



VEX IQ Challenge Legal Parts

2017-2018

This document is a supplement to rule <R6> of the VEX IQ Challenge Ringmaster Game Manual, which governs what VEX IQ parts are legal for use in the VEX IQ Challenge. Rule <R6> is quoted below for reference:

<R6> Robots may be built ONLY from Official *Robot* Components from the VEX IQ product line, unless otherwise specifically noted within these rules.

- a. During inspections if there is a question about whether something is an official VEX IQ component, a team will be required to provide documentation to an inspector that proves the component's source. Such types of documentation include receipts, part numbers, or other printed documentation.
- b. Only the VEX IQ components specifically designed for use in *Robot* construction are allowed. Using additional components outside their typical purpose is against the intent of the rule (i.e. please don't try using VEX IQ apparel, team or event support materials, packaging, field elements or other non-robot products on a VEX IQ Challenge *Robot*).
- c. Products from the VEX EDR or VEXpro product line cannot be used for *Robot* construction. Products from the VEX product line that are also cross listed as part of the VEX IQ product line are legal.
- d. Mechanical/structural components, aside from those excluded below, from the VEX Robotics by HEXBUG product line are legal for *Robot* construction. However, electrical components from the VEX Robotics by HEXBUG product line are illegal for *Robot* construction.

The following mechanical and structural components from the VEX Robotics by HEXBUG product line are excluded:
 - i. All rubber bands
- e. Official Robotics Components from the VEX IQ product line that have been discontinued are still legal for *Robot* use. However, teams must be aware of <R6a>.
- f. 3D printed versions of VEX IQ components are not legal for use.

This document is current as of August 17, 2017 and is subject to change whenever new VEX IQ, VEX Robotics by HEXBUG, or other legal components are released. The most recent version of this



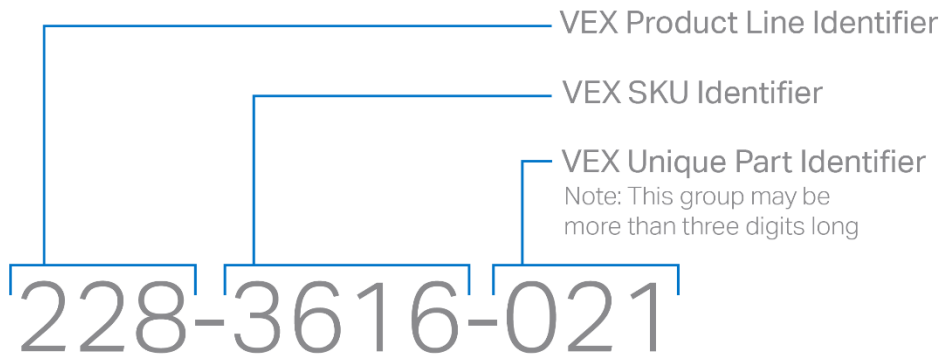
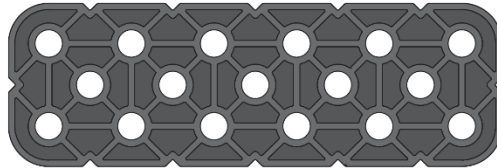
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document can always be found at www.vexrobotics.com. Questions concerning part legality can be posted in the official VEX IQ Challenge Q&A Forum, found at www.vexiqforum.com.

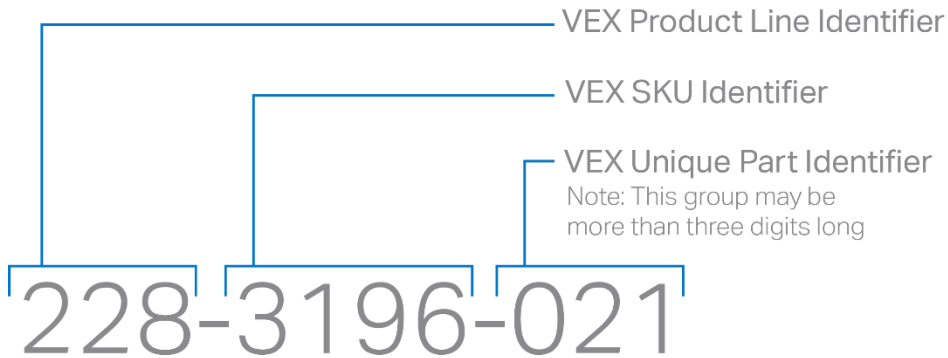
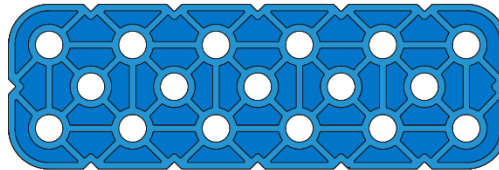
Note: Because VEX IQ parts come in many colors, any colors depicted in the renderings below may not necessarily reflect the colors of the final physical products.

VEX IQ Part Number Information

Example Part Number: Dark Grey 2x6 Beam



Example Part Number: Blue 2x6 Beam



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Where to Find Part Identifier

Embossed part numbers can be found on larger VEX IQ parts. Some examples of their locations are pictured below.

Beams



Corner Connectors



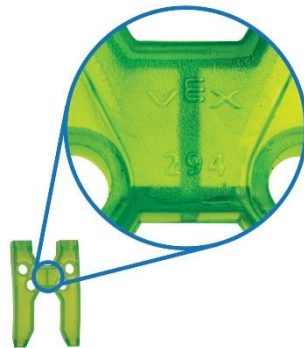
Wheels

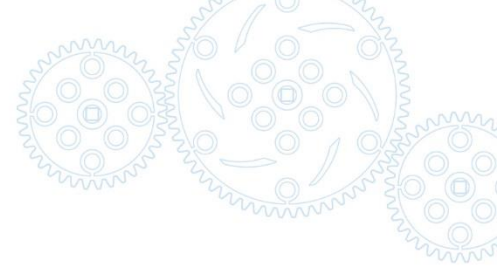


Gears/Sprockets/Pulleys



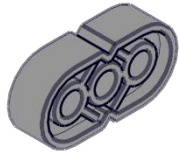
VEX Robotics by HEXBUG





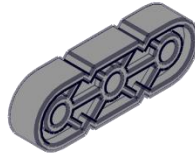
Structure

228-2500-001



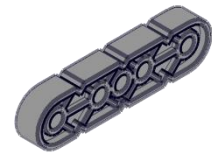
1x2 Beam

228-2500-002



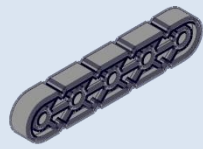
1x3 Beam

228-2500-003



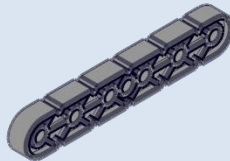
1x4 Beam

228-2500-004



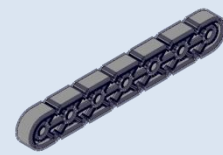
1x5 Beam

228-2500-005



1x6 Beam

228-2500-006



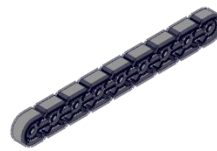
1x7 Beam

228-2500-007



1x8 Beam

228-2500-008



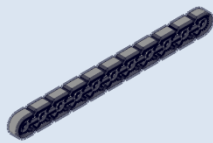
1x9 Beam

228-2500-009



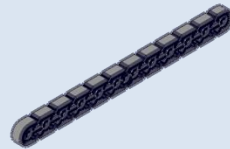
1x10 Beam

228-2500-010



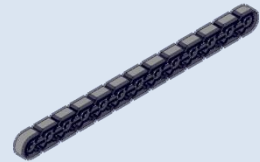
1x11 Beam

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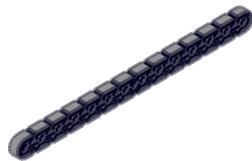
1x12 Beam

