



PRODUCTION SOLUTIONS

UNPARALLELED  
ACCURACY



**FEEL** | innovation

WIRELESS TRACEABILITY

*Torque Tracer*



[makitatools.com](http://makitatools.com)

Makita  
14.4V



# WHY MAKITA CORDLESS?

## Torque Tracer Series



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## Torque Control Screwdrivers



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## Accessories

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### • INNOVATIVE CORDLESS TECHNOLOGY •

Makita designs and manufactures innovative cordless tools utilizing the latest advanced technology that allows professionals the ability to use cordless tools on tasks previously thought to be impossible. Our goal in designing manufacturing & assembly cordless tools is to break away from the historical method of costly air hose operation and allow the operator freedom with a powerful, accurate and ergonomic solution.

Makita cordless tools are steadily emerging as the fastening system of choice within the Assembly and Manufacturing industries. While manufacturing processes were once dominated by air tools, manufacturers are recognizing the many advantages of using Makita cordless tools, such as, reduced energy costs, more freedom and increased safety at the workplace. To meet the needs of today's manufacturers, Makita has developed a full range of assembly and manufacturing cordless power tools that are designed for precise torque accuracy. Makita cordless tools are your cost saving solutions.

Makita's launch of the Torque-Tracer wireless data communication tools add additional value within the manufacturing environment through providing features with improved Quality Assurance methods. Torque-Tracer's ability to capture fastening characteristics adds a traceability and communicate component to quality management with subsequent gains in productivity.

### • REDUCED ENERGY COSTS •

- **Less Energy Consumption** needed to power cordless tools than to power air tools
- **Extreme Energy Savings** by eliminating air line and air tool leakage
- **Higher Quality Control** by reducing damage to manufactured products often caused by hoses and cords
- **Reduced Operating Costs** and down time by eliminating oilers and oil maintenance
- **Reduced Maintenance Costs** by minimizing down time to repair damaged products

### • MORE FREEDOM •

- **More Flexibility** to roam from one workspace to the next
- **Greater Access and Maneuverability** in confined workspaces and inside closed compartments
- **Increased Efficiency** with the ability to interchange tools from one application to the next
- **Easier to Reposition Fastening System** when assembly lines need to be rerouted, expanded or eliminated
- **Quicker Recoveries** from power interruptions

### • SAFER WORKPLACE •

- **Reduced Hazards** caused by air hoses laying across floors or hanging from ceiling
- **Lighter Weight with Ergonomic Design** for operator control
- **Lower Vibration and Noise** for operator comfort
- **Environmentally Friendly** low toxicity battery platforms



# WHY MAKITA CORDLESS?

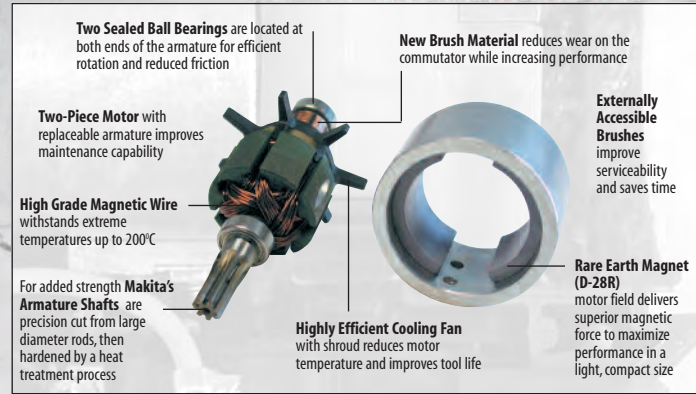


## ADVANCED MOTOR TECHNOLOGIES



Makita has been designing and manufacturing the highest quality motor in the industrial power tool industry for nearly 90 years. Our high performance motors last longer and are more efficient than competing motors because we utilize the latest technology and the best raw materials. Makita DC motors have the following characteristics that prove to set the standard for quality, reliability and performance:

- **Exclusive Externally Accessible Brushes** extend the life of the motor by up to five times by allowing for quick and easy servicing
- **Newly Developed Brush Material** is commutator friendly for reduced sparks, allowing increased motor performance and reduced wear on the commutator
- **Thicker Armature Shaft** will handle greater torque for heavy duty applications
- **More Armature Poles** to create a stronger electrical current and generate more power
- **Dual Ball Bearings** creates less friction and thus a smoother running motor than competitive motors that have one bearing and one bushing
- **Larger Fan** for a cooler running motor and longer life out of the motor
- **Strategically Located Heat Sink** in the cooling path of the motor to dissipate heat away from the switch
- **Thicker Gauge Lead Wires** than the competition for more efficient current flow
- **Motor Design** - Two-piece motor offers easy serviceability while delivering extreme performance



## TORQUE CONVERSION TABLE

[in.lbs.] → [N•m]

in.lbs.	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0	0.00	0.01	0.02	0.03	0.05	0.06	0.07	0.08	0.09	0.10
1	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21
2	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.31	0.32	0.33
3	0.34	0.35	0.36	0.37	0.38	0.40	0.41	0.42	0.43	0.44
4	0.45	0.46	0.47	0.49	0.50	0.51	0.52	0.53	0.54	0.55
5	0.56	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.66	0.67
6	0.68	0.69	0.70	0.71	0.72	0.73	0.75	0.76	0.77	0.78
7	0.79	0.80	0.81	0.82	0.84	0.85	0.86	0.87	0.88	0.89
8	0.90	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.01
9	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.10	1.11	1.12

[N•m]

in.lbs.	0	1	2	3	4	5	6	7	8	9
10	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1
20	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.1	3.2	3.3
30	3.4	3.5	3.6	3.7	3.8	4.0	4.1	4.2	4.3	4.4
40	4.5	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.4	5.5
50	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.6	6.7
60	6.8	6.9	7.0	7.1	7.2	7.3	7.5	7.6	7.7	7.8
70	7.9	8.0	8.1	8.2	8.4	8.5	8.6	8.7	8.8	8.9
80	9.0	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.1
90	10.2	10.3	10.4	10.5	10.6	10.7	10.8	11.0	11.1	11.2

[N•m]

in.lbs.	0	10	20	30	40	50	60	70	80	90
100	11.3	12.4	13.6	14.7	15.8	16.9	18.1	19.2	20.3	21.5
200	22.6	23.7	24.9	26.0	27.1	28.2	29.4	30.5	31.6	32.8
300	33.9	35.0	36.2	37.3	38.4	39.5	40.7	41.8	42.9	44.1
400	45.2	46.3	47.5	48.6	49.7	50.8	52.0	53.1	54.2	55.4
500	56.5	57.6	58.8	59.9	61.0	62.1	63.3	64.4	65.5	66.7
600	67.8	68.9	70.1	71.2	72.3	73.4	74.6	75.7	76.8	78.0
700	79.1	80.2	81.4	82.5	83.6	84.7	85.9	87.0	88.1	89.3
800	90.4	91.5	92.6	93.8	94.9	96.0	97.2	98.3	99.4	100.6
900	101.7	102.8	103.9	105.1	106.2	107.3	108.5	109.6	110.7	111.9

[N•m]

in.lbs.	0	100	200	300	400	500	600	700	800	900
1,000	113	124	136	147	158	169	181	192	203	215
2,000	226	237	249	260	271	282	294	305	316	328
3,000	339	350	362	373	384	395	407	418	429	441
4,000	452	463	475	486	497	508	520	531	542	554
5,000	565	576	588	599	610	621	633	644	655	667
6,000	678	689	701	712	723	734	746	757	768	780
7,000	791	802	814	825	836	847	859	870	881	893
8,000	904	915	926	938	949	960	972	983	994	1,010
9,000	1,020	1,030	1,040	1,050	1,060	1,070	1,090	1,100	1,110	1,120

[N•m]

[N•m] → [in.lbs.]

