power Warning Lamp	✓	✓	✓	✓				
Beeper	✓	✓	✓	✓				
Soft Start	✓	✓	✓	✓				
Fastening Light	✓	✓	✓	✓				
Anti-tamper	✓	✓	✓	✓				
VCL- (Voltage Central Level Shut-off)	✓	✓	✓	✓				
Dimensions								
Length	160 mm	160 mm	191 mm	191 mm				
Width	75 mm	75 mm	74 mm	74 mm				
Height	232 mm	232 mm	237 mm	237 mm				
Centre Height	25 mm	25 mm	28 mm	28 mm				



Accessories for DFT023FMZ, DTF045FMZ, DFT085FMZ, DFT127FMZ

Part number: 424987-6 Tool model number: DFT023/045F Tool TYPE: Screwdriver Colour: Yellow		Part number: 424986-8 Tool model number: DFT023/045F Tool TYPE: Screwdriver Colour: Blue		Part number: 424985-0 Tool model number: DFT023/045F Tool TYPE: Screwdriver Colour: Red		Part number: 424984-2 Tool model number: DFT023/045F Tool TYPE: Screwdriver Colour: Clear	
Part number: 424966-4 Tool model number: DFT085/127F Anti kick back head range Tool TYPE: Screwdriver Colour: Yellow		Part number: 424967-2 Tool model number: DFT085/127F Anti kick back head range Tool TYPE: Screwdriver Colour: Blue		Part number: 424968-0 Tool model number: DFT085/127F Anti kick back head range Tool TYPE: Screwdriver Colour: Red		Part number: 424969-8 Tool model number: DFT085/127F Anti kick back head range Tool TYPE: Screwdriver Colour: Clear	
Part number: 424966-4 Tool model number: DFT085/127F Anti kick back head range Tool TYPE: Screwdriver Colour: Yellow		Part number: 424967-2 Tool model number: DFT085/127F Anti kick back head range Tool TYPE: Screwdriver Colour: Blue		Part number: 424968-0 Tool model number: DFT085/127F Anti kick back head range Tool TYPE: Screwdriver Colour: Red		Part number: 424969-8 Tool model number: DFT085/127F Anti kick back head range Tool TYPE: Screwdriver Colour: Clear	
Part number: 422378-5 Tool model number: DFT023/045F Tool TYPE: Screwdriver Colour: Green		Part number: 422379-3 Tool model number: DFT085/127F Tool TYPE: Screwdriver Colour: Green					

Pistol Screwdrivers: Torque Shut-Off

Screwdrivers Low Speed

DFT022F	DFT043F
DFT044F	DFT083F
DFT084F	DFT125F
DFT126F	

Screwdrivers

Cordless screwdrivers for fastening works in assembling line. High fastening torque accuracy with a powerful and efficient power source of 14.4V Li-ion battery. Torque range 0.5Nm - 2Nm.

Low Speed

These three cordless screwdrivers for fastening work in the assembly line have been developed as sister models of BFT040F series. In addition to the same tool durability and high fastening torque accuracy as the current series models, these products feature low rotational speed for soft joint applications such as fastening rubber parts, gaskets, hoses and more.

- 1/4" hex drive
- High torque accuracy
- Heavy duty motor
- Rare earth magnet
- High accuracy clutch (ISO5393)
- Auto-stop fastening function
- Voltage control level shut-off (VCL)
- Fully moulded control circuit
- Light/buzzer indicator for fastening and low battery power
- Self-testing electronic system
- Impossible to adjust the torque without the adjustment tool



Batteries



BL1460B 632G42-4
(197709-4) (Bulk purchase)



BL1430B 632G20-4
(197615-3) (Bulk purchase)



BL1450B
(197122-6)



BL1415N
(196877-0)



BL1440B BL1415
(196386-9) (638586-0)

See page 31 for more info

DFT022F / DFT044F DFT084F / DF0126F 14.4V Screwdriver



LITHIUM-ION

DFT043F / DFT083 / DFT125F 14.4V Low Speed



Color Coded Identification Plate for easy tool and application identification.

LED Job Light with Afterglow Function works when trigger is pulled for low light conditions.

Two-Piece D28 Motor with replaceable armature and powerful rare earth magnet.

LITHIUM-ION

Pistol Screwdrivers: Torque Shut-Off Specifications

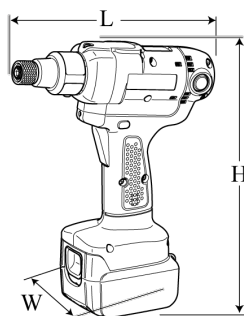
	14.4v Screwdriver				Low Speed			
	DFT022F	DFT044F	DFT084F	DFT126F	DFT043F	DFT083F	DFT125F	
No Load Speed	700 rpm	950 rpm	780 rpm	410 rpm	80 rpm	80 rpm	150 rpm	
Torque Shut-off	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	
Torque Range								
(Hard Joint)	0.5-2.0 N.m	1.0-4.0 N.m	3.0-8.0 N.m	5.0-12.0 N.m	1.0-4.0 N.m	3.0-8.0 N.m	5.0-12.0 N.m	
(Soft Joint)	0.5-2.0 N.m	1.0-4.0 N.m	3.0-8.0 N.m	5.0-12.0 N.m	1.0-4.0 N.m	3.0-8.0 N.m	5.0-12.0 N.m	
Voltage	14.4 V	14.4 V	14.4 V	14.4 V	14.4 V	14.4 V	14.4 V	
Cell	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	
Max Output					170 W	130 W	180 W	
Drive	Hex 1/4"	Hex 1/4"	Hex 1/4"	Hex 1/4"	Hex 1/4"	Hex 1/4"	Hex 1/4"	
Low Speed					✓	✓	✓	
Noise Levels	70 bB(A)	70 bB(A)	70 bB(A)	70 bB(A)	70 bB(A)	70 bB(A)	70 bB(A)	
Vibration	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	
Weight	1.5 kg	1.5 kg	1.5 kg	1.5 kg	1.5 kg	1.5 kg	1.5 kg	
Carbon Brush	193466-2	193466-2	193466-2	193466-2	193466-2	193466-2	193466-2	
Brushless	✗	✗	✗	✗	✗	✗	✗	
LED Job Light	✓	✓	✓	✓	✓	✓	✓	
Power Warning Lamp	✓	✓	✓	✓	✓	✓	✓	
Beeper	✓	✓	✓	✓	✓	✓	✓	
Soft Start	✓	✓	✓	✓	✓	✓	✓	
Fastening Light	✓	✓	✓	✓	✓	✓	✓	
Anti-tamper	✓	✓	✓	✓	✓	✓	✓	
VCL- (Voltage Central Level Shut-off)	✓	✓	✓	✓	✓	✓	✓	
Dimensions								
Length	200 mm	200 mm	200 mm	200 mm	200 mm	200 mm	200 mm	
Width	74 mm	74 mm	74 mm	74 mm	72 mm	72 mm	72 mm	
Height	235 mm	235 mm	235 mm	235 mm	255 mm	255 mm	255 mm	
Centre Height	28 mm	28 mm	28 mm	28 mm	28 mm	28 mm	28 mm	

DFT022F 14.4V

DFT044F 14.4V

DFT084F 14.4V

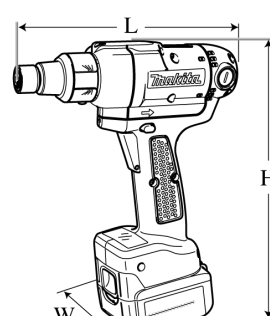
DFT126F 14.4V



DFT043F 14.4V

DFT083F 14.4V

DFT125F 14.4V



Angle Screwdrivers: Torque Shut-Off up to 65Nm Programmable

Angle Screwdrivers

DFL651F	DFL204F
DFL083F	DFL302F
DFL125F	DFL403F

Specially developed for fastening works on assembly lines with features that eliminate issues with critical fastening. Ergonomically sculpted for ultimate usability and low operator fatigue and are easily maintained due to fully modular construction and solder-less wiring connections.

In addition to the same high fastening torque accuracy as the current series models, these products feature a powerful and efficient power source of 18V Li-ion battery and BLDC motor (Brushless DC motor).

- 3/8" Square drive
- High torque accuracy
- Heavy duty motor
- Rare earth magnet
- High accuracy clutch (ISO5393)
- Auto-stop fastening function
- Voltage control level shut-off (VCL)
- Fully moulded control circuit
- Light/buzzer indicator for fastening and low battery power
- Self-testing electronic system
- Impossible to adjust the torque without the adjustment tool

Batteries



BL1460B
(197709-4)



BL1860B
(197422-4)



BL1450B
(197122-6)



BL1850B
(197282-4)



BL1440B
(196386-9)



BL1840B
(197265-4)



BL1430B
(197615-3)



BL1830B
(197599-5)



BL1415N
(638586-0)



BL1820B
(197256-5)

See page 31 for more info

DFL651F 18 V

Features and benefits of the DFL651F apply to all the DFL models on this page.



