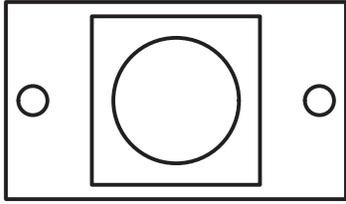
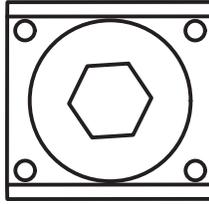


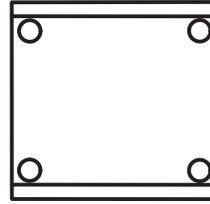
This guide is an intro of the components that make up the modulox system. We hope that after reading this you will further understand the modulox system.



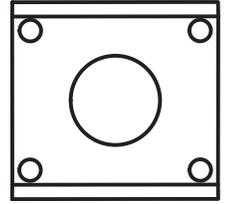
motor block



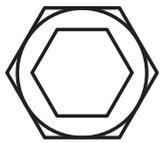
bearing block
(shown with bearing)



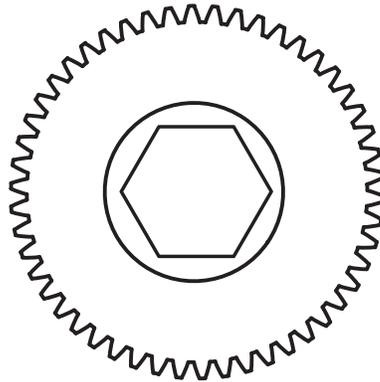
back block



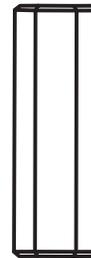
through block



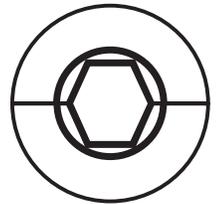
FlexHub
(bore varies)