N•m	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0	0.00	0.89	1.77	2.66	3.54	4.43	5.31	6.20	7.08	7.97
1	8.85	9.74	10.6	11.5	12.4	13.3	14.2	15.0	15.9	16.8
2	17.7	18.6	19.5	20.4	21.2	22.1	23.0	23.9	24.8	25.7
3	26.6	27.4	28.3	29.2	30.1	31.0	31.9	32.8	33.6	34.5
4	35.4	36.3	37.2	38.1	39.0	39.8	40.7	41.6	42.5	43.4
5	44.3	45.1	46.0	46.9	47.8	48.7	49.6	50.5	51.3	52.2
6	53.1	54.0	54.9	55.8	56.7	57.5	58.4	59.3	60.2	61.1
7	62.0	62.9	63.7	64.6	65.5	66.4	67.3	68.2	69.0	69.9
8	70.8	71.7	72.6	73.5	74.4	75.2	76.1	77.0	77.9	78.8
9	79.7	80.6	81.4	82.3	83.2	84.1	85.0	85.9	86.8	87.6

[in.lbs.]

N•m	0	1	2	3	4	5	6	7	8	9
10	89	97	106	115	124	133	142	150	159	168
20	177	186	195	204	212	221	230	239	248	257
30	266	274	283	292	301	310	319	328	336	345
40	354	363	372	381	390	398	407	416	425	434
50	443	451	460	469	478	487	496	505	513	522
60	531	540	549	558	567	575	584	593	602	611
70	620	629	637	646	655	664	673	682	690	699
80	708	717	726	735	744	752	761	770	779	788
90	797	806	814	823	832	841	850	859	868	876

[in.lbs.]

N•m	0	10	20	30	40	50	60	70	80	90
100	885	974	1,060	1,150	1,240	1,330	1,420	1,510	1,590	1,680
200	1,770	1,860	1,950	2,040	2,130	2,210	2,300	2,390	2,480	2,570
300	2,660	2,740	2,830	2,920	3,010	3,100	3,190	3,280	3,360	3,450
400	3,540	3,630	3,720	3,810	3,900	3,980	4,070	4,160	4,250	4,340
500	4,430	4,520	4,600	4,690	4,780	4,870	4,960	5,050	5,130	5,220
600	5,310	5,400	5,490	5,580	5,670	5,750	5,840	5,930	6,020	6,110
700	6,200	6,290	6,370	6,460	6,550	6,640	6,730	6,820	6,910	6,990
800	7,080	7,170	7,260	7,350	7,440	7,520	7,610	7,700	7,790	7,880
900	7,970	8,060	8,140	8,230	8,320	8,410	8,500	8,590	8,680	8,760

[in.lbs.]

### Conversion Formulas

$$1 \text{ kgf} = 2.205 \text{ lbs.} \quad 1 \text{ N} = 0.101972 \text{ kg} \quad 1 \text{ m} = 39.37 \text{ in.}$$

$$A \text{ N}\cdot\text{m} = A \times 8.8523 \text{ in}\cdot\text{lb} \quad \rightarrow \quad 1 \text{ N}\cdot\text{m} = 8.8523 \text{ in}\cdot\text{lbs.}$$

$$B \text{ in}\cdot\text{lbs.} = B \times 0.1130 \text{ N}\cdot\text{m} \quad \rightarrow \quad 1 \text{ in}\cdot\text{lbs.} = 0.1130 \text{ N}\cdot\text{m}$$

$$C \text{ ft}\cdot\text{lbs.} = \frac{C \text{ in}\cdot\text{lbs.}}{12} \quad \rightarrow \quad C \text{ in}\cdot\text{lbs.} = C \text{ ft}\cdot\text{lbs.} \times 12$$





# TORQUE-TRACER



Built-in L.E.D. Lamps

Auto-Stop Fastening Functioning

"Quick Change" 1/4" Hex Shank Chuck

Long-Life Clutch for High Repeatability

Auto-Stop Fastening Functioning

Makita-Built Brushless DC Motor

Built-in L.E.D. Lamps

Slim-Line Anti-Slip Dimpled Grip

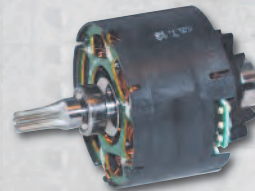
L.E.D. Operator Signal and Audible Alarm

Low Voltage Shut Off Sensor



## SMART TOOLS PROVIDING QUALITY ASSURANCES VIA WIRELESS COMMUNICATION

- Identifies multiple fastening characteristics for each rundown
- Flexible systems conform to a broad variety of environments
- Maintains cordless freedom of operator benefits while improving quality assurance best practices
  - Provides an energy efficient alternative to pneumatic platforms involving verifiers/qualifiers
  - Adds traceability measures in environments wanting cordless flexibility and safety
  - An alternative to expensive DC electric tool platforms
- Uses Bluetooth frequency spectrum and adaptive frequency hopping to assure an interference-free environment



### BRUSHLESS MOTOR

Makita-built motor technologies. Provide higher speeds and advanced monitoring.



### LITHIUM-ION BATTERY

High productivity with reduced weight. Very low self-discharge rates.



## TORQUE-TRACER WIRELESS COMMUNICATION TOOLING



**BFT041Z (1-4 N-m)**



**BFT08ZRZ (4-8 N-m)**



**BFT124RZ (6-12 N-m)**



**BFL201RZ (10-20 N-m)**



**BFL301RZ (16-30 N-m)**



**BFL402RZ (25-40 N-m)**

Voltage	14.4V	14.4V	14.4V	14.4V	14.4V	14.4V
Capacities	1/4" Hex Shank	1/4" Hex Shank	1/4" Hex Shank	3/8" Square	3/8" Square	3/8" Square
Fastening Torque:	1-4(8.9-35.4)	4-8(35.4-70.8)	6-12(53.1-106)	10-20(88.5-177)	16-30(142-266)	25-40(221-354)
No Load Speed (RPM)	800	860	600	360	260	200
Length	7-1/2"	7-1/2"	7-1/2"	16-7/8"	18-3/4"	18-3/4"
Height (w/Battery)	10-1/2"	10-1/2"	10-1/2"	3-7/8"	3-7/8"	3-7/8"
Width	2-13/16"	2-13/16"	2-13/16"	2-13/16"	2-13/16"	2-13/16"
Weight	3.3 lbs.	3.3 lbs.	3.3 lbs.	38 lbs.	4.4 lbs.	4.4 lbs.
Battery	BL1430	BL1430	BL1430	BL1430	BL1430	BL1430

## WIRELESS DATA COMMUNICATION

- Best-in-class engineering
- Wireless communication with PLC or directly through your personal computer
- Extreme accuracy and long life
- Traceability through communication
- Confirmation of individual parameter
- Low voltage shut-off sensor



### TOOL RECOGNITION

- Fastening Torque Values
- Fastening Angle Values
- Rundown Rotations
- Tool ID Recognition
- Time/Date Snap
- OK-NOK Parameter Achievement
- Batch Achievement