BL
MOTOR

LITHIUM-ION

Homologation

These machines comply with the German Homologation standards VDI/VDE2647 approval of screwdriving tools.

Auto stop
with low remaining battery capacity

Built in L.E.D job light
with afterglow function.

DC Brushless motor
provides higher no loaded speed for powerful and quick screwdriving.

Maintenance Alarm

This function shows the maintenance time has come according to your preset number of screws driven.
LED indicator: blinking yellow

USB Speed control with variable adjustment

By installing a dedicated application on your Windows PC, speed control can be programmed into the machine.



DFL083/125/204F



DFL302F



DFL403F

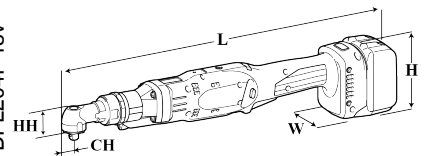
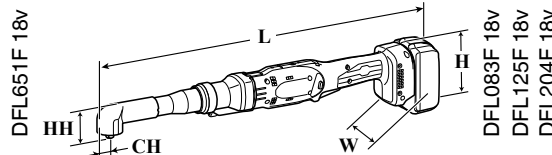
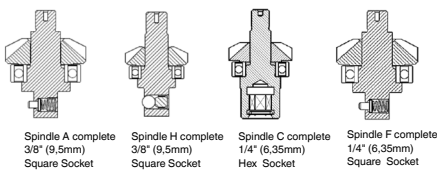


Models and specification may change from country to country.

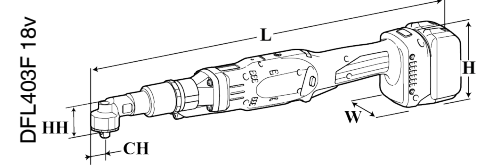
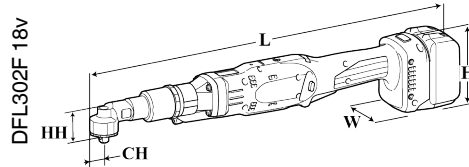
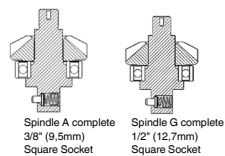
Angle Screwdrivers: Torque Shut-Off Specifications

	Brushless Programmable							
	DFL083F	DFL125F	DFL204F	DFL302F	DFL403F	DFL651F		
No Load Speed	150-700 rpm	100-700 rpm	100-440 rpm	70-230 rpm	50-200 rpm	80-200 rpm		
Torque Shut-off	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch		
Torque Range								
(Hard Joint)	2-8 N.m	5-12 N.m	8-20 N.m	16-30 N.m	25-40 N.m	25-65 N.m		
(Soft Joint)	2-8 N.m	5-12 N.m	8-20 N.m	16-30 N.m	25-40 N.m	25-65 N.m		
Voltage	14.4 V	14.4 V	14.4 V	14.4 V	14.4 V	18 V		
Cell	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion		
Drive	3/8" Square	3/8" Square	3/8" Square	3/8" Square	3/8" Square	3/8" Square		
Noise Levels	70 bB(A)	70 bB(A)	70 bB(A)	70 bB(A)	70 bB(A)	72 dB(A)		
Vibration	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²		
Weight	2.0 kg	2.0 kg	2.0 kg	2.1 kg	2.3 kg	2.7 kg		
Brushless	✓	✓	✓	✓	✓	✓		
LED Job Light	✓	✓	✓	✓	✓	✓		
Power Warning Lamp	✓	✓	✓	✓	✓	✓		
Beeper	✓	✓	✓	✓	✓	✓		
Soft Start	✓	✓	✓	✓	✓	✓		
Fastening Light	✓	✓	✓	✓	✓	✓		
Anti-tamper	✓	✓	✓	✓	✓	✓		
VCL- (Voltage Central Level Shut-off)	✓	✓	✓	✓	✓	✓		
Dimensions								
Length	480 mm	480 mm	480 mm	503 mm	517 mm	600 mm		
Width	74 mm	74 mm	74 mm	74 mm	74 mm	75 mm		
Height	98 mm	98 mm	98 mm	98 mm	98 mm	116 mm		
Centre Height	16 mm	16 mm	16 mm	18 mm	18.5 mm	18.5 mm		
Head Height	31.5mm	31.5mm	31.5mm	34mm	35mm	35mm		

DFL083/125/204F

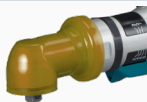


DFL302/403F



Accessories

Part number: 422281-0
Tool model number: DFL083/125/204F
Tool TYPE: Angle Screwdriver
Colour: Yellow



Part number: 422280-2
Tool model number: DFL083/125/204F
Tool TYPE: Angle Screwdriver
Colour: Blue



Part number: 422279-7
Tool model number: DFL083/125/204F
Tool TYPE: Angle Screwdriver
Colour: Red



Part number: 422282-2
Tool model number: DFL083/125/204F
Tool TYPE: Angle Screwdriver
Colour: Clear



Part number: 422286-0
Tool model number: DFL302/403F
Tool TYPE: Angle Screwdriver
Colour: Yellow



Part number: 422285-2
Tool model number: DFL302/403F
Tool TYPE: Angle Screwdriver
Colour: Blue



Part number: 422284-4
Tool model number: DFL302/403F
Tool TYPE: Angle Screwdriver
Colour: Red



Part number: 422287-8
Tool model number: DFL302/403F
Tool TYPE: Angle Screwdriver
Colour: Clear



Part number: 197045-8
Tool TYPE: DFL651F
Anti kick back head



Part number: 765027-4
Tool TYPE: Torque adjuster tool
DFT and DFL machines



Part number: 199065-8
Tool TYPE: Anti kick back head
DFL083/125/204F



Part number: 199066-6
Tool TYPE: Anti kick back head
DFL302/403F



Angle Screwdrivers: Torque Shut-Off up to 20Nm

Angle Screwdrivers

DFL061F	DFL062F
BFL082F	DFL124F
DLF202F	DFL203F

Li-ion Angle Screwdrivers

Angle Screwdrivers have been developed as upgraded sister tools to models of Makita BFL Ni-MH range. Having the same features and benefits as tools of Model BFL080FZ series, these new drivers for automotive and production factories feature higher torque, accuracy and built in job light.

- 3/8" Square drive
- High torque accuracy
- Heavy duty motor
- Rare earth magnet
- High accuracy clutch (ISO5393)
- Auto-stop fastening function
- Voltage control level shut-off (VCL)
- Fully moulded control circuit
- Light/buzzer indicator for fastening and low battery power
- Self-testing electronic system
- Impossible to adjust the torque without the adjustment tool



Batteries



BL1460B 632G42-4
(197709-4) (Bulk purchase)



BL1450B
(197122-6)



BL1440B
(196386-9)



BL1430B 632G20-4
(194065-3) (Bulk purchase)



BL1415N
(638586-0)

See page 31 for more info

DFL061F / DFL082F / DFL122F DFL202F 14.4 V

LITHIUM-ION

Optional: 158544-5

3/8" Square drive ball retainer

Built in L.E.D job light

with afterglow function.

Anti-slip dimpled grip



DFL062F / DFL124F / DFL203F 14.4V Angle Screwdriver

Homologation

These machines comply with the German Homologation standards VDI/VDE2647 approval of screwdriving tools.