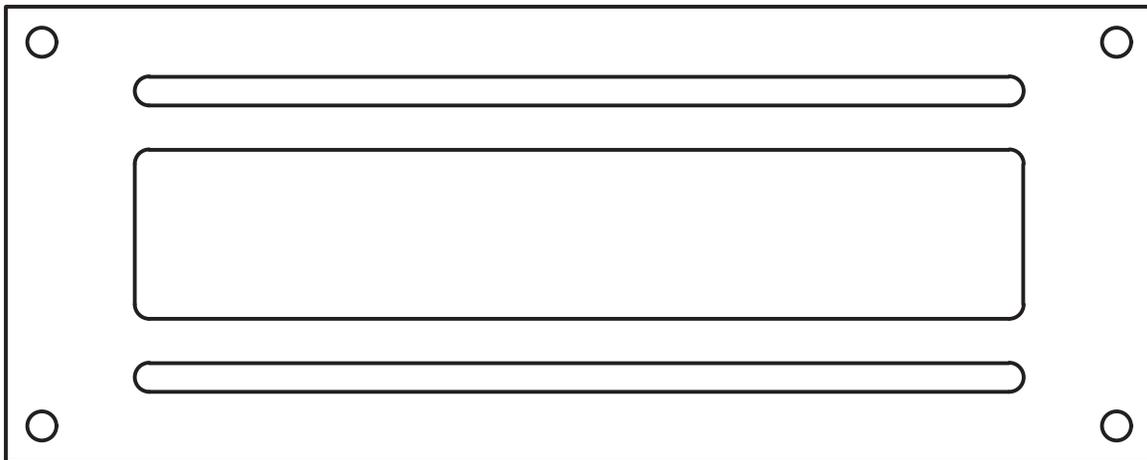
hex bore gear



hex shaft



hex collar

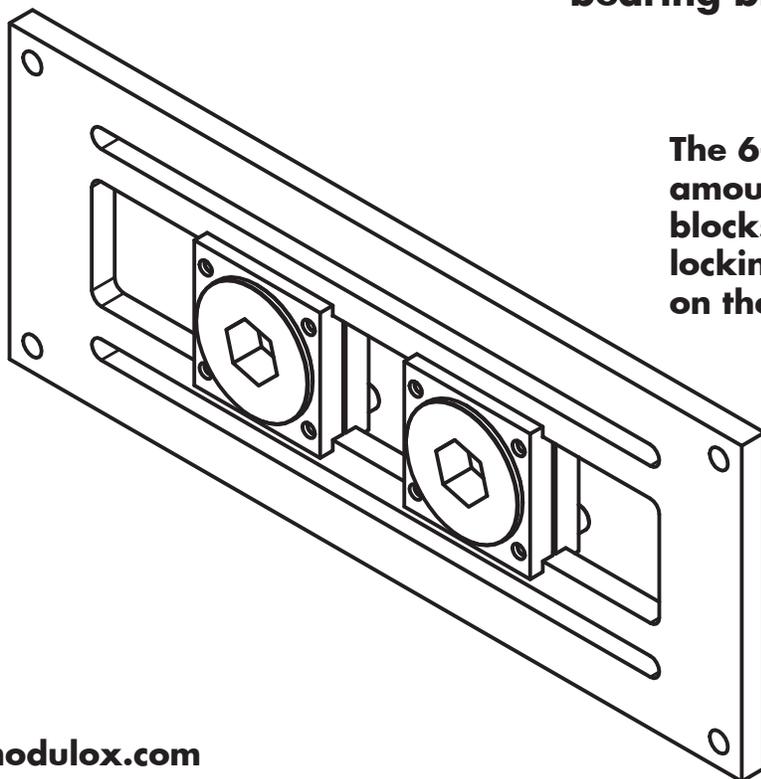
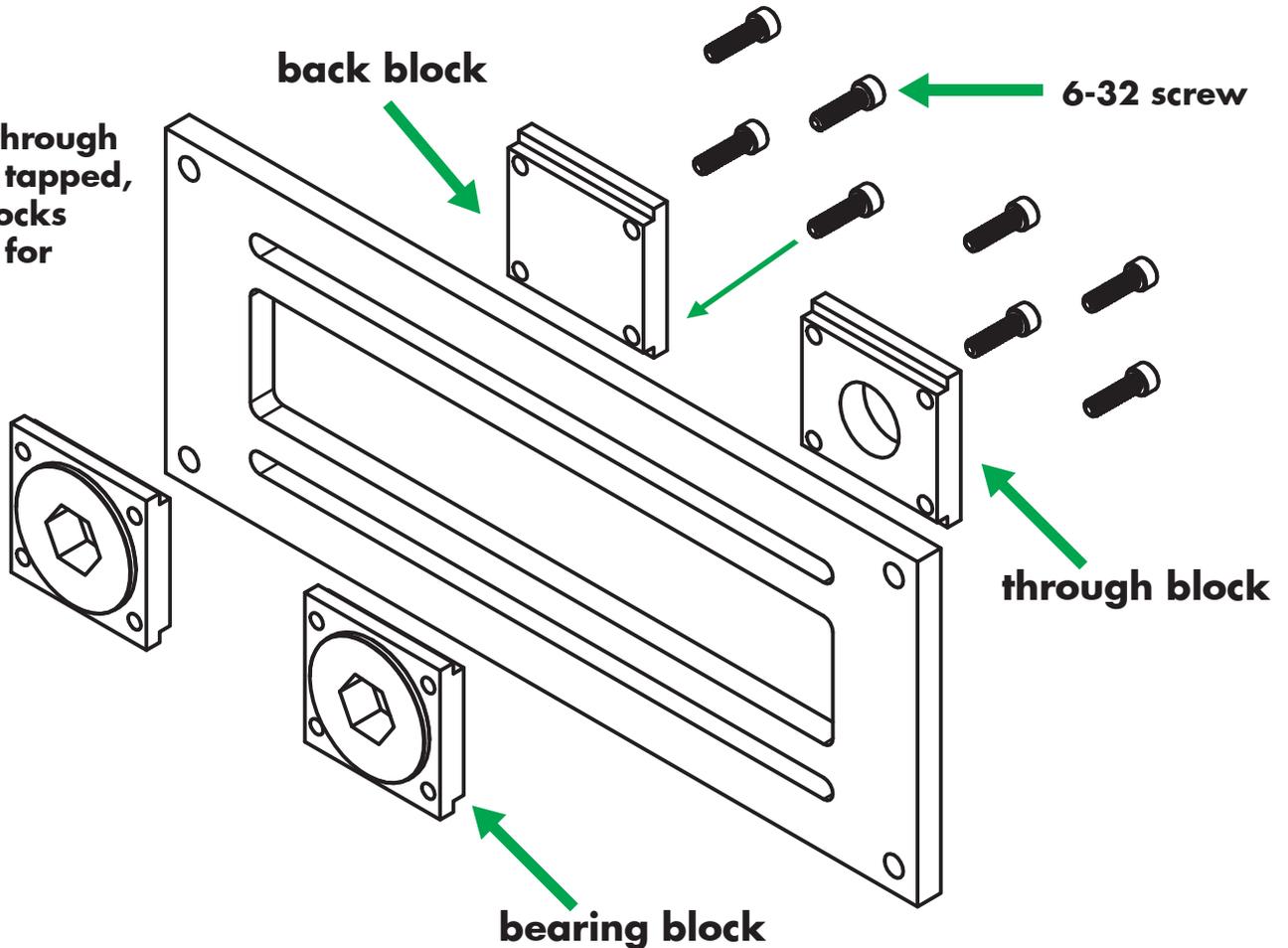


slot plate

Here are the basic components that make up the modulox system. There are a variety of machined aluminum blocks, these parts are precision machined to work with the modulox system. All modulox parts use standard hex shaft, therefore all the gears, hubs, and collars work with each other.