### PROGRAMMING INTERACTIVITY

- Torque Value Tolerance Range
- Angle Value Tolerance Range
- Rundown Rotation Min/Max Settings
- Tool Lock Down Mode
- Tool Brake Option
- Soft Start Adjustment
- Calibration Ability
- Batch Management (PLC-Based)
- Log All Data From Tool Recognition





# PRECISE CONTROL SCREWDRIVERS



**Higher Torque Accuracy**  
+/- 7% at Cm ≥ 1.67

**Rubber Chuck Cover**  
to protect the workpiece

**"Quick Change"  
1/4" Hex  
Shank Chuck**

**Built-in L.E.D. Lamps**  
activate when trigger is  
pulled for low light conditions

**Conveniently Located  
Forward/Reverse Switch**

**Large On/Off Switch**  
Equipped with a Delayed  
Re-Start

**Nut and Bolt Construction**  
allows repeat disassembly,  
preventing damage to the housing



**Auto Battery Shutoff**  
Ensures consistent  
fastening torque

**User Friendly Electronic Controls**  
Soft Start to suppress reaction and allow for  
smooth fastening

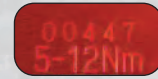
One-second restart delay minimizes the  
potential for operator double-hits

Delayed restarter controls the motor so that  
it does not start until one second passes  
after a screw has been driven; the motor  
does not start even if switch trigger is pulled

Reduces deviation from pre-set fastening  
torque caused by unintentional  
over-tightening

**Torque Set Window**  
allows the operator  
to view the desired  
torque setting

**Smooth Shut-Off Operation**  
Once preset torque is achieved,  
the clutch activates automatically  
halting applied torque



**Color Coded  
Identification Plate**  
for easy tool and  
application identification

**Externally Accessible  
Brushes** allow for easy  
service replacement and  
extended motor life

**Two-Piece D-28R Motor**  
with replaceable  
armature and powerful  
rare earth magnet



**Indicator Lamp &  
Audible Signal**  
provides operator  
immediate feedback on  
fastening achievement

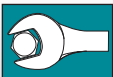
**Anti-Slip Dimpled Grip**  
provides comfort and  
operator control

**Fuel Gauge Lamp**  
indicates percentage of  
remaining battery fuel



**Utilizing ISO5393 Standards**  
models BFT040FZ, BFT080FZ,  
BFT122FZ & BFT123FZ provide  
a high machine capability (Cm)

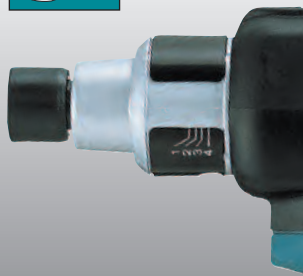
## Model BFT122FZ



### REPETITIVE ACCURACY

#### Torque Accuracy

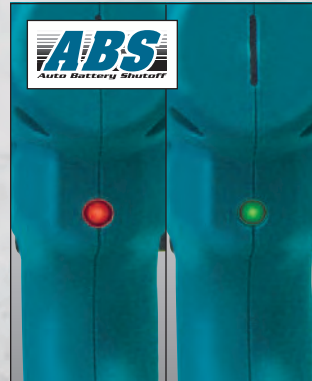
- Long-life clutch provides consistent operation within +/-10% of mean torque with real-world repeatability consistencies within +/-3%.
- User-certified to within +/- 5% of mean torque
- Cm values of well over 1.67 (+/- 3 sigma)



### SMART SYSTEM

#### Auto Battery Shutoff

- Shuts off the tool when battery capacity is less than 5%
  - Ensures consistent fastening torque
- #### Indication Lamp and Audible Alert
- Precision sensor indicates fastening sufficiency and battery power conditions with light and/or audible alert



# PRECISE CONTROL SCREWDRIVERS



## PRECISE TORQUE CONTROL SCREWDRIVERS

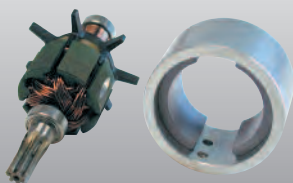
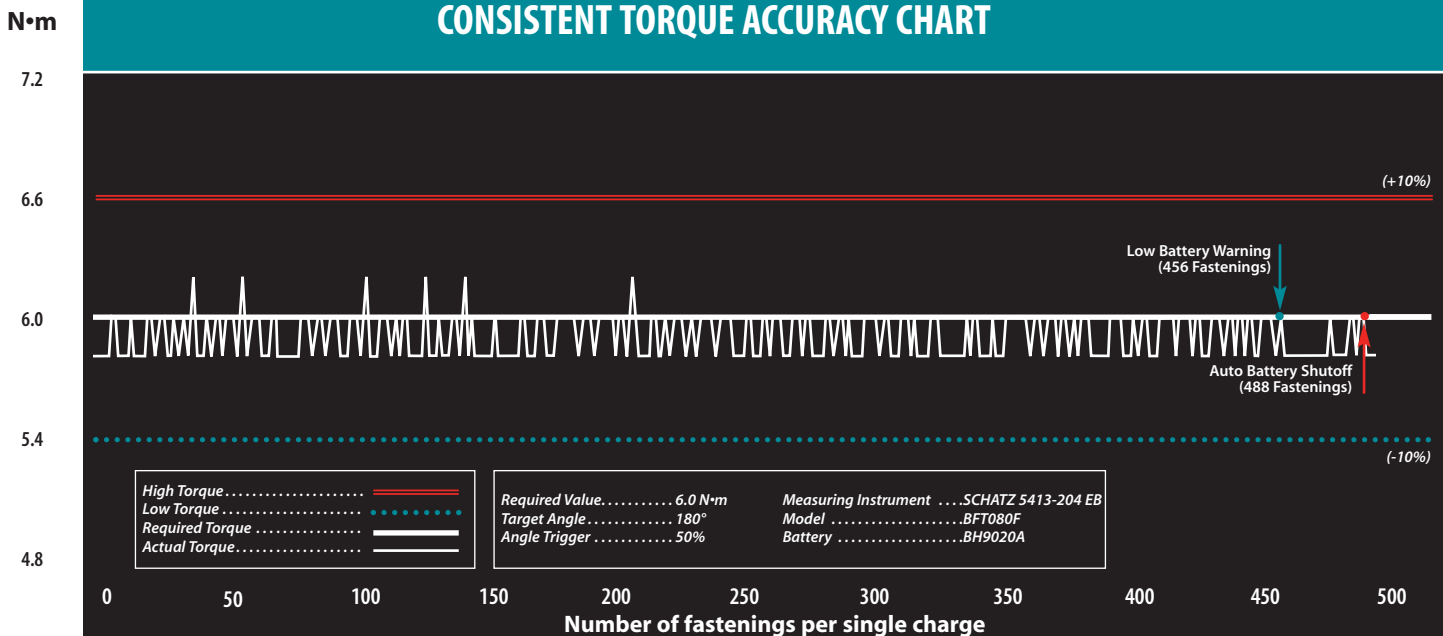


**BFT020FZ (2.0 N·m)**    **BFT040FZ (3.5 N·m)**    **BFT080FZ (6.5 N·m)**    **BFT122FZ (10 N·m)**    **BFT081FZ (8 N·m)**    **BFT123FZ (12 N·m)**    **BFT083FZ (12 N·m)**    **BFT125FZ (12 N·m)**