228-2500-012



1x13 Beam

228-2500-013



1x14 Beam

228-2500-014



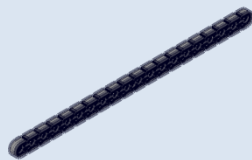
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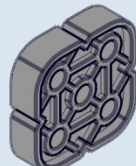
1x18 Beam

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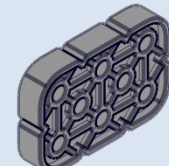
1x20 Beam

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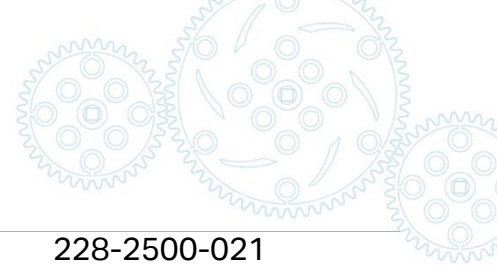
2x2 Beam

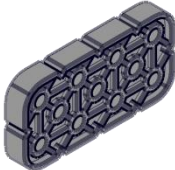
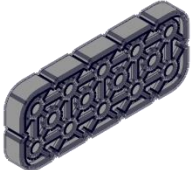

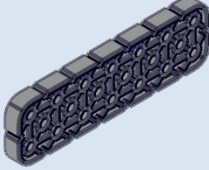
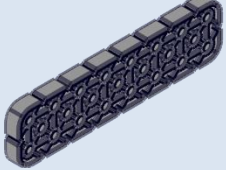
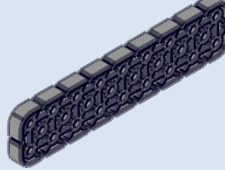









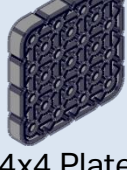
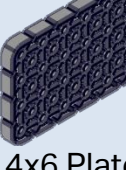
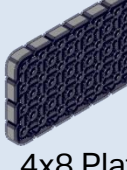
228-2500-018



2x3 Beam










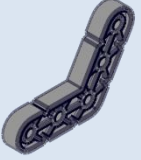
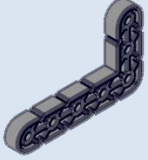


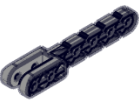
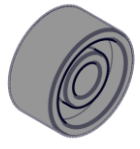
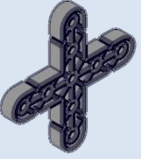
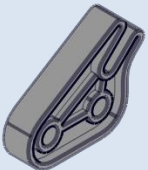
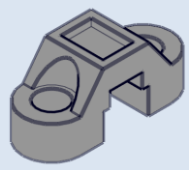
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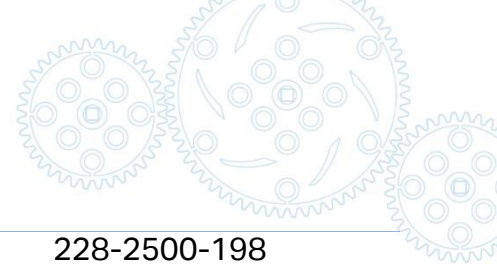
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<p>228-2500-022</p>  <p>2x7 Beam</p>	<p>228-2500-023</p>  <p>2x8 Beam</p>	<p>228-2500-024</p>  <p>2x9 Beam</p>
<p>228-2500-025</p>  <p>2x10 Beam</p>	<p>228-2500-026</p>  <p>2x12 Beam</p>	<p>228-2500-027</p>  <p>2x14 Beam</p>
<p>228-2500-028</p>  <p>2x16 Beam</p>	<p>228-2500-029</p>  <p>2x18 Beam</p>	<p>228-2500-030</p>  <p>2x20 Beam</p>
<p>228-2500-034</p>  <p>3x6 Plate</p>	<p>228-2500-036</p>  <p>3x10 Plate</p>	<p>228-2500-037</p>  <p>3x12 Plate</p>
<p>228-2500-040</p>  <p>4x4 Plate</p>	<p>228-2500-042</p>  <p>4x6 Plate</p>	<p>228-2500-043</p>  <p>4x8 Plate</p>

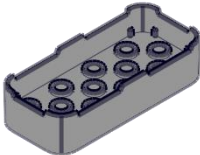
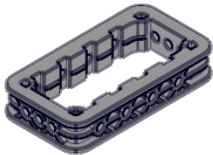
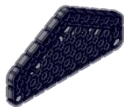






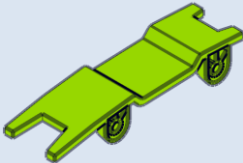
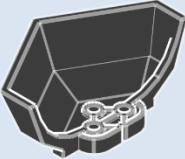
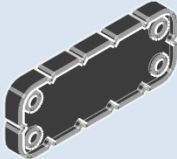
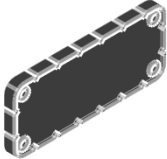
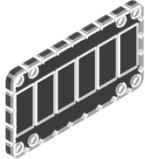


