

Moza Racing R12 V2 Racing wheel base

Model: RS081

Manufacturer: MOZA RACING

EAN: 6973137270827

Product Code: 1646757

R8,639

The MOZA R12 V2 is a 12Nm direct drive wheel base for professional sim racing. Featuring a high-torque servo motor, low-cogging skewed-pole design, and the NexGen 4.0 force feedback algorithm, it delivers smooth, precise, and immersive driving. Built from aerospace-grade aluminum alloy with active cooling and full software integration, the R12 V2 offers top-tier performance and reliability for competitive racers.

12Nm DD Power

The 12 Nm servo direct drive system is tailor-made for simulating race cars, delivering a stable and realistic torque output of 12 Nm. It flawlessly replicates the steering force found in road and race cars, providing detailed and immersive feedback from the virtual vehicle and track surface directly to your hands.

21-Bit Magnetic Encoder

With 280MHz High-Performance Processor

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Divides each full rotation into 2,097,152 precise steps.

Delivers microscopic 0.00017° resolution.

Enables ultra-smooth control feel and instant response.

Reproduces exceptionally detailed force feedback.

High-Performance Slanted Pole Servo Motor

Race-grade Performance for Sim Racing

Innovative Segmented Rotor Design

Asymmetric segmented skew design Significantly reduces cogging torque & EM vibration Near-silent operation at all speeds

High Torque Density

Optimized slot-fill copper windings High-permeability silicon steel core NdFeB permanent magnets for maximum output

18-Slot/16-Pole Configuration

Multi-slot/pole design minimizes torque ripple. Enhanced damping for smoother feedback. Delivers precise and detailed steering response

Wide Torque Range

Low back-EMF design. Maintains consistent torque at high RPM. Eliminates abrupt torque drop-off

Carbon Fiber Wrapped Rotor

Automotive-grade rotor protection.

Effectively suppresses eddy current losses.

Superior thermal management for sustained performance.

Intelligent Temperature

Control System

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Our advanced system continuously monitors the temperature of the motor and electronic components in real-time, employing intelligent temperature control strategies to deliver stable and reliable performance in all circumstances.

Aviation-grade Aluminum

Experience unrivaled quality and durability with the MOZA R12. Its entire housing is constructed from aviation-grade aluminum alloy utilizing automotive-grade painting and laser etching, providing a long-lasting and extremely durable finish.

Industrial Conductive Slip Ring

The base and the steering wheel are connected through a automotive-grade conductive slip ring with a life span of over 5 million revolutions. The unique patented design has extremely high stability and durability while achieving infinite high-speed rotation.

Cloud-based Mobile

App Control

Enjoy on-the-fly changes using the MOZA app! Force feedback, pedal settings, and more can all be changed in real-time. One-click importing allows easy hassle free setup transfers to new devices.

Compact Design

The integrated motor design results in a compact size that still retains a standard 4 hole bottom mount pattern. It can be easily installed onto the vast majority of dedicated rigs and floorstands. In smaller spaces the base can be assembled with a desktop clamp, saving space whilst providing a convenient and enjoyable driving experience anytime, anywhere.

Hand-off Protection

This function can effectively avoid the risk of injury and quickly help restore control by detecting that hands are off the wheel. Once activated, it will quickly stop any oscillation and safely center the wheel. The NextGen3.0 also introduces Hand-off Protection Mode 2, providing protection without disrupting drifting. Additionally, it enhances force feedback response speed and overall driving sensations.

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