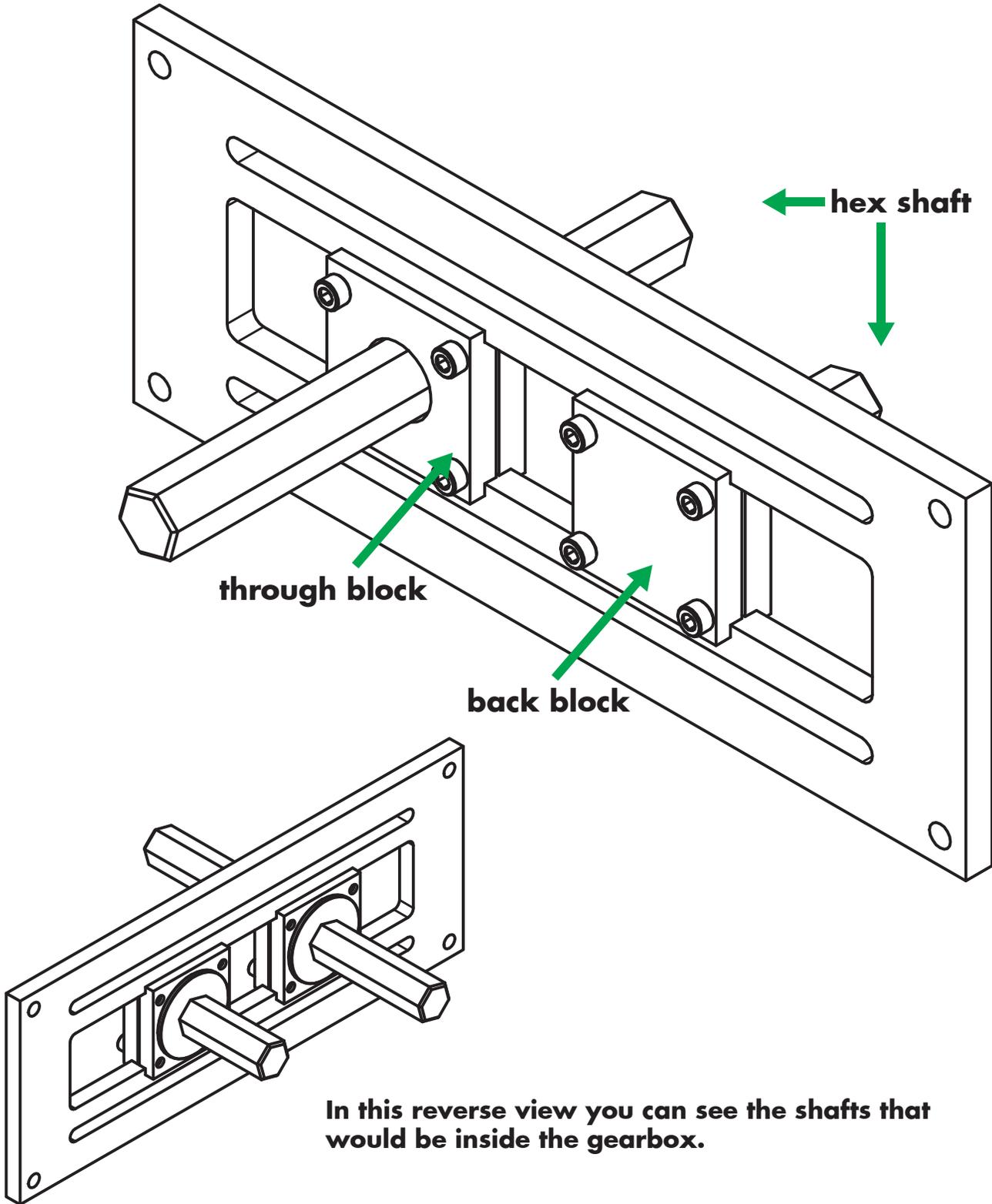
We'll begin by talking about the bearing blocks and the main support, the slot plate. The modulox system is really based around these components.

Back and through blocks are tapped, bearing blocks are drilled for clearance.



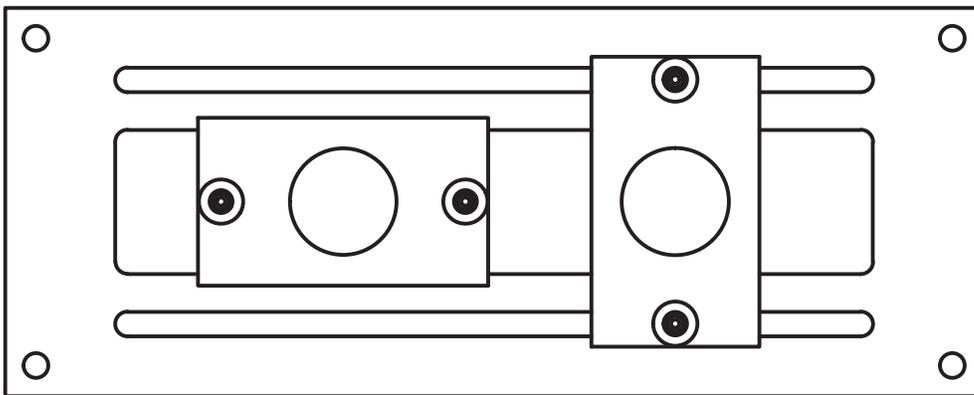
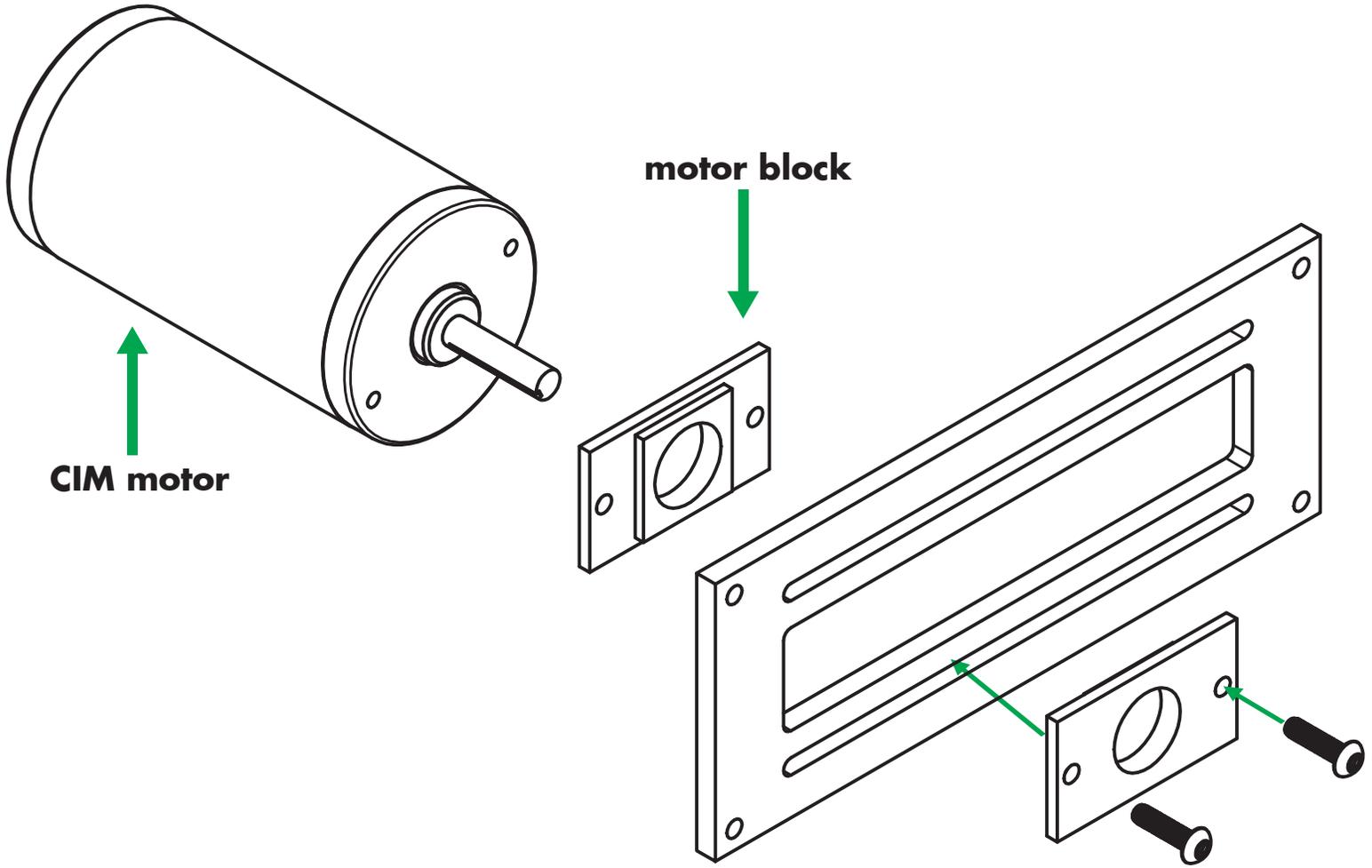
The 6-32 screws provide a huge amount of clamping force on the blocks by squeezing them, virtually locking the blocks into any position on the slot plate.

