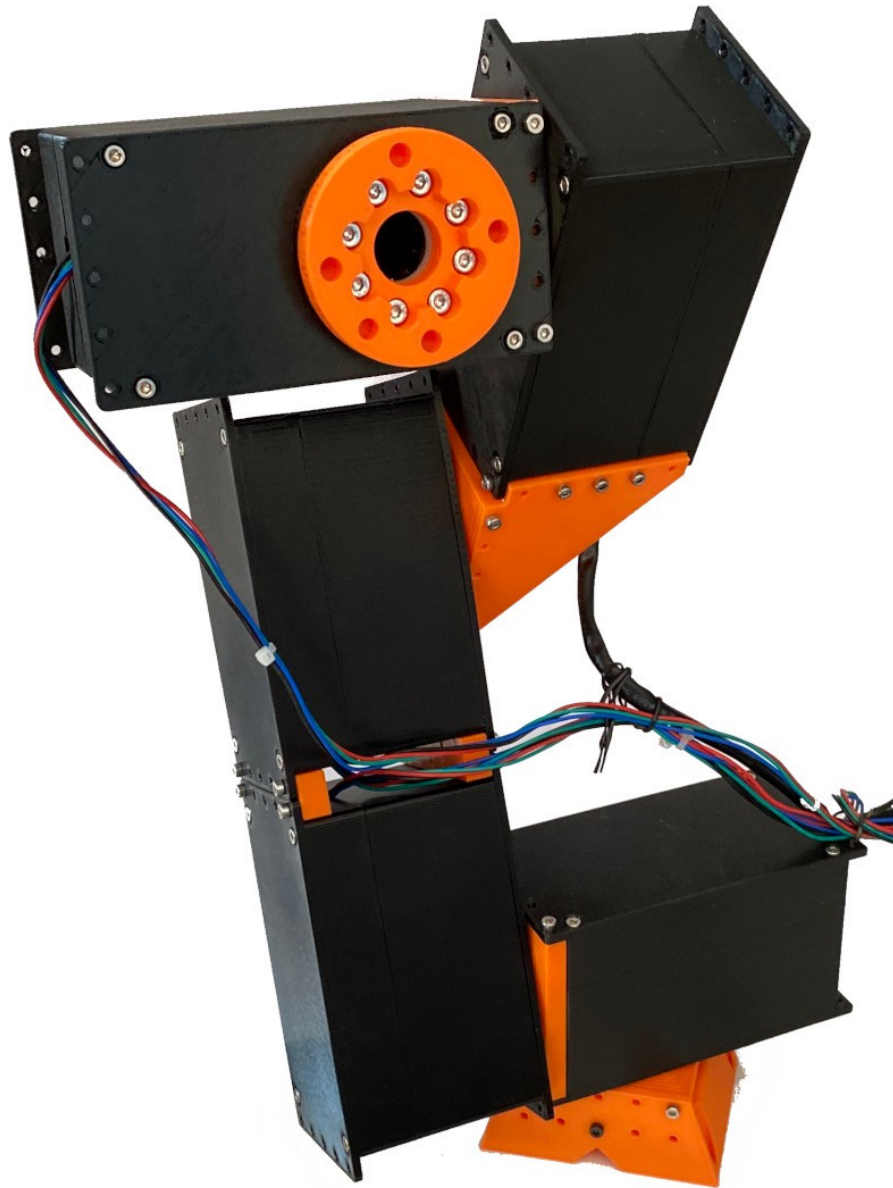


# Sixi

## *Robot Arm*



Version 3.0

Guide v1.0, February 6, 2022



**MARGINALLY CLEVER**  
**ROBOTS**

## What is it?

Sixi 3 is a robot arm designed for ease of use, maintenance, and versatility. The primary components are six identical *actuators* that can be interchangeably swapped, replaced, or combined in new and exciting ways.

