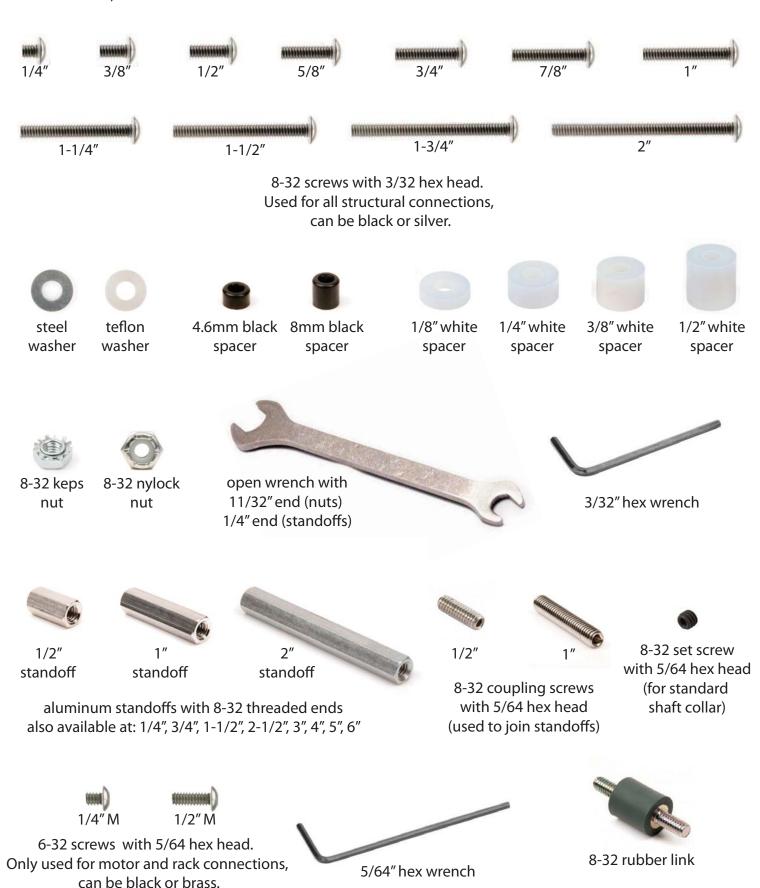


FASTENERS, SPACERS and WRENCHES



WHEELS



2.75" traction



2.75" omni, allows smooth turning for drives with more than 2 wheels



1.5" intake roller



3.25" traction 1/4" center for HS shaft or inserts



3.25" omni 1/4" center for HS shaft or inserts



5" traction



4" traction



4" omni



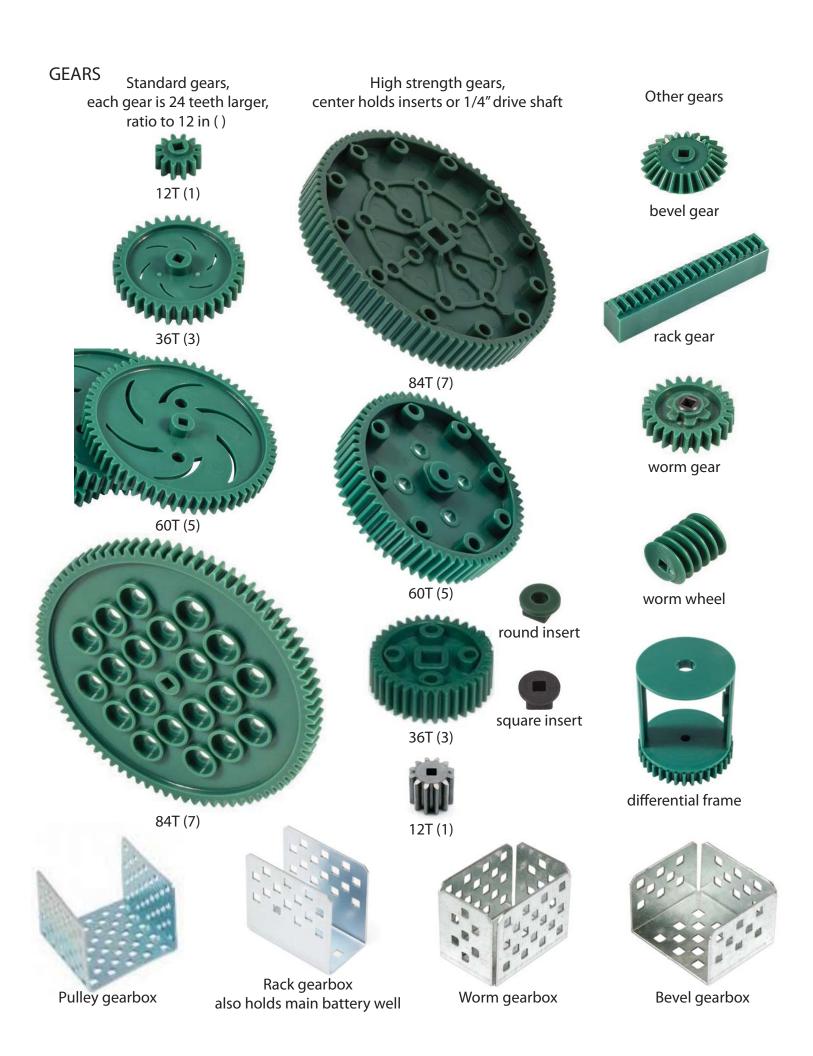
6" leg, for rugged ground



4" traction



4" mecanum, allows strafing drive



SPROCKET, CHAIN, and TREAD High strength sprockets, each sprocket is 6 teeth larger ratio to 6 in () 6T (1) High strength chain Attachment links 12T (2) Tread 18T (3) 24T (4) Specialty treads 30T (5) Tread sprocket (18 teeth)

Tread guides

DRIVE SHAFT RELATED ITEMS



standard drive shaft, 1/8" square can be purchased in 2", 3", 4" and 12" or cut to length



bar lock alligns shaft at 90 degrees to structure



adjustable bar lock center can be set at many angles



rubber shaft collar secures to shaft by friction alone



standard shaft collar secures to shaft with 8-32 set screw using 5/64 hex wrench



clamping shaft collar secures to shaft with 8-32 screw and nylock nut



universal joint



shaft coupler



clutch



shaft bearing



shaft bearing, flat



bearing rivet quickly connects flat bearing to structure



high strength drive shaft, 1/4" square can be purchased in 2", 3", 4" and 12" or cut to length



