

Competition Starter Kit (\$1,244.99)

Electronics

(1) V5 Robot Brain
 (1) V5 Controller
 (1) V5 Robot Radio
 (1) V5 Robot Battery Li-Ion 1100mAh
 (1) V5 Robot Battery Cable
 (1) V5 Robot Battery Charger
 (4) V5 Smart Motors
 (2) Bumper Switch v2
 (3) 300mm Smart Cables
 (1) 600mm Smart Cable
 (1) 900mm Smart Cable
 (1) USB A to Micro Cable

Motion

(1) V5 Claw Assembly
 (4) 2.75" Wheels
 (2) 4" Omni Wheel
 (2) 4" Wheel
 (5) 12T Metal Pinion
 (4) 36T High Strength Gears
 (4) 60T High Strength Gears
 (5) 84T High Strength Gears
 (5) 12T Metal Pinion Insert
 (26) High Strength Gear Shaft Insert
 (16) Free Spinning Gear Inserts
 (4) 2" Shafts
 (6) 3" Shafts
 (1) 3.5" Shaft
 (5) 4" Shafts
 (4) 12" Shafts
 (4) 6T High Strength Sprockets
 (2) 12T High Strength Sprockets
 (2) 18T High Strength Sprockets
 (2) 24T High Strength Sprockets
 (2) 30T High Strength Sprockets
 (140) High Strength Chain Links
 (20) Chain Attachment Links
 (25) Tank Tread Traction Links
 (30) Conveyor-belt Base Links
 (12) Short Conveyor-belt Inserts
 (10) Medium Conveyor-belt Inserts
 (10) Tall Conveyor-belt Inserts

Structure

Classroom Starter Kit (\$812.79)

(1) V5 Robot Brain
 (1) V5 Controller
 (1) V5 Robot Radio
 (1) V5 Robot Battery Li-Ion 1100mAh
 (1) V5 Robot Battery Cable
 (1) V5 Robot Battery Charger
 (4) V5 Smart Motors
 (2) Bumper Switch v2
 (3) 300mm Smart Cables
 (1) 600mm Smart Cable
 (1) 900mm Smart Cable
 (1) USB A to Micro Cable

(1) V5 Claw Assembly
 (2) 4" Omni Wheels
 (2) 4" Wheels
 (1) 12T Metal Pinion
 (1) 84T High Strength Spur Gear
 (1) 12T Metal Pinion Insert
 (10) High Strength Gear Shaft Inserts
 (2) 2" Shafts
 (2) 3" Shafts
 (1) 3.5" Shaft
 (3) 4" Shafts

Additions to create competition starter kit

(4) 2.75" Wheels

(4) 12T Metal Pinion
 (4) 36T High Strength Gears
 (4) 60T High Strength Gears
 (4) 84T High Strength Gears
 (4) 12T Metal Pinion Insert
 (16) High Strength Gear Shaft Inserts
 (16) Free Spinning Gear Inserts
 (2) 2" Shafts
 (4) 3" Shafts

(2) 4" Shafts
 (4) 12" Shafts
 (4) 6T High Strength Sprockets
 (2) 12T High Strength Sprockets
 (2) 18T High Strength Sprockets
 (2) 24T High Strength Sprockets
 (2) 30T High Strength Sprockets
 (140) High Strength Chain Links
 (20) Chain Attachment Links
 (25) Tank Tread Traction Links
 (30) Conveyor-belt Base Links
 (12) Short Conveyor-belt Inserts
 (10) Medium Conveyor-belt Inserts
 (10) Tall Conveyor-belt Inserts

VEX P/N**cost****comment**

\$ 430.00 just a few \$ extra to upgrade later

276-1496 \$ 11.89

276-2251 \$ 7.86 1/3 of kit
 276-7747 \$ 9.25 1/2 of kit
 276-7748 \$ 9.25 1/2 of kit
 276-7749 \$ 18.59
 276-2251 \$ - included in kit 276-2251
 276-3881 \$ 11.89 1.5x 276-3881 reqd
 276-3881 \$ 5.95 half kit+1/2 from 276-3876
 276-1149 \$ 10.89 cut to length
 276-1149 \$ -
 276-1149 \$ 10.89 keep one kit, cut 2nd kit
 276-3876 \$ 7.75 1/2 of kit
 276-3877 \$ 7.75 1/2 of kit
 276-3878 \$ 7.75 1/2 of kit
 276-3879 \$ 7.75 1/2 of kit
 276-3880 \$ 7.75 1/2 of kit
 276-2172 \$ 29.99
 276-2172 \$ - included in kit 276-2172
 276-2214 \$ 29.99
 276-2214 \$ - included in kit 276-2214
 276-2214 \$ - included in kit 276-2214
 276-2214 \$ - included in kit 276-2214
 276-2214 \$ - included in kit 276-2214