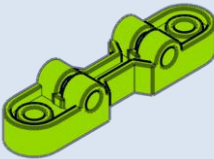
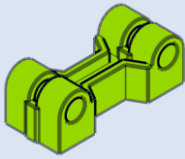
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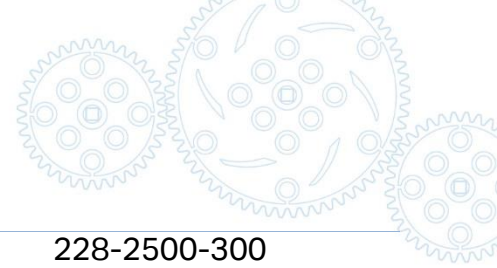
<p>228-2500-045</p>  <p>4x12 Plate</p>	<p>228-2500-046</p>  <p>4x16 Plate</p>	<p>228-2500-051</p>  <p>6x12 Plate</p>
<p>228-2500-059</p>  <p>12x12 Plate</p>	<p>228-2500-144</p>  <p>3x4 Tee Beam</p>	<p>228-2500-145</p>  <p>2x3 Right Angle Beam</p>
<p>228-2500-146</p>  <p>3x3 Right Angle Beam</p>	<p>228-2500-147</p>  <p>3x3 30 Degree Angle Beam</p>	<p>228-2500-148</p>  <p>3x3 45 Degree Angle Beam</p>
<p>228-2500-149</p>  <p>3x3 60 Degreee Angle Beam</p>	<p>228-2500-150</p>  <p>3x5 Right Angle Beam</p>	<p>228-2500-151</p>  <p>4x4 Offset Right Angle Beam</p>
<p>228-2500-152</p>  <p>5x6.5 Tee Beam</p>	<p>228-2500-153</p>  <p>1x7 Spider Fork Beam</p>	<p>228-2500-154</p>  <p>1x1 Beam</p>
<p>228-2500-156</p>  <p>3x3 Plus Gusset Beam</p>	<p>228-2500-157</p>  <p>Rubber Band Anchor</p>	<p>228-2500-158</p>  <p>Cable Anchor</p>

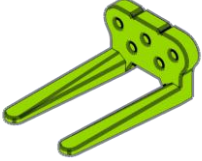



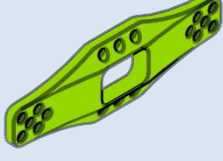




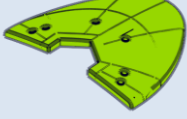
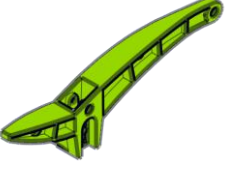





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<p>228-2500-159</p>  <p>Single Motor Support Cap 228-2500-203</p>	<p>228-2500-160</p>  <p>Dual Motor Support Cap 228-2500-204</p>	<p>228-2500-198</p>  <p>XL Turntable Spider Top Plate 228-2500-205</p>
 <p>6x10 Bone Plate 228-2500-285</p>	 <p>6x Pitch Cube Face 228-2500-286</p>	 <p>12x12 Truss Plate 228-2500-287</p>
 <p>160mm Fender Panel Left 228-2500-288</p>	 <p>160mm Fender Panel Right 228-2500-289</p>	 <p>Racer Nose Panel 228-2500-290</p>
 <p>Racer Windscreen 228-2500-291</p>	 <p>Hex Cup Half 228-2500-292</p>	 <p>Blank Year Plate 228-2500-293</p>
 <p>Blank Award / VIQC Team Number Plate 228-2500-294</p>	 <p>Blank VRC / VEXU Team Number Plate 228-2500-295</p>	 <p>1x8 Ballista Arm 228-2500-296</p>
 <p>Ball Machine Claw</p>	 <p>Track Tiebar with Mounting</p>	 <p>Track Tiebar</p>

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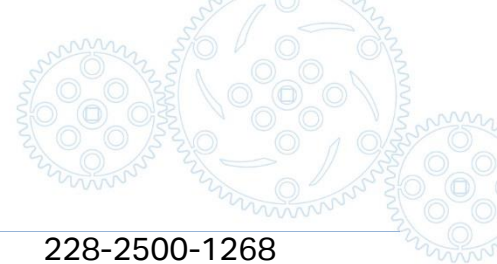
<p>228-2500-298</p>  <p>Fork Lift Beam 228-2500-301</p>	<p>228-2500-299</p>  <p>Skyhook Hood 228-2500-302</p>	<p>228-2500-300</p>  <p>Strandbeast Shoulder Blade 228-2500-303</p>
 <p>Strandbeast Leg 228-2500-304</p>	 <p>Strandbeast Face Plate 228-2500-305</p>	 <p>Strandbeast Spine Arch 228-2500-306</p>
 <p>3-Way 2x3 Plate 228-2500-307</p>	 <p>3-Way Perpendicular 1x2 Plate 228-2500-308</p>	 <p>Spider Leg 228-2500-309</p>
 <p>Spider Face Plate 228-2500-310</p>	 <p>Spider Top Plate - Front 228-2500-311</p>	 <p>Spider Top Plate - Rear 228-2500-312</p>
 <p>Scarab Leg 228-2500-313</p>	 <p>Scarab Top Shell 228-2500-315</p>	 <p>Scarab Front Shell 228-2500-316</p>
 <p>Scarab Rear Shell</p>	 <p>Ant Front Plate</p>	 <p>Ant Center Plate</p>

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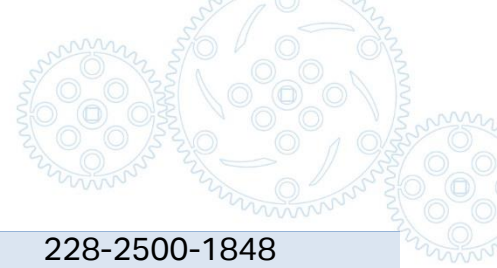
<p>228-2500-317</p>  <p>Ant Rear Plate 228-2500-322</p>	<p>228-2500-320</p>  <p>Ant Front Antenna</p>	<p>228-2500-321</p>  <p>Ant Rear Antenna</p>
 <p>2x6 Beam with Chamfered Ends 228-2500-401</p>	<p>228-2500-323</p>  <p>1x6 Smooth Beam</p>	<p>228-2500-400</p>  <p>2x1 Left Corner Beam</p>
 <p>2x1 Right Corner Beam 228-2500-478</p>	<p>228-2500-471</p>  <p>17x Robot Arm Beam 228-2500-481</p>	<p>228-2500-472</p>  <p>12x Robot Arm Beam 228-2500-487</p>
 <p>6x2x2 Tee Beam 228-2500-495</p>	 <p>76mm Ball (Sun) 228-2500-500</p>	 <p>19mm Ball (Moon) 228-2500-507</p>
 <p>38mm Ball (Earth) 228-2500-509</p>	 <p>25mm Ball 228-2500-1110</p>	 <p>2x4 25mm Ball Shooter Plate (Weak) 228-2500-1117</p>
 <p>2x4 25mm Ball Shooter Plate (Strong)</p>	 <p>1x6 (3-4-5 Triangle) Diagonal Offset Truss Beam</p>	 <p>7x9x11 (6-8-10 Triangle) Truss Plate</p>

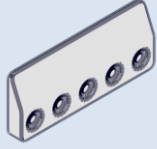
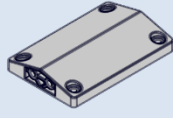
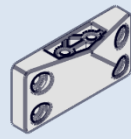








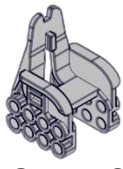
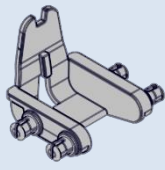



