

swoboda technologies	Swoboda Operating System	XXXX	
	Instruction List for Winton Washer Recycler	Issue Date: 7/24/22	Rev. Date: 7/24/22
Owner: Lance Deemter		Releaser: Lance Deemter	

1. Important Documentation

- 1.1 For all procedures, forms, and work instructions referenced within this document

2. Safety Notes

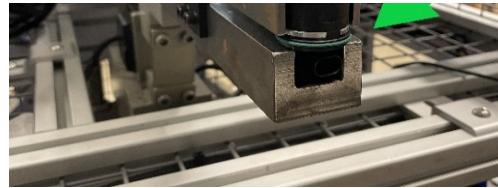
- 2.1 The user is obliged at all times to operate the equipment/system only with the safety precautions
- 2.2 The personell responsible for the equipment/system shall be obliged to ensure all safety measures
- 2.3 The equipment may only be maintained, set-up, repaired, etc. by personnel

3. Operability

- 3.1 When first operating machine
 - 3.1.1 Machine is connected to eletricity and air supply
 - 3.1.1.1 Air supply needs to be 8 bar
 - 3.1.2 All doors are closed
- 3.2 Run machine
 - 3.2.1 Insert part(s) into vibrating rail*

*orientation of part does not matter as long as head is in slotted rail





3.2.2 Follow steps 4 for operator maintainence

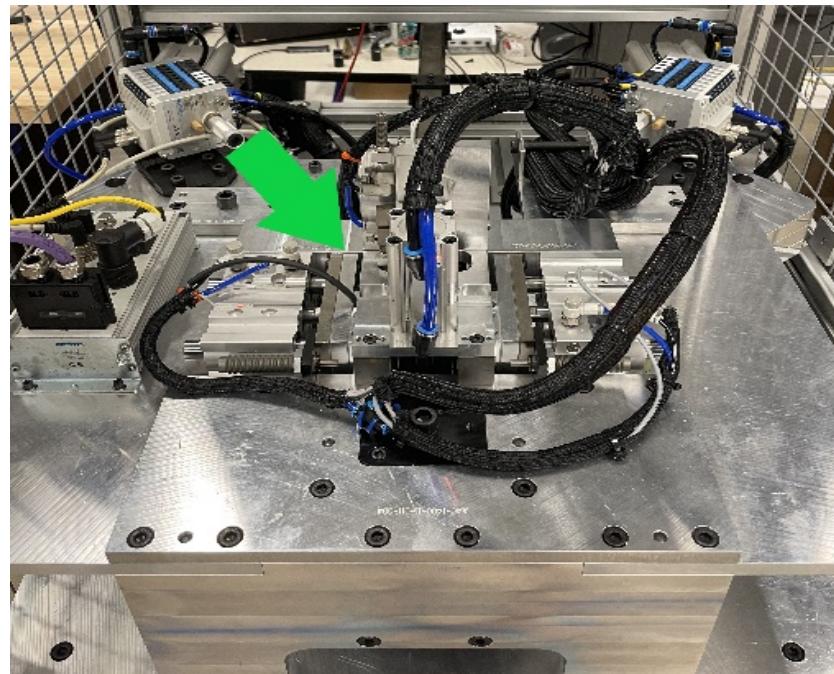
3.3 Empty bins when full

4. Complete Disassembly

E-STOP IS PRESSED, AIR IS OFF

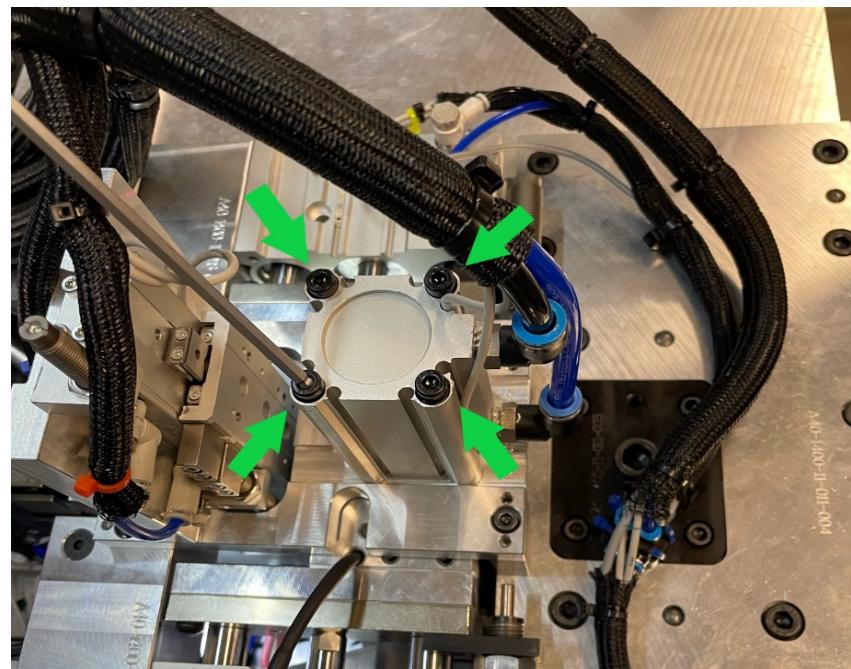
4.1 Remove washer removal base

4.1.1 Open rear door for access to top
/ hole punch mechanism

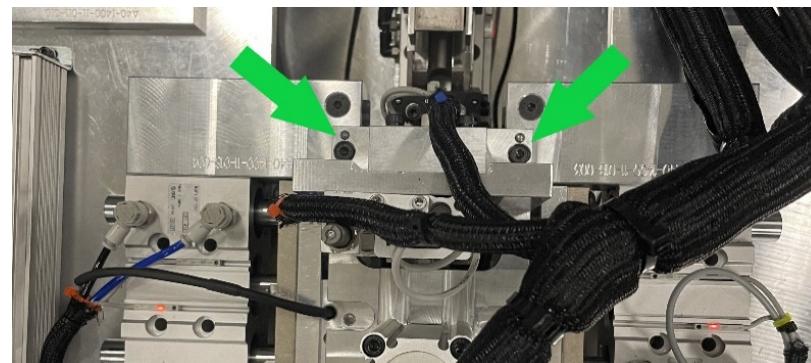


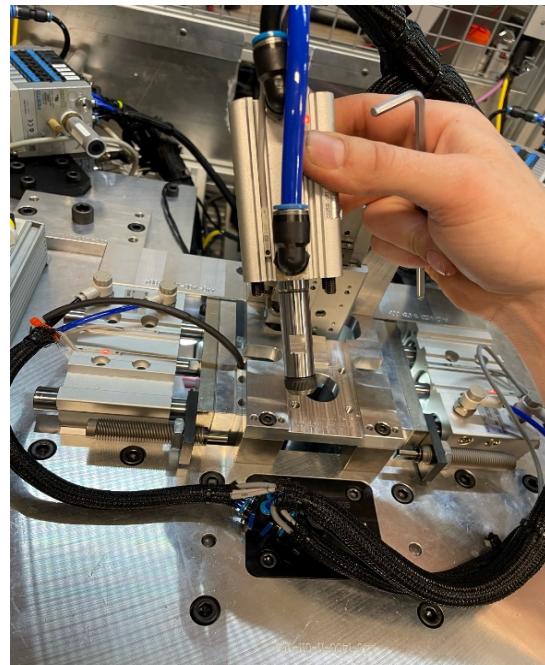


4.1.2 Remove 4, 4mm M5 bolt screws on top of cylinder



4.1.3 Remove 4 5mm bolts using an M4 alan key



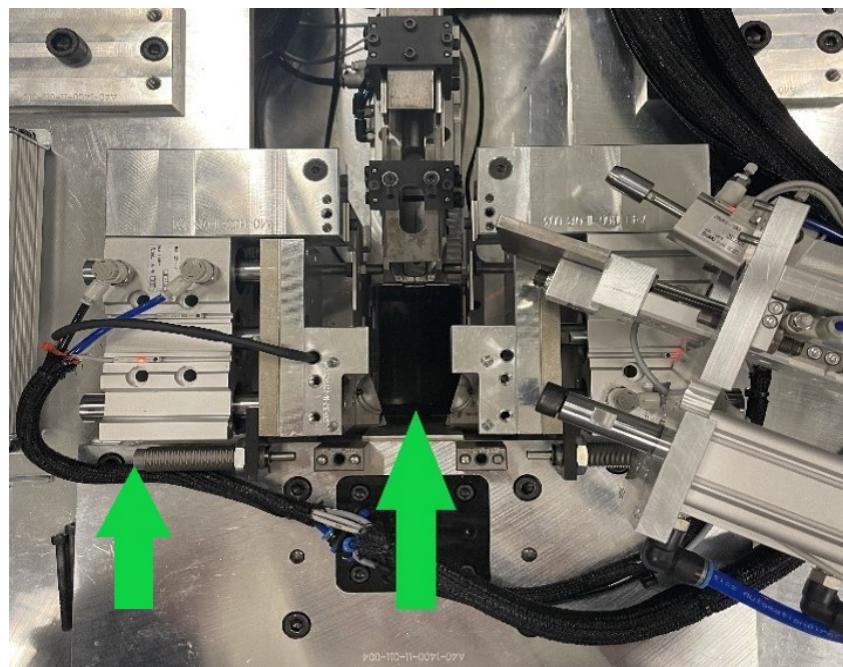