The through block allows a hex shaft to pass through the slot plate allowing for an external output shaft. Closed blocks keep the shaft captive within the gearbox.



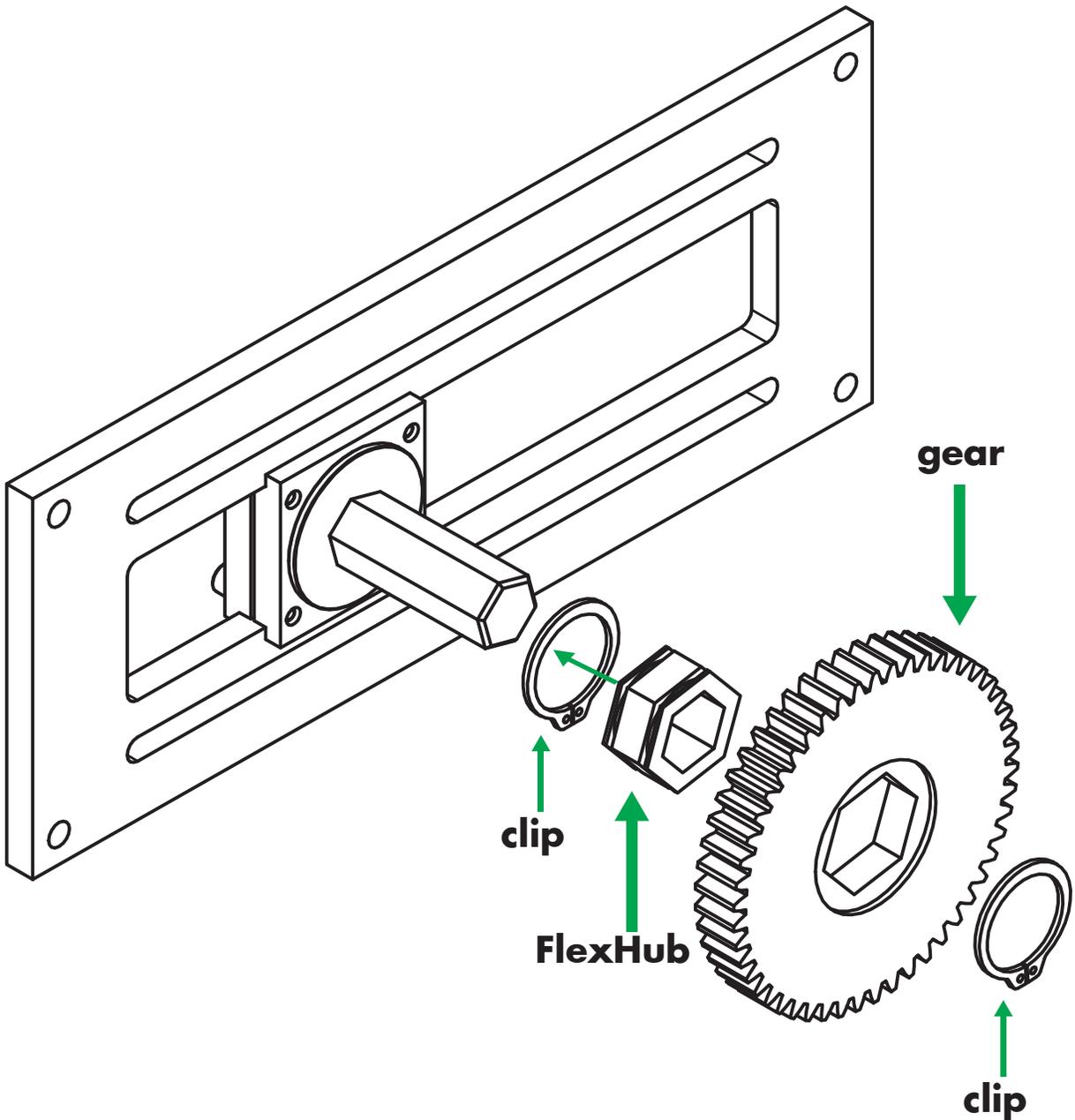
In this reverse view you can see the shafts that would be inside the gearbox.

To mount a CIM motor to a modulox gearbox requires use of a pair of motor blocks. This block clamps using the same principal of the bearing blocks while additionally capturing the motor.



