

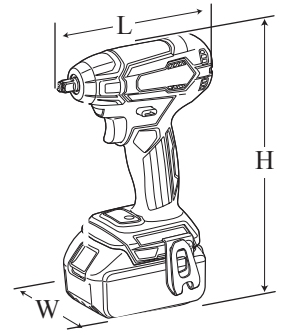


December 2017

TECHNICAL INFORMATION

Model No. ▶ DTW180

Description ▶ Cordless Impact Wrench



CONCEPT AND MAIN APPLICATIONS

Model DTW180 is a 18V Cordless impact wrench of 9.5mm (3/8") square drive.

The main features and benefits are:

- Reverse rotation auto stop mode; stops in 0.2 seconds after the bolt/nut loosened enough.
- Max fastening torque 180 N·m
- Lightweight 1.5 kg*1 and compact 55mm width of motor portion
- New design BL motor

*1 With Battery BL1860B

Dimensions: mm (")	
Length (L)	144 (5-5/8)
Width (W)	79 (3-1/8)
Height (H)	218 (8-5/8)*2
	235 (9-1/4)*3

*2 With Battery BL1815N, BL1820(B)

*3 With Battery BL1830(B), BL1840(B), BL1850(B), BL1860B

Specifications

Specifications		Model	DTW180
Battery	Voltage: V		18
	Capacity: Ah		1.5, 2.0, 3.0, 4.0, 5.0, 6.0
	Energy capacity: Wh		27, 36, 54, 72, 90, 108
	Cell		Li-ion
	Charging time (approx): min		15, 24, 22, 36, 45, 55 with DC18RC
Max output power (W)			230
Driving shank: mm (")			9.5 (3/8) Square
Capacity	Standard bolt		M8-M16 (5/16-5/8)
	High tensile bolt		M6-M12 (1/4-1/2)
Impacts per minute: min ⁻¹ = ipm		Hard/ Soft	0-3,600/ 0-2,000
No load speed: min ⁻¹ = rpm		Hard/ Soft	0-2,400/ 0-1,300
Max fastening torque*4: N·m [ft·lbs] (in·lbs)			180 [130] (1,600)
Nut-busting torque: N·m [ft·lbs] (in·lbs)			310 [230] (2,740)
Fastening torque at soft mode*5: N·m [ft·lbs] (in·lbs)			65 [50] (580)
Electric brake			Yes
Variable speed control by trigger			Yes
Reversing switch			Yes
LED job light			Yes
Weight according to EPTA-Procedure 01/2014: kg (lbs)			1.2 (2.7)*2 or 1.5 (3.4)*1

*4: Fastening torque at 6 seconds after seating, when tightening M16 (grade 10.9) high tensile bolt

*5: Fastening torque at 3 seconds after seating, when tightening M12 (grade 10.9) high tensile bolt

Standard equipment

Battery*6 Battery cover*7 Plastic carrying case
 Belt clip Charger*6 Tool bag (country-specific)

*6 Battery and charger are not supplied with "Z" model.