Model	BFT020FZ (2.0 N·m)	BFT040FZ (3.5 N·m)	BFT080FZ (6.5 N·m)	BFT122FZ (10 N·m)	BFT081FZ (8 N·m)	BFT123FZ (12 N·m)	BFT083FZ (12 N·m)	BFT125FZ (12 N·m)
Voltage	9.6V	9.6V	9.6V	9.6V	12V	12V	14.4V	14.4V
Capacities	1/4" Hex Shank	1/4" Hex Shank	1/4" Hex Shank	1/4" Hex Shank	1/4" Hex Shank	1/4" Hex Shank	1/4" Hex Drive	1/4" Hex Drive
Fastening Torque [N·m (in.lbs.)]:								
(Hard)	0.5-2.0(4.4-17.7)	1-4 (8.9-35.4)	3-8 (26.6-70.8)	5-12 (44.3-106)	3-8 (26.6-70.8)	5-12 (44.3-106)	3-8 (26.6-70.8)	5-12 (44.3-106)
(Soft)	0.5-2.0(4.4-17.7)	1-3.5 (8.9-31.0)	3-6.5 (26.6-57.5)	5-10 (44.3-88.5)	3-8 (26.6-70.8)	5-12 (44.3-106)	3-8 (26.6-70.8)	5-12 (44.3-106)
No Load Speed (RPM)	540	950	540	320	700	390	80	150
Length	7-7/8"	7-7/8"	7-7/8"	7-7/8"	7-7/8"	7-7/8"	7-7/8"	7-7/8"
Height (w/Battery)	9-7/8"	9-7/8"	9-7/8"	9-7/8"	10-1/4"	10-1/4"	10-1/4"	10-1/4"
Width	2-9/16"	2-9/16"	2-9/16"	2-9/16"	2-13/16"	2-13/16"	2-13/16"	2-13/16"
Weight (w/Battery)	2.9 lbs.	2.9 lbs.	2.9 lbs.	2.9 lbs.	3.5 lbs.	3.5 lbs.	3.3 lbs.	3.3 lbs.
Battery	BH9033A, BH9020A	BH9033A, BH9020A	BH9033A, BH9020A	BH9033A, BH9020A	BH1233C, BH1220C	BH1233C, BH1220C	BL1430	BL1430

\*Hard Torque

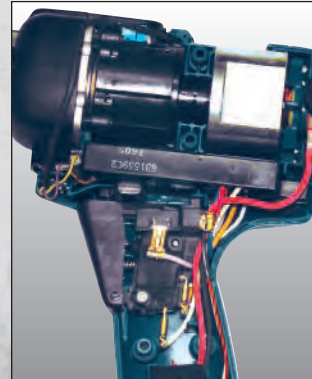
## CONSISTENT TORQUE ACCURACY CHART



### ADVANCED TECHNOLOGY

#### Two-Piece D-28 Motor

- Replaceable armature allows greater serviceability
- Dual sealed ball bearings for less friction and greater efficiency
- High performance fan reduces temperatures and increases tool life
- High-grade magnet generates maximum performance



### LOW COST OF OWNERSHIP

#### Designed for High Endurance Applications

- Nut and bolt housing assembly ensures long term housing integrity
- Replaceable brushes easily accessed without the need to open the tool housing
- Solderless internal components for easy and fast replacement





# RIGHT ANGLE NUT-RUNNERS



**Higher Torque Accuracy**  
+/- 7% at Cm ≥ 1.67

**Torque Adjusting System**  
for manufacturing lines;  
Impossible to change  
fastening torque previously  
set by factory without  
grip adjustment

**Color Coded  
Identification Plate**  
for easy tool and  
application identification



**Indication Lamp and Beeper**

**Two-Piece D-28R Motor**  
with replaceable armature and  
powerful rare earth magnet



1-1/8"

**Extra-Rigid  
Aluminum-Alloy  
Angle Head**

**Built-in Job Light**  
lights up automatically  
with start of motor and  
remains on for 10 seconds  
after switching off

**Conveniently Located  
Forward/Reverse Switch**



**Auto Battery Shutoff**  
Ensures consistent  
fastening torque

**Easy On/Off Switch**  
Equipped with a Delayed Re-Start

**Anti-Slip Dimpled Grip**

**Built-in Electronic System**  
Soft start to suppress return  
torque at start-up

Delayed restarter controls  
the motor so that it does not  
start until one second passes  
after a screw has been  
driven; the motor does not  
start even if switch trigger  
is pulled

Reduces deviation from  
pre-set fastening torque  
caused by unintentional  
over-tightening

## Model BFL121FZ

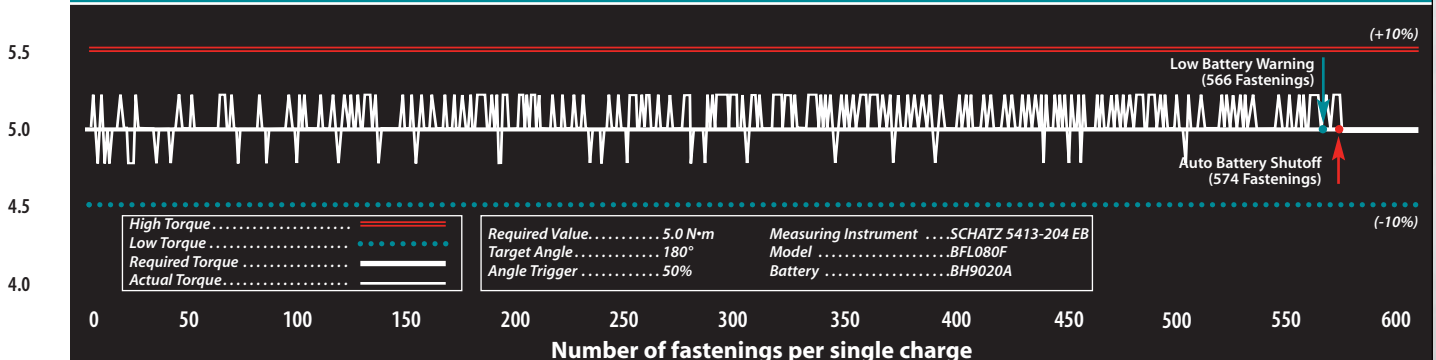
### ANGLE NUTRUNNERS



	<b>BFL080FZ (7.5 N·m)</b> (BFL080F5Z)	<b>BFL120FZ (12 N·m)</b>	<b>BFL081FZ (7.5 N·m)</b>	<b>BFL121FZ (11.5 N·m)</b> (BFL121F5Z)	<b>BFL200FZ (18 N·m)</b>
Voltage	9.6V	9.6V	12V	12V	12V
Capacities	3/8" Square Drive 1/4" Square Drive (BFL080F5Z)	3/8" Square Drive	3/8" Square Drive	3/8" Square Drive 1/4" Square Drive (BFL121F5Z)	3/8" Square Drive
Fastening Torque [N·m (in.lbs.)]:					
(Hard)	2-8 (17.7-70.8)	5-12 (44.3-106)	2-8 (17.7-70.8)	5-12 (44.3-106)	8-20 (70.9-177)
(Soft)	2-7.5 (17.7-66.4)	5-12 (44.3-106)	2-7.5 (17.7-66.4)	5-11.5 (44.3-102)	8-18 (70.9-159)
No Load Speed (RPM)	450	250	700	410	220
Length (w/Battery)	17"	17"	16-1/4"	16-1/4"	16-1/4"
Height	2-15/16"	2-15/16"	3-5/8"	3-5/8"	3-5/8"
Width	2-9/16"	2-9/16"	2-15/16"	2-15/16"	2-15/16"
Weight (w/Battery)	3.3 lbs.	3.3 lbs.	3.5 lbs.	3.5 lbs.	3.5 lbs.
Battery	BH9033A, BH9020A	BH9033A, BH9020A	BH1233C, BH1220C	BH1233C, BH1220C	BH1233C, BH1220C

