

# ALL ONE ROBOTICS



## Assembly Instructions

Robotic Arm

# Material



Laser cutting plywood



3d printed PLA



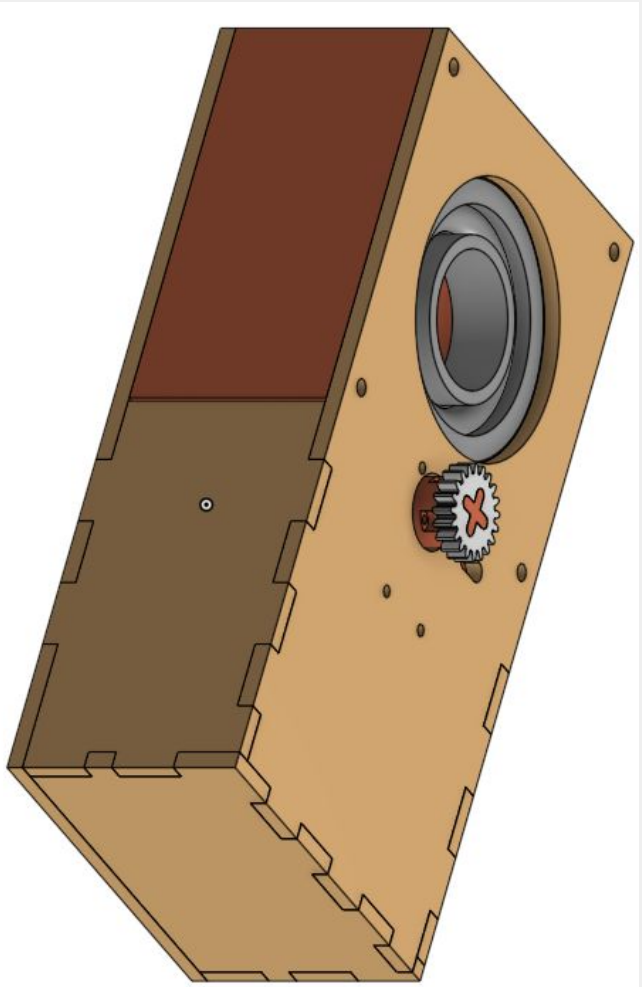
Laser cutting PVC



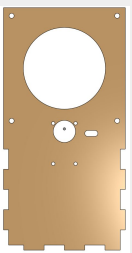
steel



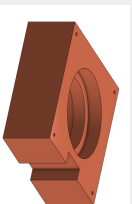
# Step 1



# Parts



top x1



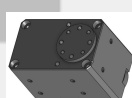
adapteur x1



small\_gear\_pelvis (20 teeth) x1



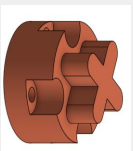
SKF 7208 x2



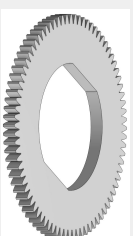
XL430-W250-T x1



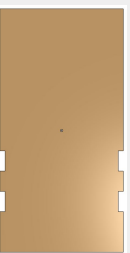
wall\_front x1



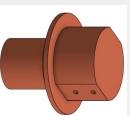
motor\_link\_x1 x1



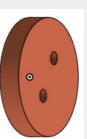
big\_gear\_pelvis (80 teeth) x1



