

Features and Benefits of WAM Arm

WAM ARM FEATURES	KEY BENEFITS
Lightweight design	Reduces moving inertia for faster cycle times
Compact, small footprint	Efficient use of space; adaptable to mobile platforms
Long and slender links	Reaches in and around obstacles with ease
Backdrivable	Extends force control along entire surfaces of joints throughout links
Kinematic redundancy	Unusually high dexterity in either 4 or 7 degree-of-freedom configurations
Human-like kinematics	Arm links form grasps around large objects (~1 m)
270-degree average joint mobility	Enhances dexterity and agility even beyond human capability
Zero-backlash and near-zero friction	Extraordinarily graceful motion
Modular construction	Interchangeable components
Brushless rare-earth	High torque, low mass, lower rotor inertia, servo motors and vacuum compatibility
Open control architecture	Excellent research tool: direct access to sinusoidally commutated current amplifiers for developing advanced control algorithms