Cordless tools for Production Trackit





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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.





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.

PRODUCTION TOOLS Cordless tools for industry

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.

You work to the highest standards, so do our tools.







General features Good design is in the detail

Bluetooth

· Wireless bluetooth options are available

Job light

 Good illumination for dark work areas

Torque control

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

Heavy duty motor

- Rare earth magnet, 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

- Diffrent battery technologies are available
- · Varying voltages and amp hours are available

Drive spindle

- 3/8" drive with spring pin retainer
- Optional 1/4" square or hex



195231-5	RFI	Fits BFT Spindle M Type (E form)
195232-3	BFT	Fits BFT Spindle N Type
195620-4	BFL	Fits BFL300-400FZ
195621-2	BFL	Fits BFL200FZ 20Nm and below c/w head

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 fatique.

Identification plate.

Rigid aluminum alloy head.

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

Identifaction plate

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

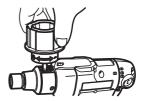
Indication lamp and beeper

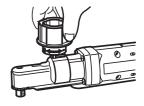
- Fastening torque reached: Green
- Fastening torque not reached: Red and beeping
- · Battery warning: Red and beeping

Anti slip handle

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









• Ergonomically designed for maximum user comfort and low fatigue



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. The head fits all BFT and BFL machines up to 20NM.

Bluetooth technology Monitor your production prosses.



How Torque Tracer Bluetooth works

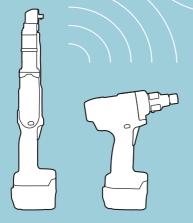
Install Software

CD-ROM comes with the Receiver. Compatible with Windows XP, onwards. Software available in English or Italian. Settings can be password protected.

Receiver (1 to 1 Communication)

Tools can be operated freely within about 10m (33 feet) range from the Receiver. OK / NOK jugment on each fastening and batch count.

Torque Tracer





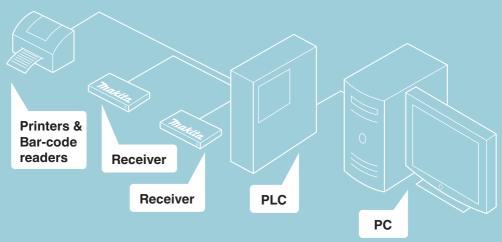
- Batch Count, OK / NOK jugment
- Torque value, exc. BFT041R
- Turning angle, exc. BFT041R
- Tool ID number
- Error codes

BFT / BFL Range

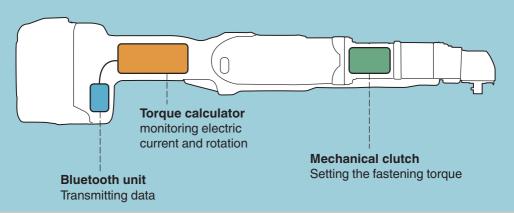
Fastening data can be temporarlly saved in the tool when transmission is shut off. The memory will hold the last 9 fastenings.

Comparison of function when combining BFT / BFL Series with other devices	Preventing human error	Saving torque data	Singnal from receiver to light
Tool + Receiver + Windows PC + + + + + + + + + + + + + + + + + +	/	exc. BFT041R	/
Tool + Receiver + Light beacon	/	×	
Tool only	V	×	×

Bluetooth Receivers are compatible with PLC (Programmable logic controllers)



Self torque check system by two independent devices



Competitor data	Cordless	Saving torque data
Torque Tracer BFT / BFL Series	V	exc. BFT041R
Competitor A	×	
Competitor B	/	×

Lithium-ion battery technology The battery has evolved



A revolutionary battery technology

Makita's Lithium-ion tools have proved market winners and now Makita's expanded range offers a comprehensive, powerful and lightweight selection of professional tools to complete any job.

The long-lasting Lithium-ion batteries are 40% lighter than a similar Nickel Metal Hydride (Ni-MH) battery. Lithium-ion batteries feature a high energy density technology that will deliver 430% more working capacity during the lifetime of this battery compared to traditional Ni-Cad batteries. Lithium-ion batteries have an extended length of time during which they hold their charge – even after a long period of storage the batteries will deliver their power.

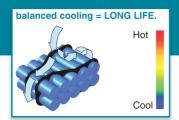
40% lighter

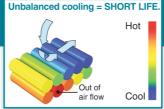
430% more run time

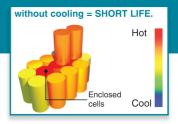
22 minute charge time











Air flow around the battery

For optimum efficiency battery cells need to be kept at a cool temperature during charging. To enable each cell in the battery to be cooled the unit needs to be designed in such a way that air flow around the battery is maximised. Unlike some other Lithium-ion battery types the Makita battery design allows each cell to be kept at an optimum temperature which extends the battery life.

Unbalanced cooling will give rise to cells who's capacities vary and discharge at different rates, this can result in a battery that has a reduced run time, cycle life and capacity.

MORE POWER LESS WEIGHT



Lithium-ion's weight saving means 18 volt power can be obtained by a battery that weighs the same as a

12 volt Ni-MH battery. Reducing weight whilst retaining power has obvious positive effects on operator fatigue.

EXTENDED BATTERY LIFE



Lithium-ion batteries have greater life spans than their Ni-MH or Ni-Cad counterparts this is due to the increased number of charging

cycles Lithium-ion offers and the run time between charges.

CYCLES TESTED UNDER LOAD



Makita have obtained the cycle life figure by testing the Lithium-ion 18v 3.0Ah battery under load. 50mm tapping screws

were screwed into standard pine, replicating actual use conditions.