## Where do I learn more?

Shop: <https://www.marginallyclever.com/products/sixi-3/>

Installation: <https://mcr.dozuki.com/>

Software: <https://github.com/marginallyclever/robot-overlord/releases>

Blog: <https://marginallyclever.com/>

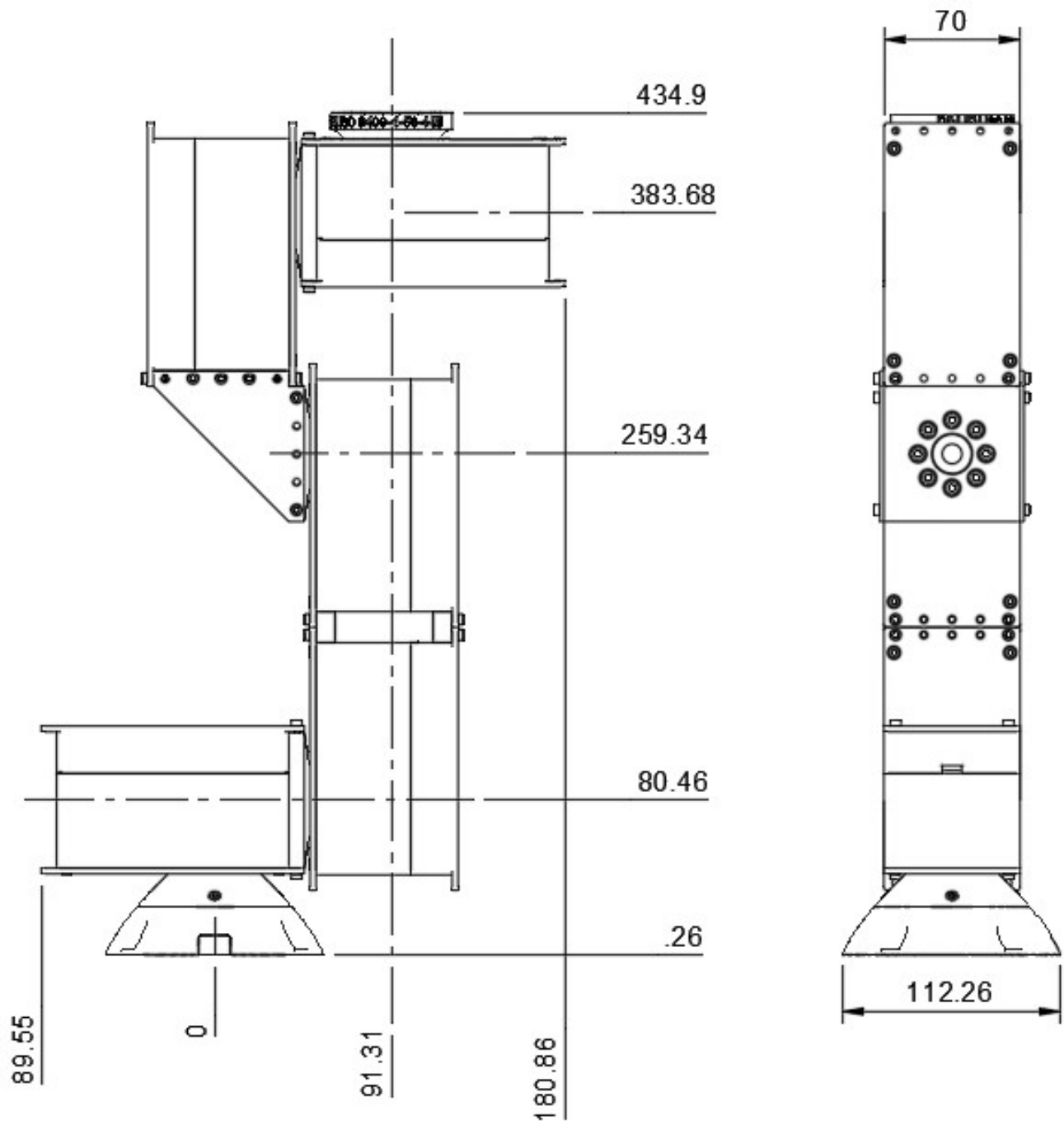
Forum: <https://discord.gg/QtvHqAv8yp>

## Specifications

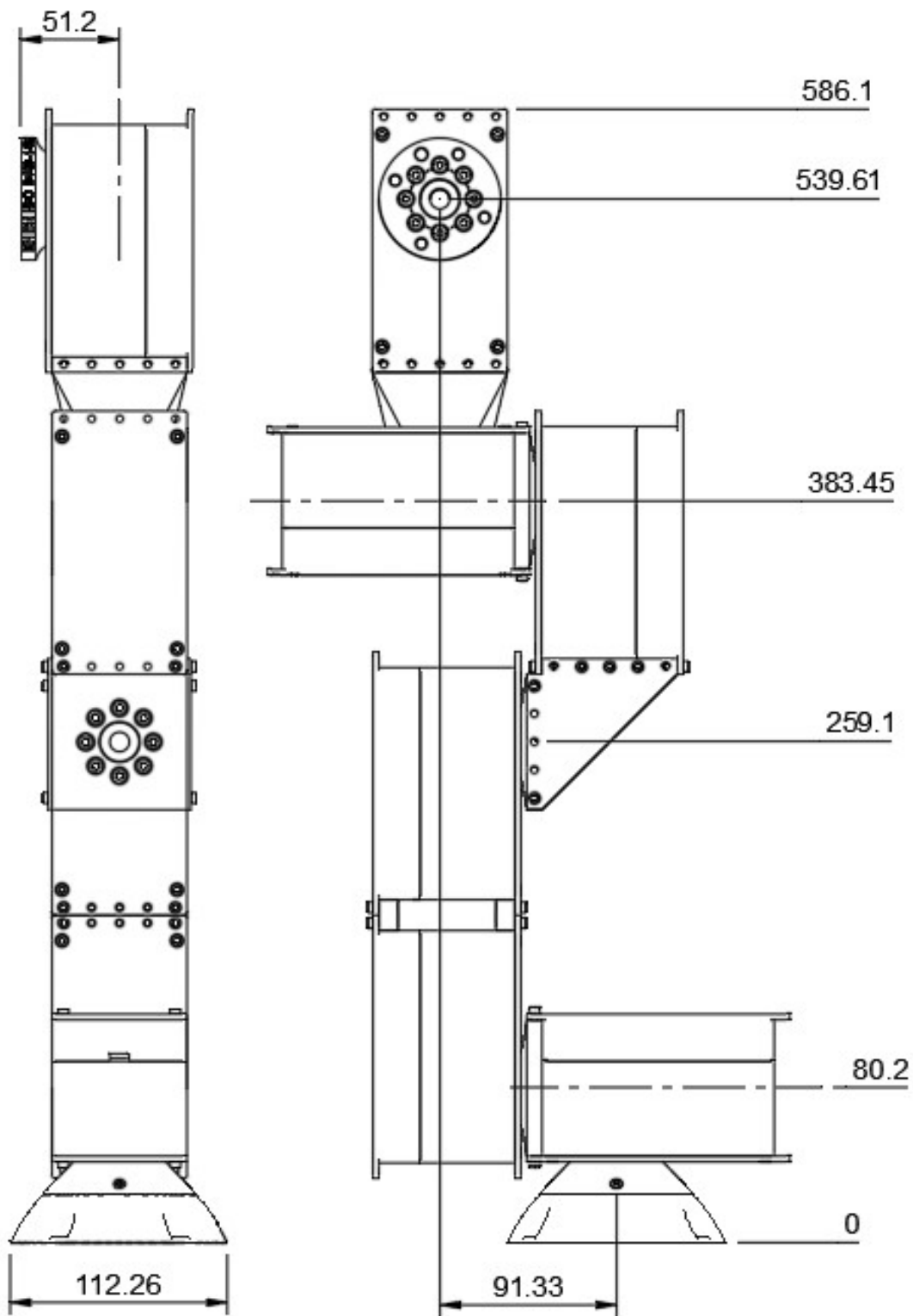
<b>Sixi 3</b>	<b>5 axis</b>	<b>6 axis</b>
Packaged dimensions	300 x 300 x 100	
Packaged weight	10	12
Installed weight	4.7	5.6
Reach	350	450
Payload	2	1.5
Max velocity	5 (degrees/s)	
Power supply	12v 6a, external	
Mounting	Table top	
Connectivity	USB mini	
Operating temperature	2022-05-30	
Ingress Protection Rating	IP40	
Range of motion J0	+/-170	
Range of motion J1	+/-90	
Range of motion J2	+/-135	
Range of motion J3	+/-170	
Range of motion J4	+/-180	+/-170
Range of motion J5	--	+/-180
Wrist connector type	DIN EN ISO 9409-1-50-4-M6	
Communication protocol	gcode	
Control loop	open	
Limit switches	no	