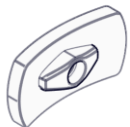

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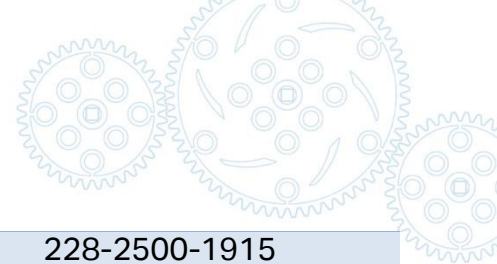
<p>228-2500-1189</p>  <p>2x3 Delta Tee Beam</p>	<p>228-2500-1199</p>  <p>2x4x2 Double 60 Degree Beam</p>	<p>228-2500-1268</p>  <p>2x Wide, 3x3 60 Degree Angle Beam</p>
<p>228-2500-1270</p>  <p>4x4 25mm Tube Plus Plate</p>	<p>228-2500-1277</p>  <p>25mm Half Tube 6x Pitch Straight</p>	<p>228-2500-1287</p>  <p>25mm Half Tube 60 Degree Turn Small</p>
<p>228-2500-1302</p>  <p>25mm Half Tube 3x Pitch Barrel End</p>	<p>228-2500-1357</p>  <p>3x4 1x Offset Trapezoid Plate</p>	<p>228-2500-1436</p>  <p>2x6 Handle Plate</p>
<p>228-2500-1445</p>  <p>2x8 Medium Convex Plate</p>	<p>228-2500-1486</p>  <p>2x2 45 Degree Beam</p>	<p>228-2500-1556</p>  <p>2x6x2 30 Degree Jogged Beam</p>
<p>228-2500-1600</p>  <p>3x12 Girder Plate; 2x8 2x Offset Trapezoid</p>	<p>228-2500-1601</p>  <p>5x2x2 Tee Beam</p>	<p>228-2500-1698</p>  <p>5x Pitch Diameter, 10x Pitch Long Half Round Panel</p>

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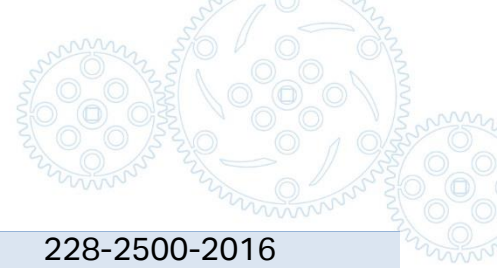
<p>228-2500-1705</p>  <p>2x5 Base, Extended 0.5 x 1x Pitch Sloped Panel 228-2500-1849</p>	<p>228-2500-1828</p>  <p>4x6 Base, Dual 0.5 x 2x Pitch Double Slope Panel</p>	<p>228-2500-1848</p>  <p>4x2 Base, Dual 0.5 x 2x Pitch Fade Double Slope Panel</p>
 <p>4x5 Base, Dual 0.5 x 2x Pitch Extended Fade Slope Panel 228-2500-1853</p>	<p>228-2500-1851</p>  <p>Minifigure Upper Torso</p>	<p>228-2500-1852</p>  <p>Minifigure Lower Torso</p>
 <p>Minifigure Shoulder Pin 228-2500-1856</p>	<p>228-2500-1854</p>  <p>Minifigure Arm - Left</p>	<p>228-2500-1855</p>  <p>Minifigure Arm - Right 228-2500-1858</p>
 <p>Minifigure Leg - Left</p>	 <p>Minifigure Leg - Right</p>	 <p>Minifigure Seat - Over-beam Snap Hole</p>
<p>228-2500-1859</p>  <p>Minifigure Seat - Arm Rest Snap Pin 228-2500-1899</p>	<p>228-2500-1897</p>  <p>Astronaut Figure</p>	<p>228-2500-1898</p>  <p>Astronaut Head 228-2500-1905</p>
 <p>Astronaut Backpack</p>	<p>228-2500-1900</p>  <p>1.5x3 Oblong Satellite Dish</p>	 <p>2.5x1.4 Widescreen Monitor</p>

VEX IQ Challenge 2017-2018 Legal Parts



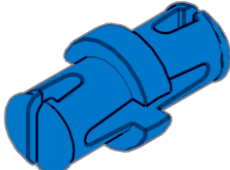
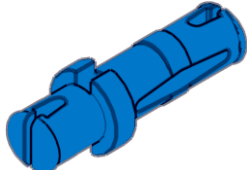
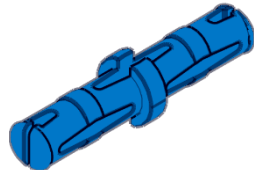
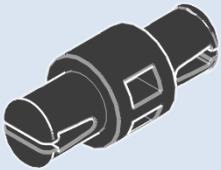
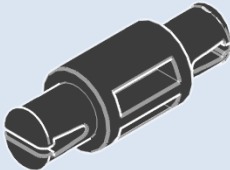
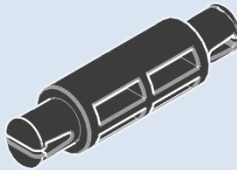
<p>228-2500-1909</p>  <p>1x Pitch Actuator Handle 228-2500-1918</p>	<p>228-2500-1911</p>  <p>Medium Rocket Engine Nozzle 228-2500-1921</p>	<p>228-2500-1915</p>  <p>2.5x3 Cylindrical Tank 228-2500-1924</p>
 <p>3x Pitch Ducted Fan Housing 228-2500-2000</p>	 <p>4x Pitch Ducted Fan Housing 228-2500-2001</p>	 <p>2x1x1 Landing Gear Beam 228-2500-2002</p>
 <p>6x6 Hexagon Plate 228-2500-2003</p>	 <p>4x7x4 Offset Channel Beam 228-2500-2004</p>	 <p>3x5x3.5 Vehicle Cab 228-2500-2006</p>
 <p>4.5x4.5 Diagonal Corner Panel 228-2500-2007</p>	 <p>2x7 Landing Gear Panel 228-2500-2008</p>	 <p>2x5 Eagle Head Panel 228-2500-2009</p>
 <p>2x4.75 Curved Fade Panel 228-2500-2010</p>	 <p>3x5.5 Front Shuttle Panel 228-2500-2011</p>	 <p>3x5 Dual Curved Fade Panel 228-2500-2012</p>
 <p>9x4.5 Solar Flat Panel</p>	 <p>2x1x1.5 Offset Wing Connector</p>	 <p>Right Shuttle Wing</p>

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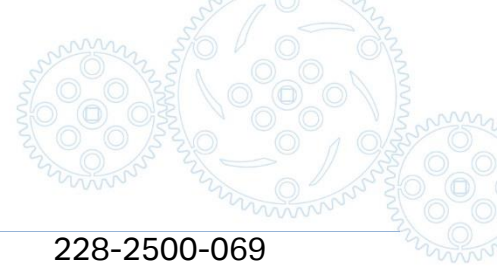


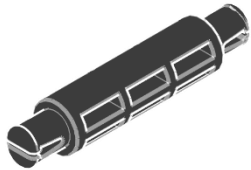
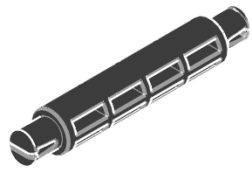


