

Motor determines for humanoid robot

The best motors that fit the requirement for small humanoid robot are servo motor and stepper motor. The following table includes the advantage and limitations for both of them:

	Advantage	Limitation
Servo Motor	<ul style="list-style-type: none">-Low cost-Variety of sizes and torque ratings- Easy to control	<ul style="list-style-type: none">-The motion of the motor limit with 180 degree-Accuracy of the motor positioning
Stepper Motor with Encoder	<ul style="list-style-type: none">- Precise repeatable positioning- Precise speed control- Excellent low-speed torque- Excellent 'holding torque' to maintain position	<ul style="list-style-type: none">-Low efficiency