DFL062F



DFL124F



DFL203F



LITHIUM-ION

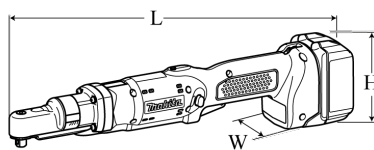
Angle Screwdrivers: Torque Shut-Off up to 20Nm Specifications

Homologation

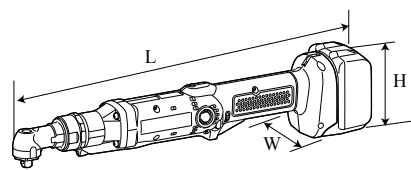
14.4v Cordless Angle Screwdriver

	DFL061F	DFL082F	DFL122F	DFL202F	DFL062F	DFL124F	DFL203F	
No Load Speed	470 rpm	700 rpm	410 rpm	220 rpm	470 rpm	410 rpm	220 rpm	
Torque Shut-off	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	
Torque Range								
(Hard Joint)	1.5-6 N.m	2.0-8.0 N.m	5.0-12.0 N.m	8.0-20.0 N.m	1.5-6.0 N.m	5.0-12.0 N.m	8.0-20.0 N.m	
(Soft Joint)	2.0-8.0 N.m	2.0-8.0 N.m	5.0-12.0 N.m	8.0-20.0 N.m	1.5-6.0 N.m	5.0-12.0 N.m	8.0-20.0 N.m	
Voltage	14.4 V	14.4 V	14.4 V	14.4 V	14.4 V	14.4 V	14.4 V	
Cell	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	
Drive	3/8" Square	3/8" Square	3/8" Square	3/8" Square	Square 3/8"	Square 3/8"	Square 3/8"	
Noise Levels	70 bB(A)	70 bB(A)	70 bB(A)	70 bB(A)	70 bB(A)	70 bB(A)	70 bB(A)	
Vibration	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	
Weight	1.5 kg	1.5 kg	1.5 kg	1.5 kg	1.6 kg - 1.9kg	1.7 kg - 1.9kg	1.7 kg - 1.9kg	
Carbon Brush	193466-2	193466-2	193466-2	193466-2	193466-2	193466-2	193466-2	
Brushless	X	X	X	X	X	X	X	
LED Job Light	✓	✓	✓	✓	✓	✓	✓	
Power Warning Lamp	✓	✓	✓	✓	X	X	X	
Beeper	✓	✓	✓	✓	✓	✓	✓	
Soft Start	✓	✓	✓	✓	✓	✓	✓	
Fastening Light	✓	✓	✓	✓	✓	✓	✓	
Anti-tamper	✓	✓	✓	✓	✓	✓	✓	
VCL- (Voltage Central Level Shut-off)	✓	✓	✓	✓	✓	✓	✓	
Dimensions								
Length	405 mm	405 mm	405 mm	405 mm	432 mm	432 mm	432 mm	
Width	74 mm	74 mm	74 mm	74 mm	74 mm	74 mm	74 mm	
Height	98 mm	98 mm	98 mm	98 mm	98 mm	98 mm	98 mm	
Centre Height	13.5 mm	13.5 mm	13.5 mm	13.5 mm	?? mm	?? mm	?? mm	

DFL061F 14.4v
DFL082F 14.4v
DFL122F 14.4v
DFL202F 14.4v



DFL062F 14.4v
DFL124F 14.4v
DFL203F 14.4v



Accessories

Part number: 418032-7

Tool model number:

DFL080/81/82F

Tool TYPE:

Angle screwdriver ≤20.0 Nm

Colour: Yellow



Part number: 418064-4

Tool model number:

DFL120/121/122F

Tool TYPE:

Angle screwdriver ≤20.0 Nm

Colour: Blue



Part number: 418065-2

Tool model number:

DFL200/202F

Tool TYPE:

Angle screwdriver ≤20.0 Nm

Colour: Red



Part number: 453093-0

Tool model number:

DFL Anti kick back head

Tool TYPE:

Angle screwdriver

Colour: Yellow



Part number: 453091-4

Tool model number:

DFL060/122F

Tool TYPE: Anti kick back-

head Angle screwdriver

Colour: Blue



Part number: 453092-2

Tool model number:

DFL202F

Tool TYPE: Anti kick back-

head Angle screwdriver

Colour: Red



Part number: 195621-2

Tool TYPE:

DFL upto 20Nm Anti kick back head complete with body



Part number: 765027-4

Tool TYPE:

Torque adjuster tool DFT and DFL machines



Part number: 194038-6

Tool TYPE:

Angle head 4 position DFT and DFL machines ≤20.0 Nm



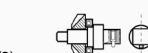
Part number: 154725-9*

Tool model number:

Spidle A - 9.5mm square (3/8)

Tool TYPE:

DFT and DFL 082 - 202 machines



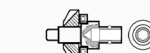
Part number: 154726-7*

Tool model number:

Spidle B - 6.35mm E-form

Tool TYPE:

DFT and DFL 082 - 202 machines



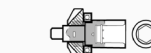
Part number: 154727-5*

Tool model number:

Spidle C - 6.35mm C-form

Tool TYPE:

DFT and DFL 082 - 202 machines



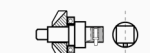
Part number: 154730-6

Tool model number:

Spidle F - 6.35mm 1/4 hex sq

Tool TYPE:

DFT and DFL 082 - 202 machines



Angle Screwdrivers: Torque Shut-Off up to 65Nm

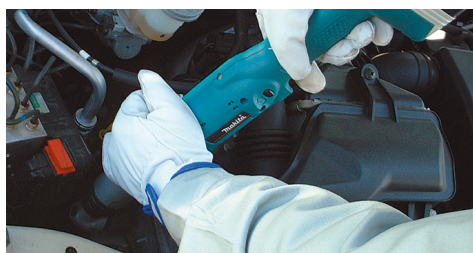
Angle Screwdrivers

DFL123F	DFL301F
DFL201F	DFL400F
DFL300F	DFL402F

Specially developed for fastening works on assembly lines with features that eliminate issues with critical fastening. Ergonomically sculpted for ultimate usability and low operator fatigue and are easily maintained due to fully modular construction and solder-less wiring connections.

In addition to the same high fastening torque accuracy as the current series models, these products feature a powerful and efficient power source of 14.4V Li-ion battery and BLDC motor (Brushless DC motor).

- 3/8" Square drive
- High torque accuracy
- Heavy duty motor
- Rare earth magnet
- High accuracy clutch (ISO5393)
- Auto-stop fastening function
- Voltage control level shut-off (VCL)
- Fully moulded control circuit
- Light/buzzer indicator for fastening and low battery power
- Self-testing electronic system
- Impossible to adjust the torque without the adjustment tool



Batteries



BL1460B 632G42-4
(197709-4) (Bulk purchase)



BL1450B
(197122-6)



BL1440B
(196386-9)



BL1430B 632G20-4
(197615-3) (Bulk purchase)



BL1415N
(638586-0)

See page 31 for more info

DFL123F 14.4 V

Optional: 158544-5
3/8" Square drive ball retainer

It is impossible to adjust fastening torque without the adjustment tool.

Precise Torque Control
Once the preset desire torque is achieved, the tool automatically stops.

Energy production is more efficient than brushed DC motor because of no friction loss caused by brushes, enabling to lower amperage for reduced heat production and increased work amount on a single full battery charge.

BL
MOTOR

LITHIUM-ION



DFL201F 14.4 V

Optional: 158544-5
3/8" Square drive ball retainer

Indication Lamp and Beeper Indicate fastening sufficiency and battery power conditions.

BL
MOTOR

LITHIUM-ION



DFL301F 14.4 V

Optional for B/DFL301
158543-7: 3/8" Square drive ball retainer

Optional for B/DFL300
158542-9: 3/8" Square drive ball retainer

Built-in LED job light with afterglow function.

BL
MOTOR

LITHIUM-ION



DFL402F 14.4 V

Optional for B/DFL301-402
158543-7: 3/8" Square drive ball retainer

DC Brushless Motor provides higher no loaded speed for powerful and quick screwdriving.

Easy-to-Operate, Push Button Type F/R Change Switch. One second start-delay between fastening cycles to prevent overtightening.

BL
MOTOR

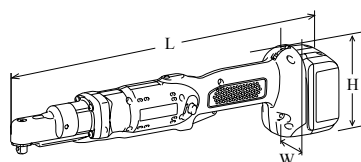
LITHIUM-ION



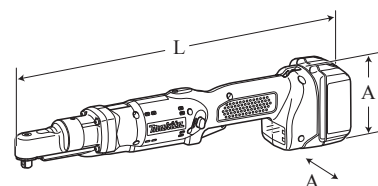
Angle Screwdrivers: Torque Shut-Off Specifications

	Brushless							
	DFL123F	DFL201F	DFL300F	DFL301F	DFL400F	DFL402F		
No Load Speed	1,200 rpm	360 rpm	400 rpm	260 rpm	260 rpm	200 rpm		
Torque Shut-off	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch	Mechanical Clutch		
Torque Range								
(Hard Joint)	5.0-12.0 N.m	8.0-18.0 N.m	16.0-30.0 N.m	16.0-30.0 N.m	25.0-40.0 N.m	25.0-40.0 N.m		
(Soft Joint)	5.0-12.0 N.m	8.0-20.0 N.m	16.0-30.0 N.m	16.0-30.0 N.m	25.0-40.0 N.m	25.0-40.0 N.m		
Voltage	14.4 V	14.4 V	14.4 V	14.4 V	14.4 V	14.4 V		
Cell	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion		
Drive	Hex 1/4"	Hex 1/4"	3/8" Square	3/8" Square	3/8" Square	3/8" Square		
Noise Levels	70 bB(A)	70 bB(A)	72 bB(A)	72 bB(A)	72 bB(A)	72bB(A)		
Vibration	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²		
Weight	1.5 kg	1.7 kg	2.3 kg	2.0 kg	2.4 kg	2.0 kg		
Carbon Brush	X	X	✓	✓	✓	✓		
Brushless	✓	✓	✓	✓	✓	✓		
LED Job Light	✓	✓	✓	✓	✓	✓		
Power Warning Lamp	✓	✓	✓	✓	✓	✓		
Beeper	✓	✓	✓	✓	✓	✓		
Soft Start	✓	✓	✓	✓	✓	✓		
Fastening Light	✓	✓	✓	✓	✓	✓		
Anti-tamper	✓	✓	✓	✓	✓	✓		
VCL- (Voltage Central Level Shut-off)	✓	✓						
Dimensions								
Length	429 mm	429 mm	506 mm	506 mm	510 mm	510 mm		
Width	73 mm	72 mm	73 mm	73 mm	73 mm	73 mm		
Height	104 mm	98 mm	104 mm	104 mm	104 mm	104 mm		
Centre Height	13.5 mm	13.5 mm	16 mm	16 mm	18 mm	18 mm		