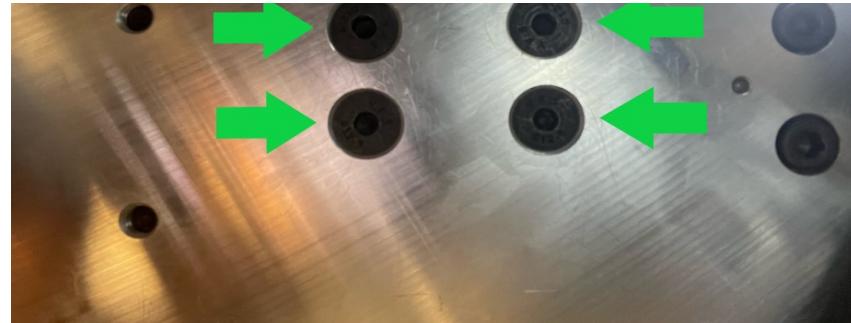
4.2 Remove shear arm pin



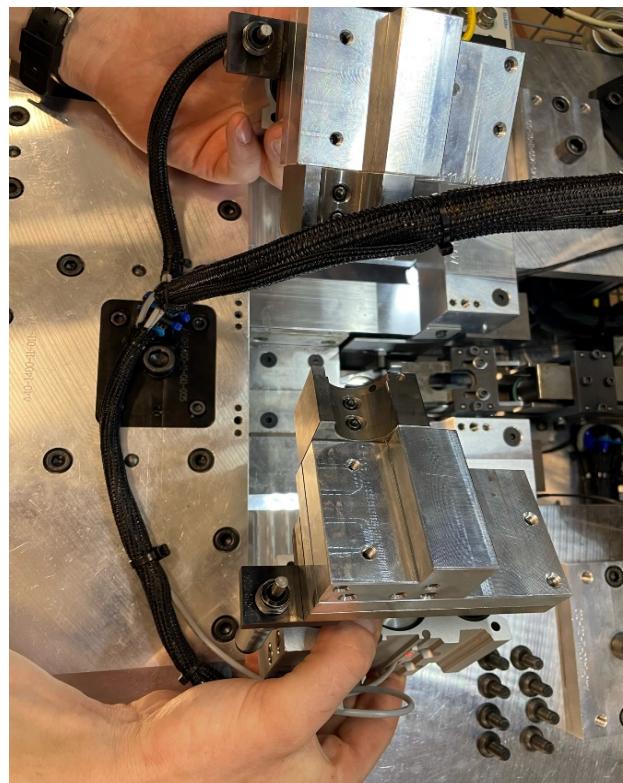


4.3 Remove 4 5mm, M8 screws underneath shear cylinders to remove clamps

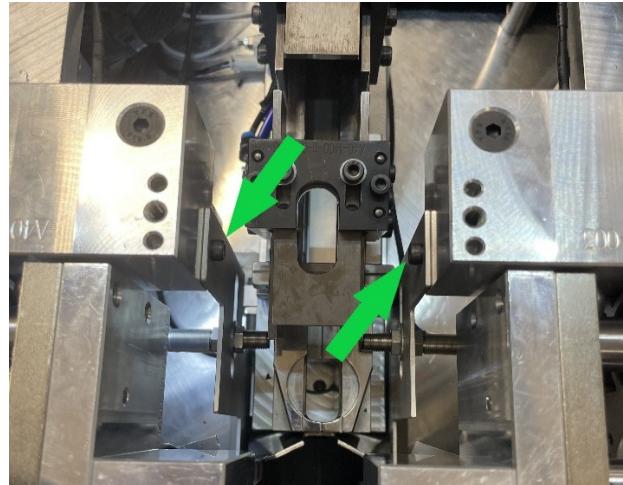




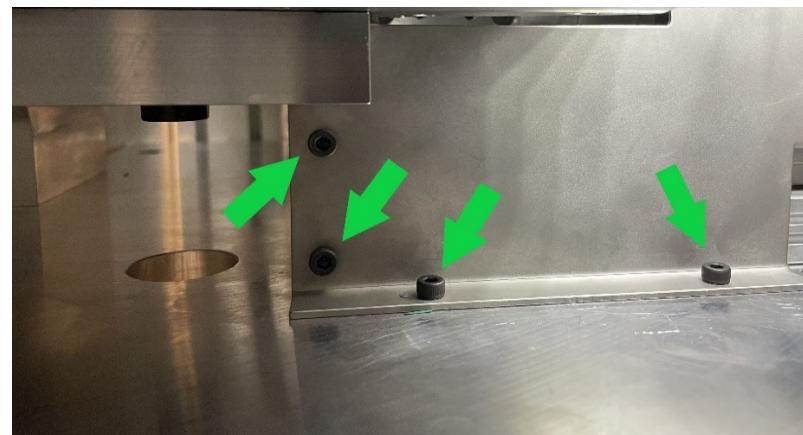
4.3.1 Remove Clamps



4.4 Remove 2 3mm screws on shrapnel shroud from inside

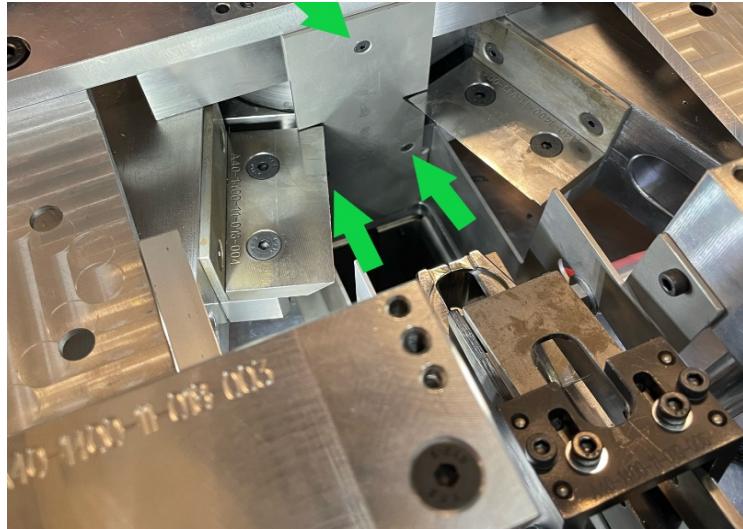


4.4.1 Remove 4 3mm bolts on shrapnel shroud from outside

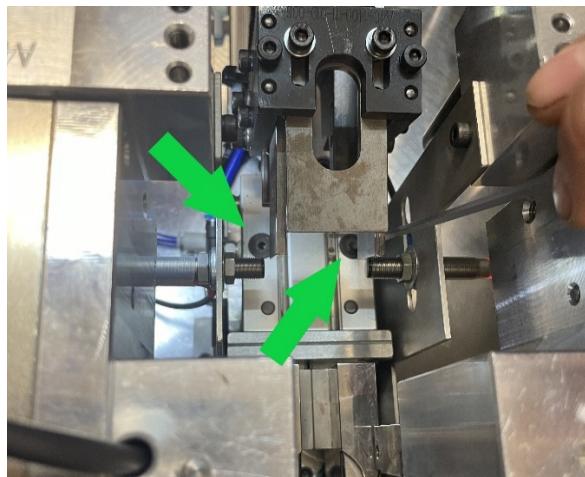


4.4.2 Remove Middle shroud 3 2mm, M2 bolts



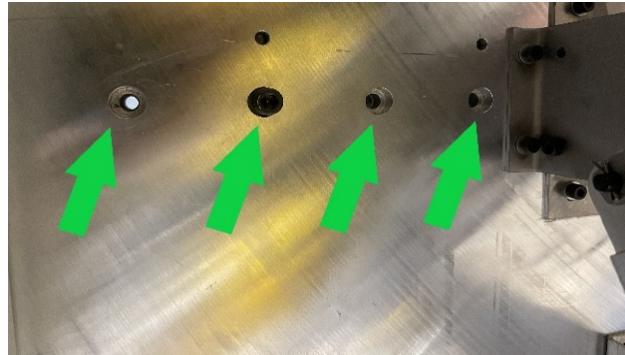


- 4.4.3 Remove lateral transfer
Remove 2 3mm bolts on top of cylinder



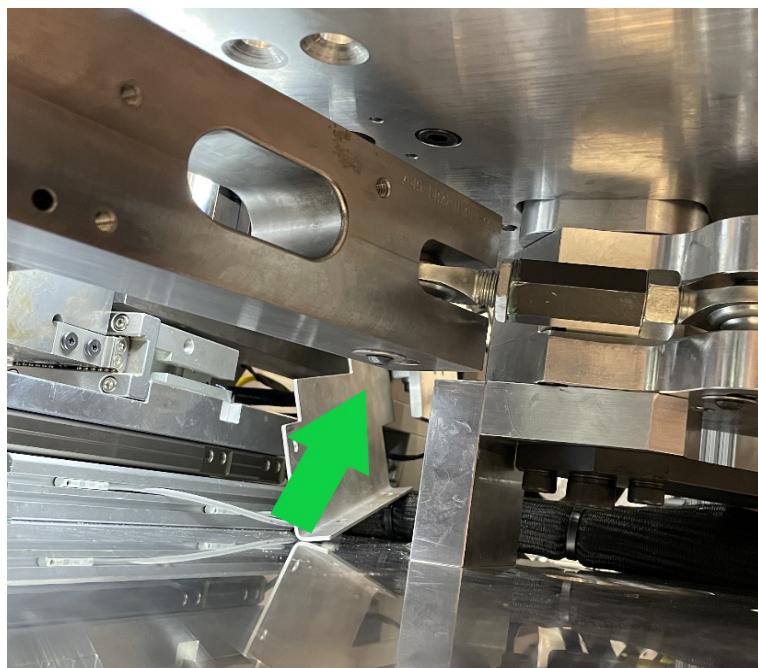
- 4.4.4 Remove 4 bottom 5mm bolts on bottom



