



Designer's Arsenal Log

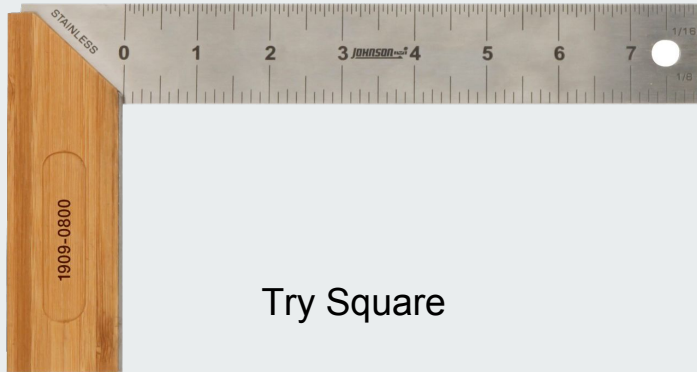
FeMaidens Design,

As a Robotics designer we all have to become familiarized with basic tools that are within our disposals. This packet is for you to take notes of what tools and parts are used for, how to use them, and where they can be found on the robot.

When you go home you are should study these and further research items that may still elude your understanding! It should be noted that your knowledge on these items will be lightly tested in the coming meetings.



Digital Calipers

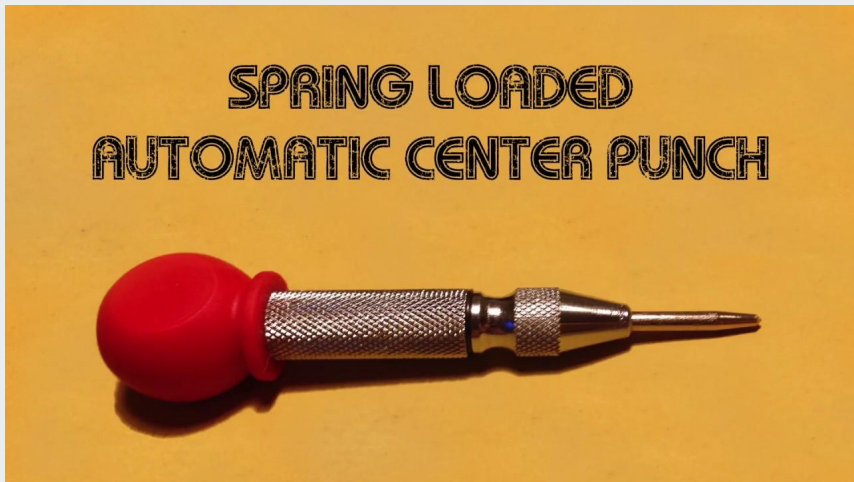


Try Square

Notes:



Marking fluid
(for layout / measuring)



Center Punch

Notes:



Hex Shafts

Notes:



Bearings (Hinged & Hex)

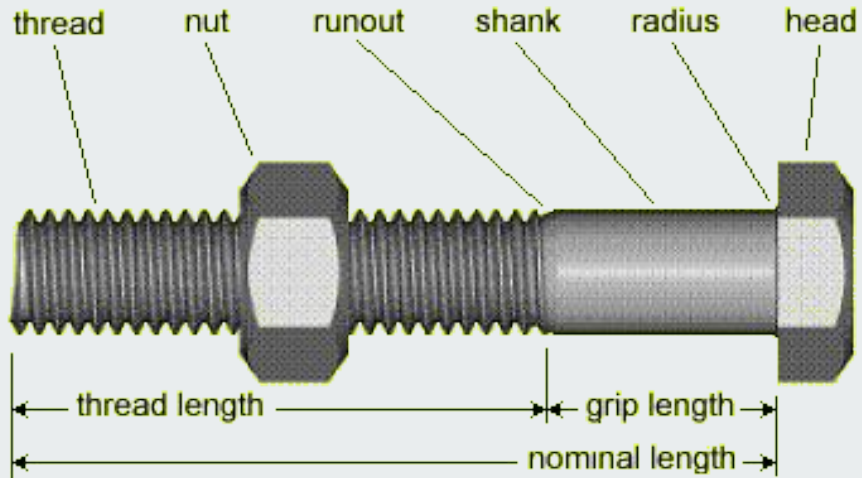


Bearing Clamp

Notes:



Nylock Nut



Bolt

Notes:



Spacers



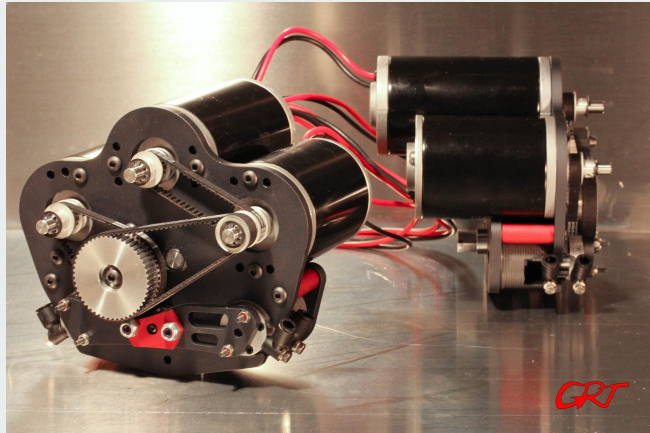
Washers

Notes:

FIRST Robotics
2013 Motors



Notes:



Motors
(CIM motor)

GRT



Gearboxes
(Andymark)

Notes:



Chain



Belt

Notes:



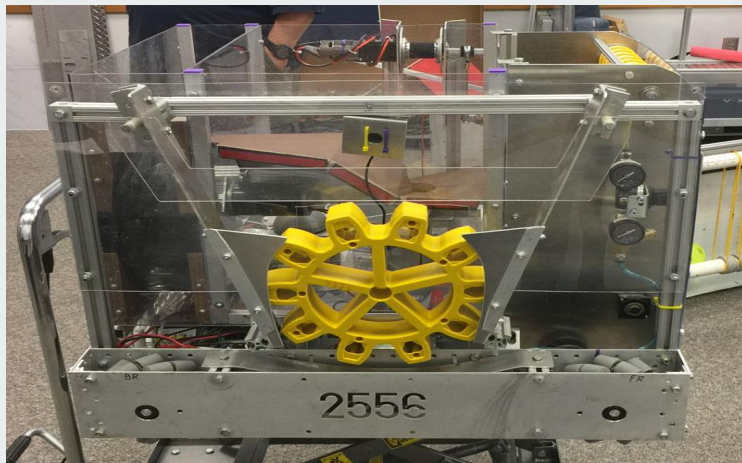
Hydraulic Pistons & Piston Mount
(Bimba website)

Notes:



Gussets (VEX or 8020 websites)

Notes:



Lexan



Notes:

Wheels (label which: Mecanum, Pneumatic, Omni, Traction & Fly)



Plastic Wheel hubs

- Connects the spokes of a wheel together (screws) and allow the wheel to mount to various shaft shapes