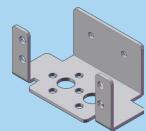


TETRIX™ by Pitsco

Parts Identifier

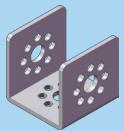
SINGLE-SERVO MOTOR BRACKET

Bracket for placing and holding a single servo



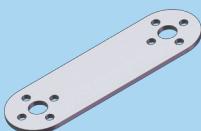
CHANNEL – 32 MM

Structural element for building heavy-duty bases and building components



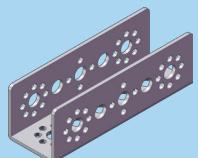
FLAT BRACKET

Perfect for connecting structural elements or for creating a servo leverage arm



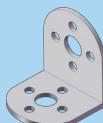
CHANNEL – 96 MM

Structural element for building heavy-duty bases and building components



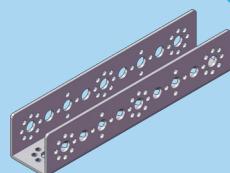
L BRACKET

90-degree angle bracket that enables bends and angled components



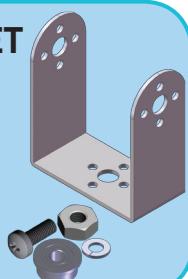
CHANNEL – 160 MM

Structural element for building heavy-duty bases and building components



SERVO JOINT PIVOT BRACKET

Enables pivoting arms, grippers, and appendages

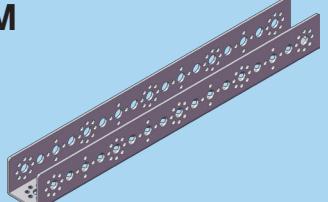


PIVOT BEARING

Pivot bearing for the Servo Joint Pivot Bracket

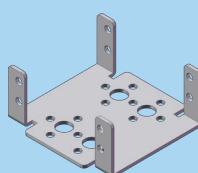
CHANNEL – 288 MM

Structural element for building heavy-duty bases and building components



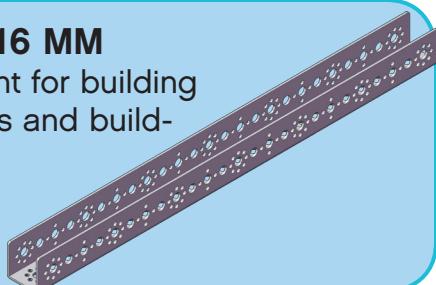
DUAL-SERVO MOTOR BRACKET

Bracket for placing and holding two servos



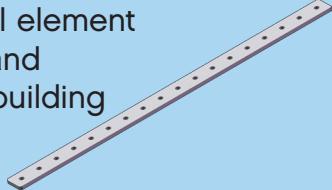
CHANNEL – 416 MM

Structural element for building heavy-duty bases and building components



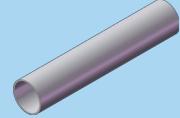
FLAT BAR

288 mm long, structural element that enables strength and support of bases and building components



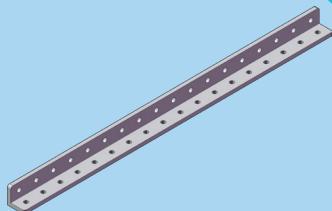
TUBE- 80 MM

Structural element used when needing extensions such as arms and grippers



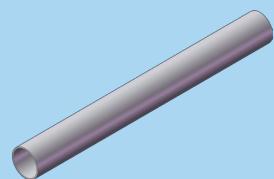
ANGLE – 288 MM

Large angle that enables bends and angled components and reinforcement of a structure



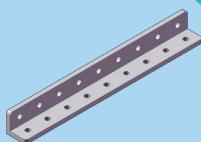
TUBE- 145 MM

Structural element used when needing extensions such as arms and grippers



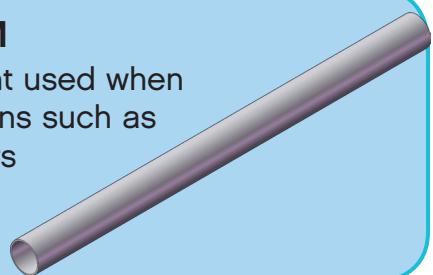
ANGLE – 144 MM

Small angle that enables bends and angled components and reinforcement of a structure



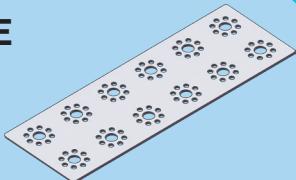
TUBE- 220 MM

Structural element used when needing extensions such as arms and grippers



FLAT BUILDING PLATE

A baseplate ideal for larger mounting areas for electronics and other *TETRIX™* components