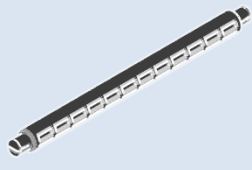
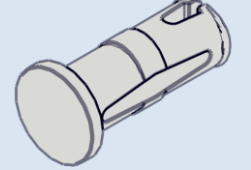
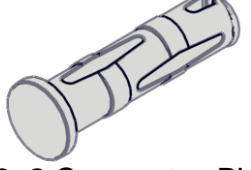


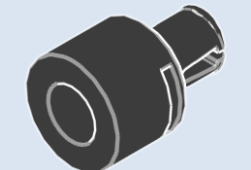


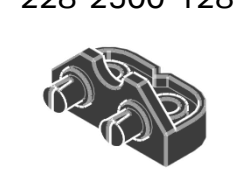




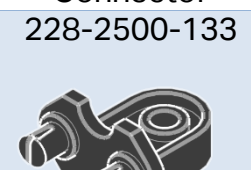
<p>228-2500-2013</p>  <p>Left Shuttle Panel 228-2500-2017</p>	<p>228-2500-2015</p>  <p>3x3.5 Hexagon Flat Panel</p>	<p>228-2500-2016</p>  <p>3x4 End Flat Panel</p>
 <p>2.5x5 Asymmetric End Flat Panel 228-2500-2020</p>	<p>228-2500-2018</p>  <p>4x7 Landing Skid Plate</p>	<p>228-2500-2019</p>  <p>2x3x2.5 Roll Cage</p>
 <p>1x3 Bottom Shuttle Nose Panel</p>		

Connectors

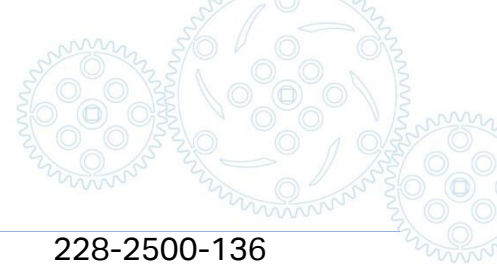
<p>228-2500-060</p>  <p>1x1 Connector Pin 228-2500-063</p>	<p>228-2500-061</p>  <p>1x2 Connector Pin 228-2500-064</p>	<p>228-2500-062</p>  <p>2x2 Connector Pin 228-2500-065</p>
 <p>0.25x Pitch Standoff</p>	 <p>0.5x Pitch Standoff</p>	 <p>1x Pitch Standoff</p>

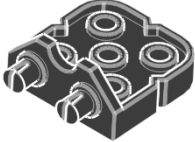
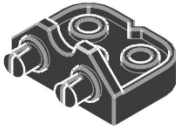
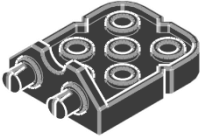
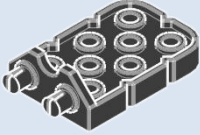
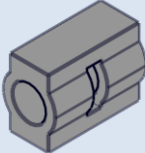
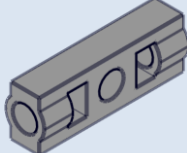
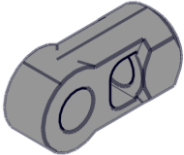

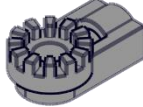
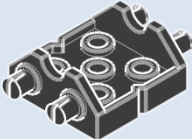
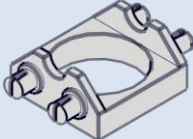
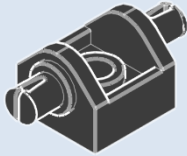
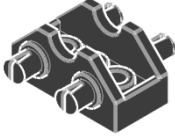
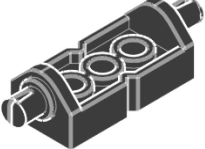
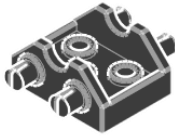
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<p>228-2500-066</p>  <p>1.5x Pitch Standoff 228-2500-066</p>	<p>228-2500-067</p>  <p>2x Pitch Standoff 228-2500-067</p>	<p>228-2500-069</p>  <p>3x Pitch Standoff 228-2500-069</p>
<p>228-2500-070</p>  <p>4x Pitch Standoff 228-2500-070</p>	<p>228-2500-072</p>  <p>6x Pitch Standoff 228-2500-072</p>	<p>228-2500-086</p>  <p>0x2 Connector Pin 228-2500-086</p>
<p>228-2500-087</p>  <p>0x3 Connector Pin 228-2500-087</p>	<p>228-2500-089</p>  <p>3x3 Connector Pin 228-2500-089</p>	<p>228-2500-099</p>  <p>0x1 Sheet Pin 228-2500-099</p>
<p>228-2500-109</p>  <p>0.5x Pitch Standoff Extender 228-2500-109</p>	<p>228-2500-126</p>  <p>Large Chassis Corner Connector 228-2500-126</p>	<p>228-2500-127</p>  <p>Small Chassis Corner Connector 228-2500-127</p>
<p>228-2500-128</p>  <p>2x Wide, 1x2 Corner Connector 228-2500-128</p>	<p>228-2500-129</p>  <p>1x Wide, 1x1 Corner Connector 228-2500-129</p>	<p>228-2500-130</p>  <p>1x Wide, 1x1 Offset Corner Connector 228-2500-130</p>
<p>228-2500-131</p>  <p>2x Wide, 2x1 Offset Corner Connector 228-2500-131</p>	<p>228-2500-132</p>  <p>2x Wide, 2x1 Corner Connector 228-2500-132</p>	<p>228-2500-133</p>  <p>2x Wide, 1x1 Offset Corner Connector 228-2500-133</p>

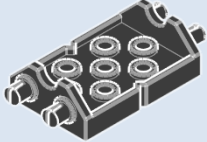
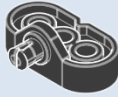
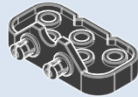
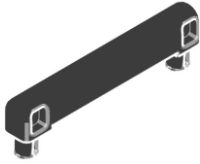
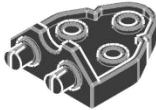

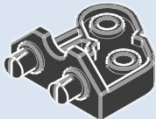
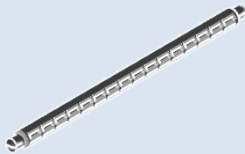

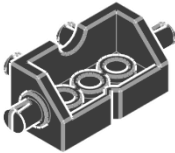
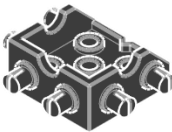
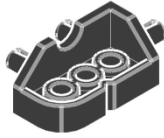
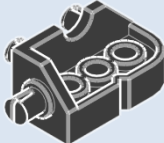


