

RV2053

20V Transducerized EPS Precision Nutrunner



- Incorporates a built-in transducer that is ideal for safety-critical applications with real-time torque feedback
- OLED display for instant achieved torque, angle, and batch count information
- Built-in 2-way wireless communication that can connect to a PLC unit, computer, or mobile device
- The Electronic Pulse System (EPS) is designed to reduce the reaction force
- The brushless motor ensures the use of wear-free components, which reduces maintenance costs and extends the life cycle of the product
- Precise auto shut-off when it reaches the desired torque with LED and buzzer indicator of joint status for either good or not-good fixing



TECHNICAL SPECIFICATIONS

Model	RV2053-WR45	RV2053-WR80	RV2053-WR120
Voltage	20V		
Drive	3/8" Square	1/2" Square	
Torque Range	8 - 45 Nm	12 - 80 Nm	40 - 120 Nm
Programmable Speed	20 - 200 RPM	20 - 130 RPM	20 - 100 RPM
Accuracy	Cmk (based on 6 σ) \geq 1.67 at \pm 10%		
Length (w/o battery)	52.5 cm	55.5 cm	
Tool Weight (w/o battery)	2.10 kg	2.5 kg	

NOISE/VIBRATION INFORMATION

Noise Value	Sound Pressure Level (L_{PA})	71.8 dB(A),
	Noise Uncertainty (K Factor)	3.0 dB(A)
Vibration Value	Average Vibration Level* (A_v)	1.35 m/s ²

* in accordance with ISO 5349-2:2001/Amd.1:2015

TECHNOLOGIES



DC motors have traditionally been driven by carbon brushes to power the motor. Over time these wear out and need replacing. All our motors are brushless meaning that the motor is controlled electronically without the need for carbon brushes ensuring your tool is maintenance-free.



We have leveraged decades of electrical expertise from some of the world's leading electrical engineers to develop our wireless platform to record and control our professional assembly tools, that can be remotely controlled via our software or different protocols for PLC systems.

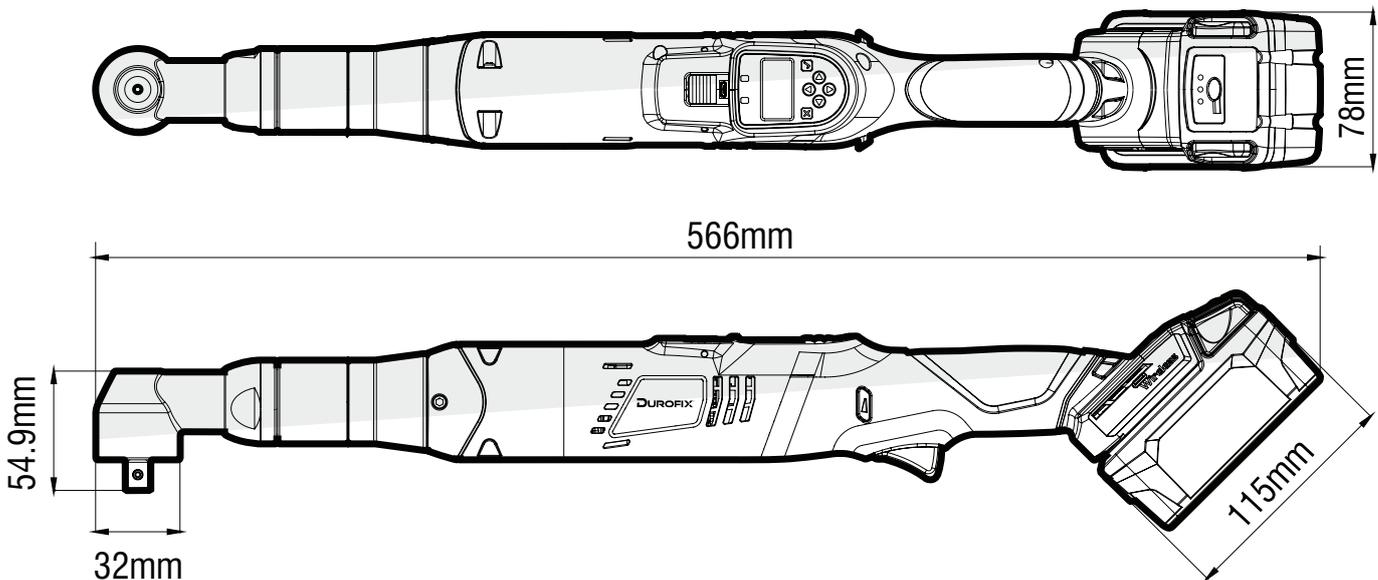


Our patent-pending All-In-One motor includes the power, control & communication board along with the automatic winding stator with an interior permanent magnet design rotor, all enclosed in a die-cast cover. These one-unit components have several advantages, including weight reduction, longer lifespan, and crucially our number one design goal of efficiency as there are no additional components to cool.



Our Electronic Pulse System is an electronic algorithm to dampen reactive forces for direct drive tools when they reach the desired torque. This process is achieved by pulsing the electric motor rather than applying continuous power to reduce the overall force applied to the user.

DIMENSIONAL DRAWING



TOOL FEATURES



Built-in transducer to provide real-time torque result feedback.



The auto shut-off function automatically shuts down the tool to prevent over-tightening and enhance safety during operation.



Low vibration minimises the risk of injury and fatigue on the operator, making it safer to use for long periods.



Our buzzer serves as an audible alert to notify the user of specific conditions or errors during operation, enhancing safety and efficiency.



Illuminate your workspace with the built-in LED light on this power tool, ensuring visibility in low-light conditions for enhanced work safety.