bottom x1



tree\_base x1



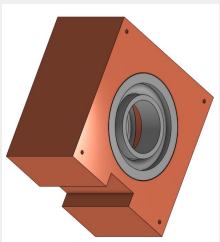
fixing\_base\_tree x1



wall\_side x2

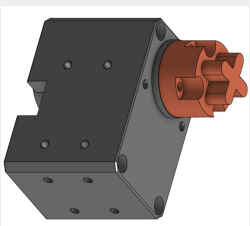
1

adaptation  
SKF 2708 x1



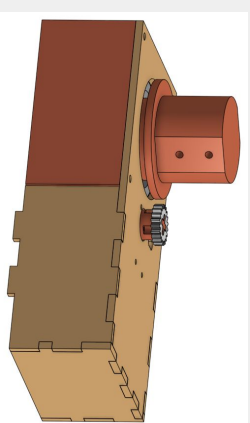
4

motor  
link  
Screws :  
- M2 (12) x4



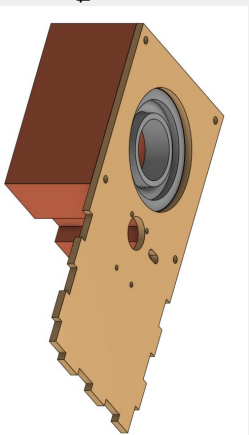
7

side  
front



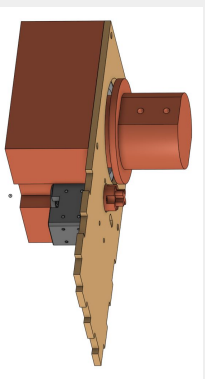
2

top  
Screws :  
- M3 (20) x4



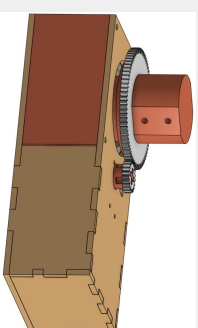
5

Screws :  
- M2 (12) x4



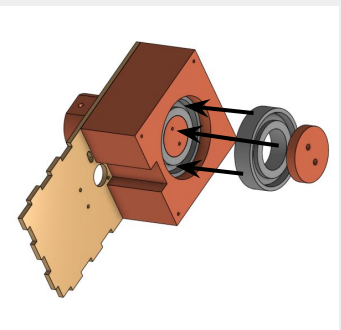
8

bottom  
big gear



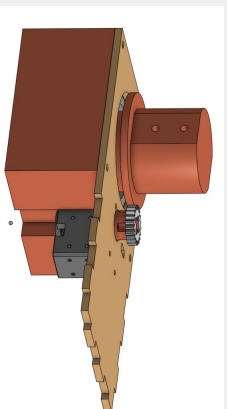
3

tree  
fixing tree  
SKF 2708 x1  
Screws :  
- M3 (20) x2

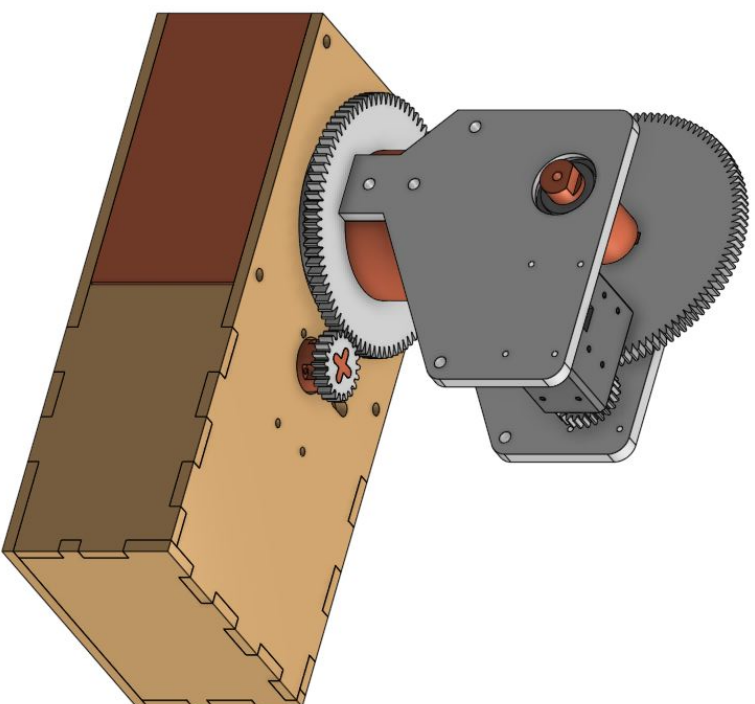


