

V5 CLASSROOM SUPER KIT

Structure

Channels

- (4) 2x2x2x20 Steel U-Channel
- (4) 1x2x1x15 Steel C-Channels
- (4) 1x2x1x25 Steel C-Channels

Angles

- (2) 1x1x25 Steel Angles
- (2) 2x2x14x20 Steel Angles
- (2) 2x2x20 Steel Angles
- (2) 2x2x25 Steel Angles

Additional Steel Structure

- (1) 5x15 Plate
- (2) 5x25 Plates
- (8) 1x25 Bars
- (4) Angle Gussets
- (4) Plus Gussets
- (4) Pivot Gussets
- (2) 15x30 Base Plates

Nuts & Connectors

- (35) 1-Post Hex Nut Retainer w/ Flat Bearing
- (25) 1-Post Hex Nut Retainers
- (27) 4-Post Hex Nut Retainers
- (100) #8-32 Keps Nuts
- (130) #8-32 Hex Nuts
- (6) 0x2 Connector Pin

Screws

- (25) #8-32 x 1/4" Locking Star Drive Screws
- (29) #8-32 x 1/2" Locking Star Drive Screws
- (4) #8-32 x 1.500" Locking Star Drive Screws
- (50) #8-32 x 1/4" Star Drive Screws
- (80) #8-32 x 3/8" Star Drive Screws
- (25) #8-32 x 1/2" Star Drive Screws
- (25) #8-32 x 3/4" Star Drive Screws
- (2) #8-32 x 1.000" Star Drive Screws

Standoffs

- (4) 3" Standoffs
- (4) 2" Standoffs
- (8) 1" Standoffs
- (10) 1/2" Standoffs

Bearings

- (12) Bearing Blocks
- (8) Lock Bars
- (25) Flat Bearings

Shaft Hardware

- (28) 1/8" Spacers
- (20) 1/4" Spacers
- (14) 3/8" Spacers
- (13) 1/2" Spacers
- (2) 7/8" Spacers
- (83) Rubber Shaft Collars

Electronics

V5 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
- (1) V5 Robot Battery Charger Adapter UK (Type G)
- (1) V5 Robot Battery Charger Adapter EU (Type C)
- (1) V5 Robot Battery Charger Adapter ANZ (Type I)
- (6) V5 Smart Motors
- (4) Bumper Switch v2
- (1) Vision Sensor

V5 Smart Cables

- (2) 200mm Smart Cables
- (4) 300mm Smart Cables
- (2) 600mm Smart Cables
- (1) 900mm Smart Cables

Legacy 3-Wire Cables

- (2) 6" 3-Wire Cables
- (2) 12" 3-Wire Cables
- (1) 24" 3-Wire Cable
- (1) 36" 3-Wire Cable
- (2) 6" Y-Cables

Legacy Sensors

- (1) Ultrasonic Range Finder
- (2) Potentiometers

Charging Cable

- (1) USB A to Micro Cable

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Motion

Shafts

- (4) 2" Shafts
- (6) 3" Shafts
- (1) 3.5" Shaft
- (5) 4" Shafts
- (4) 12" Drive Shafts

High Strength Gears

- (5) 12T Metal Pinion
- (5) 12T Metal Pinion Inserts
- (4) 36T High Strength Gears
- (4) 60T High Strength Gears
- (5) 84T High Strength Spur Gears
- (10) High Strength Gear Shaft Inserts
- (5) 12T High Strength Gear Inserts
- (16) High Strength Square Gear Insert
- (16) Free Spinning Gear Insert

High Strength Sprockets & Chain

- (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
- (280) High Strength Chain Links
- (40) Chain Attachment Links

Wheels

- (4) 2.75" Wheels
- (4) 3.25" Traction Wheels
- (4) 3.25" Omni-Directional Wheels
- (4) 4" Omni-Directional Wheels
- (4) 4" Wheels
- (4) 4" Mecanum Wheels

Additional Motion Components

- (2) 12" Long Linear Slide Tracks
- (2) 17.5" Long Linear Slide Tracks
- (2) Rack Gearbox Brackets
- (4) Inner Acetal Slide Trucks
- (4) Outer Acetal Slide Trucks
- (1) V5 Claw Assembly
- (16) Rack Gear v2
- (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
- (1) Winch Bracket
- (1) Winch Drum
- (1) Ratchet Gear
- (1) Winch Pawl
- (8) VEX Pulleys
- (1) 4' Rope Section
- (8) Intake Rollers
- (2) Hand Crank
- (1) Lead Screw Nut
- (4) Lead Screw Segments
- (2) Lead Screw Mounting Brackets
- (2) 16T Bevel Gears
- (2) 32T Bevel Gears
- (4) Worm Wheels
- (4) Worm Gears
- (2) Drop Off Cams
- (2) Cam Followers
- (2) Cam Follower Mounting Brackets
- (2) Universal Joints
- (1) 2.6" Diameter Turntable Bearings
- (1) 4.25" Diameter Turntable Bearings

Tools & Accessories

- (2) V5 Battery Clips
- (1) Latex Tubing (10')
- (22) #32 Rubber Bands
- (2) Open End Wrench
- (2) T8 Star Drive Key
- (4) T15 Star Drive Keys
- (50) 4" Zip Ties
- (1) V5 Clawbot Instruction Guide