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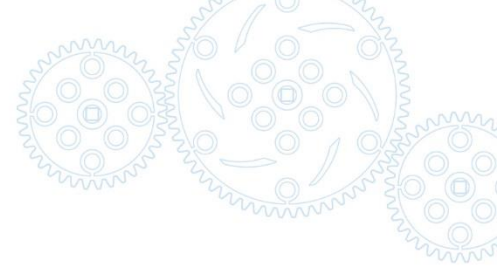


<p>228-2500-134</p>  <p>2x Wide, 2x2 Corner Connector</p>	<p>228-2500-135</p>  <p>2x Wide, 1x2 Offset Corner Connector</p>	<p>228-2500-136</p>  <p>2x Wide, 2x2 Offset Corner Connector</p>
<p>228-2500-137</p>  <p>2x Wide, 3x2 Corner Connector</p>	<p>228-2500-170</p>  <p>Mini Standoff Connector</p>	<p>228-2500-171</p>  <p>Straight Standoff Connector</p>
<p>228-2500-172</p>  <p>End Standoff Connector</p>	<p>228-2500-175</p>  <p>45 Degree Standoff Connector</p>	<p>228-2500-192</p>  <p>Locking Angle End Standoff Connector</p>
<p>228-2500-220</p>  <p>Double 2x Wide, 2x2 Corner Connector</p>	<p>228-2500-259</p>  <p>Double 2x Wide, 1/2" Pipe Connector</p>	<p>228-2500-270</p>  <p>Double 1x Wide, 1x1 Corner Connector</p>
<p>228-2500-271</p>  <p>Double 2x Wide, 1x2 Corner Connector</p>	<p>228-2500-272</p>  <p>Double 1x Wide, 2x1 Corner Connector</p>	<p>228-2500-274</p>  <p>Double 2x Wide, 1x2 Offset Corner Connector</p>

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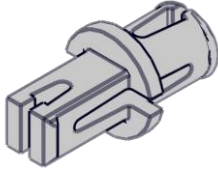


<p>228-2500-277</p>  <p>Double 2x Wide, 2x2 Double Offset Corner Connector</p>	<p>228-2500-279</p>  <p>1x Wide, 1x2 Corner Connector</p>	<p>228-2500-283</p>  <p>2x Wide, 1x3 Offset Corner Connector</p>
<p>228-2500-314</p>  <p>1x4 Bearing Surface Block</p>	<p>228-2500-368</p>  <p>2x Wide, 60 Degree Omni 1x2 Corner Connector</p>	<p>228-2500-371</p>  <p>2x Wide, 30 Degree Right 1x2 Corner Connector</p>
<p>228-2500-372</p>  <p>2x Wide, 30 Degree Left 1x2 Corner Connector</p>	<p>228-2500-1061</p>  <p>8x Pitch Standoff</p>	<p>228-2500-1250</p>  <p>Triple 1x Wide, 1x1 Corner Connector</p>
<p>228-2500-1251</p>  <p>Triple 1-2-1x Wide, 1x2 Corner Connector</p>	<p>228-2500-1253</p>  <p>Triple 2x Wide, 2x2 Corner Connector</p>	<p>228-2500-1254</p>  <p>1x2 Left Chassis Corner Connector</p>
<p>228-2500-1255</p>  <p>1x2 Right Chassis Corner Connector</p>	<p>228-2500-1906</p>  <p>4x Pitch Antenna</p>	<p>228-2500-1934</p>  <p>6x Pitch Flexible Standoff</p>



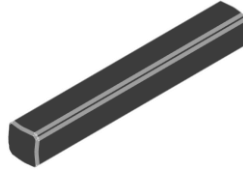
Motion

228-2500-073



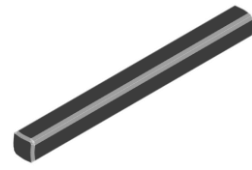
1x1 Idler Pin

228-2500-074



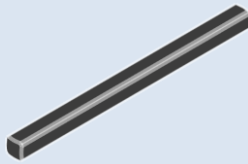
2x Pitch Plastic Shaft

228-2500-075



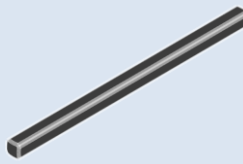
3x Pitch Plastic Shaft

228-2500-076



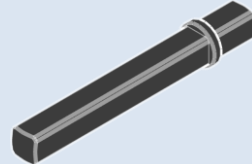
4x Pitch Plastic Shaft

228-2500-077



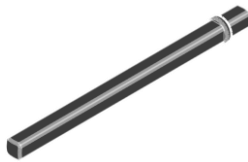
5x Pitch Plastic Shaft

228-2500-078



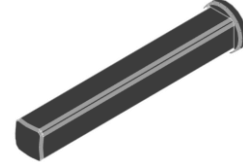
2x Pitch Plastic Motor Shaft

228-2500-079



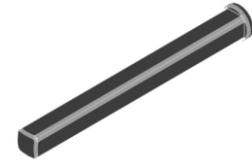
4x Pitch Plastic Motor Shaft

228-2500-080



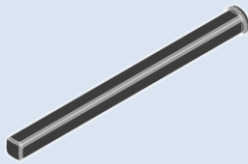
2x Pitch Capped Plastic Shaft

228-2500-081



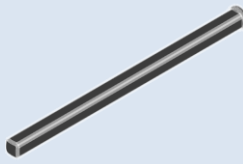
3x Pitch Capped Plastic Shaft

228-2500-082



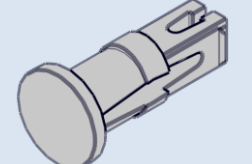
4x Pitch Capped Plastic Shaft

228-2500-083



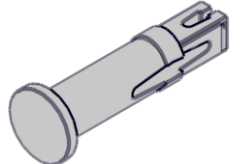
5x Pitch Capped Plastic Shaft

228-2500-084



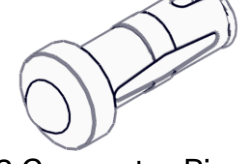
0x2 Idler Pin

228-2500-085



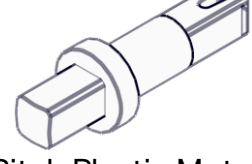
0x3 Smooth Idler Pin

228-2500-090



0x2 Connector Pin with Spherical Cap

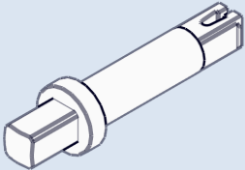
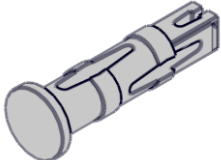
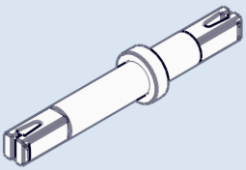
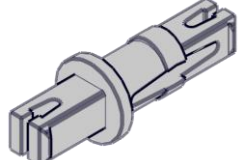
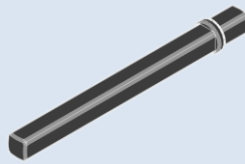