6

Small gear



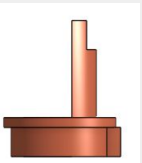
# Step 2



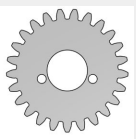
# Parts



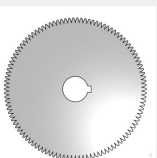
tree\_shoulder x1



fixing\_shoulder\_tree x1



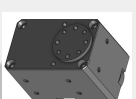
small\_gear\_shoulder (25 teeth) x1



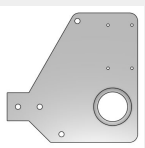
big\_gear\_shoulder (110 teeth) x1



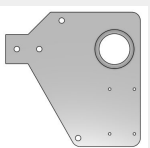
SKF 7202 x2



XM430-W/350-T x1



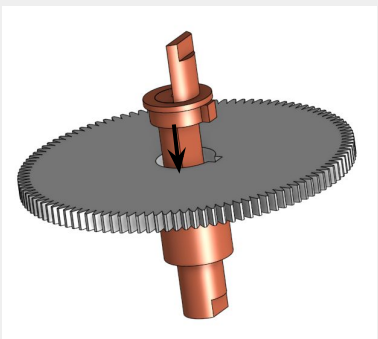
left\_side x1



right\_side x1

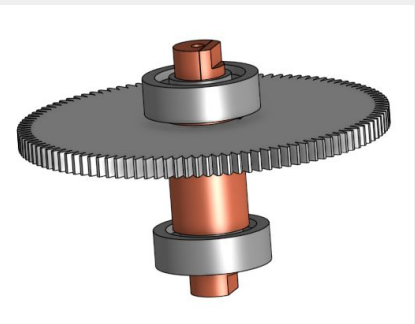
1

beag gear  
tree  
fixing tree



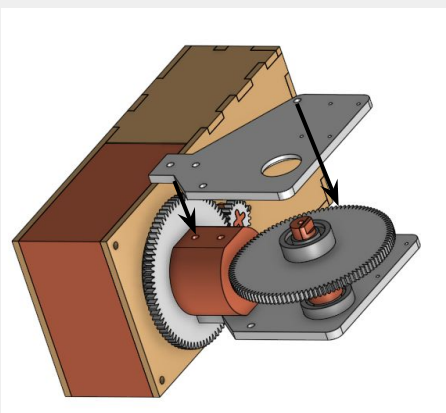
2

SKF 7202



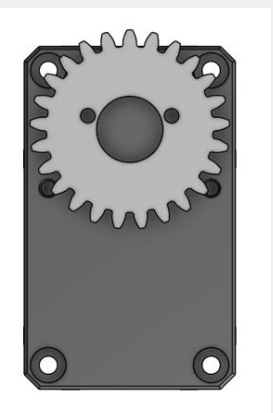
