



# MACRON DYNAMICS, INC.

## PRODUCT Datasheet

### SPECIFICATIONS

|                           |                                 |
|---------------------------|---------------------------------|
| Load Rating               | 0-288lbs                        |
| Ultimate Tensile Strength | 1150lbs                         |
| Temperature Range         | -20 C to +70 C (-4 F to +158 F) |
| Shipping Weight           | 0.75 lbs + 0.03lb/ft of belt    |
| Belt Pitch                | 5mm                             |

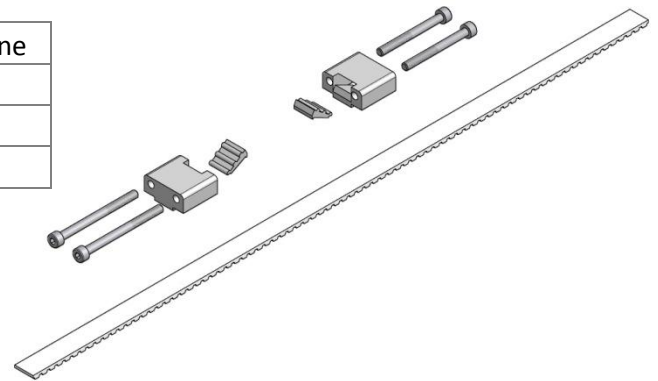
### Drive Belt Kit

### DBK-BD-\_\_

Insert length per meter.  
Ex. 5 meters = DBK-BD-05

### MATERIALS

|                              |                               |
|------------------------------|-------------------------------|
| Belt                         | Steel Reinforced Polyurethane |
| Belt Wedge and Tension Block | Zinc Aluminum Alloy           |
| Screws                       | Steel                         |
| Lock Nut                     | Steel                         |

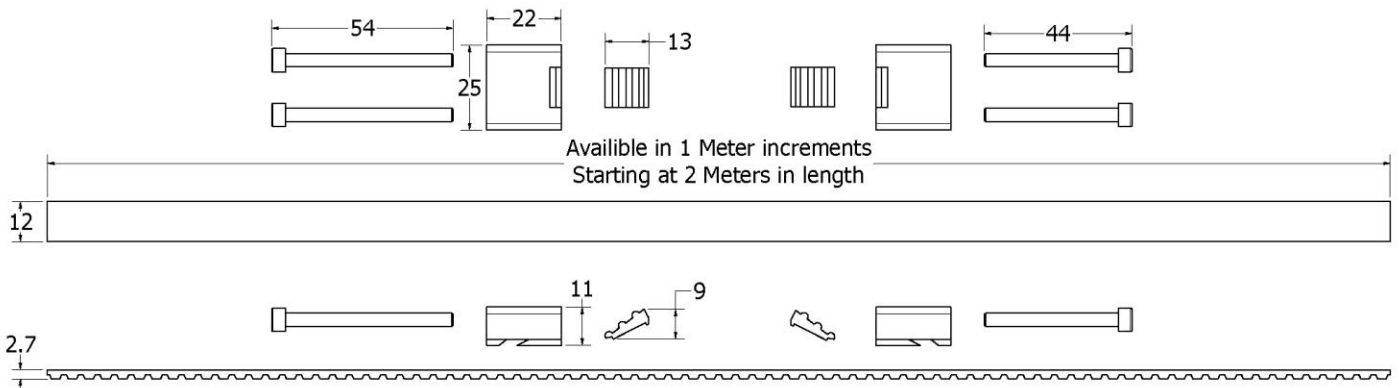


### PARTS BREAKDOWN

| Description              | Qty/Kit |
|--------------------------|---------|
| Drive Belt               | 1       |
| Tension Block            | 2       |
| Belt Wedge               | 2       |
| M4 Socket Head Cap Screw | 4       |

$$\text{BELT LENGTH} = (\text{BEAM LENGTH} \times 2) + .15\text{m}$$

### DIMENSIONS





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## Belt Installation Instructions

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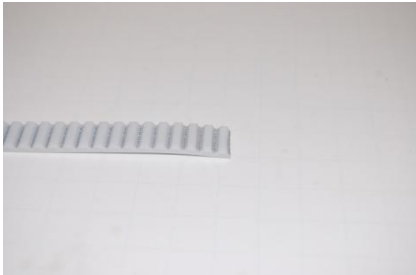
The tools you will need include a torque wrench (lb. in.), tensioning tool, tin snips, M3 allen wrench, and a flathead screwdriver.