OPTIMUM CHARGING



Makita can achieve the massive cycles from their Lithium-ion batteries because of the Optimum Charging System. This unique 22 minute charge time system enables the battery and

charging system to talk to each other via a built in CPU in the charger and CPU in the battery. These two key elements are vital in extending the batteries working life.

Through this two way communication between charger and battery, the charger can recognise the battery and recall its charging history, analyse the batteries condition and usage and charge the battery accordingly.



Charger fan Keeps the battery cells cool throughout the charging cycle





PISTOL SCREWDRIVERS

Specially developed for fastening works on assembly lines with brush-less motor technology to provide higher speeds and a more durable, more efficient performance, eliminating issues with critical fastening. Utilising Bluetooth wireless communication to enhance accuracy across the production line these tools are at the forefront of technology.

PISTOL SCREWDRIVERS Torque shut-off

Low Torque, BFT020/021FZ feature low torque fastening applications when precise torque control is required.

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 solderless wiring connections.

Anti Kick Back Head BFT		
453091-4	BFT	Protector D Blue
453092-2	BFT	Protector D Red
453093-0	BFT	Protector D Yellow
453094-8	BFT	Protector D Transparent

- 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

	BFT020FZ	BFT021FZ	BFT040FZ	BFT080FZ	BFT081FZ	BFT122FZ	BFT123FZ
No load speed	540rpm	320rpm	950rpm	450rpm	700rpm	320rpm	390rpm
Torque soft joint	0.5-2.0Nm	0.5-2.0Nm	1.0-3.5Nm	3.0-6.5Nm	3.0-7.5Nm	5.0-10.0Nm	5.0-12.0Nm
Torque hard joint	0.5-2.0Nm	0.5-2.0Nm	1.0-4.0Nm	3.0-8.0Nm	3.0-8.0Nm	5.0-12.0Nm	5.0-12.0Nm
Weight*	1.3kg	1.3kg	1.3kg	1.3kg	1.5kg	1.3kg	1.6kg
Noise Levels	70 db(A)	70 db(A)	70 db(A)	70 db(A)	70 db(A)	70 db(A)	70 db(A)
Voltage	9.6v	9.6v	9.6v	9.6v	12v	9.6v	12v
	*Weight is measur	red with a 2.0Ah batt	ery attached to the to	ool. All models supp	lied as machine only		
Ni-MH battery	•	•	•	•	•	•	•
Li-ion battery							
Power warning lamp	•	•	•	•	•	•	•
LED job light	•	•	•	•	•	•	•
Fastening light	•	•	•	•	•	•	•
Fastening beeper	•	•	•	•	•	•	•
Auto-stop	•	•	•	•	•	•	•
Anti-tamper settings	•	•	•	•	•	•	•
Bluetooth enabled							
Battery power save							
Battery 2.0Ah	193631-3	193631-3	193631-3	193631-3	193345-4	193631-3	193345-4
	BH9020	BH9020	BH9020	BH9020	BH1220	BH9020	BH1220
with power	193531-7	193531-7	193531-7	193531-7		193531-7	
indicator light	BH9020A	BH9020A	BH9020A	BH9020A		BH9020A	
3.3Ah Battery	193636-3	193636-3	193636-3	193636-3	193348-8	193636-3	193348-8
	BH9033	BH9033	BH9033	BH9033	BH1233	BH9033	BH1233
with power	193591-9	193591-9	193591-9	193591-9		193591-9	
indicator light	BH9033A	BH9033A	BH9033A	BH9033A		BH9033A	
Carbon brush	193466-2	193466-2	193466-2	193466-2	193466-2	193466-2	193466-2



• Slim nose piece.

• 1/4" Hex fitting.

turning angles.

for fastening at high



- Torque adjustment · All solderless indicator scale. terminal connections.
- · CPU micro-computer, with overheat and current protection. · Side handle grip available
 - ID plate and unique serial nimber.



- High intensity LED.
- · Soft start 2 finger switch.
- · Forward, reverse and lock switch.
- · Delayed restart.
- Anti-slip grip.



- · Marathon motor AC technology.
- Torque indicator lights
- · Externally replaceable carbon brushes.
- 5 brush changes to an armature life.



- Ni-MH Makstar battery technology.
- · Memory chip records history of usage for use with charger.



BFT123FZ 12v

PISTOL SCREWDRIVERS Torque shut-off

High Speed BFT043/083/125FZ feature high rotational speed for increased productivity and optimum cycle time.

Low Speed BFT043/083/125FZ feature low rotational speed for soft joint applications such as fastening rubber clips, gaskets, hoses etc.

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 solderless wiring connections.

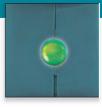
Anti Kick Back Head BFT		
453091-4	BFT	Protector D Blue
453092-2	BFT	Protector D Red
453093-0	BFT	Protector D Yellow
453094-8	BFT	Protector D Transparent

- 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

	BFT043FZ	BFT083FZ	BFT125FZ	BFT042FZ	BFT082FZ	BFT124FZ
No load speed	80rpm	80rpm	150rpm	1200rpm	860rpm	600rpm
Torque soft joint	1.0-4.0Nm	3.0-8.0Nm	5.0-12.0Nm	1.0-3.5Nm	3.0-8.0Nm	5.0-12.0Nm
Torque hard joint	1.0-4.0Nm	3.0-8.0Nm	5.0-12.0Nm	1.0-4.0Nm	3.0-8.0Nm	5.0-12.0Nm
Weight*	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg	1.6kg
Noise Levels	70 db(A)	70 db(A)	70 db(A)	70 db(A)	70 db(A)	70 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
Voltage	14.4v	14.4v	14.4v	12v	14.4v	14.4v
	*Weight is measu	red with a 2.0Ah batt	ery attached to the to	ool. All models supp	lied as machine only	<i>l</i> .
Ni-MH battery				•		
Li-ion battery	•	•	•		•	•
Power warning lamp	•	•	•	•	•	•
LED job light	•	•	•	•	•	•
Fastening light	•	•	•	•	•	•
Fastening beeper	•	•	•	•	•	•
Auto-stop	•	•	•	•	•	•
Anti-tamper	•	•	•	•	•	•
Bluetooth enabled						
Fast speed				•	•	•
Slow speed	•	•	•			
2.0Ah Battery				193345-4 BH1220		
3.0Ah Battery	194065-3 BL1430	194065-3 BL1430	194065-3 BL1430		194065-3 BL1430	194065-3 BL1430
3.3Ah Battery				193348-8 BH1233		
with power indicator light						
Carbon brush	193466-2	193466-2	193466-2	193466-2	Brushless	Brushless









