



REVO1™ DIRECT DRIVE MOTOR

The Halodi Robotics Revo1 Direct Drive Motor is a perfect solution for high-end robotics applications where high transmission ratios are not desired.

Offering high levels of torque in several sizes, these frameless motors can be selected for a number of game changing applications

By reducing the need for high transmission ratio ratio gears, implementations can benefit from significant reductions in cost, noise, backlash and friction.

The Revo1 offers the world's highest torque to weight direct drive motor, specifically tailored for low gear-ratio robotics.

FEATURES & BENEFITS

Highest torque-to-weight for direct drive robotics

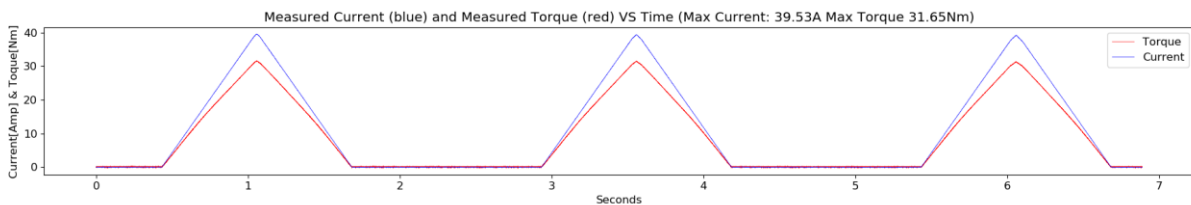
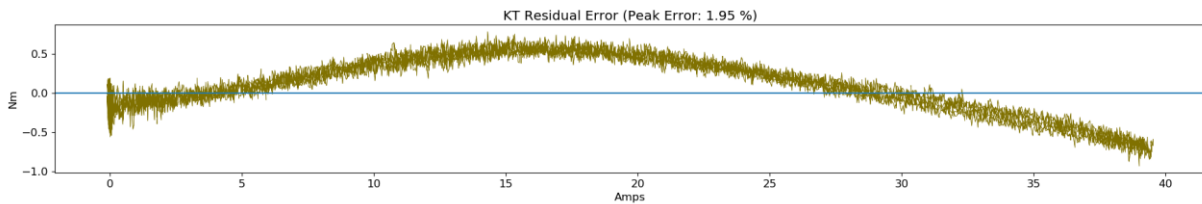
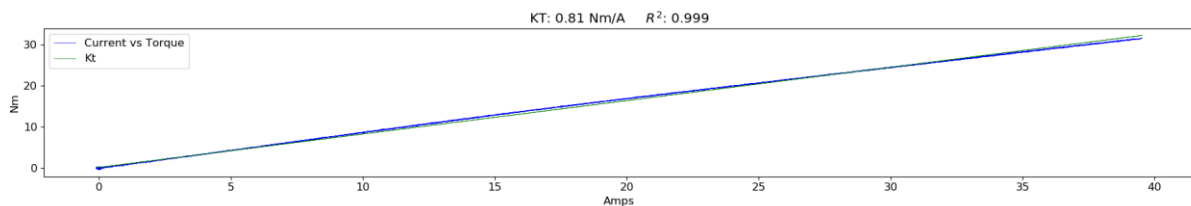
Backdrivability and compliance for safe interactions

Built in impact resistance for lighter and simpler mechanical designs



REV01-30	REV01-15	REV01-5
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Peak/nominal power	2400 W / 200 W	1200W/100W	600W/50W
Voltage range	0-400 V		
Peak/nominal torque	40Nm/10Nm	20Nm/5Nm	6.7Nm/1.7Nm
Torque-to-weight ratio	39.1 Nm/Kg	35.4 Nm/Kg	26.17 Nm/Kg
Torque Constant K_T	0.85 Nm/A	1.35 Nm/A	tbd
Velocity Constant K_V	1.18 rad/V/s	0.74 rad/V/s	tbd
Air gap radius	46.15 mm		
Dimensions (L x D)	39x103.3mm	23.5x103.3mm	13.5x103.3mm
Mass	1023g	565g	256g
Shaft diameter (ID/OD)	63.6mm/103.3mm		



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