N·m

### CONSISTENT TORQUE ACCURACY CHART

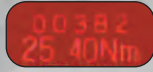




# BRUSHLESS ANGLE NUTRUNNERS



**Higher Torque Accuracy**  
+/- 7% at Cm ≥ 1.67



**Color Coded Identification Plate**

**Torque Adjusting System** for manufacturing lines; Impossible to change fastening torque previously set by factory without grip adjustment

**Indication Lamp and Beeper**



**Brushless Motor** for higher no load speed and more powerful and faster driving

**MAKSTAR®**

**MAKSTAR® Battery**  
New battery cell configuration for more power and efficiency

**Extra-Rigid Aluminum-Alloy Angle Head**

1-5/16"

**Built-in Job Light** lights up automatically with start of motor and remains on for 10 seconds after switching off

**Conveniently Located Forward/Reverse Switch**

**Easy On/Off Switch** Equipped with a Delayed Re-Start

**Built-in Electronic System**  
Soft start to suppress return torque at start-up

Delayed restarter controls the motor so that it does not start until one second passes after a screw has been driven; the motor does not start even if switch trigger is pulled

Reduces deviation from pre-set fastening torque caused by unintentional over-tightening



**Auto Battery Shutoff** Ensures consistent fastening torque



**Optional Paddle Switch Adapter** converts trigger switch to paddle switch for easy operation

## Model BFL400FZ

### BRUSHLESS ANGLE NUTRUNNERS



**BFL300FZ (16-30 N·m)**



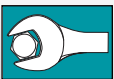
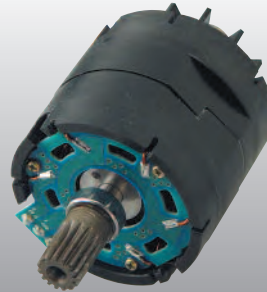
**BFL400FZ (25-40 N·m)**

	BFL300FZ (16-30 N·m)	BFL400FZ (25-40 N·m)
Voltage	14.4V	14.4V
Capacities	3/8" Square Drive	3/8" Square Drive
Fastening Torque [N·m (in.lbs.)]:		
(Hard)	16-30 (142-266)	25-40 (221-354)
(Soft)	16-30 (142-266)	25-40 (221-354)
No Load Speed (RPM)	400	260
Length (w/Battery)	20"	20-1/4"
Height	4-1/8"	4-1/8"
Width	2-7/8"	2-7/8"
Weight (w/Battery)	5.3 lbs.	5.5 lbs.
Battery	BH1427, BL1430	BH1427, BL1430

### ADVANCED TECHNOLOGY

#### DC Brushless Motor

- Generates higher no load speed
- Dual ball bearings for greater efficiency and longer life
- Maintenance free through service life of ball bearings
- Brush free motor reduces noise



### REPITITIVE ACCURACY

#### Torque Accuracy

- Long-life clutch provides consistent operation within +/-10% of mean torque with real-world repeatability consistencies within +/-3%.
- User-certified to within +/- 5% of mean torque
- Cm values of well over 1.67 (+/- 3 sigma)



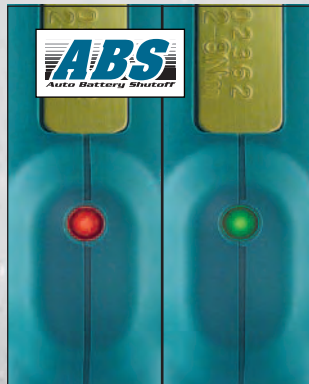
### SMART SYSTEM

#### Auto Battery Shutoff

- Shuts off the tool when battery capacity is less than 5%
- Ensures consistent fastening torque

#### Indication Lamp and Beeper

- Precision sensor indicates fastening sufficiency and battery power conditions with light and/or beeping







# CLASS I DIVISION 2 SCREWDRIVERS

**HAZLOC™**  
CLASS 1 DIVISION 2 RATED



"Quick Change"  
1/4" Hex Shank Chuck

Torque Adjusting System

Auto-Stop  
Fastening Function

L.E.D. Indicator

Built-in L.E.D. Light

Anti-Slip Dimpled Grip

Beeper Indicator

**MAKSTAR®**  
CHARGING SYSTEM



Includes:  
2 Ea. (2.0Ah) Makstar®  
Battery BH1220,  
Makstar® Charger  
DC18RA & Steel Case



## CLASS I DIVISION 2 RATED

### ADVANCED TECHNOLOGY



- UL listed for Class I Division 2 locations for maximum 50°C ambient
- Meets the NEC Article 513 Aircraft Hanger requirements for Class I Division 2 locations
- Tested to Mil Standard 810F, Method 511.4

## SMART SYSTEM

### AUTO BATTERY SHUT-OFF



- Shuts-off the tool when battery capacity is less than 20%

### Indication Lamp and Beeper

- Precision sensor indicates following conditions with light and/or beeping: sufficient fastening, insufficient fastening, low battery power, and battery too low to operate

## REPETITIVE ACCURACY

### TORQUE ACCURACY

- Torque accuracy of: +/- 10% with  $C_m \geq 1.67$
- Automatically shuts-off tool when pre-set fastening torque is reached to ensure accuracy

## PRECISE TORQUE CONTROL SCREWDRIVERS



BFH040FRAE



BFH040RAE



BFH090FRAE



BFH090RAE



BFH120FRAE

	BFH040FRAE	BFH040RAE	BFH090FRAE	BFH090RAE	BFH120FRAE
Voltage	12V	12V	12V	12V	12V
Capacities	1/4" Hex Shank	1/4" Hex Shank	1/4" Hex Shank	1/4" Hex Shank	1/4" Hex Shank
Max. Fastening Torque	.8 - 4.5(7-40)	.8 - 4.5(7-40)	3.4 - 9.0(30-80)	3.4 - 9.0(30-80)	5.0 - 12.0(44-106)
No Load Speed (RPM)	400	400	400	400	400
LED Lamp	YES	NO	YES	NO	YES
LED Pass/Fail	YES	YES	YES	YES	YES
Audible Signal	YES	NO	YES	NO	YES
Length	7-15/32"	7-15/32"	7-15/32"	7-15/32"	7-15/32"
Height	10-15/32"	10-15/32"	10-15/32"	10-15/32"	10-15/32"
Width	2-13/16"	2-13/16"	2-13/16"	2-13/16"	2-13/16"
Weight	3.3 lbs.	3.3 lbs.	3.3 lbs.	3.3 lbs.	3.3 lbs.