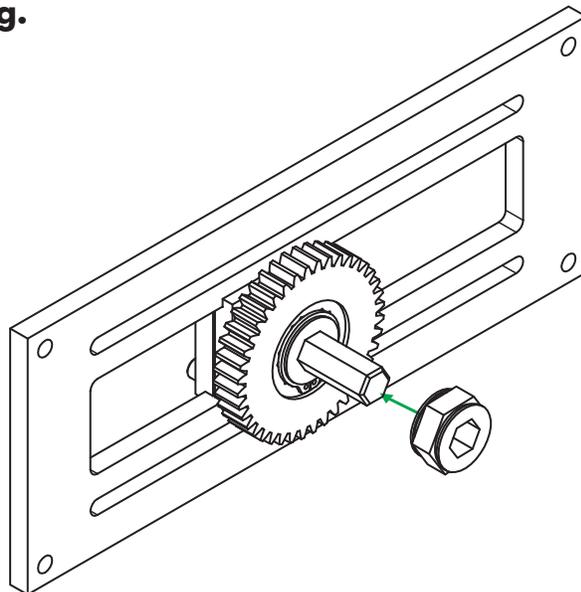
The motor block can be placed in two different orientations. The reason for the different orientations is this allows for a wider range of gears to correctly mesh with the motor output shaft.

With the modulox system users can quickly assemble gear clusters. The system use a standard width FlexHub gear assembly with the FlexHubs also being used as spacers. This standard width makes modifications simple. A standard kit is 3 flex hubs or 3 "units" wide.

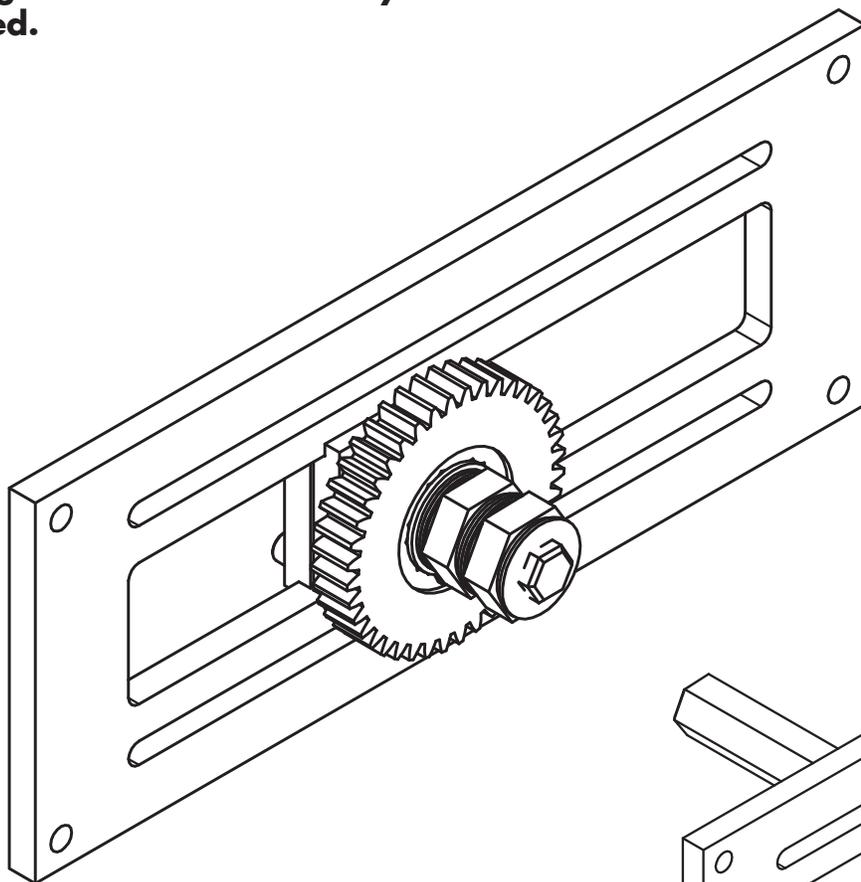


The flex hub gear assembly is designed such that it can be assembled against the inner race of the bearings on either side of gear without causing interference with the overall assembly.

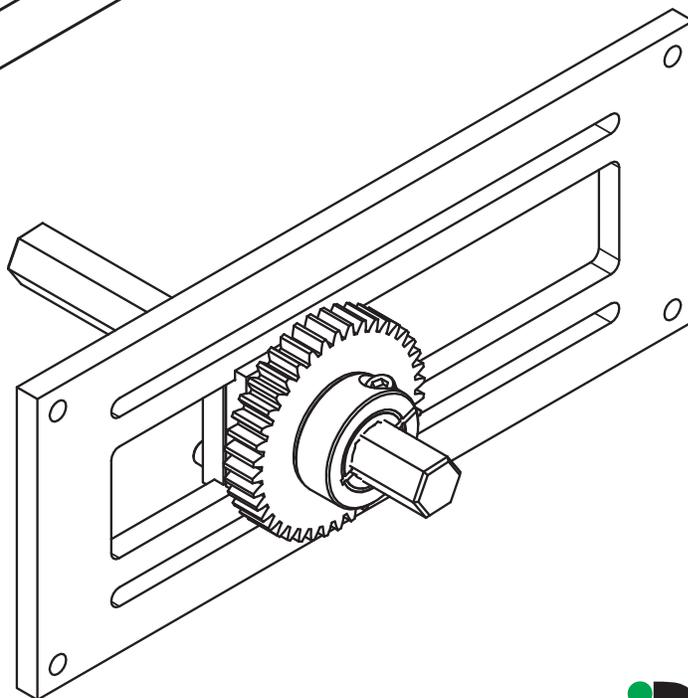
To install a gearset users must first put a hex shaft into the bearing block. Then slide a gear on the shaft until it presses against the shoulder of the bearing.