*\*default dimensions are mm, degrees, and kilograms.*

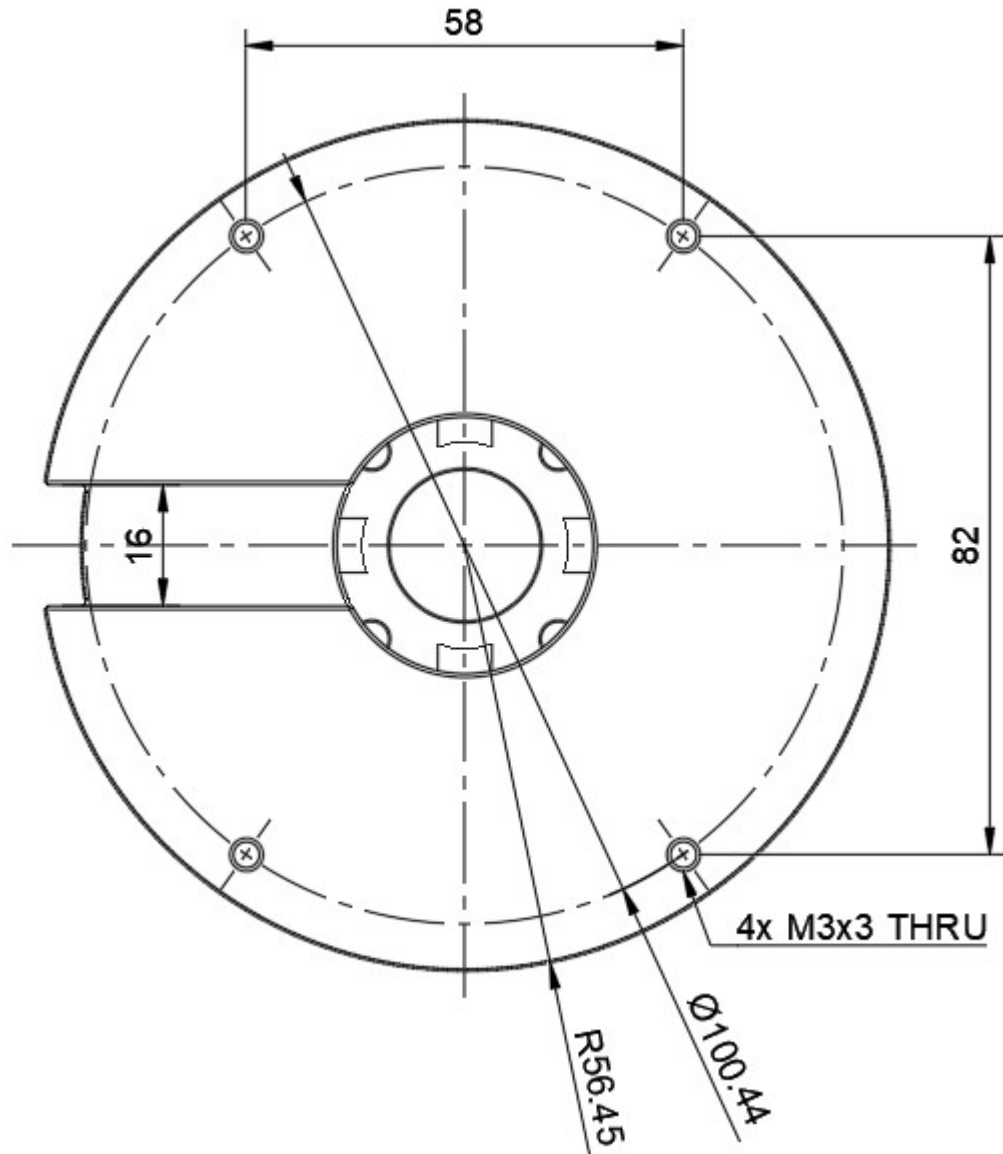
5 axis



**6 axis**



## Mounting to a table top



*Do not print this file as a template! It has been resized for readability and may be resized again by your printer.*