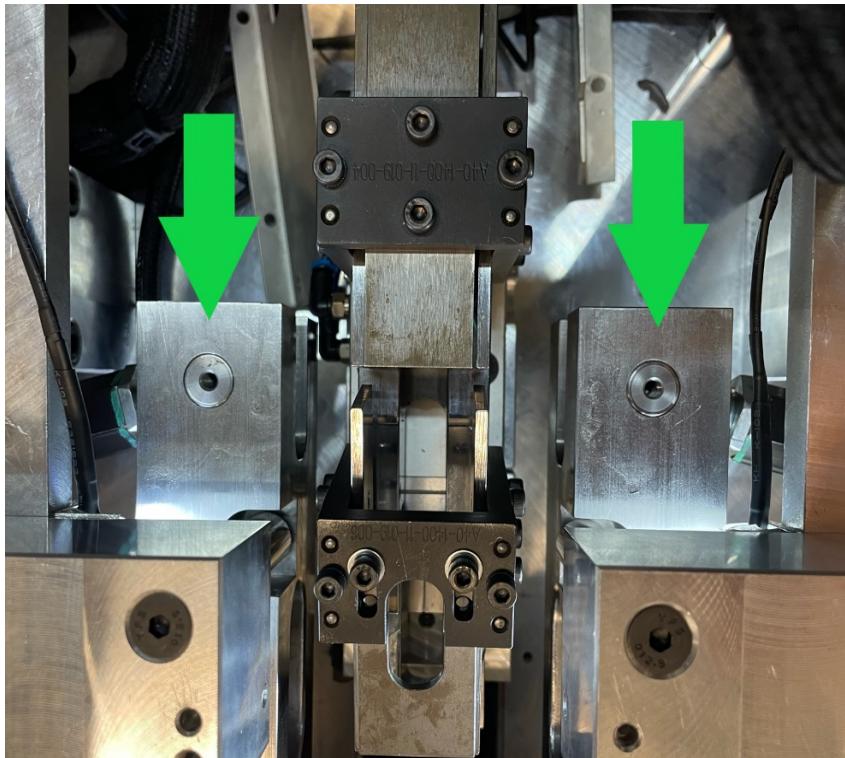


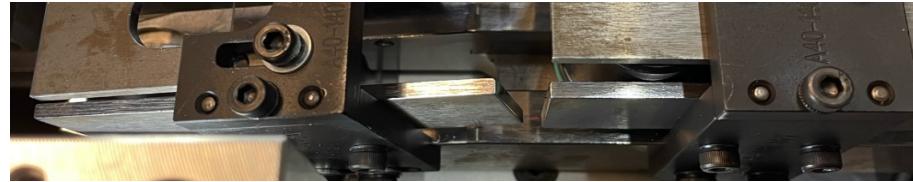
4.5 Remove shear arm pins

4.5.1 Remove M5 button head cap screw under shear arm



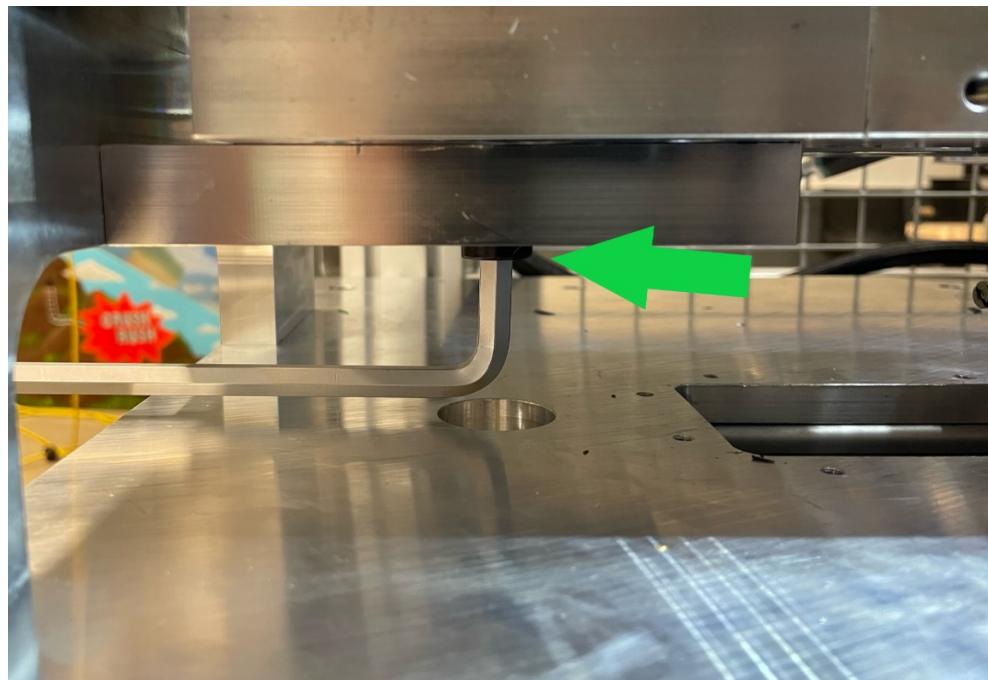
4.5.2 Attach screw from step 4.5.1 and pull out pins