TUBE PLUG

Reinforces tubes when applying a tube clamp



AXLE HUB

Used to attach gears and wheels to axles and axles to structural elements



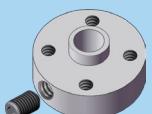
TUBE CLAMP

Used to attach tubes to structural elements



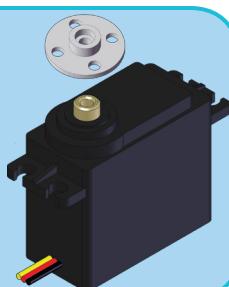
MOTOR SHAFT HUB

Attaches wheels and gears to *TETRIX™* DC Motor shafts



SERVO WITH HORN

Lightweight servo motor that enables 180-degree movement in a *TETRIX™* build



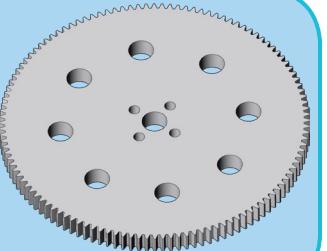
SERVO EXTENSION

Ideal when extra length is needed between the servo and servo controller



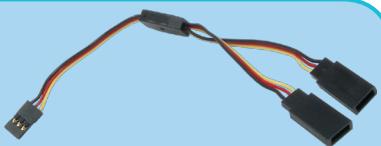
GEAR – 120-TOTH

Largest TETRIX™ gear used for gear trains and mechanisms



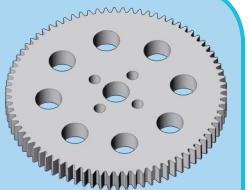
SERVO Y CONNECTOR

For connecting two servos to one channel and ensuring both are in sync



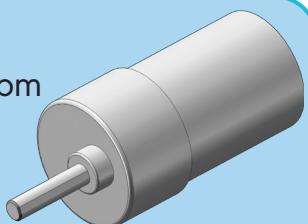
GEAR – 80-TOTH

Midsize TETRIX™ gear used for gear trains and mechanisms



DC DRIVE MOTOR

12V motor featuring 152 rpm and 300 oz-in. of torque



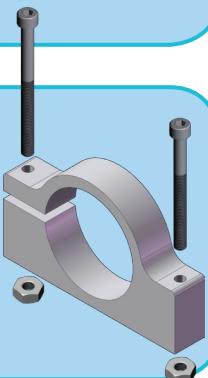
GEAR – 40-TOTH

Smallest TETRIX™ gear often used as the pinion gear for gear trains and mechanisms



MOTOR MOUNT

Holds DC Drive Motor securely to structural elements



BRONZE BUSHING

Reduces friction for axles



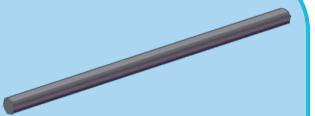
MOTOR POWER CABLE

Connects the DC Drive Motor to the motor controller



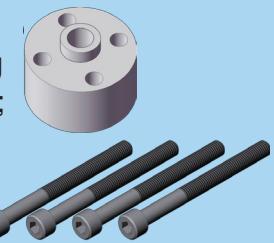
AXLE – 100 MM

Precision-ground axle used for connecting wheels and gears



GEAR HUB SPACER

Provides adequate spacing between wheels and gears; includes four cap screws for each spacer



AXLE – 250 MM

Precision-ground axle used for connecting wheels and gears



AXLE SET COLLAR

Locks a rotating axle to secure the horizontal alignment



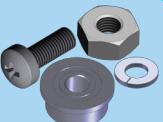
AXLE SPACER – 1/8"

Adds space between wheels, gears, and other elements on axles



PIVOT BEARING

Pivot bearing replacement for the Servo Joint Pivot Bracket



AXLE SPACER – 3/8"

Adds space between wheels, gears, and other elements on axles



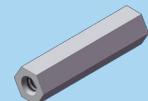
KEP NUT

Nut featuring a star washer that locks down on structural elements for added strength



STAND-OFF POST – 1"

Used as risers in a *TETRIX™* build



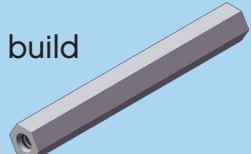
BUTTON HEAD CAP SCREW (BHCS) – 3/8"

6-32 screw with a low-profile head; used where moving parts are close to the screw heads



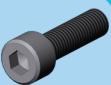
STAND-OFF POST – 2"

Used as risers in a *TETRIX™* build



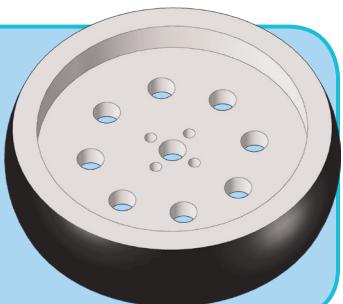
SOCKET HEAD CAP SCREW (SHCS) – 1/2"