- Torque adjustment indicator scale.
- · Slim nose piece.
- 1/4" Hex fitting.
- Side handle grip available for fastening at high turning angles.
- All solderless terminal connections.
- CPU micro-computer, with overheat and current protection.
- ID plate and unique serial nimber.
- High intensity LED.
- Soft start 2 finger switch.
- Forward, reverse and lock switch.
- · Delayed restart.
- Anti-slip grip.
- Marathon motor AC technology.
- Torque indicator lights
- Externally replaceable carbon brushes.
- 5 brush changes to an armature life.
- Ni-MH Makstar battery technology.
- Memory chip records history of usage for use with charger.



BFT123FZ 12v

PISTOL SCREWDRIVERS Torque shut-off Bluetooth



Specially developed for fastening works on assembly lines with brushless motor technology to provide higher speeds and a more durable, more efficient performance. Bluetooth wireless communication is built in to the units to provide traceability throughout the production line.

These tools also have a disabling function rendering useless when taken off-site. The BFT range have been designed with weight distribution in mind, the tools are perfectly balanced for operator comfort.

- 1/4" hex drive
- High torque accuracy
- · Heavy duty brushless motor
- Blue tooth conectivity
- Anti-tamper torque adjustment
- · Self-testing electronic system
- Auto stop fastening function
- High accuracy clutch (ISO5393)





Torque Tracer

	BFT041RZ	BFT082RZ	BFT124RZ
No load speed	800rpm	860rpm	600rpm
Torque soft joint	1.0-4.0Nm	4.0-8.0Nm	5.0-12.0Nm
Torque hard joint	1.0-4.0Nm	4.0-8.0Nm	5.0-12.0Nm
Weight	1.5kg	1.5kg	1.5kg
Noise Levels	70 db(A)	70 db(A)	70 db(A)
Voltage	14.4v	14.4v	14.4v

*Weight is measured with a 2.0Ah battery attached to the tool. All models supplied as machine only.

Brushless

Brushless

Ni-MH battery			
Li-ion battery	•	•	•
Power warning lamp	•	•	•
LED job light	•	•	•
Fastening light	•	•	•
Fastening beeper	•	•	•
Auto-stop	•	•	•
Anti-tamper settings	•	•	•
Bluetooth enabled	•	•	•
Battery power save	•	•	•
3.0Ah Battery	194065-3	194065-3	194065-3
	BL1430	BL1430	BL1430

Brushless

Part number 194444-5	DESCRIPTION Receiver unit
RCV02	Receiver unit
	Software
	usermanual





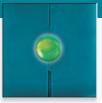
Part number	DESCRIPTION
98L82	RS232 cable
98L81	Power supply unit
98L80	USB to RS232
	converter unit

Carbon brush











- Torque adjustment indicator scale.
- Slim nose piece.
- 1/4" Hex fitting.
- · Anti-kick back.
- · All solderless terminal connections.
- · CPU micro-computer, with overheat and current protection.
- ID plate and unique serial nimber.
- High intensity LED.
- · Soft start 2 finger switch.
- · Forward, reverse and lock switch.
- Delayed restart.
- · Anti-slip grip.
- Brushless motor technology.
- · Red/Green idicator.
- Lithium-ion battery technology.
- Memory chip records history of usage for use with charger.
- · Bluetooth tramsmitter 10 metre range.



BFT124RZ 14.4v





ANGLE SCREWDRIVERS

Specially developed for fastening works on assembly lines with brushless motor technology to provide higher speeds and a more durable, more efficient performance, eliminating issues with critical fastening. Utilising Bluetooth wireless communication to enhance accuracy across the production line these tools are at the forefront of technology.

ANGLE SCREWDRIVERS Torque shut-off up to 20Nm

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.

- 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)

Anti Kick Back Head BFL 200-300-400

195621-2 BFL Fits BFL200FZ 20Nm and below c/w head

	BFL080FZ	BFL081FZ	BFL120FZ	BFL121FZ	BFL200FZ	BFL201FZ
No Load Speed	540rpm	700rpm	250rpm	410rpm	220rpm	360rpm
Torque Soft Joint	2.0-7.5Nm	2.0-7.5Nm	5.0-12.0Nm	5.0-11.5Nm	8.0-18.0Nm	8.0-20.0Nm
Torque Hard Joint	2.0-8.0Nm	2.0-8.0Nm	5.0-12.0Nm	5.0-12.0Nm	8.0-20.0Nm	8.0-20.0Nm
Weight*	1.7kg	2.0kg	1.7kg	2.0kg	2.0kg	1.7kg
Noise Levels	70 db(A)	70 db(A)	70 db(A)	70 db(A)	70 db(A)	70 db(A)
Voltage	9.6v	12v	9.6v	12v	12v	14.4v

*Weight is measured with a 2.0Ah battery attached to the tool. All models supplied as machine only.