HS clamping collar



HS bearing, flat



HS spacers

MOTORS and **SENSORS**



393 motor



refurb gears



standard gears 100 rpm



speed gears 160 rpm



turbo gears 240 rpm



393 motor with encoder back, counts motor rotations, allows PID control



optical shaft encoder, counts shaft rotations



potentiometer, senses shaft angle



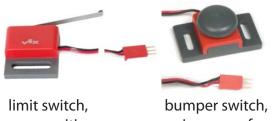
gyroscope, senses rotation in the senses X, Y and Z plane of its base



accelerometer, acceleration



LED indicator, red, yellow or green



very sensitive

requires more force



jumper, acts as pressed button



LCD display, connests to UART port with a special cable





ultrasonic sensor, detects distance



line tracker, typically used in sets of three



light sensor, detects light intensity, not useful in competition



speaker module

POWER and CONTROL



Cortex microcontroller, ARM cpu with multiple I/O ports, stores and runs programs



VEXnet joystick, four button groups, two joystics



VEXnet key, NOT a usb drive, but a 2.4GHz transmitter/receiver



main battery, 7.2V, 3000mah



main battery clamp



main battery extension wire



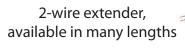
power expander, allows two main batteries



9V backup battery wire and holder

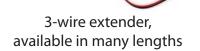








3-wire Y splitter, allows two motors to run from one port



4-wire cable for integrated encoder backs