3

left side  
right side  
Screws :  
- M5 (70) x3



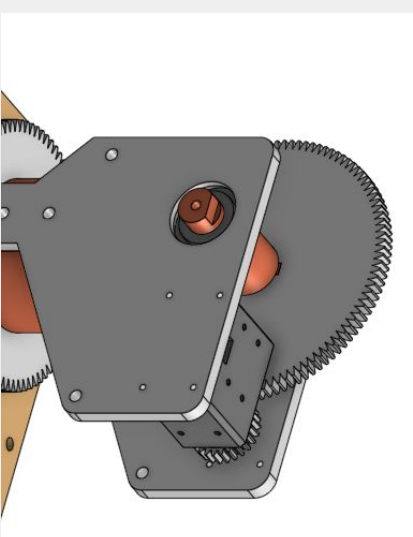
4

motor  
small gear  
Screws :  
- M2 (12) x2



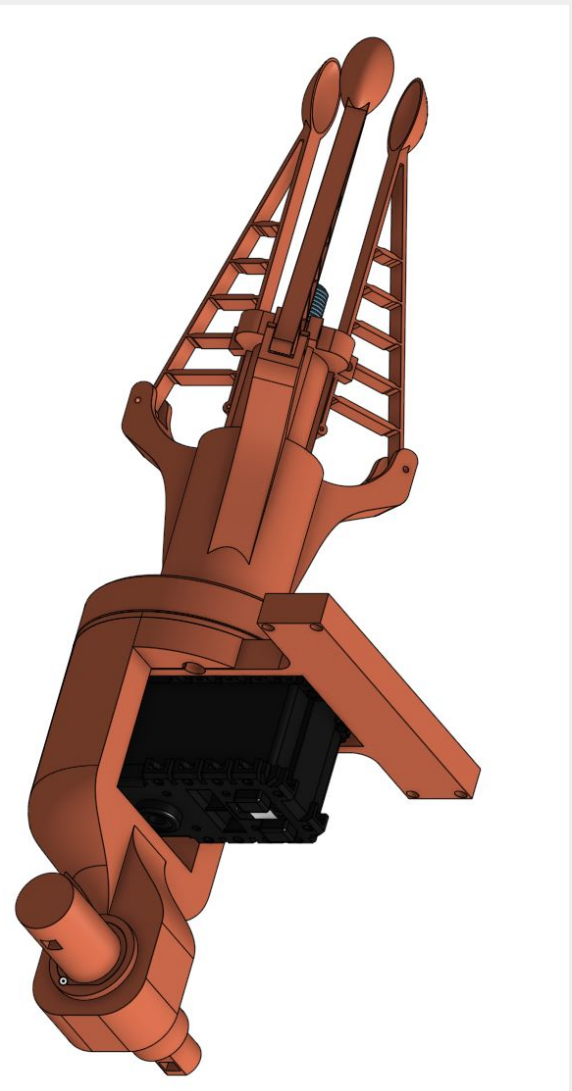
5

Screws :  
- M2 (12) x4

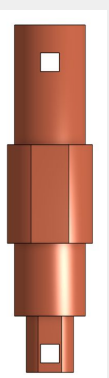




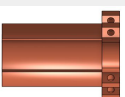
# Step 3



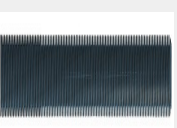
# Parts



tree\_wrist x1



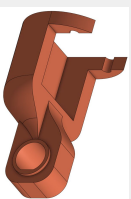
fixing\_rod x1



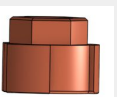
threaded\_rod x1



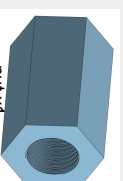
AX-12W x1



fixing\_hand x1



cover\_rod x1



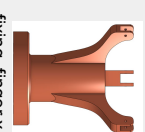
nut x1



fixing\_camera x1



finger x3



fixing\_finger x1