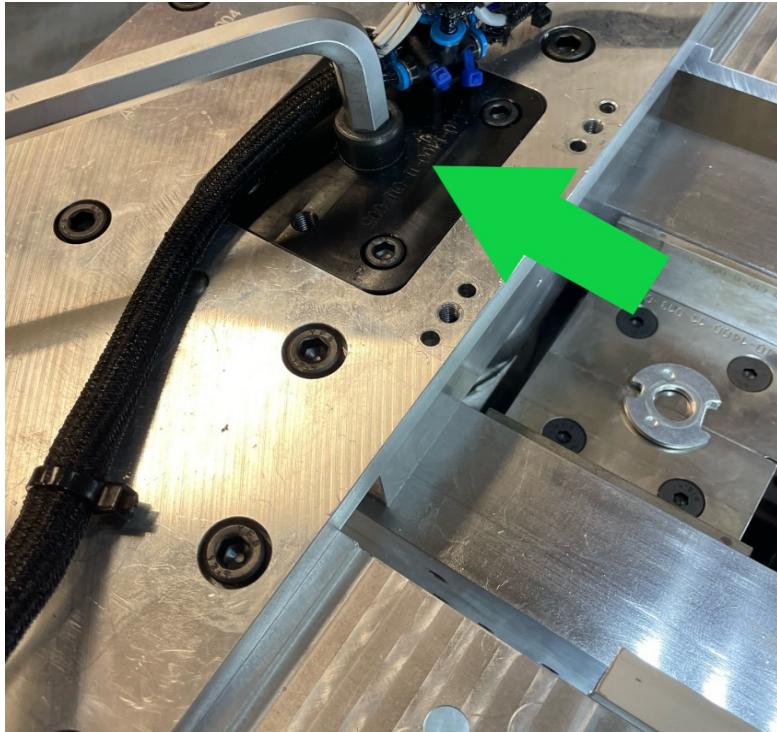
4.6 Remove Shear Arms

4.6.1 Remove lower shear arm shaft bolt by just loosening lower M8 8mm bolt

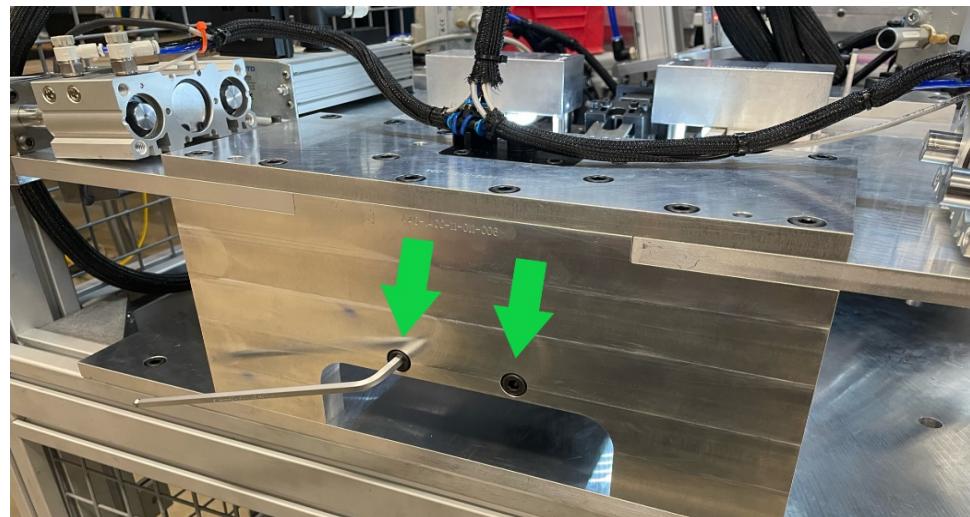


4.6.2 Remove upper shear arm shaft bolt by just loosening upper M10 8mm bolt



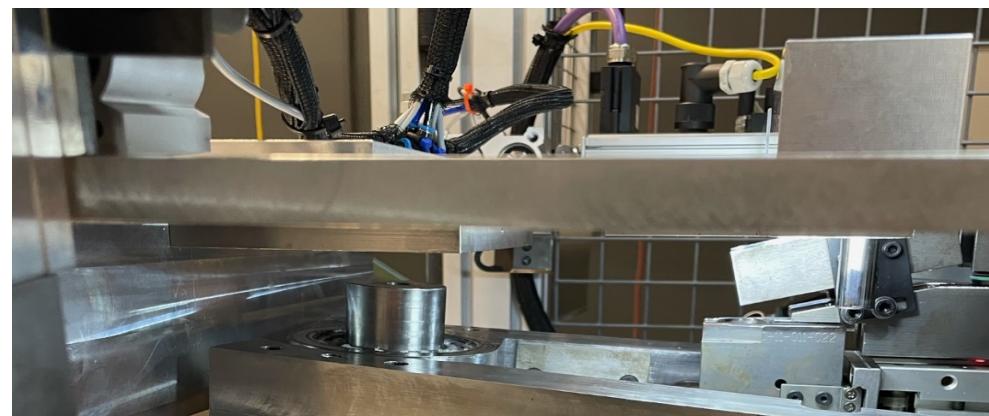
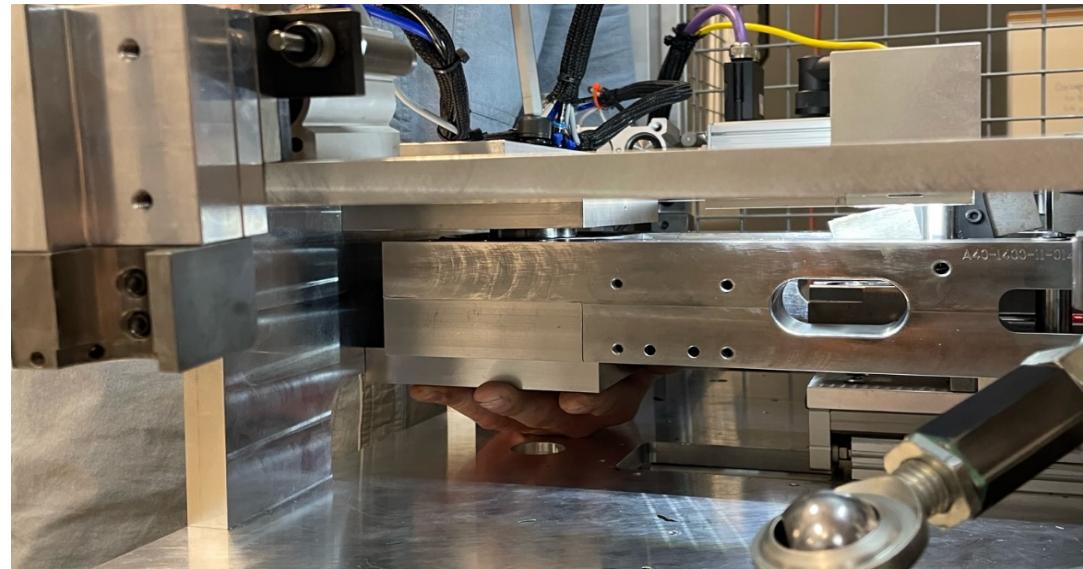


4.6.3 Remove





- 4.6.4 By loosening and removing the upper shear arm bolt from step 4.6.2, the shear arms and main bearing can be lowered

