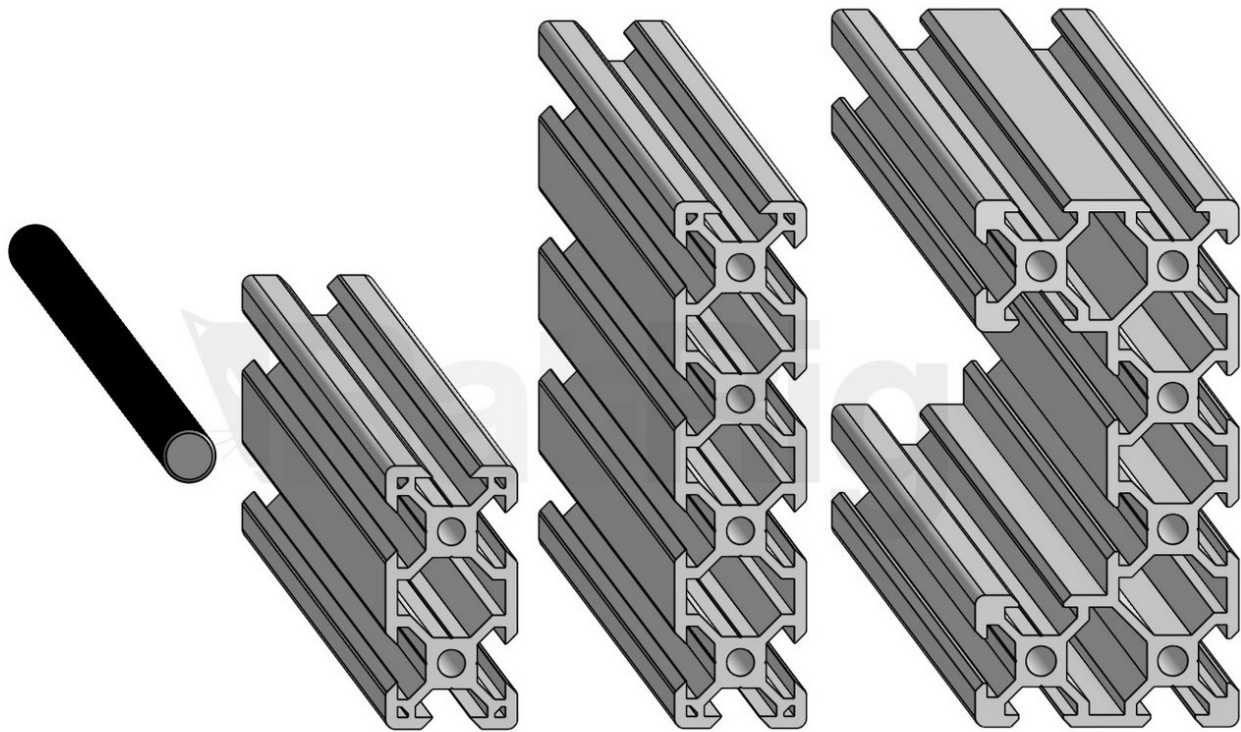


Rat Rig

00. Identify your Workbee Variant

Written By: Rat Rig



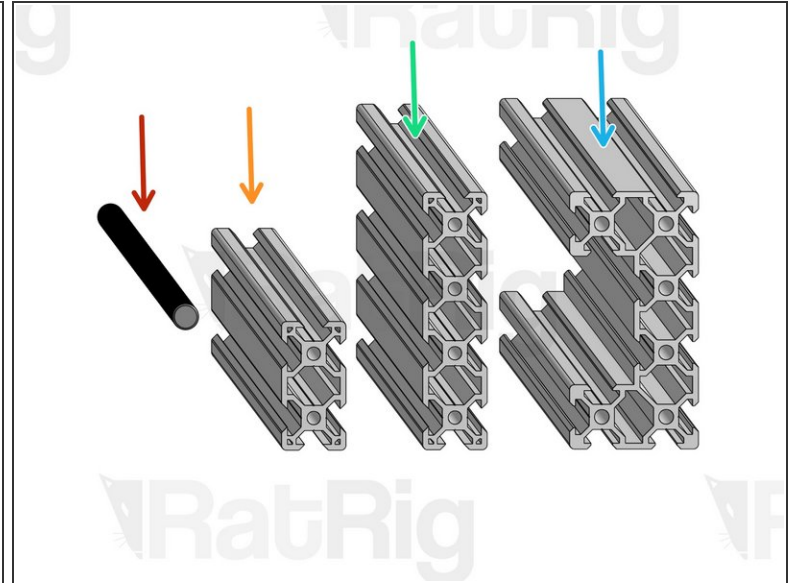
INTRODUCTION

[Bill of Materials](#)

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Step 1 — Organize your profiles and Lead Screws

Workbee Variant	Lengths (mm)											
	5050	Qty.	1050	Qty.	7575	Qty.	1010	Qty.	1510	Qty.	1515	Qty.
X-Gantry C-Beam	500	1	500	1	750	1	1000	1	1000	1	1500	1
X-Gantry 2040 (Tapped)	500	1	500	1	750	1	1000	1	1000	1	1500	1
Y C-Beam	500	2	1000	2	750	2	1000	2	1500	2	1500	2
X Base 2040	495	2	495	2	745	2	995	2	995	2	1495	2
Y Spoiler Support 2040	460	2	960	2	710	3	960	4	1460	4	1460	5
X Lead Screw	557	1	557	1	807	1	1057	1	1057	1	1557	1
Y Lead Screw	557	2	1057	2	807	2	1057	2	1557	2	1557	2



i Since there are multiple Workbee variants, this guide won't mention profile and lead screw lengths for the X and Y axis, as these vary. Instead, the guide will refer to each profile and lead screw by the names described on the table. You may want to label/group these parts right now to prevent assembly mistakes and make your job easier.

- Lead Screw
- 2040 Profile
- 2080 Profile
- C-Beam Profile

Step 2 — Machine Dimensions

Machine Size	Working Area (X x Ymm)	Spoilerboard Size (X x Ymm)	Footprint (X x Ymm)	Overall Machine Volume (X x Y x Zmm)
500 x 500mm Screw Drive	300 x 270mm	370 x 500mm	560 x 540mm	645 x 625 x 510mm
750 x 750mm Screw Drive	550 x 520mm	620 x 750mm	810 x 790mm	895 x 875 x 510mm
750 x 1000mm Screw Drive	550 x 770mm	620 x 1000mm	810 x 1040mm	895 x 1125 x 510mm
1000 x 1000mm Screw Drive	800 x 770mm	870 x 1000mm	1060 x 1040mm	1145 x 1125 x 510mm
1000 x 1500mm Screw Drive	800 x 1270mm	870 x 1500mm	1060 x 1540mm	1145 x 1625 x 510mm
1500 x 1500mm Screw Drive	1300 x 1270mm	1370 x 1500mm	1560 x 1540mm	1645 x 1625 x 510mm

i Use this table to understand what size table and what size Spoilerboard you will need for your specific machine variant.

- Maximum material thickness (for 12mm thick Spoilerboard): 94mm
- Maximum cutting depth (for 12mm thick Spoilerboard): 47mm
- Machine size is equal to the C-Beam extrusions lengths that make up the frame. Your variant is named according to these sizes.
- Working area is the maximum workable area.
- Spoilerboard size is the maximum size of the spoilerboard.
- Footprint is equal to the minimum table size that is required for the WorkBee to sit on.
- The WorkBee requires a physical volume which is greater than the footprint. This is the overall machine volume. This is equal to the minimum physical space which is needed.