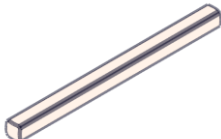




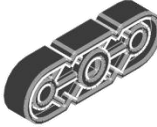

228-2500-091



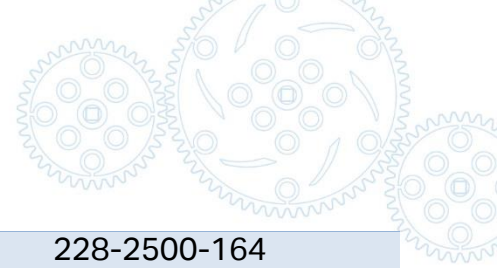
1.5x Pitch Plastic Motor Snap Shaft



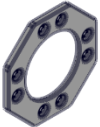



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<p>228-2500-092</p>  <p>2x Pitch Plastic Motor Snap Shaft</p> <p>228-2500-097</p>  <p>0x3 Idler Pin</p> <p>228-2500-114</p>	<p>228-2500-093</p>  <p>2.5x Pitch Plastic Flanged Snap Shaft</p> <p>228-2500-098</p>  <p>1x2 Idler Pin</p> <p>228-2500-117</p>	<p>228-2500-094</p>  <p>3x Pitch Plastic Motor Shaft</p> <p>228-2500-112</p>  <p>Washer</p> <p>228-2500-119</p>
 <p>0.25x Pitch Spacer</p> <p>228-2500-120</p>	 <p>2x Pitch Shaft</p> <p>228-2500-121</p>	 <p>3x Pitch Shaft</p> <p>228-2500-122</p>
 <p>4x Pitch Shaft</p> <p>228-2500-123</p>	 <p>5x Pitch Shaft</p> <p>228-2500-124</p>	 <p>6x Pitch Shaft</p> <p>228-2500-125</p>
 <p>7x Pitch Shaft</p> <p>228-2500-140</p>	 <p>8x Pitch Shaft</p> <p>228-2500-141</p>	 <p>Shaft Bushing</p> <p>228-2500-143</p>
 <p>2x2 Center Lock Beam</p>	 <p>1x3 Center Lock Beam</p>	 <p>Rubber Shaft Collar</p>







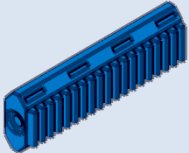
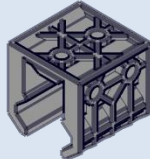






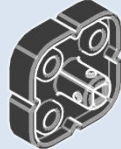
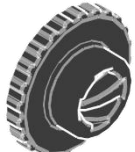


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<p>228-2500-161</p>  <p>3x3 Wye Lock Beam 228-2500-161</p>	<p>228-2500-163</p>  <p>10mm Pulley 228-2500-163</p>	<p>228-2500-164</p>  <p>20mm Pulley 228-2500-164</p>
<p>228-2500-165</p>  <p>30mm Pulley 228-2500-165</p>	<p>228-2500-166</p>  <p>40mm Pulley 228-2500-166</p>	<p>228-2500-168</p>  <p>Rubber Shaft Collar v1 228-2500-168</p>
<p>228-2500-191</p>  <p>Small Turntable Center Bushing 228-2500-191</p>	<p>228-2500-193</p>  <p>Small Turntable Outer Housing 228-2500-193</p>	<p>228-2500-194</p>  <p>Large Turntable Center Bushing 228-2500-194</p>
<p>228-2500-195</p>  <p>Large Turntable Outer Housing 228-2500-195</p>	<p>228-2500-196</p>  <p>XL Turntable Spider Housing 228-2500-196</p>	<p>228-2500-197</p>  <p>XL Turntable Spider Bushing 228-2500-197</p>
<p>228-2500-199</p>  <p>XL Turntable Outer Housing 228-2500-199</p>	<p>228-2500-200</p>  <p>XL Turntable Plain Bushing 228-2500-200</p>	<p>228-2500-202</p>  <p>XL Turntable 36 Tooth Ring Gear Bushing 228-2500-202</p>
<p>228-2500-207</p>  <p>Tire (100 mm Travel) 228-2500-207</p>	<p>228-2500-208</p>  <p>Small Wheel Hub (Ø44 mm Diameter) 228-2500-208</p>	<p>228-2500-209</p>  <p>Tire (200 mm Travel) 228-2500-209</p>


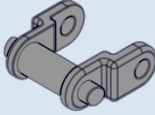
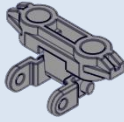


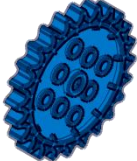


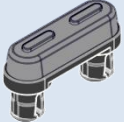
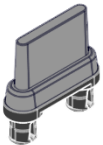
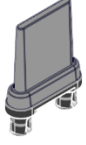
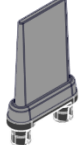


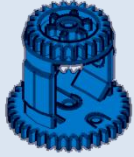



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<p>228-2500-210</p>  <p>Tire (160 mm Travel)</p>	<p>228-2500-211</p>  <p>Large Wheel Hub (Ø64 mm Diameter)</p>	<p>228-2500-212</p>  <p>Tire (250 mm Travel)</p>
<p>228-2500-213</p>  <p>12 Tooth Gear</p>	<p>228-2500-214</p>  <p>36 Tooth Gear</p>	<p>228-2500-215</p>  <p>60 Tooth Gear</p>
<p>228-2500-216</p>  <p>Rack Gear</p>	<p>228-2500-217</p>  <p>Linear Slide</p>	<p>228-2500-218</p>  <p>36 Tooth Crown Gear</p>
<p>228-2500-219</p>  <p>Worm Gear</p>	<p>228-2500-221</p>  <p>2x30mm Rubber Belt</p>	<p>228-2500-222</p>  <p>2x40mm Rubber Belt</p>
<p>228-2500-223</p>  <p>2x50mm Rubber Belt</p>	<p>228-2500-224</p>  <p>2x60mm Rubber Belt</p>	<p>228-2500-225</p>  <p>Inner Twist Lock Collar</p>
<p>228-2500-226</p>  <p>Outer Twist Lock Collar</p>	<p>228-2500-227</p>  <p>24 Tooth Gear</p>	<p>228-2500-228</p>  <p>48 Tooth Gear</p>













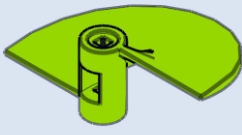
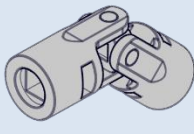