**MAKITA CORDLESS**



# IMPACT DRIVERS & WRENCHES



**Model BTD061Z**

## IMPACT DRIVERS



Model BTD061SAG includes Kit

**BTD061Z (65 N·m)**



**BTD062Z (65 N·m)**



**BTD1205AE (100 N·m)  
BTD1505AE (130 N·m)**

## IMPACT WRENCHES



Models BTW1215A/  
BTW1215A includes VTS

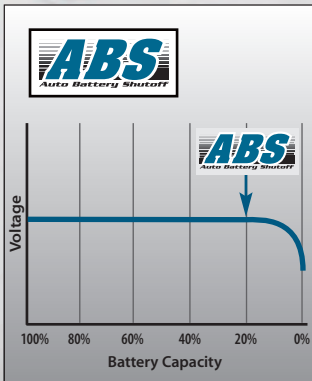
**BTW1215A (150 N·m)**



Model BTW070Z includes VTS

**BTW070Z (65 N·m)**

	BTD061Z (65 N·m)	BTD062Z (65 N·m)	BTD1205AE (100 N·m) BTD1505AE (130 N·m)	BTW1215A (150 N·m)	BTW070Z (65 N·m)
Voltage	9.6V	9.6V	12V / 14.4V	12V / 14.4V	9.6V
Capacities	1/4" Hex Shank	1/4" Hex Shank	1/4" Hex Shank	1/2" Square Drive	3/8" Square Drive
Fastening Torque: [N·m (in.lbs.)]	65 (575)	65 (575)	100 (885) BTD1505AE: 130 (1,150)	BTW1215A: up to 120 (1,060) BTW1215A: up to 120 (1,060)	BTW070Z 65 (575)
No Load Speed (RPM)	0 - 2,500	0 - 2,500	0 - 2,300	0 - 2,500	0 - 2,500
Impacts per Minute (IPM)	0 - 3,000	0 - 3,000	0 - 3,000	0 - 3,000	0 - 3,000
Length	6-7/16"	6-7/16"	6-5/8" / 7-1/2"	6-15/16" / 7-5/8"	6-1/2"
Height (w/Battery)	9-5/16"	9-5/16"	9-7/8" / 10"	9-7/8" / 10"	9-5/16"
Width	2-5/8"	2-5/8"	2-15/16" / 3-1/16"	2-15/16" / 3-1/16"	2-5/8"
Weight (w/Battery)	2.4 lbs.	2.5 lbs.	3.3 lbs. / 4.0 lbs.	3.3 lbs. / 4.2 lbs.	2.5 lbs.
Battery	BH9033A, BH9020A	BH9033A, BH9020A	BH1233C, BH1220C / BH1433, BH1427, BH1420	BH1233C, BH1220C / BH1433, BH1427, BH1420	BH9033A, BH9020A



### SMART SYSTEM

#### Auto Battery Shutoff

- Shuts-off the tool when battery capacity is less than 20%
- Ensures consistent fastening torque



### REPETITIVE ACCURACY

#### Vari-Torque System

- VTS allows the operator to adjust the number of impacts to match the fastening application
- Prevents over-tightening that could cause the fastener to fail
- Torque adjusting dial for operator convenience (for models BTW1215A and BTW1515A only)

## 7.2V Lithium-Ion Cordless Driver-Drill



### Model DF010

- High torque accuracy with auto-clutch system stops the motor when clutch is disengaged
- Makita built 2-speed motor delivers 50 in.lbs. of torque
- Compact design at only 1.2 lbs. for reduced operator fatigue

Voltage	7.2V
Capacities	1/4" Hex Shank
Fastening Torque	Hard Joint 5.6 (50) Soft Joint 3.6 (32)
No Load Speed (RPM)	Low 200 High 650
Length	11"
Height (w/Battery)	5-9/16"
Width	1-11/16"
Weight (w/Battery)	1.2 lbs.
Battery	BL7010

## 7.2V Lithium-Ion Cordless Impact Driver



### Model TD020DSEW

- Makita-built motor delivers 177 in.lbs. of torque, 2,300 RPM and 3,000 IPM
- Compact design at only 1.17 lbs. for reduced operator fatigue
- Built-in L.E.D. light illuminates the work area

Voltage	7.2V
Capacities	1/4" Hex Shank
Fastening Torque	20 (177)
No Load Speed (RPM)	2,300
Impacts per Minute (IPM)	3,000
Length	10-7/8"
Height (w/Battery)	5-1/8"
Width	1-9/16"
Weight (w/Battery)	1.17 lbs.
Battery	BL7010

## 10.8V Lithium-Ion Cordless Impact Driver



### Model TD090DW

- Makita-built motor delivers 800 in.lbs. of torque
- Compact design at only 6-1/8" long and 2.0 lbs. to reduce operator fatigue
- Built-in L.E.D. light illuminates the work area

Voltage	10.8V
Capacities	1/4" Hex Shank
Fastening Torque	90 (800)
No Load Speed (RPM)	2,400
Impacts per Minute (IPM)	3,000
Length	6-1/8"
Height (w/Battery)	7"
Width	2-1/8"
Weight (w/Battery)	2.0 lbs.
Battery	BL1013

## 12V Lithium-Ion Cordless 3/8" Driver-Drill



### Model FD02W

- Makita-built delivers 200in.lbs. of max torque
- Variable 2-speed design (0-350 & 1,300 RPM)
- Ultra compact design at only 7-7/16" long and weighs only 2.2 lbs.

Voltage	12V
Capacities	3/8" Chuck
Fastening Torque	200
No Load Speed (RPM)	Low 0-350 High 0-1,300
Length	7-7/16"
Height (w/Battery)	?????
Width	?????
Weight (w/Battery)	2.2 lbs.
Battery	BL1014

## 14.4V Lithium-Ion Cordless Impact Driver



### Model BTD103FW

- ????
- ????
- ????

Voltage	14.4V
Capacities	1/4" Hex Shank
Fastening Torque	1,240
No Load Speed (RPM)	0-2,400
Impacts per Minute (IPM)	3,200
Length	5-3/4"
Height (w/Battery)	?????
Width	?????
Weight (w/Battery)	3.1 lbs.
Battery	BL1430

## 14.4V Lithium-Ion 1/2" Cordless Driver-Drill



### Model BDF440Z

- Makita-built, 4-pole motor delivers 363 in.lbs. of torque
- Compact design at only 7-3/8" long and 3.5 lbs. to reduce operator fatigue
- Built-in L.E.D. light illuminates the work area

Voltage	14.4V
Capacities	1/2" Chuck
Fastening Torque	Hard Joint 41 (363) Soft Joint 25 (221)
No Load Speed (RPM)	Low 400 High 1,400
Length	7-3/8"
Height (w/Battery)	9-1/2"
Width	3-1/8"
Weight (w/Battery)	3.5 lbs.
Battery	BL1430



# 18V LXT LITHIUM-ION SERIES



1/4" Hex One-Touch Chuck for Simple Bit Insertion. No Need to Pull the Sleeve

Makita-Built 4-Pole Motor Design delivers 1,330 in.lbs. of Maximum Torque

Built-in L.E.D. Light Illuminates the Work Area

Ergonomic Shape Fits like a Glove with Even Pressure and Easy Control

Variable Speed 0-2,300 RPM for a Wide Range of fastening Applications

Compact Design only 5-3/4" Long and Weighs in 3.4lbs for reduced Operator Fatigue

18V Li-Ion Battery Change in 30 Minutes and Produces 430% Total Lifetime Work with 2.5x More Cycles



## 18V LXT LITHIUM-ION CORDLESS



**BTD141                      BTL061 (BTL063)                      BTW251 (BTW253)                      BTW450                      BTD144**