Next, slide a FlexHub as a spacer down the shaft. If using two back blocks slide a second Flexhub onto the shaft to ensure the gear assembly is kept in place. Gears can take the place of FlexHubs and spacers FlexHubs can take the place of gears. Shaft collars may also be used.



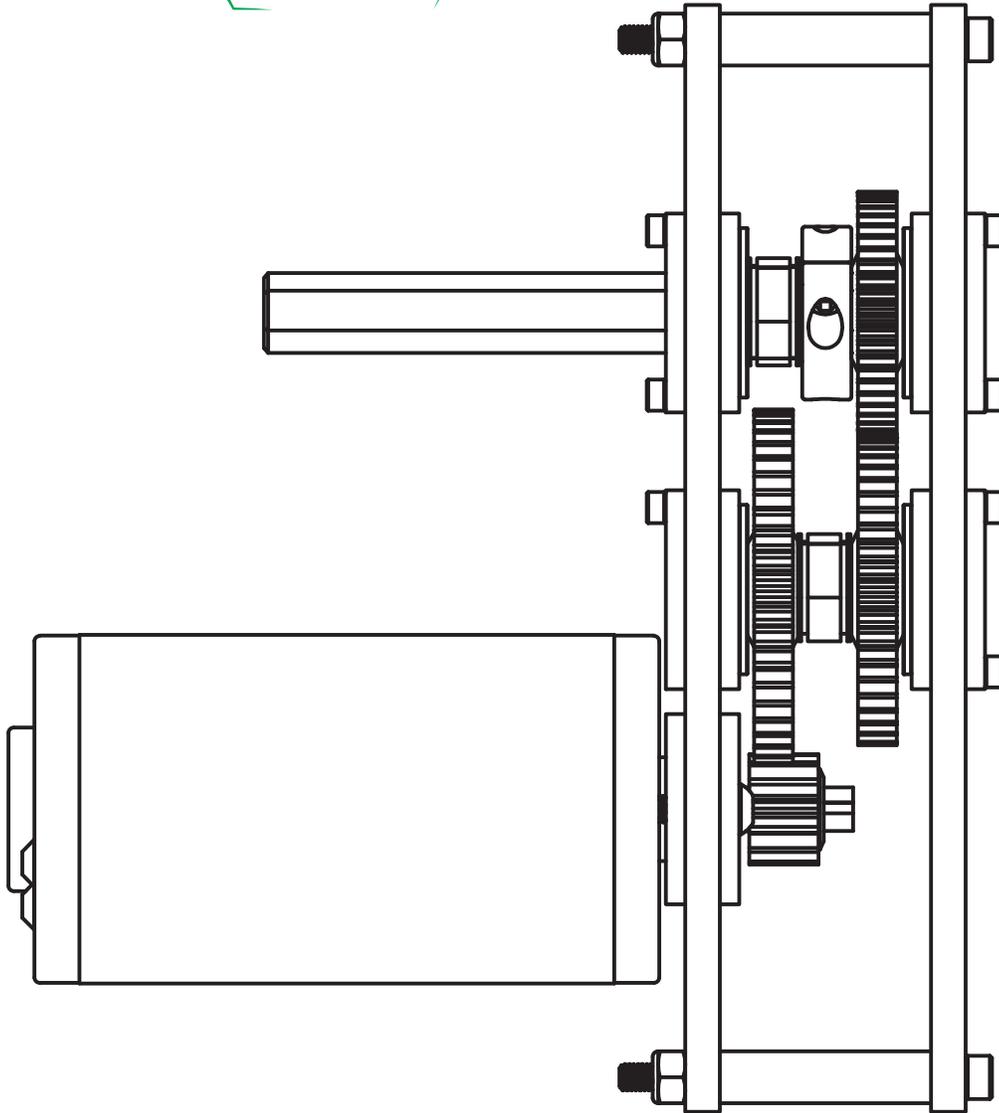
Hex collars can be used instead of FlexHubs spanning the width of the shaft.



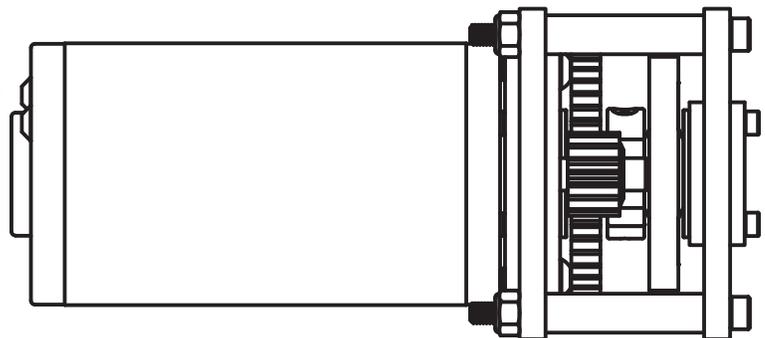
FlexHubs may not be used to substitute shaft collars in the case of using a through block as the shaft collar ensures the shaft does not slide out.



A fully assembled modulox gearbox can use as many gears as you can fit and the ratios are almost endless!



If you want more information on the modulox system or how to purchase a kit please go to www.modulox.com



THANK YOU!

