

**Makita**

# 18V Brushless 1/2" Pin Detent Impact Wrench

DTW301



**BRUSHLESS**

# Product Objectives

- Designed to provide a compact yet powerful impact wrench to suit the needs of various trades such as manufacturing technicians, mechanics and fabricators.
- Develop a brushless impact wrenches that is more powerful and more compact than the previous model. Including innovative new technology that increases user productivity



# Product Overview





# Product Specification Sheet



Max. capacities standard bolt	M10 - M20
Max. capacities high tensile bolt	M10 - M16
No load speed	Max: 0 - 3,200rpm High: 0 - 2,600rpm Med: 0 - 1,800rpm Soft: 0 - 1,000rpm
Impact rate	Max: 0-4,000ipm High: 0 - 3,400ipm Med: 0 - 2,600ipm Soft: 1,800ipm
Max. fastening torque	Max: 330Nm Hard: 180Nm Medium: 130Nm Soft: 70Nm
Nut busting torque	580Nm
Drive shank	12.7mm (1/2") Square
Overall length	144mm
Skin weight	1.2kg
Weight (with battery)	1.8kg
Voltage	18V

- **Twin LED Job light** – with pre-glow and after-glow function to illuminate workpiece.
- **Variable speed control via trigger** – impact selection speed can be controlled via the trigger providing the user with optimum control.
- **Electronic 4 stage impact selection** – Max/Hard/Medium/Soft impact power can be selected to suit the application, simply by pushing a button.
- **Forward & Reverse Automatic Stop** - Forward & Reverse Automatic Stop, with 6 modes for customized applications for greater control and convenience.
- **Trigger Switch with quick trigger mode** – trigger switch with Quick Trigger mode which engages immediate full speed.
- **Ergonomic Handle** – designed to maximise thrust to the bit as well as increasing control.
- **eXtreme Protection Technology** – enhanced protection from dust and moisture, enabling safe use in outdoor applications and harsh environments.

# Advantages

## Power



High power in a compact design with 330Nm maximum fastening torque

## Innovation



Electronic 4 Stage Impact Selection

## Compact



A compact design at 144mm in length and weighing only 1.8kg with battery

## Control



Variable Speed Control via trigger & Quick Trigger Mode engaging immediate full speed



# Advantages

## Forward and Reverse Auto Stop




Rotation Mode	Bolt Mode	Description	Application Example
Forward Rotation	1	The tool stops automatically as soon as it has detected the first impact.	Fastening scaffold Temporary tightening of a small car tire to 80-100Nm
	2	The tool stops automatically 0.5 seconds after the moment it has detected the first impact.	Fastening cable trays Temporary tightening of a standard car tire to 100-120Nm
	3	The tool stops automatically 1.0 second after the moment it has detected the first impact.	Temporary fastening steel beams
Reverse Rotation	1	The tool stops automatically as soon as it has stopped impact blow.	All Loosening applications
	2	The tool stops automatically approximately 0.2 seconds after the moment it has stopped impact.	Dismantling scaffold
	3	The tool automatically slows down to 230min <sup>-1</sup> after the moment it has stopped impact.	Loosening bolt/nut to a desired position

# Product Replacement

	DTW301 - NEW	DTW285X - Discontinued
		
Max. capacities standard bolt	M10 - M20	M10 - M20
Max. capacities high tensile bolt	M10 - M16	M10 - M16
No load speed	<b>Max: 0 - 3,200rpm</b> Hard: 0 - 2,600rpm Medium: 0 - 1,000rpm Soft: 0 - 1,000rpm	Hard: 0 - 2,800rpm Med: 0 - 2,100rpm Soft: 0 - 1,600rpm
Impact rate	<b>Max: 0 - 4,000ipm</b> Hard: 0 - 3,400ipm Med: 0 - 2,600ipm Soft: 1,800ipm	Hard: 0 - 3,500ipm Med: 0 - 2,600ipm Soft: 0 - 1,800ipm
Max. fastening torque	<b>Max: 330Nm</b> Hard: 180Nm Medium: 130Nm Soft: 70Nm	Hard: 280Nm Medium: 175Nm Soft: 80Nm
Nut-busting torque	<b>580Nm</b>	400Nm
Drive shank	12.7mm (1/2") Square	12.7mm (1/2") Square
Overall length	<b>144mm</b>	147mm
Skin weight	1.2kg	1.1kg
Weight (with battery)	1.8kg	1.7kg
Voltage	18V	18V

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


# Our Range

	DTW1001	DTW1002	DTW300	DTW181	DTW180
					
Max. capacities standard bolt	M12 - M30	M12 - M30	M10 - M20	M8-M16	M8-M16
Max. capacities high tensile bolt	M10 - M24	M10 - M24	M10 - M16	M6-M12	M6-M12
No load speed	Hard: 0 - 1,800rpm Med: 0 - 1,000rpm Soft: 0 - 900rpm	Hard: 0 - 1,800rpm Med: 0 - 1,000rpm Soft: 0 - 900rpm	Max: 0 - 3,200rpm Hard: 0 - 2,600rpm Medium: 0 - 1,000rpm Soft: 0 - 1,000rpm	Hard: 0 - 2,400rpm Soft: 0 - 1,300rpm	Hard: 0 - 2,400rpm Soft: 0 - 1,300rpm
Impact rate	Hard: 0 - 2,200ipm Med: 0 - 2,000ipm Soft: 0 - 1,800ipm	Hard: 0 - 2,200ipm Med: 0 - 2,000ipm Soft: 0 - 1,800ipm	Max: 0 - 4,000ipm Hard: 0 - 3,400ipm Med: 0 - 2,600ipm Soft: 1,800ipm	Hard: 0 - 3,600ipm Soft: 0 - 2,000ipm	Hard: 0 - 3,600ipm Soft: 0 - 2,000ipm
Max. fastening torque	1,050N.m	1,000N.m	Max: 330Nm Hard: 180Nm Medium: 130Nm Soft: 70Nm	210Nm*	180N.m
Nut-busting torque	1,700N.m	1,600N.m	580Nm	330Nm	310Nm
Drive shank	19mm 3/4" Square	12.7mm (1/2") Square	12.7mm (1/2") Square	12.7mm (1/2") Square	9.5mm (3/8") Square
Overall length	229mm	229mm	144mm	151mm	144mm
Skin weight	3.1kg	3.0kg	1.2kg	0.9kg	0.9kg
Weight (with battery)	3.7kg	3.6kg	1.8kg	1.5kg	1.5kg
Voltage	18V	18V	18V	18V	18V

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



# Accessories

Standard Accessories		
	346317-0	Belt Hook

Optional Accessories		
		<b><u>1/2" Drive Impact Wrench Sockets</u></b>
		<b><u>1/2" Drive Deep Impact Sockets</u></b>
		<b><u>1/2" Drive Impact Wrench Socket Sets</u></b>
		<b><u>1/2" Impact Socket Extensions</u></b>
		<b><u>Deep Impact Socket Accessories</u></b>
		<b><u>1/2" Drive Impact Wrench Chuck Adaptors</u></b>