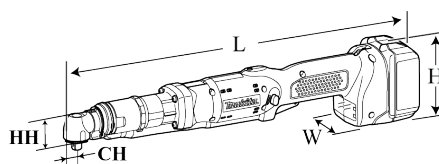
DFL123F 14.4v



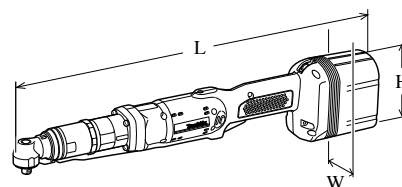
DFL201F 14.4v



DFL300F 14.4v
DFL301F 14.4v



DFL400F 14.4v
DFL402F 14.4v



Accessories

Part number: 418746-8
Tool model number:
DFL300 range
Tool TYPE:
14.4v Angle screwdriver
Colour: Blue



Part number: 418750-7
Tool model number:
DFL400 range
Tool TYPE:
14.4v Angle screwdriver
Colour: Red



Part number: 418743-4
Tool model number:
DFL301/402F
Tool TYPE:
14.4v Angle screwdriver
Colour: Blue



Part number: 418744-2
Tool model number:
DFL300/400
Tool TYPE:
14.4v Angle screwdriver
Colour: Red



Part number: 195620-4
Tool TYPE:
DFL300-400 range
Anti kick back head



Part number: 765027-4
Tool TYPE:
Torque adjuster tool
DFT and DFL machines



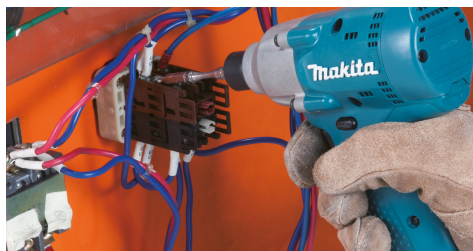
Impact Screwdriver and Wrenches: Programmable

Impact Drivers / Wrenches

Automatic Impact Stop
 DTD044 DTW074
 DTD064 DTW104
 DTD104

Specially developed for fastening works on assembly lines with features that control torque values and prevent over-tightening. High speed and lightweight. Ergonomically sculpted for ultimate usability and low operator fatigue. The range is fitted with quick change chucks and are easily maintained due to fully modular construction and solderless wiring connections. All impact drivers must be used with BL1415NA/NAP series batteries.

- 1/4" hex drive
- Torque controlled
- Heavy-duty motor
- Rare earth magnet
- Programmable impact
- Auto-stop fastening function
- Voltage control level shutoff (VCL)
- Fully-molded control circuit
- Low battery power indicator
- Light indicator shows complete or incomplete fastening
- Anti-tamper



Batteries



BL1460A
(632G42-4)



BL1415NA
(196280-5)



BL1415NAP
(196304-7)

The impact drivers and wrenches featured on this page are only compatible with "A" batteries

See page 31 for more info

DTD104 14.4 V

6.35mm (1/4") Hex Drive

Rubberised bit sleeve protects workpiece from scratches and damages.

Automatic Impact Stop System

automatically stops the motor to avoid under-tightening and over-tightening when the machine has provided impacting motion for a preset period of time.

LED Display panel

The period of impacting time can be set by operating the Trigger switch and the Setting button on the battery while watching the number in the LED display panel.



Compact and lightweight 4-pole motor.

Easy-to-pull trigger switch * with a 6mm short stroke is ideal for assembly and manufacturing applications.



Minimises operator's hand and finger fatigue in long, continuous operation in assembly and manufacturing applications.

Color coded plates on Front and Rear for easy model identification:
 Blue 35 N.m
 White ... 65 N.m
 Red 95 N.m

LITHIUM-ION

DTW104 14.4 V

9.5mm (3/8") Square Drive

Automatic Impact Stop System

automatically stops the motor to avoid under-tightening and over-tightening when the machine has provided impacting motion for a preset period of time.

LED Display panel

The period of impacting time can be set by operating the Trigger switch and the Setting button on the battery while watching the number in the LED display panel.



Easy-to-pull trigger switch * with a 6mm short stroke is ideal for assembly and manufacturing applications.



Minimises operator's hand and finger fatigue in long, continuous operation in assembly and manufacturing applications.

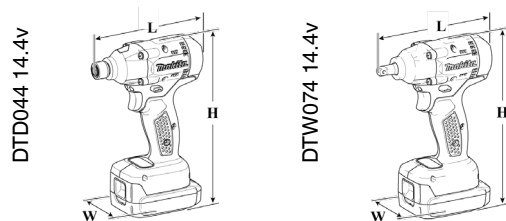
Color coded plates on Front and Rear for easy model identification:
 Blue 35 N.m
 White ... 65 N.m
 Red 95 N.m

Lightweight design; only 1.1 kg (2.4lbs) with battery BL1415NA.

LITHIUM-ION

Pistol Screwdriver and Wrenches: Programmable Specifications

	Impact Screwdrivers			Impact Wrench				
	Programmable Automatic Battery Shut-off System							
	DTD044	DTD064	DTD104	DTW074	DTW104			
No Load Speed	2,300 rpm	2,500 rpm	2,700 rpm	2,500 rpm	2,700 rpm			
Torque Shut-off	X	X	X	X	X			
Torque Range	35.0 N.m	65.0 N.m	95.0 N.m	65.0 N.m	95.0 N.m			
(Hard Joint)	N/A	N/A	N/A	N/A	N/A			
(Soft Joint)	N/A	N/A	N/A	N/A	N/A			
Voltage	14.4 V	14.4 V	14.4 V	14.4 V	14.4 V			
Cell	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion			
Drive	Hex 1/4"	Hex 1/4"	Hex 1/4"	Square 3/8"	Square 3/8"			
Low Speed	N/A	N/A	N/A	N/A	N/A			
Impacts Per Minute	3,500 ipm	3,500 ipm	3,500 ipm	3, 500 bpm	3,500 ipm			
Noise Levels	100 bd(A)	102 bd(A)	104 bd(A)	102 bd(A)	104 bd(A)			
Vibration	5.0 m/s2	7.0 m/s2	8.5 m/s2	8.0 m/s2	8.5 m/s2			
Weight	1.0 kg	1.0 kg	1.2 kg	1.2 kg	1.2 kg			
Carbon Brush	194427-5	194427-5	194427-5	194427-5	194427-5			
Brushless	X	X	X	X	X			
LED Job Light	✓	✓	✓	✓	✓			
Power Warning Lamp	X	X	X	X	X			
Beeper	X	X	X	X	X			
Soft Start	✓	✓	✓	✓	✓			
Fastening Light	✓	✓	✓	✓	✓			
Anti-tamper	✓	✓	✓	✓	✓			
VCL- (Voltage Central Level Shut-off)	✓	✓	✓	✓	✓			
Dimensions								
Length	144 mm	144 mm	144 mm	144 mm	144 mm			
Width	74 mm	74 mm	74 mm	74 mm	74 mm			
Height	220 mm	220 mm	220 mm	234 mm	220 mm			
Centre Height	N/A	N/A	N/A	N/A	N/A			



Accessories

Part number: 454420-4
Tool model number:
 DTD / DTW range
Tool TYPE:
 14.4v Impact driver / Wrench
Colour: Blue



Part number: 454422-0
Tool model number:
 DTD / DTW range
Tool TYPE:
 14.4v Impact driver / Wrench
Colour: Red



Part number: 454421-2
Tool model number:
 DTD / DTW range
Tool TYPE:
 14.4v Impact driver / Wrench
Colour: Clear



Impact Screwdriver and Wrenches: Non-Programmable

Impact Drivers / Wrenches

Without Automatic Impact Stop

DTD043	DTW073
DTD063	DTW103
DTD103	

Specially developed for fastening works on assembly lines with features that control torque values and prevent over-tightening. High speed and lightweight. Ergonomically sculpted for ultimate usability and low operator fatigue. The range is fitted with quick change chucks and are easily maintained due to fully modular construction and solderless wiring connections. All impact drivers must be used with BL1415NA/NAP series batteries.

