







Robot Comparison Chart

Looking for a robot? The chart below can help you decide whether you want to roll, push or walk.

Scribbler™ Robot	Boe-Bot® Robot	SumoBot® Robot Competition Kit	Penguin	Propeller™ QuadRover™	Stingray Robot
					
Audience					
First-time programmers and roboticists	General Robotics/ Student <i>Most popular robot!</i>	Competition Robotics/ Advanced Robotics Student	Advanced Robot Enthusiasts	Advanced Robot Enthusiasts	Advanced Robot Enthusiasts
Reference Book(s)					
Scribbler Programming Guides (free .pdf downloads)	<i>Robotics with the Boe-Bot</i> tutorial by Andy Lindsay 319 pages	<i>SumoBot Manual</i> by Jon Williams and <i>Applied Robotics with the SumoBot</i> by Andy Lindsay	Penguin Programming Guide (free .pdf download)	Propeller QuadRover Programming Guide (free .pdf download)	Assumes familiarity with the Propeller microcontroller. See the Propeller Education Kit.
Microcontroller					
BS2 OEM (inside case)	BS2 module; accepts any 24-pin BASIC Stamp module	Surface-mount BS2	Surface-mount BS2PX	Surface-mount Propeller chip	Surface-mount Propeller chip
Features					
Fully assembled with Demo Program, custom program with text (PBASIC) or graphics (Scribbler Program Maker GUI)	Versatile, Expandable, and Easy to program	For use in autonomous MiniSumo Tournaments or your own matches, breadboard for custom circuits	Similar to the Toddler walking robot, yet much smaller. 7-segment LED offers sensor feedback.	Fully assembled 2.5 HP 4-stroke engine and disc brakes. Bot weighs 89 pounds. Demo programs available for download. Versatile and expandable.	Two strong DC spur gear motors, Propeller chip based control board, many mounting locations, and an easily interfaced design.
Capabilities					
IR object detection, line following, light following, LEDs, speaker, stall sensor.	IR Detection, light following, whiskers, servo control, piezospeaker	IR Detection, Edge Detection, Servo Control, customizable.	Servo control, light following, object detection with infrared, and "staying on the table"	Remote control operation, carry/tow a payload, GPS, compass, and accelerometer data.	Highly customizable with a sturdy support for loads and strong motors for mobility.

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Additional Support Accessories					
For full details click here.	- Tank Tread - PING)))™ Ultrasonic Sensor - Crawler Kit - QTI Line Follower	- PING)))™ Ultrasonic Sensor - Competition Ring Poster	- PING)))™ Ultrasonic Sensor - IR Remote	For full details click here.	Free online Propeller Tool Programming software, and a community of Propeller enthusiasts on our forums.
Time Required to Assemble					
None!	1 hour	1 hour	3 hours	None	2 hours
Time Required to Complete Initial Programming					
Reprogrammable Preprogrammed	40 hours	40 hours	4 hours - Demo program source code available for download.	1 hour - Demo program source code available for download.	None, assumes familiarity with Propeller microcontroller.