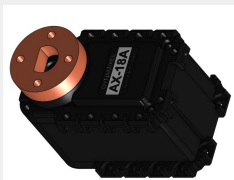


fixing\_AX



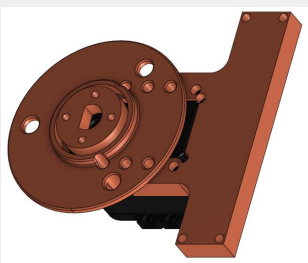
1

motor  
fixing ax  
Screws :  
- M2 (8) x4



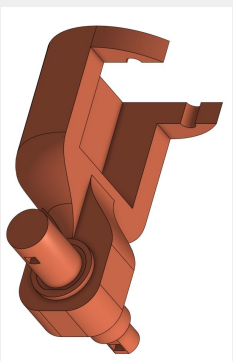
2

fixing camera  
Screws :  
- M2 (10) x4



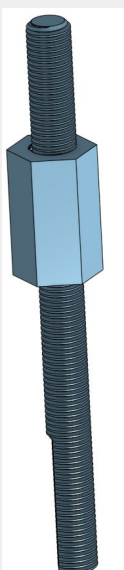
3

fixing hand  
tree



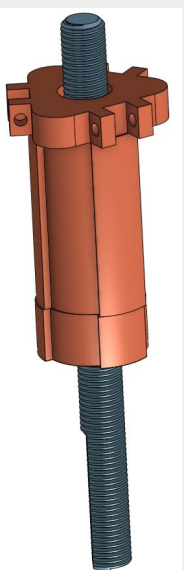
4

threaded rod  
nut



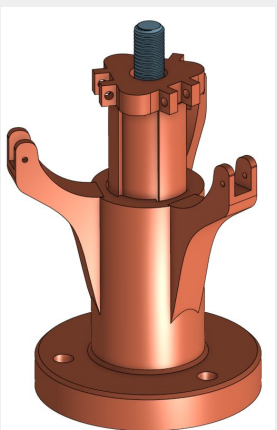
5

fixing rod  
cover rod



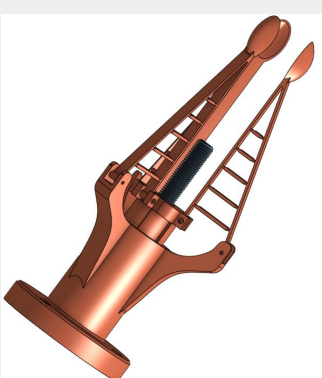
6

fixing finger



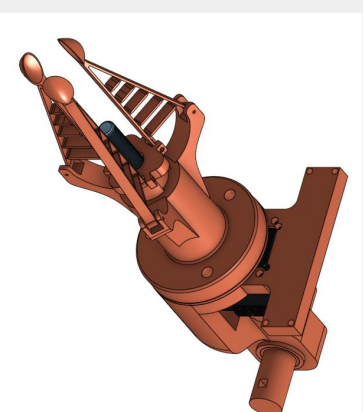
7

finger x3  
Screws :  
- M2 (15) x6



8

Screws :  
- M5 (25) x3



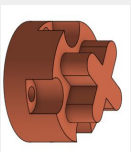
# Step 4



# Parts



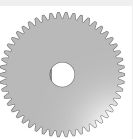