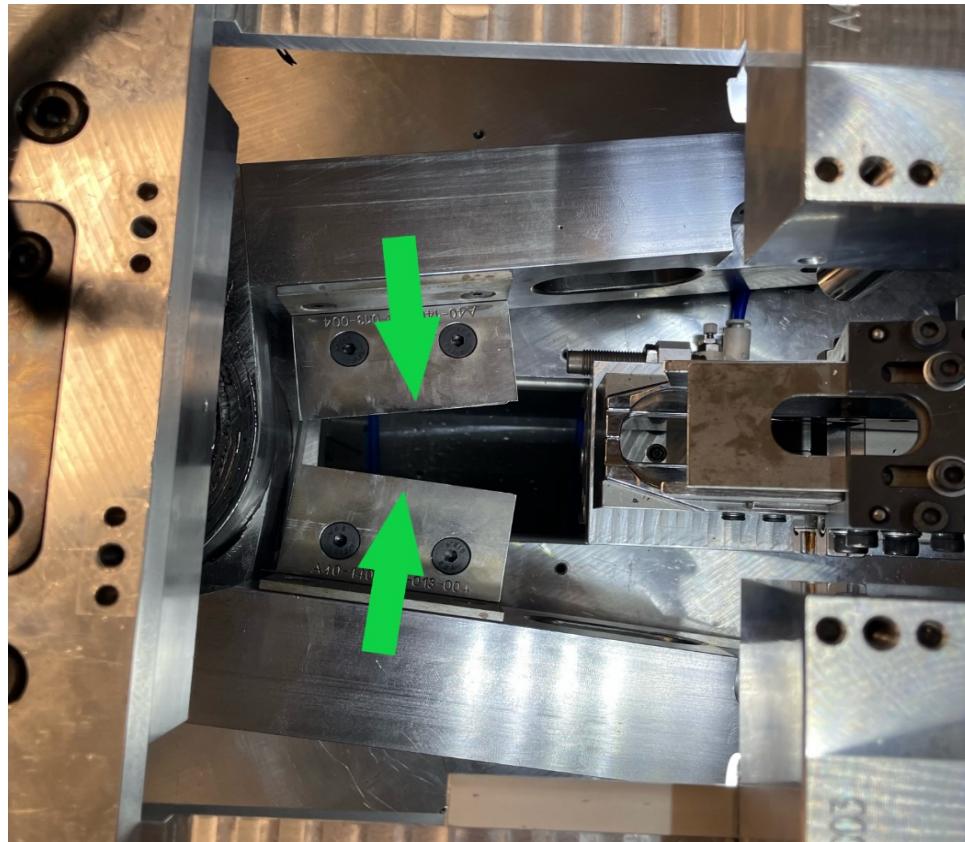


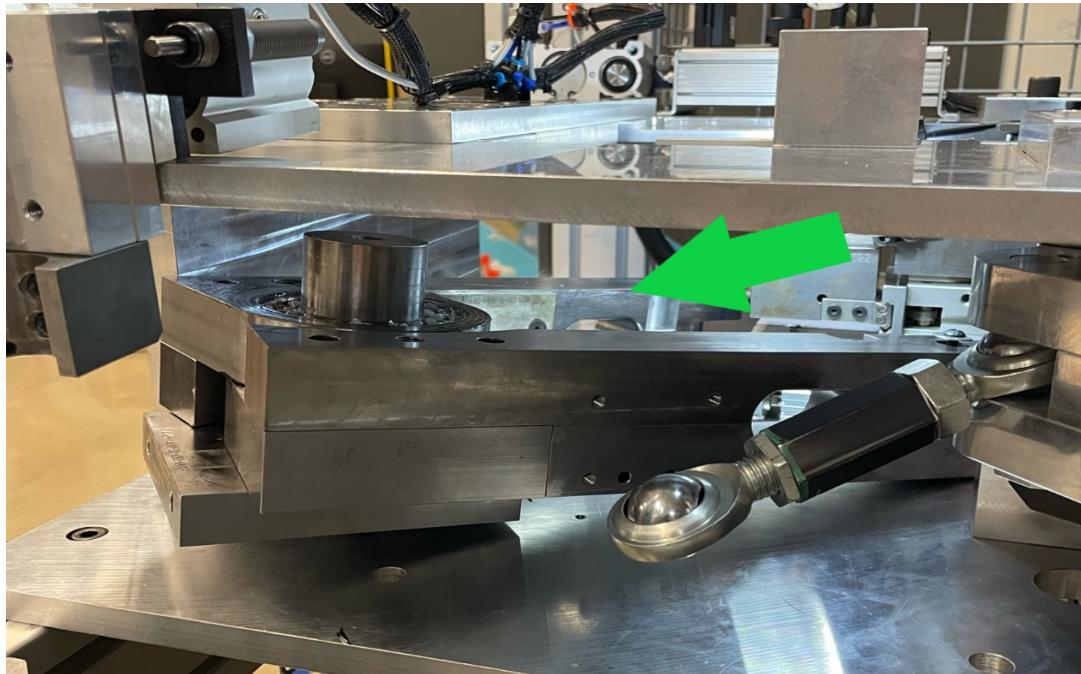


4.6.5

Removing shear arms and main bearing

Blades must be oriented as such and can be removed towards
the side of the machine





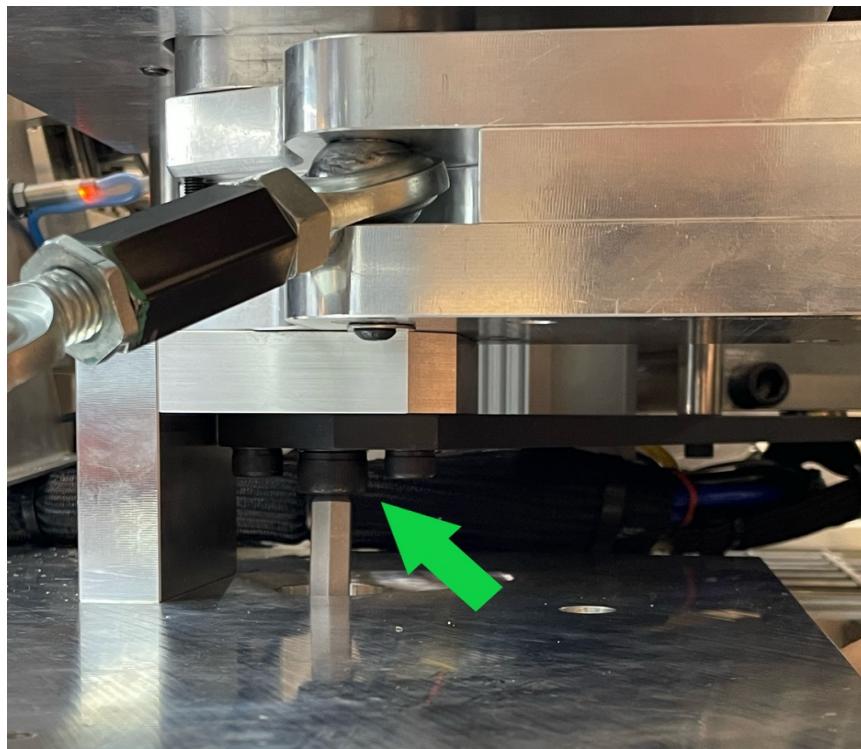
4.6.6 Complete access to shear arms and bearing