Basic screw for connecting structural elements



WHEEL – 4"

Large nylon wheel for mobility; features a traction belt



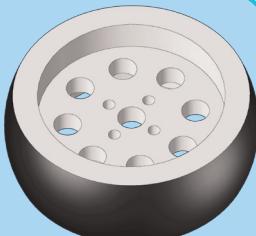
SOCKET HEAD CAP SCREW (SHCS) – 5/16"

Basic screw for connecting structural elements



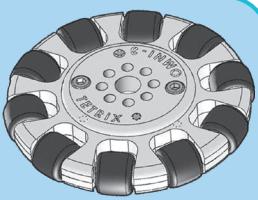
WHEEL – 3"

Nylon wheel for mobility; features a traction belt



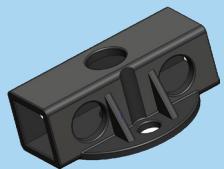
OMNI- WHEEL

Multidirectional wheel used for straight and side-to-side movement



TETRIX™ HARD-POINT CONNECTOR

Unique piece that secures LEGO® Technic beams to TETRIX™ components



RECHARGEABLE BATTERY PACK

10-cell, 12V, NiMH rechargeable battery that supplies power to electrical components



HITECHNIC DC MOTOR CONTROLLER

Connects TETRIX™ DC Drive Motors to the LEGO® NXT Intelligent Brick



NIMH BATTERY PACK CHARGER

Recharges the Rechargeable Battery Pack



HITECHNIC SERVO CONTROLLER

Connects TETRIX™ servos to the LEGO® NXT Intelligent Brick



32-TOOTH SPROCKET

Made from heavy-duty aluminum; designed to work with the 0.250" TETRIX™ steel chain



TETRIX MOTOR ENCODER PACK

Enables your robot to move a fixed distance, rotate to a specific position, move at a constant speed, reset encoders, and read coders



24-TOOTH SPROCKET

Made from heavy-duty aluminum; designed to work with the 0.250" TETRIX™ steel chain



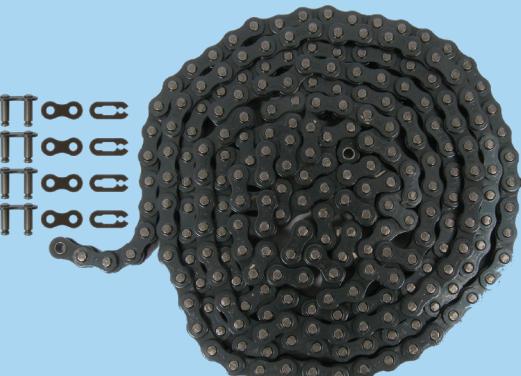
16-TOOTH SPROCKET

Made from heavy-duty aluminum; designed to work with the 0.250" TETRIX™ steel chain.



CHAIN WITH LINKS

Made to work with all ratios of TETRIX™ sprockets; includes 5 feet of 0.250" steel chain and four master connecting links



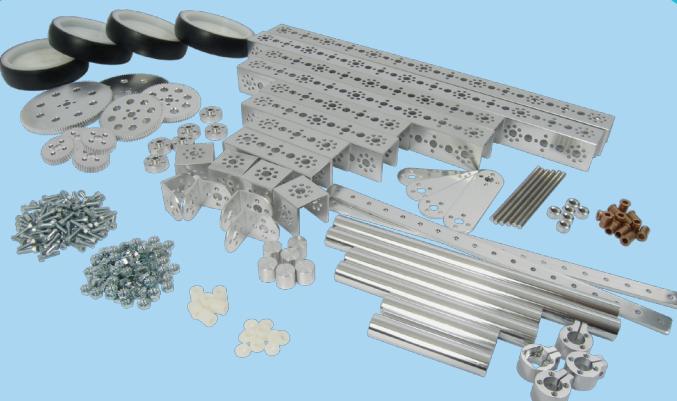
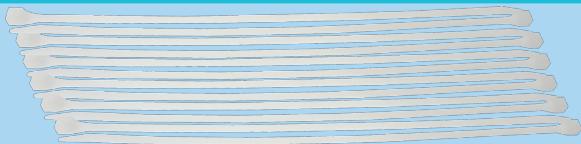
CHAIN BREAKER TOOL

Used to quickly and easily customize the length of the 0.250" *TETRIX™* chain



ON/OFF SWITCH

Controls the power from the battery pack



TETRIX™ RESOURCE SET

A perfect addition to any *TETRIX™* collection; includes 40 metal building components and comes complete with a storage bin

ZIP TIE

11" flexible nylon cable tie used to secure wiring

HEX KEY 4-PACK

Tools used to fasten screws – four sizes include 7/64", 3/32", 1/16", and 5/64"