Ni-MH battery	•	•	•	•	•	
Li-ion battery						•
Power warning lamp	•	•	•	•	•	•
LED job light	•	•	•	•	•	•
Fastening light	•	•	•	•	•	•
Fastening beeper	•	•	•	•	•	•
Auto-stop	•	•	•	•	•	•
Anti-tamper	•	•	•	•	•	•
2.0Ah Battery	193631-3	193345-4	193631-3	193345-4	193345-4	

2.0Ah Battery	193631-3	193345-4	193631-3	193345-4	193345-4	
	BH9020	BH1220	BH9020	BH1220	BH1220	
with power	193531-7		193531-7			
indicator light	BH9020A		BH9020A			
3.0Ah Battery						194065-3 BL1430
3.3Ah Battery	193636-3 BH9033	193348-8 BH1233	193636-3 BH9033	193348-8 BH1233	193348-8 BH1233	
with power	193591-9		193591-9			
indicator light	BH9033A		BH9033A			
Carbon brush	193466-2	193466-2	193466-2	193466-2	193466-2	Brushless



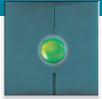
- Torque adjustment indicator scale.
- 3/8" Drive spindle spring pin retainer.
- · Anti-kick back.



- All solderless terminal connections.
- CPU micro-computer, with overheat and current protection.
- ID plate and unique serial number.



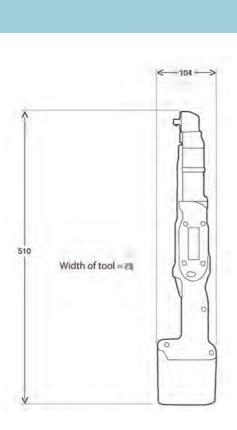
- High intensity LED.
- · Soft start 2 finger switch.
- Forward, reverse and lock switch.
- Delayed restart.
- Anti-slip grip.



- Marathon motor AC technology.
- Red/Green indicator.
- Externally replaceable carbon brushes on 9.6v and 12v models.



- Ni-MH Makstar battery technology.
- Memory chip records history of usage for use with charger.
- Brushless motor BFL300 and BFL400.





BFL121FZ 12v

ANGLE SCREWDRIVERS Torque shut-off up to 40Nm

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.

- 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 molded control circuit
- Light/buzzer indicator for fastening and low battery power
- · Self-testing electronic system
- Impossible to adjust the torque with out the adjustment tool
- Brushless motor

Anti Kick	Back Head	IRFL 3	nn-4nn
AIIII NIUN	Dauk Heat		UU-7UU

195620-4 BFL Fits BFL300-400FZ

	BFL300FZ	BFL400FZ
No Load Speed	400rpm	260rpm
Torque Soft Joint	16.0-30.0Nm	25.0-40.0Nm
Torque Hard Joint	16.0-30.0Nm	25.0-40.0Nm
Weight*	2.3kg	2.4kg
Noise Levels	72 db(A)	73 db(A)
Voltage	14.4v	14.4v

*Weight is measured with a 2.0Ah battery attached to the tool. All models supplied as machine only.

Ni-MH battery	•	•
Li-ion battery		
Power warning lamp	•	•
LED job light	•	•
Fastening light	•	•
Fastening beeper	•	•
Auto-stop	•	•
Anti-tamper settings	•	•
Bluetooth enabled		
Battery power save		

2.7Ah Battery	193992-1	193992-1
·	BH1427	BH1427
3.0Ah Battery	194065-3	194065-3
	BL1430	BL1430
Carbon brush	Brushless	Brushless

Optional Accessarys	BFL300FZ	BFL400FZ
Slow reveise centiol unit	631816-8	631817-6
Paddle switch lever assembley	194008-5	194008-5
lover assembley		





- Torque adjustment indicator scale.
- 3/8" Drive spindle spring pin retainer.
- · Anti-kick back.



- All solderless terminal connections.
- CPU micro-computer, with overheat and current protection.
- ID plate and unique serial number.



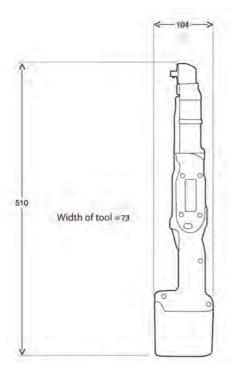
- High intensity LED.
- · Soft start 2 finger switch.
- Forward, reverse and lock switch.
- Delayed restart.
- Anti-slip grip.



- Marathon motor AC technology.
- Red/Green indicator.
- Externally replaceable carbon brushes on 9.6v and 12v models.



- Ni-MH Makstar battery technology.
- Memory chip records history of usage for use with charger.
- Brushless moter BFL300 and BFL400.





BFL400FZ 14.4v

ANGLE SCREWDRIVERS Torque shut-of bluetooth



Specially developed for fastening works on assembly lines with brushless motor technology to provide higher speeds. Bluetooth wireless communication is built in to the units to provide traceability throughout the production line. These tools also have a disabling function rendering useless when taken off site.

- 3/8" square drive
- High torque accuracy ±7%
- · Heavy duty brushless motor
- · Blue-tooth connectivity
- Anti-tamper torque adjustment
- · Self testing electronic system
- Auto-stop fastening function
- High accuracy clutch (ISO5393)
- Torque calculated value
- Angle calculated value



	BFL201RZ	BFL301RZ	BFL402RZ
No Load Speed	360rpm	260rpm	200rpm
Torque Soft Joint	10.0-20.0Nm	16.0-30.0Nm	25.0-40.0Nm
Torque Hard Joint	10.0-20.0Nm	16.0-30.0Nm	25.0-40.0Nm
Weight	1.7kg	1.9kg	2.0kg
Noise Levels	72 db(A)	74 db(A)	72 db(A)
Voltage	14.4v	14.4v	14.4v

*Weight is measured with a 2.0Ah battery attached to the tool. All models supplied as machine only.