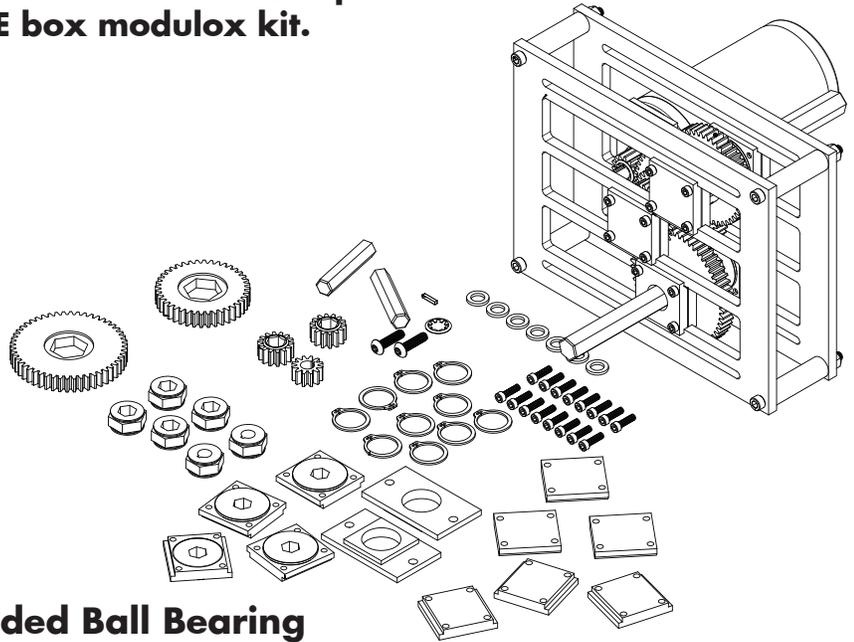




with: **FlexHub**



Below is the list of components included in the THE box modulox kit.

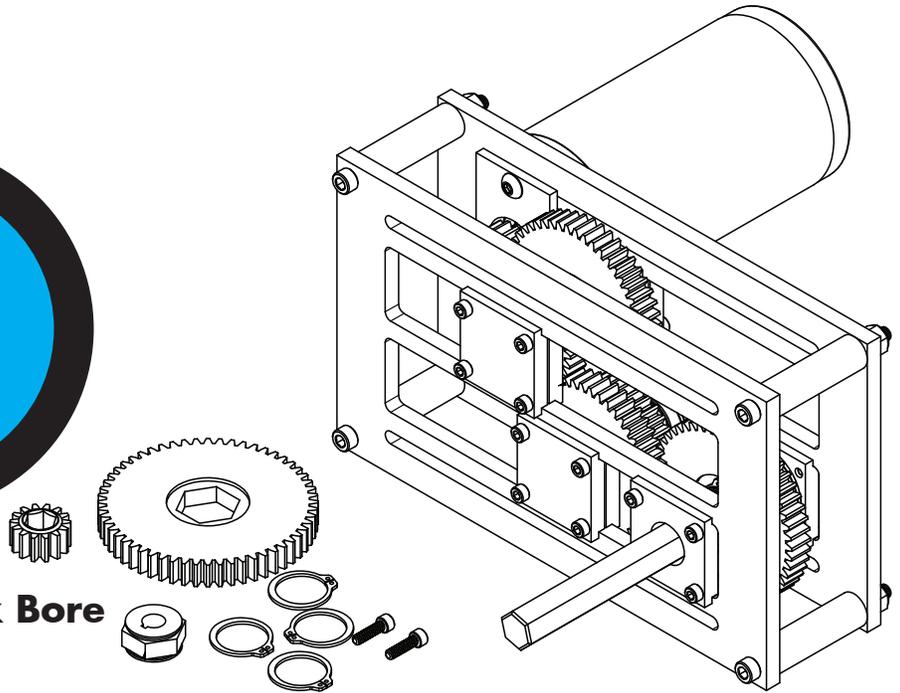
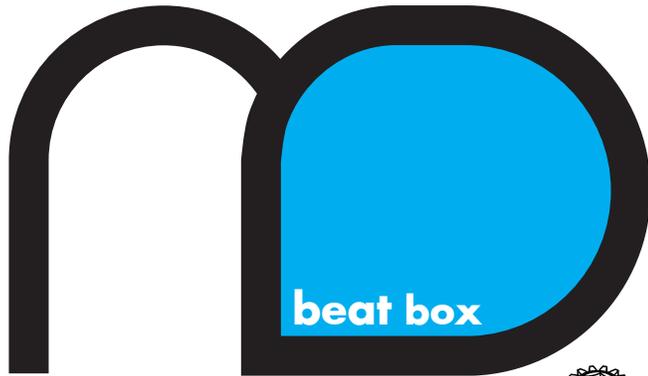


- Ten - Bearing Block For Modulox
- Four - 1/2" Hex Bore, Flanged, Shielded Ball Bearing
- Ten - Back Block For Modulox
- Two - Retainer Clip, 8mm Id
- One - Cim Gear, 14 Tooth
- Two - Thru Block For Modulox
- Four - Rail Spacer For Modulox
- Two - 1/2" Hex Shaft X 5" Long For Modulox
- Four - Motor Receiver For Modulox
- Four - 10-32 Nylock Nut, Steel, Zinc Plated
- Four - #10-32 X 2-1/2" Shcs
- Four - #10-32 X 3/4" Shcs
- Six - 3/8" Hex Bore, Shielded, Flnged Ball Bearing, 1.125" O.D.
- Two - 2x2x10 Mm Machine Key
- Three - Shaft , Hex 3/8" X 1.85" Long
- Two - 3 Slot Modulox Plate
- Twelve - 5/16" Flat Washer
- Fourty - Shcs, 6-32 X .5", Steel, Zinc
- One - 12 X 520 Tooth Cim Gear
- Two - Gear, Standard Width, 20dp, .375 Hex Bore, 14 Tooth
- One - Gear, Flex Hub, 20dp, 28 Tooth
- Two - Gear, Flex Hub, 20dp, 50 Tooth
- One - Gear, Flex Hub, 20dp , 40 Teeth
- One - Gear, Flex Hub, 20dp , 35 Teeth
- Three - Shaft Collar, Stnd, .500 Hex
- One - Gear, Flex Hub, 20dp, 56 Tooth
- Three - Hub, Flex Hub, .500 Hex
- Seven - Hub, Flex Hub, .375 Hex
- Two - Hub, Flex Hub, 8mm, 2mm Keyway
- Twenty - Snap Ring, Stnd, .75 Id
- One - Gear, Flex Hub, 20dp, 45 Tooth



with: **FlexHub**

Below is the list of components included in the beat box modulox kit.