Voltage	18V	18V	18V	18V	18V
Capacities	1/4" Hex Shank	1/4" Hex Shank (3/8" Square)	1/2" Square (3/8" Square)	1/2" Square	?????
Max. Fastening Torque:	150 N·m (1,330 in./lbs.)	230 N·m (210 N·m)	60 N·m (530 N·m)	40 N·m (325 in./lbs.)	160 N·m (1,420 in./lbs.)
No Load Speed (RPM)	0 - 2,300 rpm	0 - 2,000 rpm	0 - 2,400 rpm (0 - 2,100 rpm)	1,600 rpm	0 - 1,300/0 - 2,000/0 - 2,600 rpm
Impacts per Minute	0 - 3,200	0 - 3,000	0 - 3,000 (0 - 3,200)	2,200	0 - 1,300/0 - 2,800/0 - 3,400 ipm
Length	5-3/4"	15-1/4"	6-1/2" (6-1/8")	10-1/2"	5-1/2"
Weight (w/Battery)	3.5 lbs.	3.7 lbs.	3.7 lbs. (3.5 lbs.)	7.5 lbs.	3.3 lbs.
Battery	BL1830	BL1830	BL1830	BL1830	BL1830

All tools available in kits or as bare tool

### MORE POWER

**MAX TORQUE**

Makita built, 4-pole maximum torque motor delivers more efficient power in a compact size

### LESS WEIGHT

MAKITA LXT Lithium-Ion Battery

Leading Professional Cordless Battery

40% less weight and more compact design

### BETTER FIT

Ergonomic shape fits like a glove with even pressure and easy control

### MORE WORK

**LXT LITHIUM-ION BATTERY**

LEADING PROFESSIONAL CORDLESS BATTERY

**2X More Cycles**

**LXT LITHIUM-ION BATTERY**

LEADING PROFESSIONAL CORDLESS BATTERY

**Longer Run Time**

Charges to Maximize Cycle Life + Work Volume

**Optimum Charging System**

**3** CONTROLS

LXT Battery and Optimum Charging System produces 280% more work with 2x more cycles

# SOLUTIONS





# BATTERY CHARGING SYSTEM

## THE MOST ADVANCED SYSTEM IN THE WORLD

### ADVANCED RAPID CHARGING SYSTEM

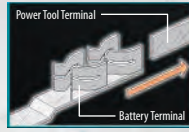
# MAKSTAR<sup>®</sup>

**Forced Air Cooling Fan** cools the battery by forcing cool air through the battery's built-in air vents to minimize charging time

**CPU** and **Data Battery Chip**

**Automatic Control Function and CPU**  
CPU gathers usage information from the battery's data chip. Then it charges the battery in the manner most suitable for longer life

**Digital Power Display** lets the user know the condition of the battery, as well as the current charge level of the battery (-80%, +80%, 100%)

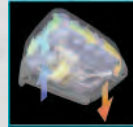


**Multi-Contact Terminals** ensure tight connection to the tool under extreme vibration

**"Secure-Slide" Connection** keeps battery locked in place

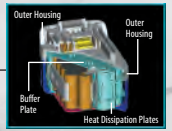
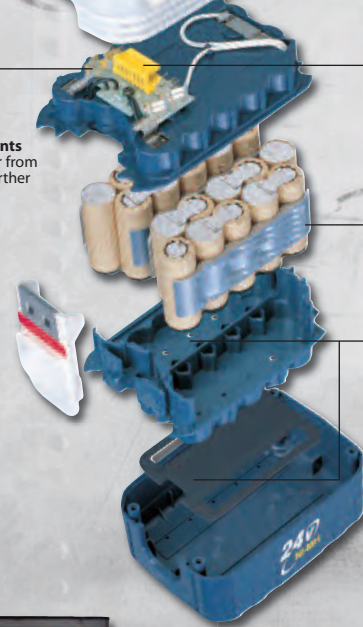


**Data Memory Chip** memorizes battery usage history which is then transmitted to the MAKSTAR<sup>®</sup> charger's CPU to determine the optimal charging action



**Built-in Air Vents** receive cool air from the charger, further increasing the battery life

**Heat-Sinks** protect the battery cells by absorbing heat



**Shock Absorbing Construction** protects each battery cell while preventing dust and debris contamination

### BATTERY CHECKING SYSTEM

- Facility Troubleshooting Capabilities
- Determines:
  - # Full Charges
  - # Partial Charges
  - Internal Resistance
  - Level of Utilization
- Proprietary System Allos Support Staff to Assess Productivity Levels



#### BATTERIES & CHARGERS

	Voltage	Cell Type	Amp Hour (Ah)	Style	Battery	Part#	Models		Cell Type	Amp Hour (Ah)	Style	Part#
	18	Li-ion	3.0	Slide	BL1430	BL1430	DC18RA, DC18SE, DC24SA	<b>Lithium-Ion 18V Charger</b>	(Li-ion/Ni-MH)	1.3 - 3.3	Slide	DC18RA
	14.4	Li-ion	3.0	Slide	BL1830	BL1830						
	10.8	Li-ion	1.3	Stick	BL1013	BL1013						
	7.2	Li-ion	1.0	Stick	BL7010	BL7010						
	14.4	(Ni-MH)	3.3	MAKSTAR <sup>®</sup>	BH1433	193355-1	BTD150SAE, BTW150SAE, BTW151SA	<b>Optimum Automotive Charger</b>	(Li-ion/Ni-MH)	1.3 - 3.3	Slide	DC18SE
	14.4	(Ni-MH)	2.0	MAKSTAR <sup>®</sup>	BH1420	193352-7						
	14.4	(Ni-MH)	2.7	MAKSTAR <sup>®</sup>	BH1427	193992-1	BFL300FZ, BFL400FZ, BTD150SAE, BTW150SAE, BTW151SA	<b>MAKSTAR<sup>®</sup> Refreshing Battery Adapter (ADP03)</b>	(Ni-MH)	1.7 - 3.3	MAKSTAR <sup>®</sup> *	193681-8
	12	(Ni-MH)	3.3	MAKSTAR <sup>®</sup>	BH1233C	193931-1						
	12	(Ni-MH)	2.0	MAKSTAR <sup>®</sup>	BH1220C	193929-8						
							BFL080FZ, BFL120FZ, BFT040FZ, BFT080FZ, BFT122FZ, BTD040Z, BTD042Z, BTD061SAG, BTD061Z, BTD062Z, BTW070Z, BTW072Z	<b>MAKSTAR<sup>®</sup> Interchangeable Battery Adapter</b>	(Ni-MH) & Ni-Cd	1.3 - 3.0	Pod & Stick	193205-0
	9.6	(Ni-MH)	3.3	MAKSTAR <sup>®</sup>	BH9033A	193536-7						
	9.6	(Ni-MH)	2.0	MAKSTAR <sup>®</sup>	BH9020A	193531-7						



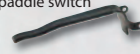



\* Use with charger DC24SA or DC14SA

Charges all Ni-MH & Ni-Cd removable (1.3Ah - 3.0Ah) batteries  
7.2V, 9.6V, 12V, 14.4V & 18V  
Use with charger DC24SA or DC14SA