Ni-MH battery			
Li-ion battery	•	•	•
Power warning lamp	•	•	•
LED job light	•	•	•
Fastening light	•	•	•
Fastening beeper	•	•	•
Auto-stop	•	•	•
Anti-tamper settings	•	•	•
Bluetooth enabled	•	•	•
Battery power save			
3.0Ah Battery	194065-3	194065-3	194065-3
	BL1430	BL1430	BL1430
Carhon hrush	Brushless	Brushless	Brushless

Part number	DESCRIPTION
194444-5	Receiver unit
	Software
RCV02	Receiver unit
	Software
	usermanual





Part number	DESCRIPTION
98L82	RS232 cable
98L81	Power supply unit
98L80	USB to RS232
	converter unit



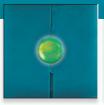
- Torque adjustment indicator scale.
- 3/8" Drive spindle spring pin retainer.
- Anti-kick back.



- All solderless terminal connections.
- CPU micro-computer, with overheat and current protection.
- ID plate and unique serial number.



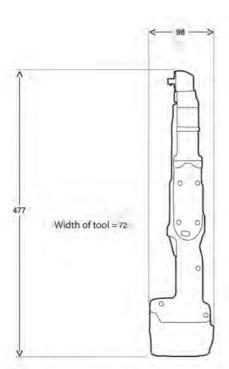
- High intensity LED.
- · Soft start 2 finger switch.
- Forward, reverse and lock switch.
- Delayed restart.
- Anti-slip grip.



- Brushless motor technology.
- Red/Green indicator.



- Lithium-ion battery technology.
- Memory chip records history of usage for use with charger.





BFL402RZ 14.4v

PISTOL IMPACT DRIVERS/WRENCH **Programmable pistol screwdriver**

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.

Batteries BH9020A or BH9033A must be used with BTD042Z and BTD062Z.

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

	BTD042Z	BTD062Z
No Load Speed	0-2,500rpm	0-2,500rpm
Torque	0-40.0Nm	0-65.0Nm
Impact	0-3,500ipm	0-3,000ipm
Machine screws	M4-M8	M4-M8
Bolts	M5-M10	M5-M12
Weight*	1.06kg	1.09kg
Noise Levels	91 db(A)	90 db(A)
Vibration	7.5 m/s ²	9 m/s ²
K value	1.5 m/s ²	1.5 m/s ²
Voltage	9.6v	9.6v

*Weight is measured with a 2.0Ah battery attached to the tool. All BTD models supplied as machine only.

Li-ion battery		
Power warning lamp	•	•
LED job light		
Fastening light	•	•
Fastening beeper		
Auto-stop	•	•
Anti-tamper settings		
Bluetooth enabled		
Battery 2.0Ah with	193631-3	193631-3
(power indicator light A)	BH9020A	BH9020A
Battery 3.3Ah with	193636-3	193636-3
(power indicator light A)	BH9033A	BH9033A
Carbon brush	193466-2	193466-2

Auto-Stop setting for number of impacts







This tool has a convenient auto-stop mechanism that allows you to preset the desired number of impacts in terms of the application. The tool then stops automatically after reaching the preset number of impacts.

- Pulling the switch trigger, insert the battery cartridge. Keep on pulling the switch trigger after inserting the battery cartridge. (The indicating lamp on the back of the tool will flash about 10 times, then the lamp will keep lighting up lit.)
- 2. Hit the tool housing around the grip once with a screwdriver etc. (The indicating lamp will go out.)
- 3. Release the switch trigger. (The indicating lamp will keep lighting up lit for 0.5 seconds, then the lamp will go out.)
- 4. Hit the tool housing preset number of first digit except 0. (The indicating lamp will light up in green color. Then, the light goes out.)

Example: When the preset number is 12, hit the tool housing once.

5. Pull the switch trigger, then release it.

6. Hit the tool housing preset number of second digit except 0. (—The indicating lamp will light up in red color. Then, the light goes out.)

Example: When the preset number is 12, hit the tool housing two times.

- 7. Pull the switch trigger, then release the switch trigger. (The indicating lamp will light up.)
- 8. Remove the battery cartridge. (Presetting has finished. The indicating lamp will go out.)

Ni-MH battery









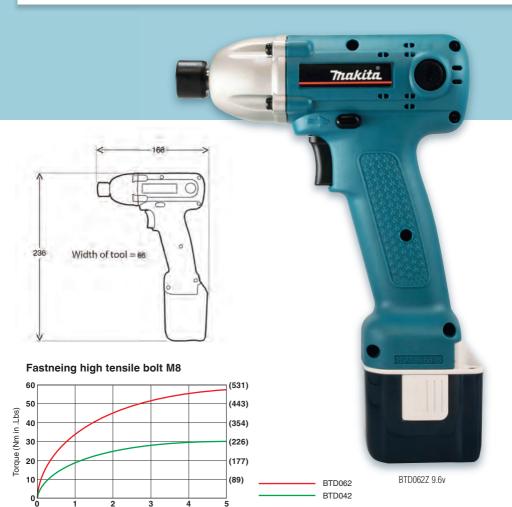


• 1/4" Hex Drive.

- All solderless terminal connections.
- CPU micro-computer, with overheat and current protection.
- Rubber protectors in different colours are available.

Time (Sec.)

- Soft start switch.
- Forward, reverse and lock switch.
- Anti-slip grip.
- Electric brake.
- Marathon motor AC technology.
- · Red/Green idicator.
- Externally replaceable carbon brushes.
- Ni-MH Makstar battery technology.
- Memory chip records history of usage for use with charger.