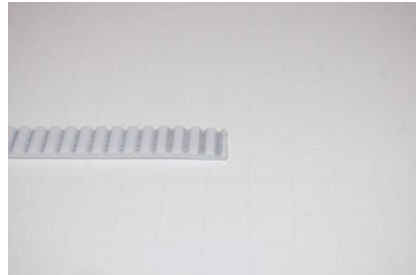
Insert the belt into the slot closest to the bottom.



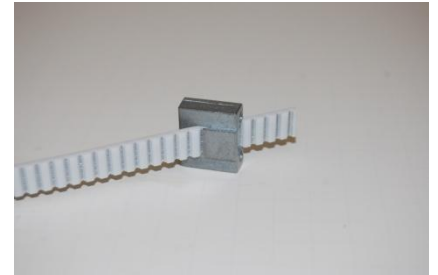
Push the belt in till it comes out the top. A screwdriver might be helpful to help along the pulley



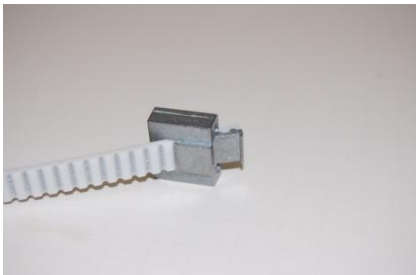
Using a *sharp* pair of tin snips, cut belt to length. Last tooth needs to be cut in half.



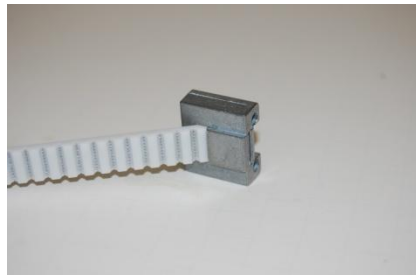
It needs to be cut down the middle so that it has enough to catch the wedge.



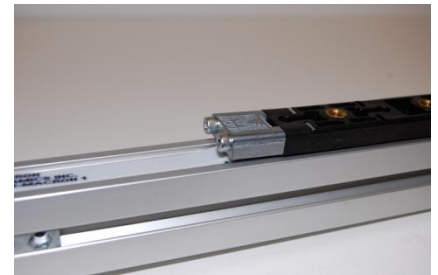
Slide the belt through both of the tension blocks so that the "M" is facing up.



Place both wedges at the end of the belt so that the half-tooth is flush with the end of the wedge.



Pull the belt to tighten the wedge and the belt within the tension block.



Attach the tension block to the cart using the shorter set of bolts on the drive side. The longer bolts will be used for the variable side.

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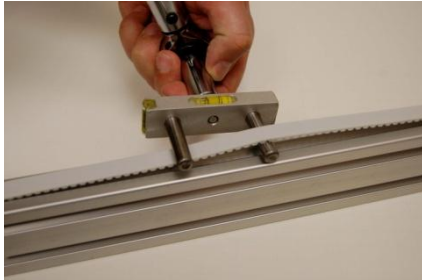
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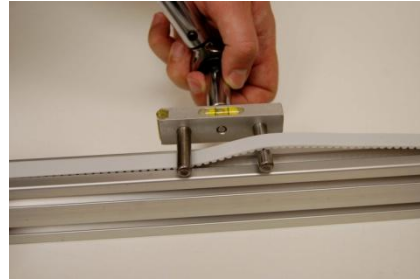


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Datasheet



Move the cart to the end of the actuator. Then place the tensioning tool at the middle of the belt.



Set the wrench to the correct torque setting, adjust belt to achieve level position at the recommended torque.