(3) 2x2x2x20 Aluminum U-Channels	(3) 2x2x2x20 Steel U-Channels				
(2) 1x2x1x15 Aluminum C-Channels	(2) 1x2x1x15 Steel C-Channels				
(4) 1x2x1x25 Aluminum C-Channels	(2) 1x2x1x25 Steel C-Channels	(2) 1x2x1x25 Steel C-Channels	276-2288	\$ 8.67	1/3 of kit
(6) 1x2x1x35 Aluminum C-Channels		(6) 1x2x1x35 Aluminum C-Channels	276-2289	\$ 42.99	
(2) 2x2x14x20 Aluminum Angles	(2) 2x2x14x20 Steel Angles				
(4) 2x2x25 Aluminum Angles		(4) 2x2x25 Aluminum Angles	276-2304	\$ 28.66	2/3 of kit cut down to 25
(2) 1x1x35 Aluminum Angles		(2) 1x1x35 Aluminum Angles	276-6484	\$ 9.60	1/3 of kit
(4) 5x25 Aluminum Plates		(4) 5x25 Aluminum Plates	276-2311	\$ 19.99	2/3 of kit
(4) 90-Degree Gussets		(4) 90-Degree Gussets	276-2577	\$ 8.25	
(25) Flat Bearing	(5) Flat Bearing	(20) Flat Bearing	276-1209	\$ 11.98	2 kits
(12) Pillow Block Bearing		(12) Pillow Block Bearing	276-2016	\$ 9.69	
(8) Drive Shaft Bar Locks		(8) Drive Shaft Bar Locks	276-2016	\$ 9.69	
(23) Rubber Shaft Collar	(23) Rubber Shaft Collar				
(32) Shaft Collars		(32) Shaft Collars	276-6103	\$ 19.38	2 kits
(6) 0x2 Connector Pin	(6) 0x2 Connector Pin				
(28) 1/8" Spacer	(8) 1/8" Nylon Spacer	(20) 1/8" Spacer	276-6340	\$ 11.98	2 kits
(20) 1/4" Spacers		(20) 1/4" Spacers	276-6340	\$ -	included in 276-6340
(14) 3/8" Spacer	(4) 3/8" Nylon Spacer	(10) 3/8" Spacer	276-6340	\$ -	included in 276-6340
(13) 1/2" Spacer	(3) 1/2" Nylon Spacer	(10) 1/2" Spacer	276-6340	\$ -	included in 276-6340
(2) 7/8" Spacer	(2) 7/8" Nylon Spacer				
(25) #8-32 x 1/4" Locking Star Drive Screws					
(29) #8-32 x 1/2" Locking Star Drive Screws	(4) #8-32 x 1/2" Locking Star Drive Screw	(25) #8-32 x 1/2" Locking Star Drive Screw			stock from robosource
(4) #8-32 x 1.500" Locking Star Drive Screws	(4) #8-32 x 1.500" Locking Star Drive Screw				
(50) #8-32 x 3/8" Star Drive Screws	(30) #8-32 x 3/8" Star Drive Screw	(20) #8-32 x 3/8" Star Drive Screw			stock from robosource
(25) #8-32 x 1/2" Star Drive Screws					
(27) #8-32 x 1.000" Star Drive Screws	(2) #8-32 x 1.000" Star Drive Screw	(25) #8-32 x 1.000" Star Drive Screw			stock from robosource
(30) #8-32 Hex Nuts	(30) #8-32 Hex Nut				
(200) #8-32 Nylock Nuts		(200) #8-32 Nylock Nuts			stock from robosource
(35) 1-Post Hex Nut Retainer w/ Flat Bearings	(15) 1-Post Hex Nut Retainer w/ Flat Bearing	(20) 1-Post Hex Nut Retainer w/ Flat Bearing	276-6481	\$ 11.98	2 kits
(25) 1-Post Hex Nut Retainers	(5) 1-Post Hex Nut Retainer	(20) 1-Post Hex Nut Retainer	276-6482	\$ 11.98	2 kits
(27) 4-Post Hex Nut Retainers	(7) 4-Post Hex Nut Retainer	(20) 4-Post Hex Nut Retainer	276-6483	\$ 11.98	2 kits
(10) 1/2" Standoffs		(10) 1/2" Standoffs	275-1014	\$ 3.59	
(8) 1" Standoffs		(8) 1" Standoffs	275-1016	\$ 4.75	
(8) 2" Standoffs		(8) 2" Standoffs	275-1018	\$ 9.69	
Tools & Accessories	Tools				
(2) #32 Rubber Bands	(2) #32 Rubber Bands				
(2) V5 Battery Clips	(2) V5 Battery Clips				
(2) Open End Wrenches		(2) Open End Wrenches			
(2) T8 Star Drive Keys		(2) T8 Star Drive Keys			
(4) T15 Star Drive Keys	(2) T15 Star Drive Key	(2) T15 Star Drive Key			
(100) 4" Zip Ties	(50) 4" Zip Ties	(50) 4" Zip Ties			
(1) V5 Clawbot Instruction Manual	(1) V5 Clawbot Instruction Manual				