PISTOL IMPACT DRIVERS Pistol screwdriver

Specially developed for fastening works on assembly lines. Highspeed 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 solder less wiring connections.

- 1/4" hex drive
- Torque cntrolled
- Heavy duty motor
- · Rare earth magnet
- Programmable impact
- · Fully moulded control circuit
- Light indicator shows complete or incomplete fastening
- RFE3 models comes with 2 x batteries, charger, belt clip and carry case.
- Z models are body only



	TD020DSE	TD090DWE	BTD133RFE	BTD134RFE
	15020502	TD090DZ	BTD133Z	BTD134Z
No Load Speed	2,300rpm	0-2,400rpm	0-1,100/0-1,800/0-2,400rpm	0-2,400rpm
Torque	20.0Nm	0-90.0Nm	0-160.0Nm	0-155.0Nm
Impact	3,000ipm	0-3,500ipm	0-1,100/0-2,600/0-3,200ipm	0-3,200ipm
Machine screws	M3-M8	M4-M8	M4-M8	M4-M8
Bolts	M3-M8	M5-M12	M5-M14	M5-M14
Weight*	0.53kg	0.92kg	1.4kg	1.4kg
Noise power Level	93 db(A)	103 db(A)	103 db(A)	103 db(A)
Noise pressure Level	82 db(A)	92 db(A)	92 db(A)	92 db(A)
Vibration	6.5 m/s ²	10 m/s ²	13 m/s ²	13 m/s ²
K value	1.5	1.5	2.0	1.5
Voltage	7.2v	10.8v	14.4v	14.4v
Ni-MH battery				
Li-ion battery	•	•	•	•
Power warning lamp				
LED job light	•	•	•	•
Varible speed trigger		•	•	•
Eletronic brake	•	•	•	•
Forward/reverse rotation	•	•	•	•
Driving Shank	1/4" Hex	1/4" Hex	1/4" Hex	1/4" Hex
d OAL Dallam.	104055 4			
1.0Ah Battery	194355-4 BL0710			
1.3Ah Battery		19550-6 BL1013		
3.0Ah Battery			194065-3 BL1430	194065-3 BL1430
Carbon brush	N/A	N/A	Brushless	194427-5



• 1/4" Hex Drive



- All solderless terminal connections.
- CPU micro-computer, with overheat and current protection.
- Rubber protectors in different colours are available.



- Forward, reverse and lock switch.
- Anti slip grip.
- · Ergonomically designed.
- · Variable speed switch.
- Electronic brake.



Brushless motor technology.

- Lithium-ion battery technology.
- Memory chip records history of usage for use with charger.
- Belt clip.
- No memory effect.
- 22 minute charge.



BTD133RFE 14.4v

PISTOL IMPACT DRIVERS Pistol screwdriver

Specially developed for fastening works on assembly lines. Highspeed 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.

- 1/4" hex drive
- Torque controlled
- Heavy duty motor
- · Rare earth magnet
- Programmable impact
- · Fully-molded control circuit
- Light indicator shows complete or incomplete fastening
- RFE models comes with
 - 2 x batteries, charger, belt clip and carry case.
- Z models are body only



	BTD140RFE	BTD145RFE	BTD146RFE
	BTD140RFE3	BTD145RFE3	BTD146Z
	BTD140Z	BTD145Z	
No Load Speed	0-2,300rpm	0-1,300/0-2,000/0-3,400rpm	0-2,300rpm
Torque	0-145.0Nm	0-160.0Nm	0-160.0Nm
Impact ipm	0-3,200ipm	0-1,300/0-2,800/0-3,400ipm	0-3,200ipm
Machine screws	M4-M8	M4-M8	M4-M8
Bolts	M5-M14	M5-M14	M5-M14
Weight*	1.3kg	1.3kg	1.5kg
Noise power Level	101 db(A)	104 db(A)	104 db(A)
Noise pressure Level	90 db(A)	93 db(A)	93 db(A)
Vibration	17 m/s ²	12 m/s ²	15 m/s ²
K value	1.5	2.0	2.0
Voltage	18v	18v	18v
Ni-MH battery			
Li-ion battery	•	•	•
Power warning lamp			
LED job light	•	•	•
Varible speed trigger	•	•	•
Eletronic brake	•	•	•
Forward/reverse rotation	•	•	•
Driving Shank	1/4" Hex	1/4" Hex	1/4" Hex
3.0Ah Battery	194204-5	194204-5	194204-5
	BL1830	BL1830	BL1830
Carbon brush	194427-5	Brushless	194427-5



- 3/8" Drive spindle spring pin retainer.
- 1/4" Hex Drive



- All solderless terminal connections.
- CPU micro-computer, with overheat and current protection.
- Rubber protectors in different colours are available.



- Forward, reverse and lock switch.
- Anti-slip grip.
- Ergonomically designed.
- Variable speed switch.
- Electronic brake.



Brushless motor technology.



- Lithium-ion battery technology.
- Memory chip records history of usage for use with charger.
- Belt clip.
- No memory effect.
- 22 minute charge.



BTD145RFE 18v

PISTOL IMPACT WRENCH Pistol impact wrench

The BTW450 is a powerful but compact and lightweight cordless impact wrench powered by a

18v 3.0Ah Lithium-ion battery featuring rubber joint construction for prevention of battery failure.

Highest in its class for fastening torque 440Nm (325 ft/lbs) Lightest in its class 3.4kg (7.5lbs).