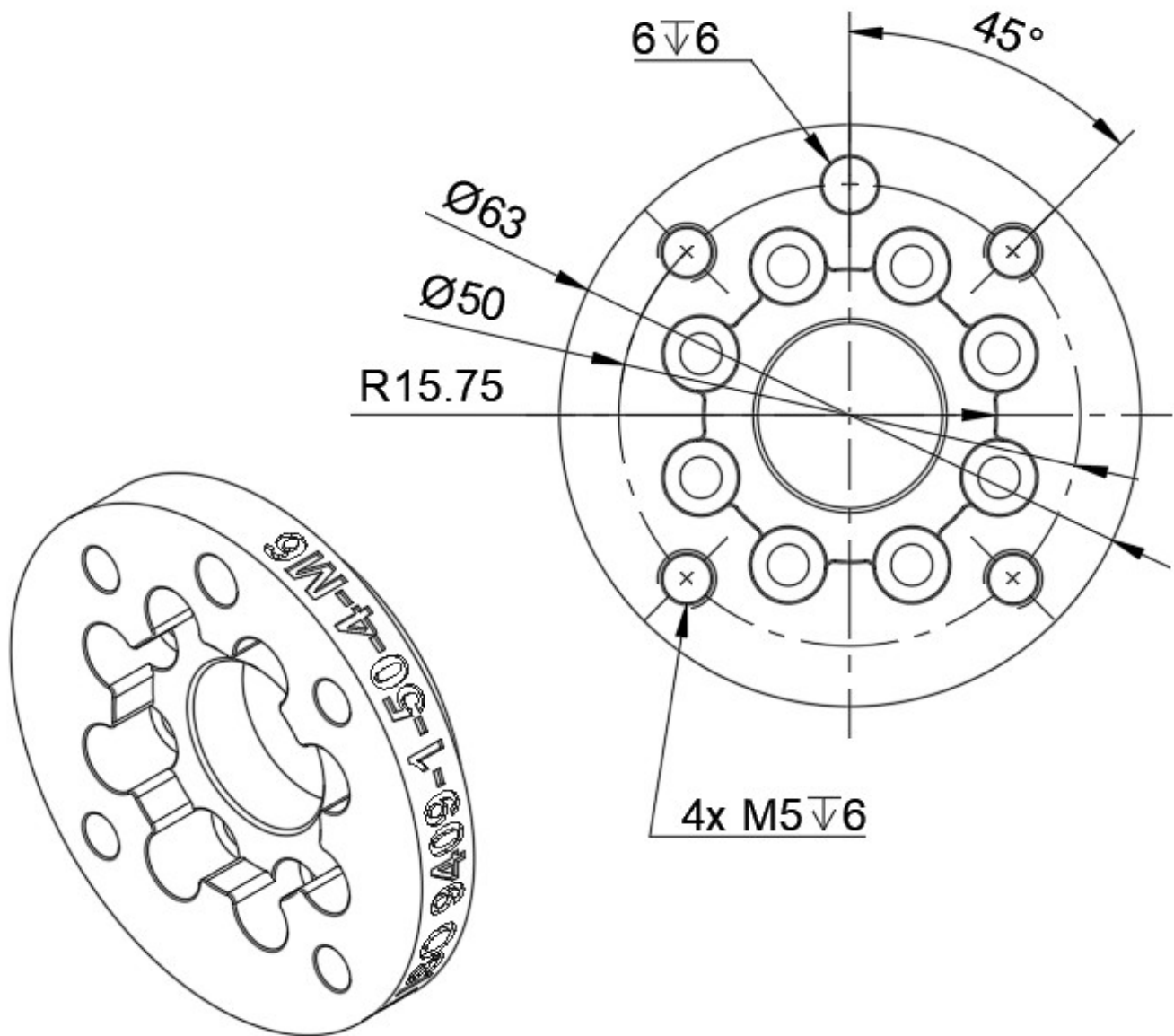
### Mounting Method

Mount with four (4) M3 socket head cap screws.

**Option A**, place the base on a table and mark the holes. Remove base and drill though. Add washers and nylock nuts to secure in place.

**Option B**, add washers and affix to two pieces of aluminum extrusion such as 15x15mm OpenBeam. Clamp extrusion to a table.

## Wrist mount hole pattern



Conforms to international standard DIN EN ISO 9409-1-50-4-M6.

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