- 1/4" hex drive
- Torque controlled
- Heavy-duty motor
- Rare earth magnet
- Programmable impact
- Auto-stop fastening function
- Voltage control level shutoff (VCL)
- Fully-molded control circuit
- Low battery power indicator
- Light indicator shows complete or incomplete fastening
- Anti-tamper



Batteries



BL1460A
(632G42-4)



BL1415NA
(196280-5)



BL1415NAP
(196304-7)

The impact drivers and wrenches featured on this page are only compatible with "A" batteries

See page 31 for more info

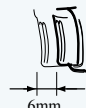
DTD063 14.4 V

6.35mm (1/4") Hex Drive

Rubberised bit sleeve protects workpiece from scratches and damages.

Single LED job light with preglow and afterglow functions

Easy-to-pull trigger switch * with a 6mm short stroke is ideal for assembly and manufacturing applications



Minimises operator's hand and finger fatigue in long, continuous operation in assembly and manufacturing applications



Automatic Battery shut-off system

Indication lamp and beeper warn operator visually and audibly of battery power reduction. If battery power reduces further, the motor automatically stops to avoid incomplete fastenings.

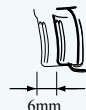
LITHIUM-ION

DTW073 14.4 V

9.5mm (3/8") Square Drive

Single LED job light with preglow and afterglow functions

Easy-to-pull trigger switch * with a 6mm short stroke is ideal for assembly and manufacturing applications



Minimises operator's hand and finger fatigue in long, continuous operation in assembly and manufacturing applications

Color coded plates on Front and Rear for easy model identification:
White ... 65 N.m
Red 95 N.m



Compact and lightweight 4-pole motor

Automatic Battery shut-off system

Indication lamp and beeper warn operator visually and audibly of battery power reduction. If battery power reduces further, the motor automatically stops to avoid incomplete fastenings.

LITHIUM-ION

Pistol Screwdriver and Wrenches: Non-Programmable Specifications

	Impact Screwdrivers			Impact Wrench				
	Automatic Battery Shut-off System							
	DTD043	DTD063	DTD103	DTW073	DTW103			
No Load Speed	2,300 rpm	2,500 rpm	2,700 rpm	2,500 rpm	2,700 rpm			
Torque Shut-off	X	X	X	X	X			
Torque Range	35.0 N.m	65.0 N.m	95.0 N.m	65.0 N.m	95.0 N.m			
(Hard Joint)	N/A	N/A	N/A	N/A	N/A			
(Soft Joint)	N/A	N/A	N/A	N/A	N/A			
Voltage	14.4 V	14.4 V	14.4 V	14.4 V	14.4 V			
Cell	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion			
Drive	Hex 1/4"	Hex 1/4"	Hex 1/4"	Square 3/8"	Square 3/8"			
Low Speed	N/A	N/A	N/A	N/A	N/A			
Impacts Per Minute	3,500 ipm	3,500 ipm	3,500 ipm	3, 500 bpm	3, 500 bpm			
Noise Levels	102 bd(A)	102 bd(A)	104 bd(A)	102 bd(A)	103 bd(A)			
Vibration	5.0 m/s2	7.0 m/s2	8.5 m/s2	8.0 m/s2	8.5 m/s2			
Weight	1.0kg	1.0 kg	1.1 kg	1.2 kg	1.2 kg			
Carbon Brush	194427-5	194427-5	194427-5	194427-5	194427-5			
Brushless	X	X	X	X	X			
LED Job Light	✓	✓	✓	✓	✓			
Power Warning Lamp	X	X	X	X	X			
Beeper	X	X	X	X	X			
Soft Start	✓	✓	✓	✓	✓			
Fastening Light	✓	✓	✓	✓	✓			
Anti-tamper	X	X	X	X	X			
VCL- (Voltage Central Level Shut-off)	✓	✓	✓	✓	✓			
Dimensions								
Length	144 mm	144 mm	144 mm	144 mm	144 mm			
Width	74 mm	74 mm	74 mm	74 mm	74 mm			
Height	220 mm	220 mm	220 mm	220 mm	220 mm			
Centre Height	N/A	N/A	N/A	N/A	N/A			

DTD063Z 14.4v



DTW073Z 14.4v



Accessories

Part number: 454420-4
Tool model number:
 DTD / BTW range
Tool TYPE:
 14.4v Impact driver / Wrench
Colour: Blue



Part number: 454422-0
Tool model number:
 DTD / BTW range
Tool TYPE:
 14.4v Impact driver / Wrench
Colour: Red



Part number: 454421-2
Tool model number:
 DTD / BTW range
Tool TYPE:
 14.4v Impact driver / Wrench
Colour: Clear



Pencil, Pistol and Angle Impact Drivers

Impact Drivers / Wrench 7.2/10.8/12/14.4v

TD091D	DTL060
TD090D	DF010D
TD110D	TD021D
DTD134	
DTD136	

Batteries



BL1460B
(197709-4)



BL1040B
(197402-0)



BL1450B
(197122-6)



BL1020B
(197394-3)



BL1440B
(196386-9)



BL1015B
(197390-1)



BL1430B
(197615-3)



BL1415N
(638586-0)



BL1013
(194550-6)



BL7010
(194355-4)



BL7015
(198000-3)

See page 31 for more info

DF010D 7.2 V FAST SPEED



DF010D 7.2 V SLOW SPEED



DF012D 7.2 V



Pencil Drill Driver

TD022D 7.2 V



Pencil Drill Driver

Models and specification may change from country to country.

Pencil, Pistol and Angle Impact Drivers Specifications

	Screwdrivers			Impact Drivers					
	DF010D	DF010D	DF012D	TD022D	TD111D	TL064D	DTD134	DTL060	
No Load Speed	650 rpm	200 rpm	200-650 rpm	2,300 rpm	0-2,400 rpm	0-2,000 rpm	0-2,400 rpm	0-2,000 rpm	
Torque Range	0.3 - 1.5 N.m	0.3- 3.0 N.m	0-5.6 N.m	0-25 N.m	0-135 N.m	0-60 N.m	0-155 N.m	0-60 N.m	
Clutch Setting	Adjustable	Adjustable	N/A	N/A	N/A	N/A	N/A	N/A	
Impact	N/A	N/A	N/A	3,000ipm	0-3,900ipm	0-3,000ipm	0-3,200ipm	0-3,000ipm	
Machine Screws	1.5 N.m	5.0 N.m	N/A	M3-M8	M4-M8	M4-M8	M4-M8	M4-M8	
Bolts	M5	M5	M5	M3-M8	M5-M12	M4-M12	M5-M14	M4-M8	
Noise Power Level	70 dB(A)	70 dB(A)	70 dB(A)	96 dB(A)	105 dB(A)	102 dB(A)	103 dB(A)	102 dB(A)	
Noise Pressure Level	70 dB(A)	70 dB(A)	70 dB(A)	85 dB(A)	94 dBA)	91 dB(A)	92 dB(A)	91 dB(A)	
Vibration	2.5 m/s ²	2.5 m/s ²	2.5 m/s ²	6.5 m/s ²	12.5 m/s ²	15 m/s ²	12 m/s ²	9 m/s ²	
K Value	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Voltage	7.2 V	7.2 V	7.2 V	7.2 V	10.8/12 V	10.8/12 V	14.4 V	14.4 V	
Drive	1/4" Hex	1/4" Hex	1/4" Hex	1/4" Hex	1/4" Hex	1/4" Hex	1/4" Hex	1/4" Hex	
Cell	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	
Weight	0.55 kg	0.55 kg	0.53 kg	0.56 kg	1.1 kg	1.6 kg	1.4 kg	1.7 kg	
Led Job Light	✓	✓	✓	✓	✓	✓	✓	✓	
Power Warning Lamp	✓	✓	✗	✗	✗	✗	✗	✗	
Beeper	✓	✓	✗	✗	✗	✗	✗	✗	
Carbon Brush	✓	✓	✓	✓	✓	✗	✓	✓	
Brushless	✗	✗	✗	✗	✓	✗	✗	✗	

TD111D 10.8 / 12 V Max



Impact driver

TL064D 10.8 / 12 V Max



Angle Impact Screwdrivers

DTD134 14.4 V



Impact driver

DTL060 14.4 V




Angle Impact Screwdrivers


Pistol and Angle Impact Drivers


Impact Drivers 18v


DTD154
DTD152
DTL061
DTD170


Batteries



BL1860B
(197422-4)


BL1850B
(197282-4)


BL1840B
(197265-4)


BL1830B
(197599-5)


BL1820B
(197256-5)


BL1815B
(194513-2)