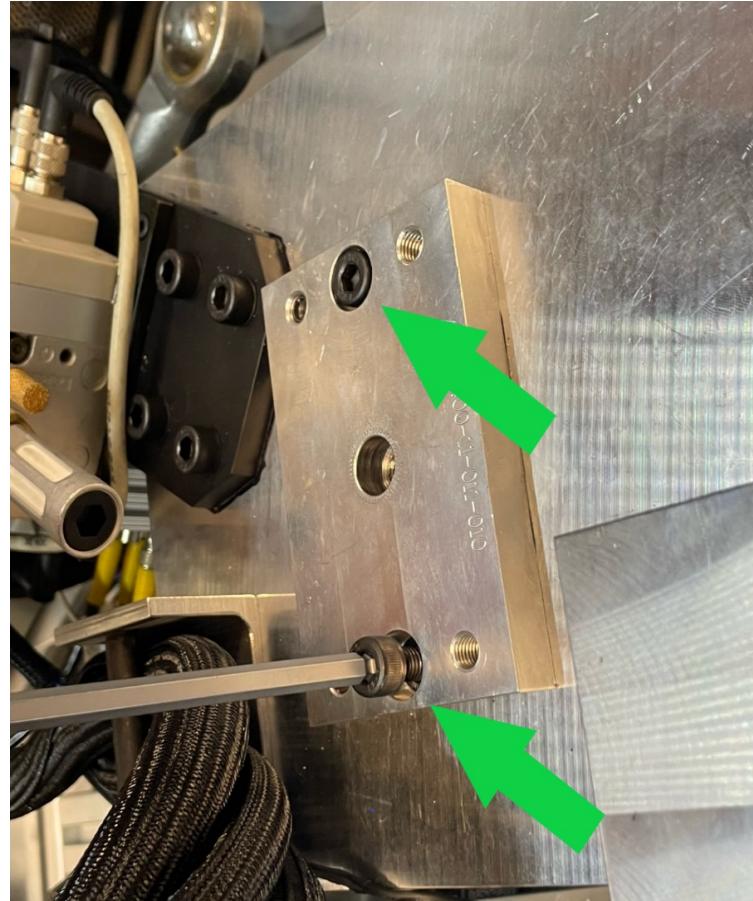
4.7 Remove shear tert link

4.7.1 Loosen and remove bottom M12 bolt to remove tertiary link

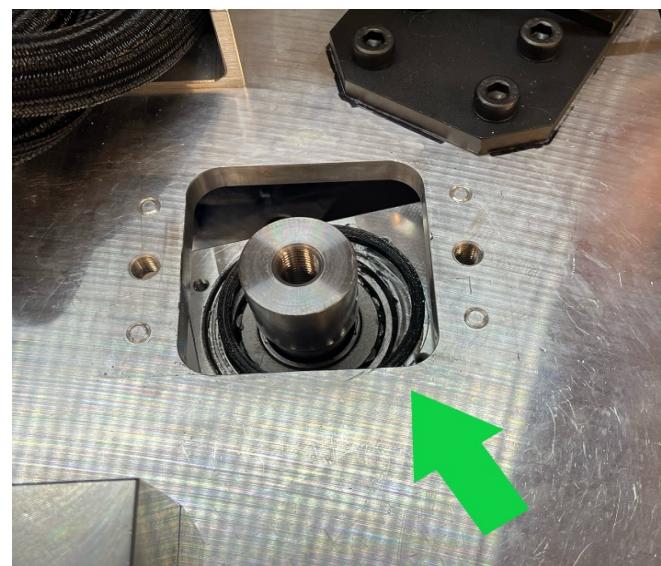
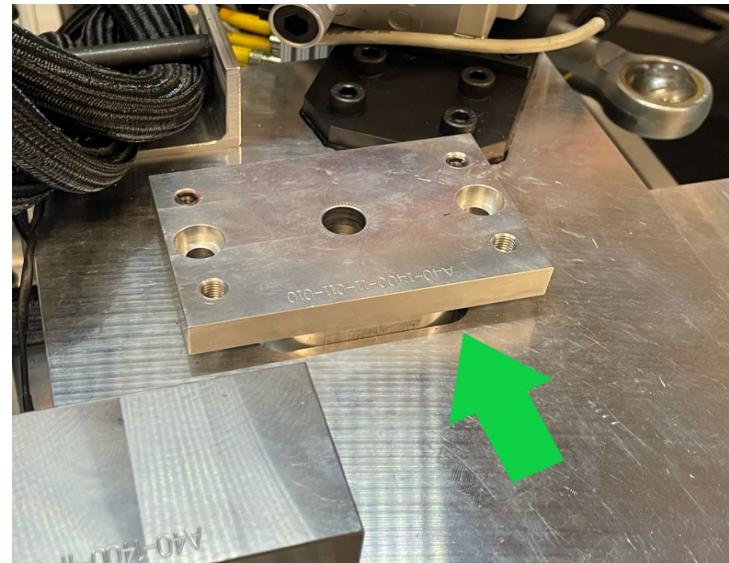