tree\_elbow x1



motor\_link\_xl x1



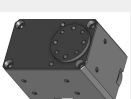
small\_gear\_wrist (25 teeth) x1



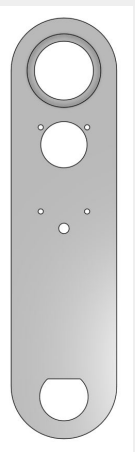
big\_gear\_wrist (50 teeth) x1



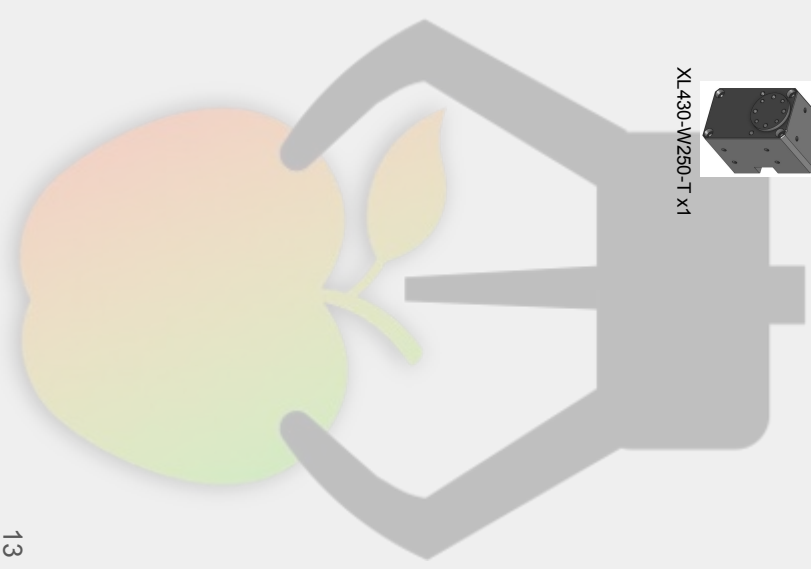
SKF 7202 x2



XL430-W250-T x1

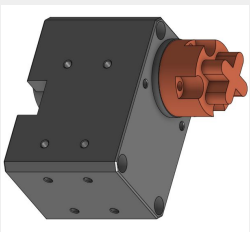


radius x2



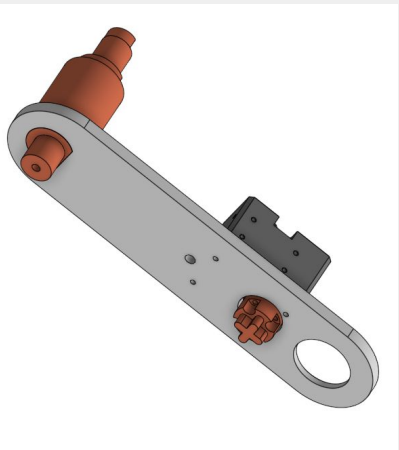
1

motor  
motor link  
Screws :  
- M2 (12) x4



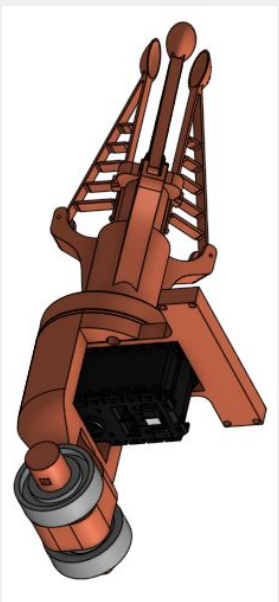
2

tree  
arm x1  
Screws :  
- M2 (12) x4



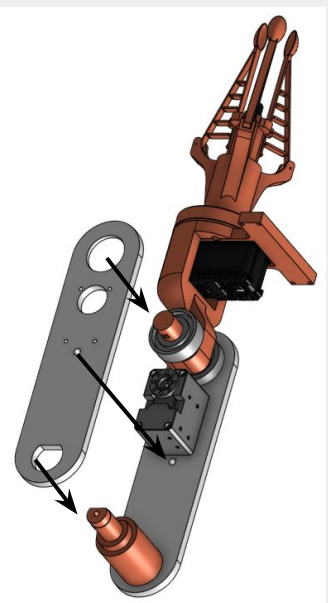
3

SKF 7202 x2



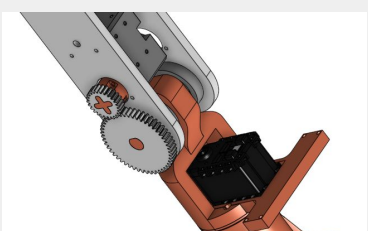
4

arm x1  
Screw :  
- M5 (60) x1

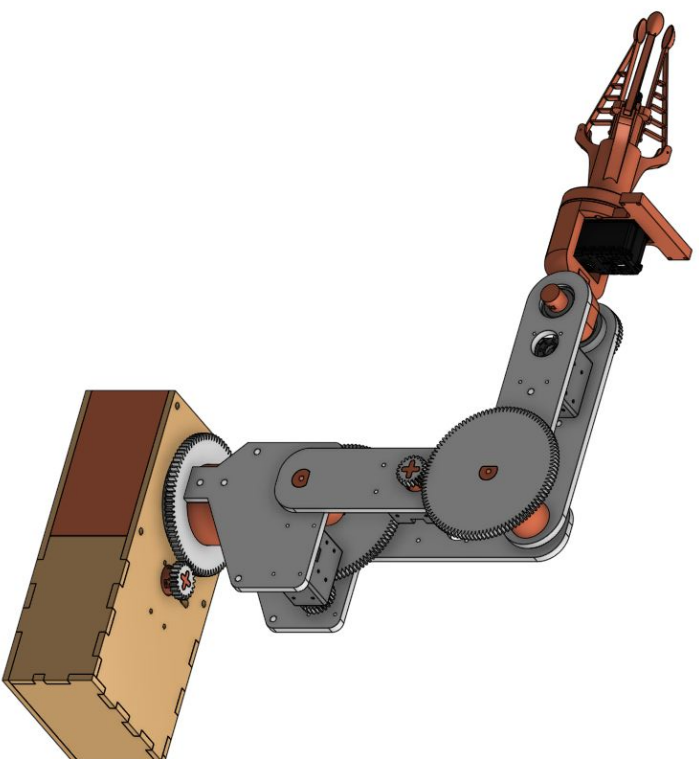