TD111D 10.8 / 12V Max DTD170 18 V DTD154 18 V DTD153 18 V



See page 31 for more info

Pistol and Angle Impact Drivers Specifications

	Brushless impact drivers					Angle impact drivers			
	TD111D	DTD170	DTD154	DTD153	DTD155	TL064D	DTL060	DTL061	
No Load Speed	0-3,000 rpm	0-3,600 rpm	0-3,600 rpm	0-3,400 rpm	0-3,000 rpm	0-2,000 rpm	0-2,000 rpm	0-2,000 rpm	
Torque Range	0-135 N.m	0-175 N.m	0-175 N.m	0-170 N.m	0-140 N.m	0-60 N.m	0-60 N.m	0-60 N.m	
Impact	0-3,900ipm	0-3,800ipm	0-3,800ipm	0-3,600ipm	0-3,600ipm	0-3,000ipm	0-3,000ipm	0-3,000ipm	
Machine Screws	M4-M8	M4-M8	M4-M8	M4-M8	M4-M8	M4-M8	M4-M8	M4-M8	
Bolts	M5-M14	M5-M14	M5-M16	M5-M16	M5-M14	M4-M12	M4-M8	M4-M12	
Noise Power Level	105 dB(A)	109 dB(A)	107 dB(A)	107 dB(A)	105 dB(A)	102 dB(A)	102 dB(A)	102 dB(A)	
Noise Pressure Level	94 dB(A)	98 dB(A)	96 dB(A)	96 dB(A)	94 dB(A)	91 dB(A)	91 dB(A)	91 dB(A)	
Vibration	12.5 m/s ²	12.5 m/s ²	12.5 m/s ²	13 m/s ²	14 m/s ²	18 m/s ²	9 m/s ²	17.5 m/s ²	
K Value	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Voltage	10.8/12 V	18 V	18 V	18 V	18 V	10.8/12 V	14.4 V	18 V	
Drive	1/4" Hex	1/4" Hex	1/4" Hex	1/4" Hex	1/4" Hex	1/4" Hex	1/4" Hex	1/4" Hex	
Cell	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	
Weight	1.1 kg	1.5 kg	1.5 kg	1.5 kg	1.4 kg	1.6 kg	1.2 - 1.6 kg	1.4 - 2 kg	
Led Job Light	✓	✓	✓	✓	✓	✓	✓	✓	
Power Warning Lamp	✗	✗	✗	✗	✗	✗	✗	✗	
Beeper	✗	✗	✗	✗	✗	✗	✗	✗	
Carbon Brush	✗	✗	✗	✗	✗	✗	✗	✓	
Brushless	✗	✗	✗	✗	✓	✗	✗	✗	
Battery Fuel Guage	✓	✓	✗	✗	✗	✓	✓	✗	
T-Mode	✓	✓	✗	✗	✗	✓	✓	✗	
Assist Mode	✓	✓	✗	✗	✓	✓	✓	✗	
3 Speed	✓	✓	✗	✗	✗	✓	✓	✗	
2 Speed	✗	✗	✗	✗	✓	✗	✗	✗	

DTD155 18 V



Impact driver

TL064D 10.8 / 12V Max



Angle Impact Screwdrivers

DTL060 14.4V



Angle Impact Screwdrivers

DTL061 18 V



Angle Impact Screwdrivers

Pistol Impact Wrenches

Pistol Impact Wrenches

TW100D DTW1002
DTW190 DTW1001
DTW251
DTW281
DTW450

Batteries



BL1860B
(197422-4)



BL1460B 632G42-4
(197709-4) (Bulk purchase)



BL1850B
(197282-4)



BL1450B
(197122-6)



BL1840B
(197265-4)



BL1440B
(196386-9)



BL1830B
(197599-5)



BL1430B 632G20-4
(194065-3) (Bulk purchase)



BL1820B
(197256-5)



BL1415N
(638586-0)

DTW1001 18 V

DTW1001: 3/4" Square Drive
DTW1002: 1/2" Square Drive

Powerful DC Brushless Motor



3 Speeds:
Hard / Medium / Soft



BL
MOTOR

LITHIUM-ION

TW140D 10.8V / 12V Max

TL065D 10.8 / 12 V Max

DTW152 14.4 V

DTL063 18 V

DTW190 18 V



Impact wrench



Angle impact wrench



Impact wrench



Angle impact Screwdrivers



Impact wrench

Pistol Impact Wrenches Specifications

	Brushless									
	TW140D	TL065D	DTW152	DTL063	DTW190	DTW251	DTW450	DTW285	DTW1002	DTW1001
No Load Speed	0-2,600 rpm	0-3,000 rpm	0-2,400rpm	0-2,000 rpm	0-2,300rpm	0-2,800rpm	0-1,600rpm	0-2,800rpm	0-1,800rpm	0-1,800rpm
Torque Range	0-140 N.m	0-60 N.m	200 N.m	0-60 N.m	320 N.m	230 N.m	440 N.m	280 N.m	1,000 N.m	1,050 N.m
Impact	0-3,000ipm	0-3,000ipm	0-3,200ipm	0-3,000ipm	0-3,000ipm	0-3,500ipm	0-2,200ipm	0-3,500ipm	0-2,200ipm	0-2,200ipm
Bolts	M8-M16	M4-M12	M8-M16	M4-M8	M8-M16	M10-M20	N/A	M10-M20	M12-30	M12-30
Noise Power Level	99 dB(A)	101 dB(A)	102 db(A)	102 dB(A)	105 db(A)	105 db(A)	105 db(A)	107 db(A)	108 db(A)	109 db(A)
Noise Pressure Level	88 dB(A)	90 dB(A)	91 db(A)	91 dB(A)	94 db(A)	94 db(A)	94 db(A)	96 db(A)	97 db(A)	98 db(A)
Vibration	8.0 m/s ²	18 m/s ²	8 m/s ²	17.5 m/s ²	8.5 m/s ²	11 m/s ²	19 m/s ²	11.5 m/s ²	18 m/s ²	15.5 m/s ²
K Value	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0
Voltage	10.8 / 12 V	10.8 / 12 V	14.4 V	18 V	18 V	18 V	18 V	18 V	18 V	18 V
Drive	3/8"Square	3/8"Square	1/2"Square	3/8" Square	1/2"Square	1/2"Square	1/2"Square	1/2"Square	1/2"Square	3/4"Square
Cell	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Weight	1.2 kg	1.6 kg	1.5kg	1.5 kg	1.7kg	1.5kg	3.4kg	1.7kg	3.6kg	3.7kg
Led Job Light	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Power Warning Lamp	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Beeper	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Carbon Brush	✗	✗	✓	✓	✓	✓	✓	✗	✗	✗
Brushless	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗
5 Speed	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗

DTW251 18 V



Impact wrench

DTW285 18 V



Impact wrench

DTW450 18 V



Impact wrench

DTW1002 18 V
1/2" square drive
DTW1001 18 V
3/4" square drive








Impact wrench






General Accessories and Protectors

Tool Protector & Accessories


Screwdriver programmable mini series

				
Part number: 424987-6	Part number: 424986-8	Part number: 424985-0	Part number: 424984-2	Part number: 422378-5
Tool model number: DFT023/045F	Tool model number: DFT023/045F	Tool model number: DFT023/045F	Tool model number: DFT023/045F	Tool model number: DFT023/045F
Tool TYPE: Screwdriver	Tool TYPE: Screwdriver	Tool TYPE: Screwdriver	Tool TYPE: Screwdriver	Tool TYPE: Screwdriver
Colour: Yellow	Colour: Blue	Colour: Red	Colour: Clear	Colour: Green





Screwdriver programmable

				
Part number: 424966-4	Part number: 424967-2	Part number: 424968-0	Part number: 424969-8	Part number: 422379-3
Tool model number: DFT085/127F	Tool model number: DFT085/127F	Tool model number: DFT085/127F	Tool model number: DFT085/127F	Tool model number: DFT085/127F
Tool TYPE: Anti kick back head range Screwdriver	Tool TYPE: Anti kick back head range Screwdriver	Tool TYPE: Anti kick back head range Screwdriver	Tool TYPE: Anti kick back head range Screwdriver	Tool TYPE: Anti kick back head range Screwdriver
Colour: Yellow	Colour: Blue	Colour: Red	Colour: Clear	Colour: Green





Screwdriver program. Anti Kickback

			
Part number: 424966-4	Part number: 424967-2	Part number: 424968-0	Part number: 424969-8
Tool model number: DFT085/127F	Tool model number: DFT085/127F	Tool model number: DFT085/127F	Tool model number: DFT085/127F
Tool TYPE: Anti kick back head range Screwdriver	Tool TYPE: Anti kick back head range Screwdriver	Tool TYPE: Anti kick back head range Screwdriver	Tool TYPE: Anti kick back head range Screwdriver
Colour: Yellow	Colour: Blue	Colour: Red	Colour: Clear