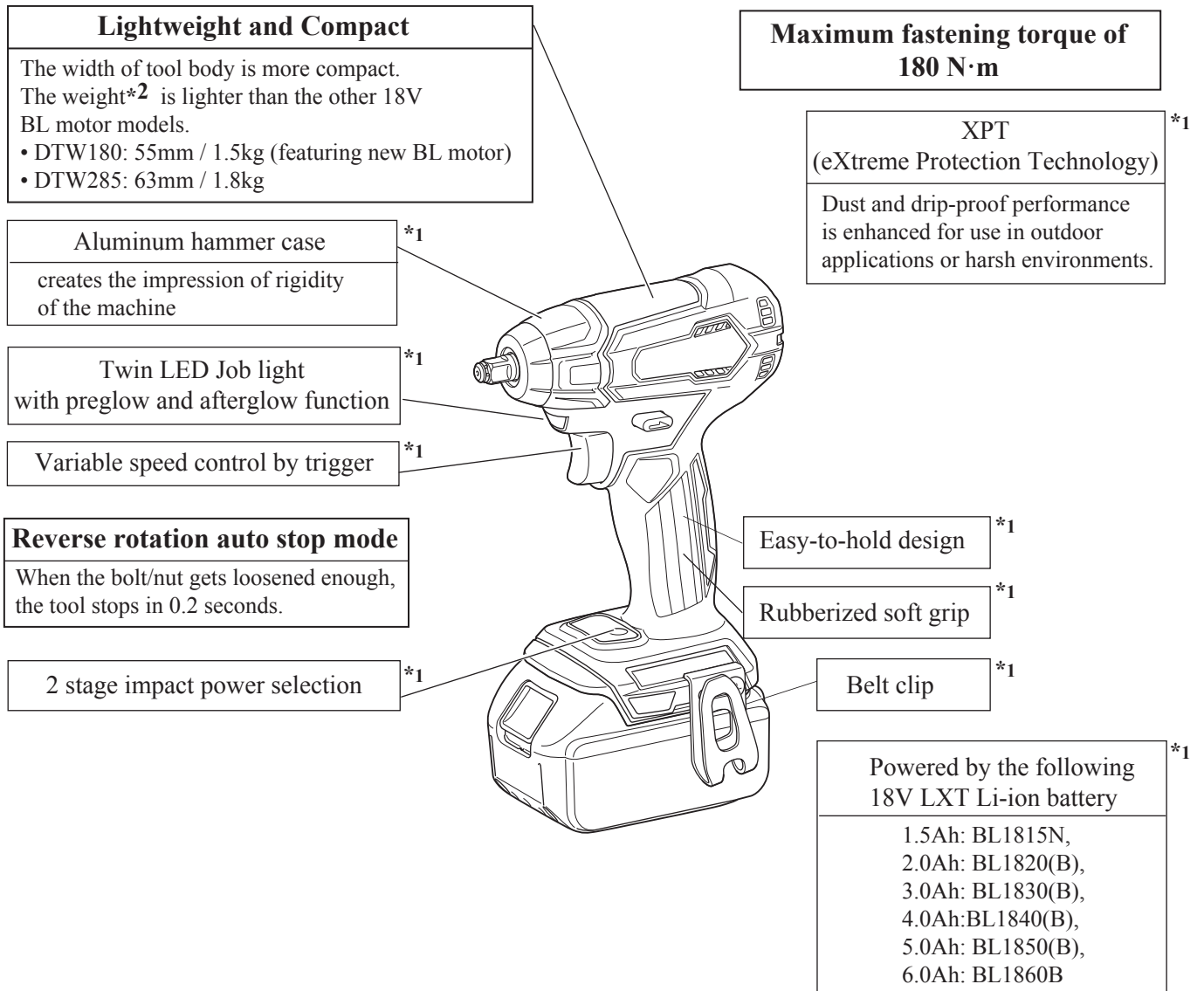
*7 Supplied with the same quantity of extra Battery.

Note: The standard equipment may vary by country or model variation.

Optional accessories

Battery BL1815N Battery BL1840(B) Charger DC18SD Automotive charger DC18SE
 Battery BL1820(B) Battery BL1850(B) Charger DC24SC Four Port Charger DC18SF
 Battery BL1830(B) Battery BL1860B Fast charger DC18RC, DC18RE Two Port Fast charger DC18RD