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<p>228-2500-229</p>  <p>Spider 48 Tooth Ring Gear 228-2500-232</p>	<p>228-2500-230</p>  <p>Chain Link 228-2500-233</p>	<p>228-2500-231</p>  <p>Tank Tread Attachment Link 228-2500-235</p>
 <p>8 Tooth Sprocket 228-2500-236</p>	 <p>16 Tooth Sprocket 228-2500-237</p>	 <p>24 Tooth Sprocket 228-2500-239</p>
 <p>32 Tooth Sprocket 228-2500-240</p>	 <p>40 Tooth Sprocket 228-2500-241</p>	 <p>Traction Link 228-2500-242</p>
 <p>Short Intake Flap 228-2500-243</p>	 <p>Medium Intake Flap 228-2500-244</p>	 <p>Long Intake Flap 228-2500-245</p>
 <p>Scarab Thrust Washer for 60 Tooth Gear 228-2500-246</p>	 <p>18 Tooth Bevel Gear 228-2500-247</p>	 <p>Differential Gear 228-2500-260</p>
 <p>1x4 Crank Arm with 23 Tooth Gear</p>	 <p>60 Tooth Internal Ring Gear</p>	 <p>9x Pitch Shaft</p>









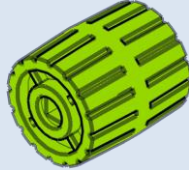
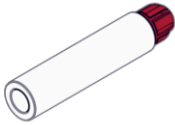

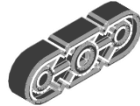


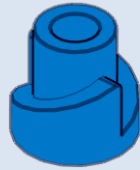



VEX IQ Challenge 2017-2018 Legal Parts



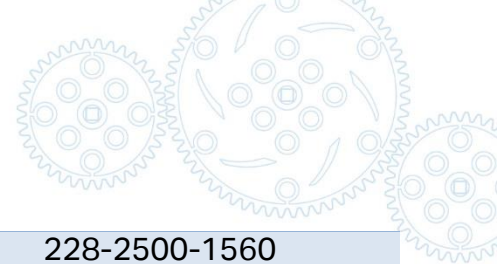
<p>228-2500-261</p>  <p>10x Pitch Shaft 228-2500-264</p>	<p>228-2500-262</p>  <p>11x Pitch Shaft 228-2500-265</p>	<p>228-2500-263</p>  <p>12x Pitch Shaft 228-2500-266</p>
 <p>14x Pitch Shaft 228-2500-267</p>	 <p>16x Pitch Shaft 228-2500-268</p>	 <p>18x Pitch Shaft 228-2500-269</p>
 <p>20x Pitch Shaft 228-2500-297</p>	 <p>22x Pitch Shaft 228-2500-318</p>	 <p>24x Pitch Shaft 228-2500-319</p>
 <p>Hexcalator Wheel 228-2500-324</p>	 <p>Ant Wheel - 96mm 228-2500-350</p>	 <p>Ant Wheel - 86mm 228-2500-354</p>
 <p>1.5x Pitch Screw Segment - CW 228-2500-355</p>	 <p>Universal Joint 228-2500-420</p>	 <p>Hand Knob 228-2500-430</p>
 <p>Dial Knob</p>	 <p>1x Wide Spool</p>	 <p>12x Pitch Rope</p>

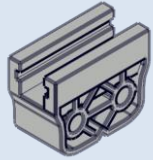


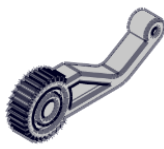





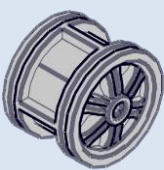


VEX IQ Challenge 2017-2018 Legal Parts



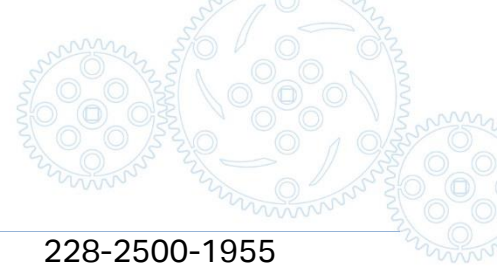
<p>228-2500-436</p>  <p>20x Pitch Rope</p>	<p>228-2500-451</p>  <p>36 Tooth Dog Gear</p>	<p>228-2500-461</p>  <p>15 Tooth Gear (34DP)</p>
<p>228-2500-462</p>  <p>36 Tooth Gear (34DP)</p>	<p>228-2500-463</p>  <p>12 Tooth High Strength Bevel Gear</p>	<p>228-2500-470</p>  <p>Rubber Band #117B</p>
<p>228-2500-474</p>  <p>Rubber Band #32</p>	<p>228-2500-475</p>  <p>Rubber Band #64</p>	<p>228-2500-477</p>  <p>Medium Dial Knob</p>
<p>228-2500-506</p>  <p>Foam Dart</p>	<p>228-2500-1140</p>  <p>2x2 Center Lock Beam</p>	<p>228-2500-1141</p>  <p>1x3 Center Lock Beam</p>
<p>228-2500-1208</p>  <p>Small Wheel Hub (Ø44 mm Diameter)</p>	<p>228-2500-1211</p>  <p>Large Wheel Hub (Ø64 mm Diameter)</p>	<p>228-2500-1446</p>  <p>Propeller Clutch (CCW)</p>
<p>228-2500-1447</p>  <p>Zip Flyer Propeller (CCW)</p>	<p>228-2500-1454</p>  <p>1x20 Linear Motion Rack Gear</p>	<p>228-2500-1456</p>  <p>1x5 Linear Motion Beam</p>

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<p>228-2500-1469</p>  <p>2x Pitch Linear Motion Bracket</p>	<p>228-2500-1480</p>  <p>2x Pitch Shock Absorber (Strong)</p>	<p>228-2500-1560</p>  <p>2x Pitch Shock Absorber (Weak)</p>
<p>228-2500-1700</p>  <p>Airplane Nose Hook</p>	<p>228-2500-1907</p>  <p>Small Auger Drill Bit</p>	<p>228-2500-1908</p>  <p>Small Gripper Actuator</p>
<p>228-2500-1916</p>  <p>0.75x Wide, 1.5x Pitch Diameter Rover Wheel</p>	<p>228-2500-1917</p>  <p>1.5x Wide, 2.5x Pitch Diameter Rover Wheel</p>	<p>228-2500-1919</p>  <p>3x Pitch 6-Blade Fan (CCW)</p>
<p>228-2500-1922</p>  <p>4x Pitch 6-Blade Fan (CCW)</p>	<p>228-2500-1925</p>  <p>2x2 Center Offset Round Lock Beam</p>	<p>228-2500-1926</p>  <p>2x Wide, 2x Pitch Diameter Rover Wheel</p>
<p>228-2500-1950</p>  <p>2x Wide, Ø32.2mm Diameter Hub</p>	<p>228-2500-1951</p>  <p>2x Wide, 3x Pitch Diameter Tire (Straight Offroad Tread)</p>	<p>228-2500-1952</p>  <p>2x Wide, 3.5x Pitch Diameter Balloon Tire (Chevron Offroad Tread)</p>

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228-2500-1953



2x Wide, Ø48.5mm Diameter
Hub

228-2500-1954



2x Wide, 7x Pitch Diameter
Balloon Tire (Racing Slick
Tread)

228-2500-1955



2x Wide, 7x Pitch Diameter
Balloon Tire (Offroad Hex
Tread)