Screwdriver

			
Part number: 418423-2	Part number: 418424-0	Part number: 418425-8	Part number: 450331-1
Tool model number: DFT022/044/084/126	Tool model number: DFT022/044/084/126	Tool model number: DFT022/044/084/126	Tool model number: DFT022/044/084/126
Tool TYPE: Screwdriver	Tool TYPE: Screwdriver	Tool TYPE: Screwdriver	Tool TYPE: Screwdriver
Colour: Yellow	Colour: Blue	Colour: Red	Colour: Clear




Screwdriver Anti-Kickback

			
Part number: A-51253	Part number: A-51269	Part number: A-51275	Part number: A-51281
Tool model number: DFT022/044/084/126	Tool model number: DFT022/044/084/126	Tool model number: DFT022/044/084/126	Tool model number: DFT022/044/084/126
Tool TYPE: Screwdriver	Tool TYPE: Screwdriver	Tool TYPE: Screwdriver	Tool TYPE: Screwdriver
Colour: Yellow	Colour: Blue	Colour: Red	Colour: Clear





Impact Screwdrivers / Wrenches

		
Part number: 454420-4	Part number: 454422-0	Part number: 454421-2
Tool model number: DFT / DTW range	Tool model number: DFT / DTW range	Tool model number: DFT / DTW range
Tool TYPE: 14.4v Impact driver / Wrench	Tool TYPE: 14.4v Impact driver / Wrench	Tool TYPE: 14.4v Impact driver / Wrench
Colour: Blue	Colour: Red	Colour: Clear





Angle Screwdrivers up to 20NM





			
Part number: 453093-0	Part number: 418064-4	Part number: 418065-2	
Tool model number: DFL061/082/122/202	Tool model number: DFL061/082/122/202	Tool model number: DFL061/082/122/202	
Tool TYPE: Angle Screwdriver ≤20.0 Nm	Tool TYPE: Angle Screwdriver ≤20.0 Nm	Tool TYPE: Angle Screwdriver ≤20.0 Nm	
Colour: Yellow	Colour: Blue	Colour: Red	





Angle Screwdrivers over 20NM

			
Part number: 418746-8	Part number: 418743-4	Part number: 418750-7	Part number: 418744-2
Tool model number: DFL300 range	Tool model number: DFL300 range	Tool model number: DFL400 range	Tool model number: DFL400 range
Tool TYPE: 14.4v Angle screwdriver	Tool TYPE: 14.4v Angle screwdriver	Tool TYPE: 14.4v Angle screwdriver	Tool TYPE: 14.4v Angle screwdriver
Colour: Blue	Colour: Blue	Colour: Red	Colour: Red

Angle Screwdrivers over 20NM Anti-Kick back head

			
Part number: 453093-0	Part number: 453091-4	Part number: 453092-2	Part number: 453094-8
Tool model number: DFL061/082/122/202	Tool model number: DFL061/082/122/202	Tool model number: DFL061/082/122/202	Tool model number: DFL061/082/122/202
Tool TYPE: Angle screwdriver	Tool TYPE: Screwdriver	Tool TYPE: Screwdriver	Tool TYPE: Angle screwdriver
Colour: Yellow	Colour: Blue	Colour: Red	Colour: Clear

			
Part number: 422281-0	Part number: 422280-2	Part number: 422279-7	Part number: 422282-2
Tool model number: DFL083/125/204F	Tool model number: DFL083/125/204F	Tool model number: DFL083/125/204F	Tool model number: DFL083/125/204F
Tool TYPE: Angle screwdriver	Tool TYPE: Angle screwdriver	Tool TYPE: Angle screwdriver	Tool TYPE: Angle screwdriver
Colour: Yellow	Colour: Blue	Colour: Red	Colour: Clear

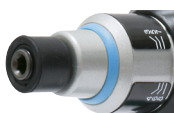
			
Part number: 422286-0	Part number: 422285-2	Part number: 422284-4	Part number: 422287-8
Tool model number: DFL302/403F	Tool model number: DFL302/403F	Tool model number: DFL302/403F	Tool model number: DFL302/403F
Tool TYPE: Angle screwdriver	Tool TYPE: Angle screwdriver	Tool TYPE: Angle screwdriver	Tool TYPE: Angle screwdriver
Colour: Yellow	Colour: Blue	Colour: Red	Colour: Clear

Not all accessories are available to each Makita subsidiary, please check with you local office.

General Accessories and Protectors



Set amount:	Locking Nut 10PCS / Single	Locking Nut 10PCS / Single	Locking Nut 10PCS / Single	Locking Nut 1 x Each colour - 3PCS
Part number:	184679-6 / 457531-4	184680-1 / 457532-2	184681-9 / 457533-0	184682-7
Tool model number:	DFT023/045	DFT023/045	DFT023/045	DFT023/045
Tool TYPE:	Screwdriver	Screwdriver	Screwdriver	Screwdriver
Colour:	Red	Blue	Yellow	Yellow / Red / Blue



Set amount:	Ring 10PCS / Single	Ring 10PCS / Single	Ring 10PCS / Single	Ring 10PCS / Single	Ring 1 x Each colour - 4PCS
Part number:	184685-1 / 424976-1	184684-3 / 424975-3	184683-5 / 424974-5	184686-9 / 424977-9	184687-7
Tool model number:	DFT083 / 127F	DFT083 / 127F	DFT083 / 127F	DFT083 / 127F	DFT083 / 127F
Tool TYPE:	Screwdriver	Screwdriver	Screwdriver	Screwdriver	Screwdriver
Colour:	Red	Blue	Yellow	Black	Red / Blue / Yellow / Black

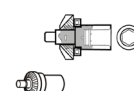
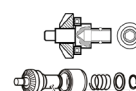
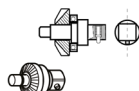
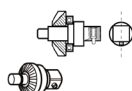
Anti-Kickback heads



Part number:	195231-5	195621-2	195620-4	197045-8
Tool TYPE:	DFT Spindle M Type DFT Anti kick back heads 1/4 hex E-form	DFL upto 20Nm Anti kick back head complete with body	DFL300-400 range Anti kick back head	DFL651 Anti kick back head

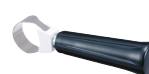


Part number:	199065-8	199066-6		
Tool TYPE:	Anti kick back head DFL083/125/204F	Anti kick back head DFL302/403F		



Spindle drive options

Part number:	154725-9*	154730-6	154726-7*	154727-5*
Tool model number:	Spindle A - 9.5mm square (3/8)	Spindle F - 6.35mm 1/4 hex sq	Spindle B - 6.35mm E-form hex	Spindle C - 6.35mm C-form hex
Tool TYPE:	DFT and DFL 082 - 202 machines	DFT and DFL 082 - 202 machines	DFT and DFL 082 - 202 machines	DFT and DFL 082 - 202 machines














Part number:	765027-4	194038-6	2734434-1	193874-7
Tool TYPE:	Torque adjuster tool DFT and DFL 082 - 202 machines	Angle head 4 position DFT and DFL machines ≤20.0 Nm	Side handle DFT and DFL machines	Attachment for a side handle DFT and DFL machines



Part number:	281012-4	454407-6	457041-1	194008-5
Tool model number:	DFL083/125/204/403F	BL1415	BL1430	DFL300-400 range
Tool TYPE:	Production tool suspension hook	Battery protector for BL1415A	Battery protector for BL1430	Paddle lever
Colour:		Clear	Clear	

Lithium-ion Battery Technology Batteries

	LXT 18V Lithium-ion	LXT 14.4V Lithium-ion	Charging times		
			DC18RC DC18RD DC18RE	DC18SD DC18SE Automotive	DC18SF Four Port Charger
6.0 Ah	 BL1860B (197422-4)	 BL1460B (197709-4) BL1460A (632G42-4)	55 Minute Charge 1-2 Batteries	130 Minute Charge	130 Minute Charge 1-2 Batteries 260 Minute Charge 3-4 Batteries
5.0 Ah	 BL1850B (197282-4)	 BL1450B (197122-6)	45 Minute Charge 1-2 Batteries	110 Minute Charge	110 Minute Charge 1-2 Batteries 220 Minute Charge 3-4 Batteries
4.0 Ah	 BL1840B (197265-4)	 BL1440B (196386-9)	36 Minute Charge 1-2 Batteries	90 Minute Charge	90 Minute Charge 1-2 Batteries 180 Minute Charge 3-4 Batteries
3.0 Ah	 BL1830B (197599-5)	 BL1430B (197615-3)	22 Minute Charge 1-2 Batteries	60 Minute Charge	60 Minute Charge 1-2 Batteries 120 Minute Charge 3-4 Batteries
2.0 Ah	 BL1820B (197256-5)		24 Minute Charge 1-2 Batteries	45 Minute Charge	45 Minute Charge 1-2 Batteries 90 Minute Charge 3-4 Batteries
1.5 Ah	 BL1815B (194513-2)	 BL1415NAP (196304-7) BL1415N (196877-0) BL1415NA (196280-5)	15 Minute Charge 1-2 Batteries	30 Minute Charge	30 Minute Charge 1-2 Batteries 60 Minute Charge 3-4 Batteries

Battery Fuel Gauge

18v and 14.4v B & A suffix batteries come with a LED fuel gauge on the rear of the battery.