► Features and benefits



*1 The same advantage as Model DTD155

*2: With Battery BL1860B

Comparison of products

Specification Comparison

Model		Makita			Milwaukee			DEWALT
Specifications		DTW180	DTW285	DTD155	2754	2454	DCF813	
Cell		Li-ion 18	Li-ion 18	Li-ion 18	Li-ion 18	Li-ion 10.8	Li-ion 10.8	
Voltage: V		1.5, 2.0, 3.0, 4.0, 5.0, 6.0	1.5, 2.0, 3.0, 4.0, 5.0, 6.0	1.5, 2.0, 3.0, 4.0, 5.0, 6.0	2.0, 4.0	1.5, 2.0 / 4.0	1.3 / 1.5	
Capacity: Ah		27, 36, 54, 72, 90, 108	27, 36, 54, 72, 90, 108	27, 36, 54, 72, 90, 108	36 / 72	16.2, 21.6, 43.2	14.0 / 16.2	
Energy capacity: Wh		15, 24, 22, 36, 45, 55 with DC18RC	15, 24, 22, 36, 45, 55 with DC18RC	15, 24, 22, 36, 45, 55 with DC18RC	30 / 60	40, 40 / 80	30 / 30	
Charging time (approx): min		2 stages	3 stages	2 stages	4 stages (Hard/Medium/Soft and auto stop mode)	2 stages	N/A	
Impact power selection		0 - 2,400	0 - 2,800	0 - 3,000	0 - 2,500	0 - 2,650	0 - 2,450	
No load speed: min-l= rpm	Hard	0 - 1,300	0 - 2,100	0 - 1,300	0 - 1,600	0 - 1,200		
	Medium	0 - 3,600	0 - 3,500	0 - 3,900	0 - 3,200	0 - 3,500	0 - 3,400	
	Soft	0 - 2,000	0 - 2,600	0 - 1,600	0 - 900	0 - 2,650		
Impacts per minute: min-l=ipm	Hard	180 (1,600)	280 (2,480)	140 (1,240)	285 (2,520)	160 (1,400)	130 (1,150)	
	Medium	Yes: Battery	Yes: Battery	Yes: Battery	Yes: Battery	Yes: Tool body	Yes: Battery	
	Soft	Twin	Single	Twin	Single	Single	Triple	
Max fastening torque*1: N·m (in·lbs)		Both	Both	Both	Afterglow	Afterglow	Preglow	
Battery fuel gauge		9.5mm (3/8") Square	12.7mm (1/2") Square	6.35mm (1/4") Hex socket	9.5mm (3/8") Square	9.5mm (3/8") Square	9.5mm (3/8") Square	
LED job light: Preglow and afterglow function	Quantity	Yes	Yes	No	No	No	No	
Driving shank	Length	144 (5-5/8)	147 (5-3/4)	135 (5-5/16)	150 (5-7/8)	165 (6-1/2)	135 (5-5/16)	
Reverse rotation auto stop mode	Width	79 (3-1/8)	79 (3-1/8)	79 (3-1/8)	69.5 (2-3/4)	56 (2-1/4)	79 (3-1/8)	
	Height	235 (9-1/4)*2	249 (9-3/4)*2	232 (9-1/8)*2	245 (9-5/8) with 4.0 Ah battery	220 (8-5/8) with 4.0 Ah battery	232 (9-1/8)*2	
Dimensions: mm (")	Weight according to EPTA-Procedure01/2014: kg (lbs)	1.2 (2.7)*2 or 1.5 (3.4)*3	1.5 (3.2)*2 or 1.8 (3.9)*3	1.2 (2.6)*2 or 1.5 (3.3)*3	1.5 (3.3) with /1.9 (4.1) with 2.0Ah battery/4.0Ah battery	1.1 (2.4) with /1.3 (2.9) with 2.0Ah battery/4.0Ah battery	1.0 (2.3) with 1.5Ah battery	

*1 Fastening torque at 6 seconds after seating, when tightening M16 (grade 10.9) high tensile bolt

*2 With Battery BL1815N

*3 With Battery BL1860B

► Comparison of products

Performance Comparison

**Relation Between Fastening torque and Fastening time
when tightening M12 high tensile bolt with a fully charged battery**

Note: The time axis on the charts below indicates the fastening time after the bolt is seated.