- 1/2" square drive
- Same fasterning torque forwards and reverse
- Lightest in its class 3.4kg
- Powerfull DC moter with replaceable carbon brushes
- Compact design 266mm long
- High power to weight ratio 440Nm
- Forward and reverse rocker switch
- · Compact high capacity batteries
- 22 minute charge time
- Torque at 6 seconds after seating
- RFE models comes with 2 x batteries, charger, belt clip and carry case.
- · Z models are body only



	TW100D	BTW152RFE	BTW251RFE BTW251Z	BTW450RFE BTW450Z
No Load Speed	0-2,300rpm	0-2,400rpm	0-2,100rpm	1,600rpm
Torque	110Nm	200Nm	230Nm	440Nm
Impact	0-3,000ipm	0-3,200ipm	0-3,200ipm	2,400imp
Bolts	M8-M12	M8-M16		
Weight*	0.95kg	1.5kg	1.5kg	3.4kg
Noise power Level	99 db(A)	102 db(A)	101 db(A)	105 db(A)
Noise pressure Level	88 db(A)	91 db(A)	90 db(A)	94 db(A)
Vibration	8 m/s ²	8 m/s ²	9 m/s ²	19 m/s ²
K value	1.5	1.5	1.5	1.5
Voltage	10.8v	14.4v	18v	18v
Ni-MH battery				
Li-ion battery	•	•	•	•
Power warning lamp				
LED job light	•	•	•	•
Varible speed trigger	•	•	•	
Eletronic brake	•	•	•	
Forward/reverse rotation	•	•	•	•
Driving Shank	3/8"Square	1/2"Square	1/2"Square	1/2"Square
1.3Ah Battery	19550-6 BL1013			
3.0Ah Battery	DETOTS	194065-3		
3.0All Dallery		BL1430		
3.0Ah Battery			194204-5 BL1830	194204-5 BL1830
Carbon brush	N/A	194427-5	194427-5	194435-6





- Hammer case cover.
- LED job light.



 All solderless terminal connections.

• Compact design.



- Soft start switch.
- Forward, reverse and lock switch.
- Anti slip grip.
- Ergonomically designed.
- · Large rocker switch.



- Marathon motor AC technology.
- Externally replaceable carbon brushes.
- Vibration absorbing cushion rubbers.



- Lithium-ion battery technology.
- Memory chip records history of usage for use with charger.
- · Belt clip.
- No memory effect.
- 22 minute charge.



BTW450RFE 18v

ANGLE IMPACT DRIVERS **Angle driver**

High fastening performance, compact angle-head, features soft grip and LED light.

Lightweight high capacity batteries.

- 1/4" hex drive pull forward collar
- Optional 3/8" square drive
- Same fasterning torque forwards and reverse
- Heavy duty motor
- · Rare earth magnet
- Slim body and grip for operator comfort
- Angle-head can be rotated
- LED job light
- 22 minute charge time
- RFE models comes with 2 x batteries, charger, belt clip and carry case.
- Z models are body only



	BTL060REF	BTL061RFE
	BTL060Z	BTL061Z
No Load Speed	0-2,000rpm	0-2,000rpm
Torque	60Nm	60Nm
Impact	0-3,000ipm	0-3,000ipm
Machine screws	M4-M8	M4-M8
Standed bolts	M4-M8	M4-M12
High tensile bolts	M4-M8	M4-M8
Weight	1.7kg	1.5kg
Noise power Level	102 db(A)	102 db(A)
Noise pressure Level	91 db(A)	91 db(A)
Vibration	9 m/s ²	9 m/s ²
K value	1.5	1.5
Voltage	14.4v	18v

Optional Accessory Part number	DESCRIPTION
154725-9*	Spidle A - 9.5mm square (3/8)

*Weight is measured with a 3.0Ah battery attached to the tool. All models supplied as machine only.

Li-ion battery	•	•
LED job light	•	•
Varible speed trigger	•	•
Eletronic brake	•	•
Forwar/reverse rotation	•	•
3.0Ah Battery	194065-3 BL1430	
3.0Ah Battery		194204-5 BL1830
Carbon brush	N/A	N/A



- 1/4" Hex Drive.
- LED job light.
- Phosphorescent bumper.
- · Compact angle-head.
- · Head can be rotated.



- All solderless terminal connections.
- Electronic brake.



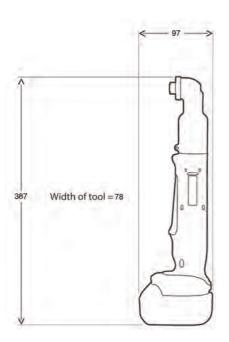
- Paddle switch for operator comfort.
- Anti-slip grip.
- Variable speed centrol switch.
- Ergonomically designed handle.



- Foward, reverse and lock switch.
- Slim design more control.
- prevents hand fatigue.



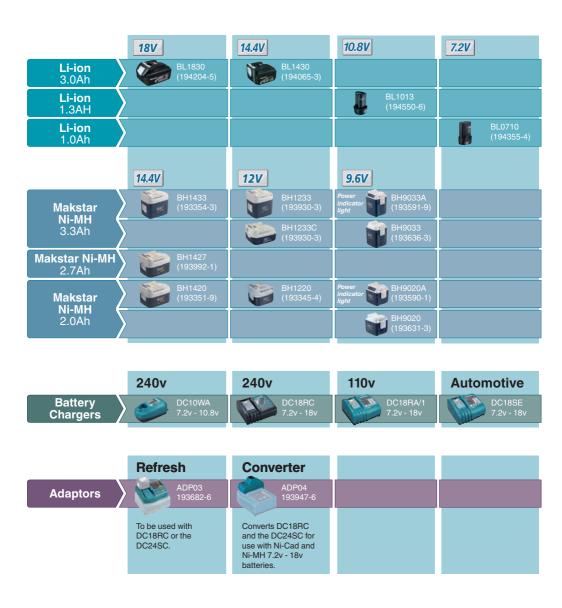
- Lithium-ion battery technology.
- Memory chip records history of usage for use with charger.
- · Belt clip.
- No memory effect.
- 22 minute charge.