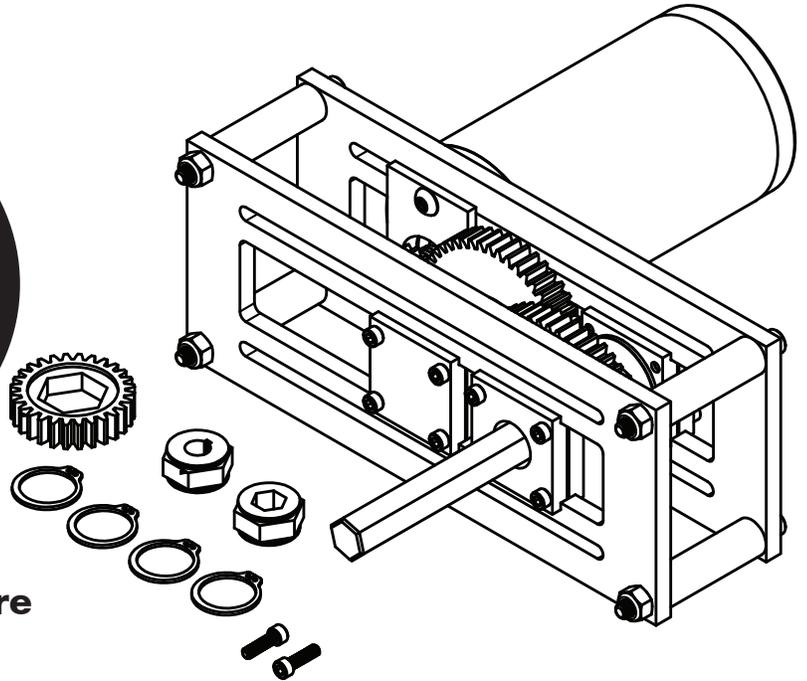
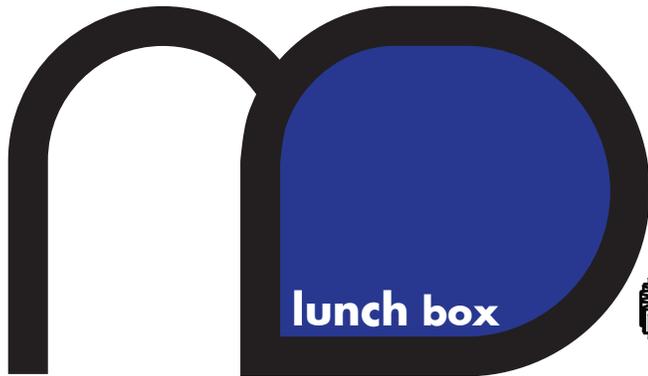


- Two - Bearing Block, .500" Hex Bore
- Five - Back Block For Modulox
- One - Retainer Clip, 8mm Id
- One - Cim Gear, 14 Tooth
- One - Thru Block For Modulox
- Four - Rail Spacer For Modulox
- One - 1/2" Hex Shaft X 5" Long For Modulox
- Two - Motor Receiver For Modulox
- Four - #10-32 Nylock Nut, Steel, Zinc Plated
- Four - #10-32 X 2-1/2" Shcs
- Two - #10-32 X 3/4" Shcs
- Four - Bearing Block, .375" Hex Bore
- One - Gear, Standard Width, 20dp, .375 Hex Bore, 14 Tooth
- One - 2x2x10 Mm Machine Key
- Two - Shaft, Hex 3/8" X 1.85" Long
- Two - 2 Slot Modulox Plate
- Six - 5/16" Flat Washer
- Twenty-Four - Shcs, 6-32 X .5", Steel, Zinc
- One - Gear, Flex Hub, 20dp, 56 Tooth
- One - Gear, Flex Hub, 20dp, 35 Teeth
- One - Shaft Collar, Stnd, .500 Hex
- Two - Gear, Flex Hub, 20dp, 50 Tooth
- One - Gear, Flex Hub, 20dp, 45 Tooth
- One - Gear, Flex Hub, 20dp, 28 Tooth
- Two - Hub, Flex Hub, .500 Hex
- Six - Hub, Flex Hub, .375 Hex
- One - Hub, Flex Hub, 8mm, 2mm Keyway
- Fourteen - Snap Ring, Stnd, .75 Id



with: **FlexHub**

Below is the list of components included in the lunch box modulox kit.



- Two - 1 Slot Modulox Plate
- Two - Bearing Block, .500" Hex Bore
- Three - Back Block For Modulox
- One - Retainer Clip, 8mm Id
- One - Cim Gear, 14 Tooth
- One - Thru Block For Modulox
- Four - Rail Spacer For Modulox
- One - 1/2" Hex Shaft X 5" Long For Modulox
- Two - Motor Receiver For Modulox
- Four - 10-32 Nylock Nut, Steel, Zinc Plated
- Four - #10-32 X 2-1/2" Shcs
- Two - #10-32 X 3/4" Shcs
- Two - Bearing Block, .375" Hex Bore
- One - 2x2x10 Mm Machine Key
- One - Shaft , Hex 3/8" X 1.85" Long
- Six - 5/16" Flat Washer
- Sixteen - Shcs, 6-32 X .5", Steel, Zinc
- One - Gear, FlexHub, 20dp, 56 Tooth
- One - Gear, FlexHub, 20dp, 50 Tooth
- One - Gear, FlexHub, 20dp, 28 Tooth
- One - Hub, Flex Hub, .500 Hex
- Three - Hub, Flex Hub, .375 Hex
- One - Hub, Flex Hub, 8mm, 2mm Keyway
- One - Shaft Collar, Stnd, .500 Hex
- One - Gear, Standard Width, 20dp, .375 Hex Bore, 14 Tooth
- Eight - Snap Ring, Stnd, .75 Id