5

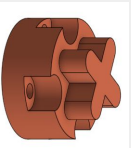
Small gear  
Big gear



# Step 5



# Parts



motor\_link\_xl x1



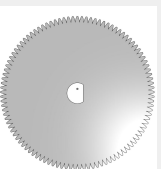
small\_gear\_elbow (21 teeth) x1



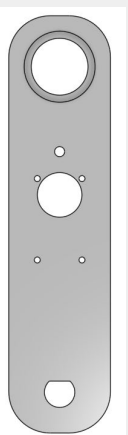
SKF 7202 x2



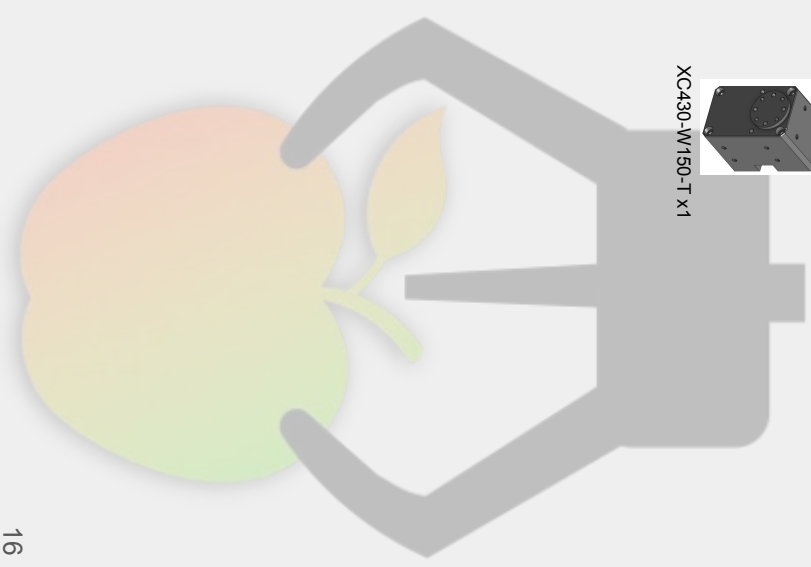
XC430-W150-T x1



big\_gear\_elbow (105 teeth) x1



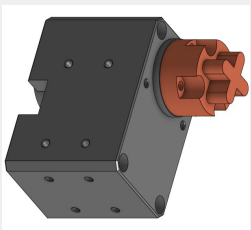
humerus x2





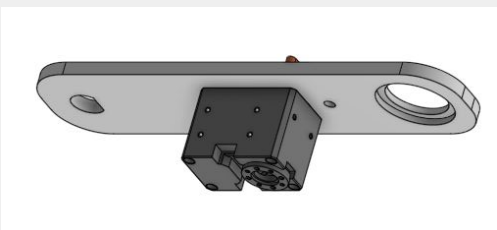
1

motor  
motor link  
Screws :  
- M2 (12) x4



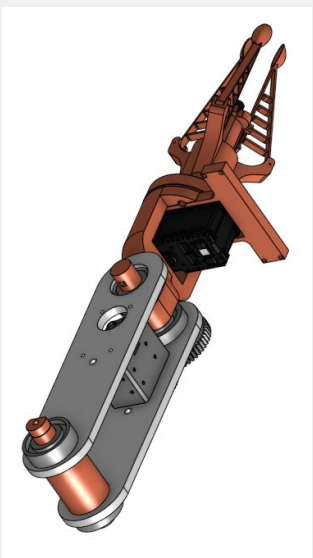
2

arm x1  
Screws :  
- M2 (12) x4



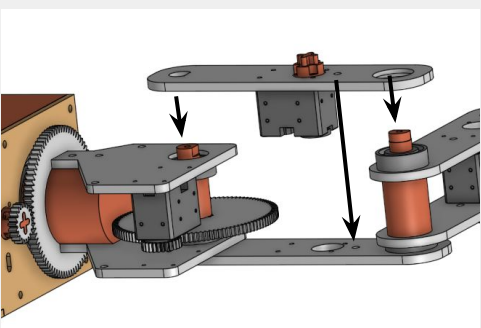
3

SKF 7202



4

arm x1  
Screws :  
- M5 (80) x1



5

small gear  
big gear