Battery Protector 195798-3




Batteries
BL1815, BL1830



Battery Protector 454407-6, 457041-1

Batteries
BL1415, BL1430



	CXT 10.8 / 12 V Max Lithium-ion	Charging times	
		DC10SA DC18RE	DC10WC
4.0 Ah	 BL1040B (197402-0)	60 Minute Charge	130 Minute Charge
2.0 Ah	 BL1020B (197394-3)	30 Minute Charge	70 Minute Charge
1.5 Ah	 BL1015 (197390-1)	22 Minute Charge	50 Minute Charge

LXT Charger part numbers 18V



CXT Charger part numbers 10.8 V / 12V



18V LI-ION CORDLESS VACUUM CLEANERS

18V Robotic Vacuum Cleaner DRC200



- Random and pattern settings
- 2 Dust collection modes
- Area setting function
- Obstacle detection

Cleaning Area (5Ah x2): 500m²
 Running Speed: max 0.3m/s
 Settings: Random/Pattern
 Dust Box Capacity: 2.5L
 Net Weight: 7.8kg
 Run Time (5Ah x2): 200 mins



Twin 18V Cordless or Mains Coded Vacuum Cleaner DVC861L



- Mains or Battery Powered
- Available in 240v and 110v

Power Unit: AC/DC
 Battery Voltage: 36V (18V x2)
 Input Wattage: 1,050W
 Tank Capacity: 8 litres
 Power Cord: 5.0m
 Weight with battery: 9.9 kg
 Run time: (5Ah x2) 30-65 mins
 Suction Power (DC): 70 – 25W
 Suction Power on (AC): 320W
 Sealed Suction (DC): 9 kPa
 Sealed Suction (AC): 24 kPa
 Max Air Flow (DC): 2.1 m³/min
 Max Air Flow (AC): 3.6 m³/min



Twin 18V Backpack Vacuum Cleaner DVC260



Max Sealed Suction: 7.1 kPa
 Max Air Volume: 1.5m³/min
 Suction Power (H/L): 45/25W
 Dust Bag Capacity: 2.0L
 Net Weight: 4.3kg
 Run Time (5Ah x2) Lo: 90 mins



18V Vacuum Cleaner DCL180



Max air flow: 1.3 m³/min
 Max sealed suction: 3.6 kPa
 Capacity: 0.65 litre
 Net weight: 1.2kg



Universal tools holder ERGO PLUS P-78433



Universal tool holder - 4JGL-5015



A large blue Makita cordless drill is shown mounted on a silver aluminium support pipe. A circular callout indicates a 28 mm diameter.



Three views of the black plastic tool holder component, showing its internal structure and mounting points.

 35N-m DTD044D DTD043D	 140N-m DTD143D	 65N-m DTW074D DTW073D	 0.5~2N-m DFT023FD
 65N-m DTD064D DTD063D		 95N-m DTW104D DTW103D	 1~4N-m DFT045FD
 95N-m DTD104D DTD103D			 3~8N-m DFT085FD
			 5~12N-m DFT127FD

Aluminium support pipe not included

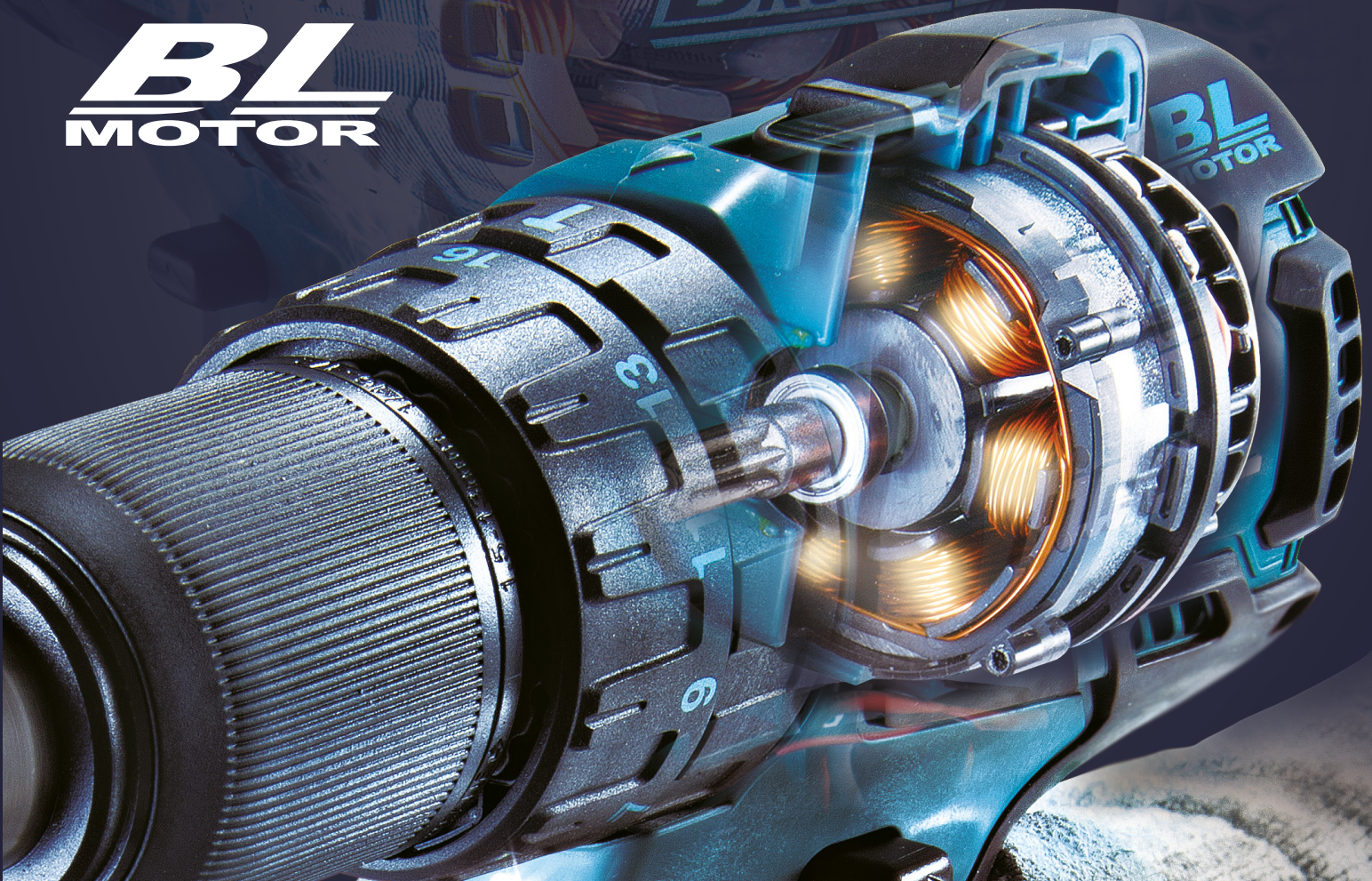
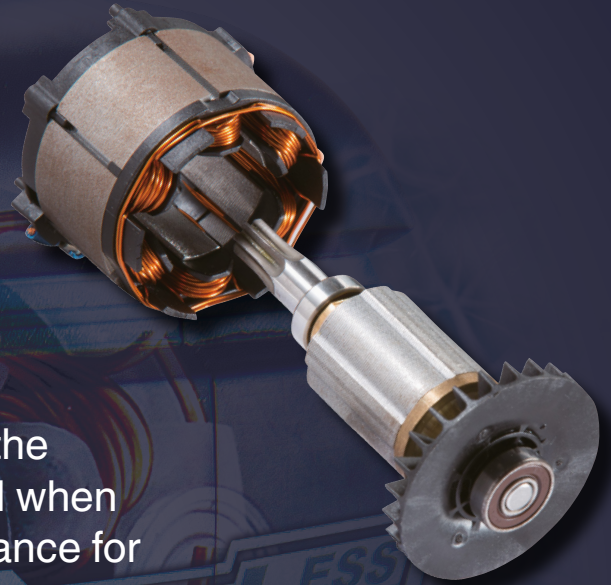
Brushless - A Compact Tool with More Runtime

Our brushless motor is designed to make the tool more compact whilst delivering more power and run time than the standard brushed motor.

The new motor is more efficient and will extend the life of your tools and the batteries you use with them.

Being brushless, the motor no longer has the standard brushes that need to be replaced when they wear down. This means less maintenance for you during the life of the tool.

BL
MOTOR





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