BTL061RFE 18v

BATTERIES Batterys, Chargers and Adaptors



Battery indicater light

BH9020A and BH9033A batteries are fitted with power indicator lamps. When the battery is in good condition the '(C)' lamp is on, if the battery has been over discharged or stored for long periods of time this light will blink. Sometimes the actual remaining battery fuel is diffrent from that displayed by the battery. It is recommended to refresh charge the batteries once a week to prevent this happening.



Battery refreshing adaptor (ADP03) refresh times

() 2	5 5	0 7	'5 10	00 12	25 1	50 17	75 20	00 22	25 2	50	minutes	
BH9020	30				140							360	
BH9033		50							230				600
BH1220	30				140							360	
BH1233		50							230				600
BH1427	40						190					360	
	NOF	RMAL	AUTO	MATIC C	HARGE	CO	NDITIONE	D REFR	ESH CH	ARGING	i		

Battery checker (194088-1)

MAKSTAR Battery Checker detects the number of charges, and diagnoses the condition of MAKSTAR Ni-MH/ Li-ion batteries. This equipment reads the history of the battery from the built-in CPU, finds how the operator treated the battery, and gives the right advice to MAXIMIZE THE LIFE OF THE BATTERY.

It can be also used for simple-checking conventional Makita batteries, using the adapter which is included with the Battery Checker. Battery Checker works with Makita Makstar charger DC24SA, DC24SC and a PC. PC is not included in the set.



ESSENTIAL EXTRAS General accessories and protectors

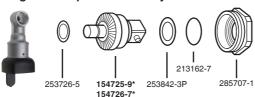


PART NUMBER	TOOL MODEL NUMBER	TOOL TYPE
193874-7	Attachment for a side handle	BFT and BFL machines
273443-1	Side handle	BFT and BFL machines
765025-8	Torque adjuster tool	BFT and BFL machines
000000-0	Paddle switch	BFL080F, 081F, 120F, 121F, 200F, 300F, 400F
194038-6	Angle head	BFT and BFL machines
154725-9*	Spidle A - 9.5mm square (3/8)	BFT and BFL machines
154726-7*	Spidle B - 6.35mm E-form	BFT and BFL machines
154727-5*	Spidle C - 6.35mm C-form	BFT and BFL machines
154730-6	Spidle F - 6.35mm 1/4 hex sq	BFT and BFL machines
195231-5	BFT Spindle M Type	BFT Anti kick back heads 1/4 hex E-form
195621-2	BF200FZ and below c/w head	BFL Anti kick back heads
195620-4	BFT300-400FZ	BFL Anti kick back heads



TOOL PROTECTOR			
PART NUMBER	TOOL MODEL NUMBER	COLOUR	TOOL TYPE
450331-1	BFT range	Clear	9.6v-12v Screwdriver
418423-2	BFT040FZ	Yellow	9.6v Screwdriver
418424-0	BFT080FZ	Blue	9.6v Screwdriver
418425-8	BFT122FZ / BFT123FZ	Red	9.6v-12v Screwdriver
417349-5	BTD042Z / BTD062Z	Clear	9.6v Impact driver
417835-6	BTD042Z / BTD062Z	Blue	9.6v Impact driver
417834-8	BTD042Z / BTD062Z	Red	9.6v Impact driver
418032-7	BFL080FZ	Yellow	9.6v Angle screwdriver
418064-4	BFL120FZ / BFL123FZ	Blue	9.6v Angle screwdriver
418065-2	BFL200FZ	Red	9.6v Angle screwdriver
418743-4	BFL300FZ Body	Blue	14.4v Angle screwdriver
418744-2	BFL400FZ Body	Red	14.4v Angle screwdriver
418746-8	BFL300FZ Head	Blue	14.4v Angle screwdriver
418750-7	BFL400FZ Head	Red	14.4v Angle screwdriver
A-51253	BFT anti kick back head range	Yellow	9.6v-12v Screwdriver
A-51269	BFT anti kick back head range	Blue	9.6v-12v Screwdriver
A-51275	BFT anti kick back head range	Red	9.6v-12v Screwdriver
A-51281	BFT anti kick back head range	Clear	9.6v-12v Screwdriver
453091-4	BFL anti kick back head range	Blue	9.6v-12v Angle screwdriver
453092-2	BFL anti kick back head range	Red	9.6v-12v Angle screwdriver
453093-0	BFL anti kick back head range	Yellow	9.6v-12v Angle screwdriver
453094-8	BFL anti kick back head range	CLEAR	9.6v-12v Angle screwdriver

Angle head spindle assembly



154727-5*

The angle-head is designed to adjust the screwdriver head in 90° increments. The head fits all BFT screwdrivers and BFL angle machines up to 20 Nm.



PART NUMBER	INDIVIDUAL PART NUMBER	DESCRIPTION
194444-5		Receiver unit
		Software
RCV02		Receiver unit
		Software
		usermanual
98L82		RS232 cable
98L81		Power supply unit
98L80		USB to RS232 converter unit



Torque Tracer

PART NUMBER	IMAGE	PART NUMBER	IMAGE
P-53970 P-71825 (BLUE) Quick release belt automotive	Trakila	P-54209 P-79821 (BLUE) Pouch 1 pocket Nissan	
P-53992 P-79815 (BLUE) Drill holster right hand		P-63719 P-79837 (BLUE) Pouch 2 pocket Nissan	
P-56954 Drill holster left hand		P-54031 2 pocket fixing pouch automotive	
P-71679 TD020D pouch (min order 10 units)		P-54025 3 pocket fixing pouch automotive	
P-79186 BTD042Z and BTD062Z Impact driver holster automotive			

Dealer stamp



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