

QDD Actuator for Robotics



PRODUCT FEATURES

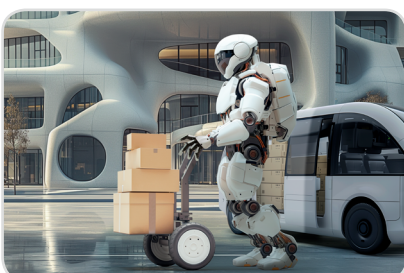
- All-in-One Integrated Design
- High Precision & High-Strength Gear
- Smooth Motion and Low Noise
- Compact & Lightweight Structure
- Superior Thermal Performance

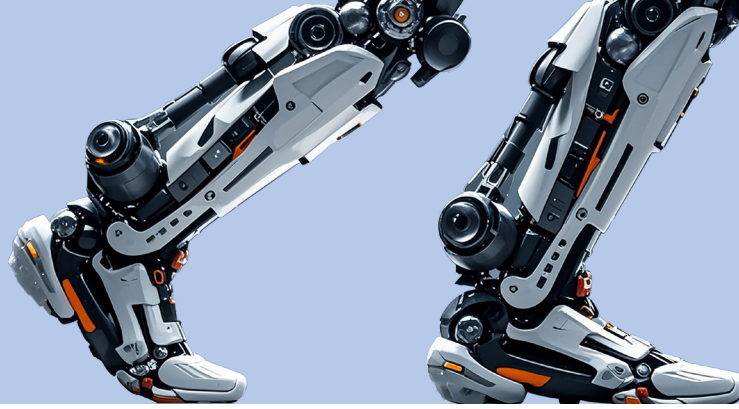
PRODUCT SERIES

Model	SPN054F003-6	SPN079V010-7	SPN079V015-6	SPN098V025-8	SPN098V044-9	SPN110V075-9
Rated Voltage [V]	24	48	48	48	48	48
Peak Torque [Nm]	3	7	9	25	53	120
Rated Speed [rpm]	200	400	490	243	235	167
Reduction Ratio	6:01	7:01	6:01	8:01	9:01	9:01
Outer Diameter [mm]	54	79	79	98	98	110

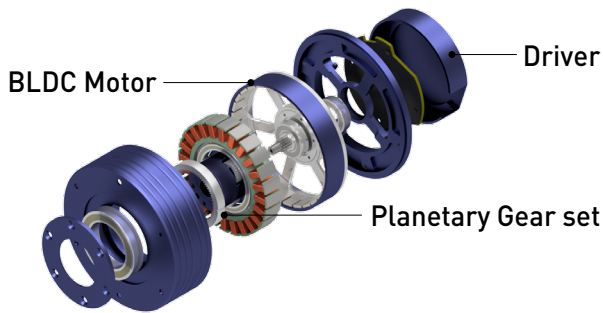
APPLICATIONS

Humanoid Robot / Prosthetic leg & Wearable Robot





All-in-One Integrated Design



High Precision and High Strength Gear

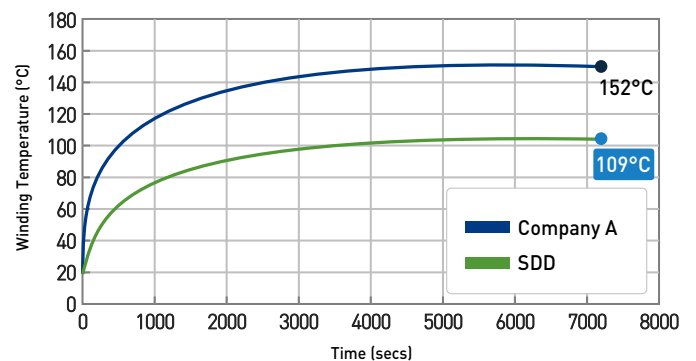
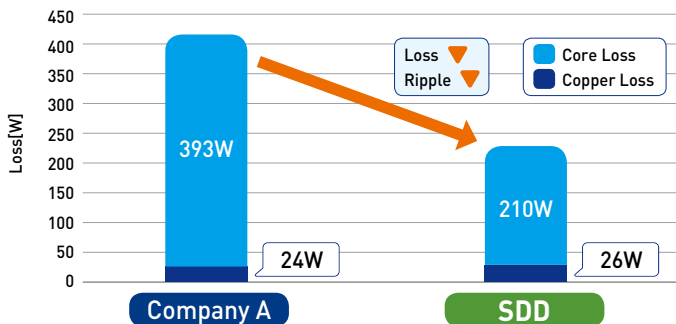
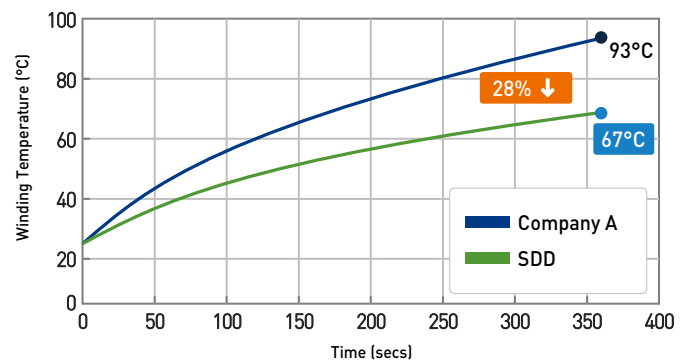


- Backlash ≤ 9 arcmin
- High-strength gear design
- Light weight planet gear set

Smooth Motion and High Efficiency

	Company A	SDD	
Cogging Torque [NmPk-Pk]	0.16	0.11	31.25% ↓
Torque Ripple [%]	4.4	1.5	2.9%p ↓
Efficiency [%]	70.4	80.7	10.3%p ↑

Superior Thermal performance



SDD is suitable for continuous operation