# PRODUCTION TOOLING ACCESSORIES



Description	Part#	Models	Description	Part#	Models	Description	Part#	Models
<b>Torque Adjusting Key</b> 	765024-0	6798FDZ	<b>Cordless Tool Impact Protectors</b> Resists impacts that can damage tool 	417476-8	BDT120Z, BTW120SAE, BTW1215A	<b>Two-Piece Impact Protector Sets*</b> Clear (A) 418745-0 Red (A) 418744-2 Blue (A) 418743-4 Yellow (A) 418691-7		
	765025-8	BFT040FZ, BFT080FZ, BFT122FZ, BFT123FZ, BFL080FZ, BFL081FZ, BFL120FZ, BFL121FZ, BFL200FZ, BFL300FZ, BFL400FZ		417349-5	BTDO40Z, BTDO42Z, BTDO61SAG, BTDO61Z, BTDO62Z, BTW070Z & BTW072Z		Clear (B) 418748-4 Red (B) 418747-6 Blue (B) 418746-8 Yellow (B) 418692-5	
<b>Paddle Switch Adapter</b> Converts trigger switch to paddle switch 	194008-5	BFL300FZ, BFL400FZ		418065-2	BFL080FZ, BFL081FZ, BFL120FZ, BFL121FZ, BFL200FZ	Clear (A) 418745-0 Red (A) 418744-2 Blue (A) 418743-4 Yellow (A) 418691-7		
				418064-4		418425-8	BFT040FZ, BFT080FZ, BFT122FZ, BFT123FZ	Clear (B) 418751-5 Red (B) 418750-7 Blue (B) 418749-2 Yellow (B) 418693-3
				418032-7				

\*Set requires both (A) and (B)

## LITHIUM-ION FLASHLIGHTS

Description	Run Time (in Hours)	Flashlight Part #	Replacement Bulb #
18V LXT Flashlight	4.3*	BML185	A-90261
18V Compact Flashlight (White)	4.3*	BML185W	A-90261
18V LXT Fluorescent/Incandescent Flashlight	4.0* (Fluorescent) 15.0 (Incandescent)	BML184	SM00000050 A-94502
18V Compact L.E.D. Flashlight	25.0	LXLM01W	-
10.8V L.E.D. Flashlight	9.0	ML100W	-

BML185 Shown  
LXLM01W Shown  
BML184 Shown

\*Battery and Charger sold separately

## DRILL & DRIVER BIT SETS

Description	Part #
<b>15 Pc. Drill &amp; Driver Set</b> Includes: (1) "Stubby" Finder/Driver™ Retracting Screw Holder (7) Insert Bits (1 ea. #1 Phillips, #3 Phillips, #4-5 Slotted, #6-8 Slotted, #2 Robertson & 2 ea. #2 Phillips), (7) Black Oxide Drill Bits (1/16", 3/32", 1/8", 5/32", 3/16", 7/32" & 1/4")	784864-A
<b>17 Pc. Impact Drill &amp; Driver Set</b> Includes: Compact Quad-Driver™; (1) #8 Countersink insert; (3) Titanium Hex Shank Drill Bits: 1/8", 3/16", 1/4"; (7) 2" Driver Bits: (2) P2, (2) P3, (2) R2, T20; (1) Hex to Square Adapter-1/4" to 1/4"; (1) 1" P2 Driver Bit; (3) Magnetic Nutsetters: 1/4", 5/16", 3/8"	T-00153
<b>28 Pc. Impact Drill &amp; Driver Set</b> Includes: (1) Square Drive Adapter - 1/4" to 1/4"; (4) Magnetic Nutsetters: 1/4", 5/16", 3/8", 7/16"; (1) 3" Finder/Driver™ Bit; (4) Insert Bits: (1) P1, (2) P2, (1) P3, (2) Flat, (3) R2; (9) Power Driver Bits: (2) P1, (5) P2, (2) P3, (2) R2, (1) T20, (2) Flat	T-00169
<b>38 Pc. Impact Drill &amp; Driver Set</b> Includes: (4) Black Oxide Drill Bits Sizes: 1/16", 3/32", 1/8", 1/4" (3) 3.5" Ext. Length Driver Bits (6) 2" Power Bits: (2) P2, (2) P3, R15, R20 (21) 1" Insert Bit Assortment: Slotted, Phillips, Robertson & Torx (1) Hex-to-Square Socket Adapter: 1/4"-1/4" (1) Magnetic Bit Holder (2) Magnetic Nutsetter: 1/4", 5/16"	T-01373
<b>62 Pc. Impact Drill &amp; Driver Set</b> Includes: (7) Black Oxide Drill Bits Sizes: (2) 1/16", 3/32", (2) 1/8", 3/16", 1/4" (3) 3.5" Ext. Length Driver Bits (4) Spade Bits: 3/8", 1/2", 5/8", 3/4" (9) 2" Power Bits: Slotted, Phillips, Robertson & Torx (32) 1" Insert Bit Assortment: Slotted, Phillips, Robertson & Torx (2) Hex-to-Square Socket Adapter: 1/4"-1/4", 1/4"-3/8" (1) Magnetic Bit Holder w/P2 (3) Magnetic Nutsetters: 1/4", 5/16", 3/8"	T-01389

## DRILL & IMPACT CHUCKS

Description	Capacity	Part #	Model	Capacity	Part #	Model	
<b>Keyless Chuck</b> Thread Size: 3/8" - 24	3/8"	763132-1	6226DWE, 6227DWE, 6228DWE, DA312DWD, DA391DWD, DA392DWD	<b>Keyless Chuck</b> Thread Size: 1/2" - 20			
	3/8"	763184-2	6176DWD		1/2"	763191-5	8444DWE, 6339DWE, 6349DWE, BHP451, BDF451
	3/8"	193692-3	6213D		1/2"	763193-1	BDF452, BDF452HW, BHP452, BHP452HW
	3/8"	193690-7	6217DWE				
<b>Keyless Chuck Attachment</b> Converts Impact Driver into Driver-Drill	3/8"	763198-1	1/4"	763198-1	1/4" Hex Shank Impact Drivers		
<b>Keyless Chuck Attachment</b> Converts Key Drill Chuck into Keyless Chuck	3/8"	192077-0	1/4"	192077-0	Cordless Driver-Drills		
<b>Keyed Drill Chuck Attachment Set</b>	3/8"	191881-4	1/4"	191881-4	Cordless Driver-Drills		
	3/8"	763054-5A	1/4"	763054-5A	Cordless Driver-Drills		
<b>Replacement 1/4" Shank</b>		784643-3	1/4"	784643-3	Cordless Impact Driver		

## DRILL & DRIVER BIT SETS

Description	Size	1-3/4" Long Part #	2-5/8" Long Part #
<b>Magnetic Nutsetters</b> Drives hex head screws, bolts & nuts	1/4"	784819-A	784803-7
	5/16"	784820-A	784804-5
	3/8"	784821-A	784802-9
	7/16"		784805-3
<b>3 Pc. Magnetic Nutsetter Set</b> Includes: 1/4", 5/16", 3/8" Nutsetter & Storage Holder	<b>Description</b>		<b>1-3/4" Long Part #</b>
			784819-A-A
<b>Impact Socket Sets</b> 6-Point Drive Heavy-Duty design	<b>Description</b>		<b>Part #</b>
	8 Pc. 1/4" Drive Set: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2" & 1/4" x 1/4" Socket Adapter		785501-A-A
9 Pc. 3/8" Drive Set: 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" & 3/8 x 1/4" Socket Adapter		785508-A-A	
<b>Socket Adapters</b> Converts drill into a power nutsetter	1/4"	1/4"	785516-A
	3/8"	1/4"	785517-A

# MANUFACTURING & ASSEMBLY

## INDUSTRY MEASUREMENT STANDARDS

Makita's success and growth can be attributed to our total commitment to quality and our driven dedication to the industry to design high quality tools for professionals throughout the world. To remain the #1 Quality power tool leader we use the most rigorous testing to include electrical resistance, surge durability and mechanical efficiency. We utilize the most current and recommended testing equipment for our power tools to ensure precise torque accuracy and quality performance.

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