4.7.2 Loosen and remove top M12 bolt and M8 screws

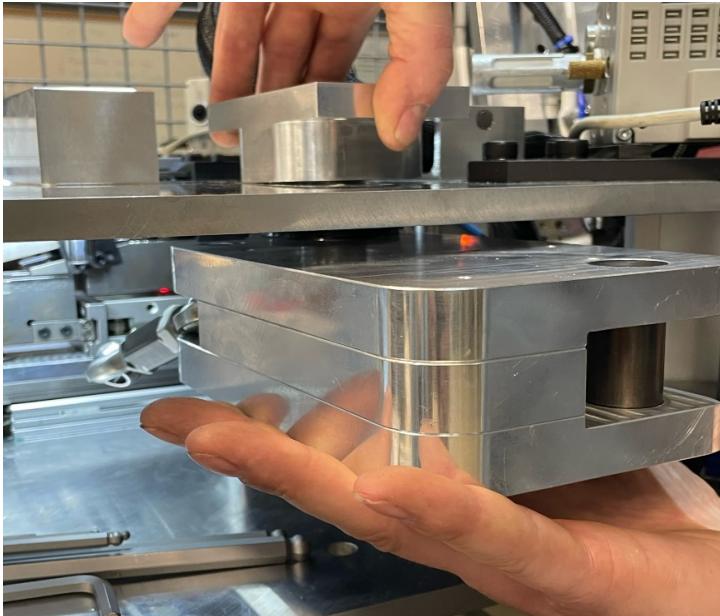




4.7.3 Remove inside tertiary link pin

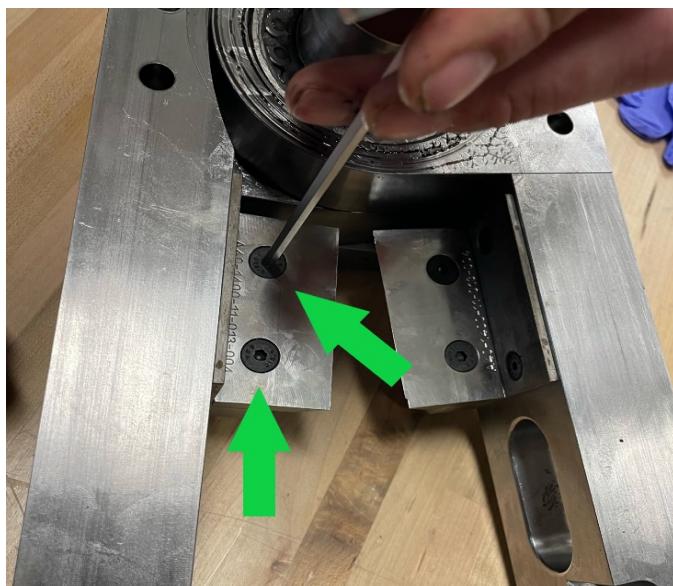


4.7.4 Remove tertiary arms



4.8 Remove Blades

4.8.1 Remove M4 flat head bolts to remove shear blades

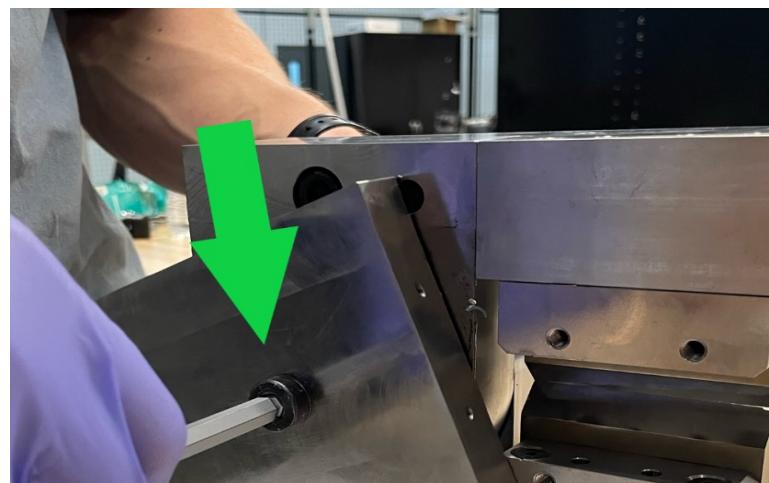


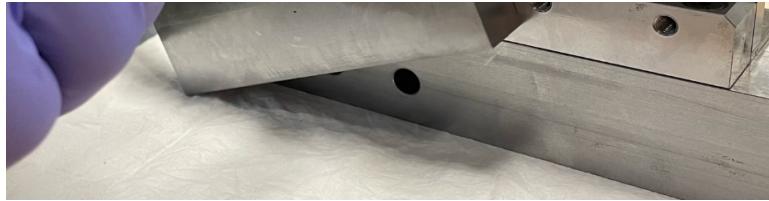
4.9 Remove bearings

4.9.1 Wear gloves and expose side of bearing

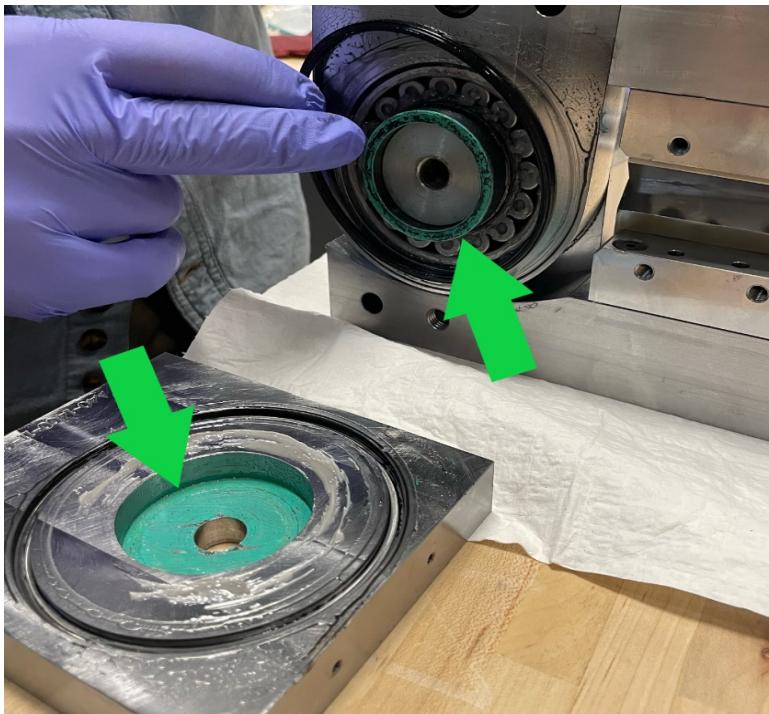


4.9.2 Remove main M12 bolt using M8 alan key and remove the shear arm cover





4.9.3 Remove O-rings and spacer, ensuring that the green sides stay together



4.9.4 Remove shear arms from each other





5 Maintenance

E-STOP IS PRESSED AND AIR IS OFF

5.1 Part dislodged in main cutting area

Refer to steps 4.1.1 - 4.1.3

5.2 Part dislodged in lateral transfer

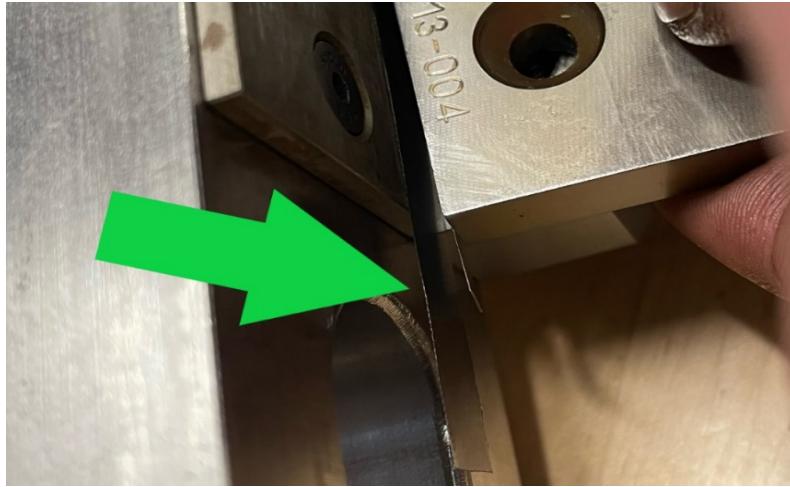
Refer to steps 4.1.1 - 4.4.4

5.3 Changing shear blades

Refer to steps 4.1 - 4.8

Make sure to use shims and depicted below





5.4 Changing or maintaining bearing

Refer to steps 4.1 - 4.9

5.5 Node removal

5.5.1 Remove 2 3mm M4 screws

