



V-Wheel Assembly:
The V-Wheels and Makerslide work together to hold components of the machine in alignment and allow them to move only along an axis. When assembling the wheels, a precision washer (1mm thick) goes between the bearings. The precision washers are specced to be 1mm thick and provide a surface for the races to contact, keeping everything tight.

- Instructions:
- Insert a bearing into one side. These are force fit tolerances so you might have to push hard.
 - Press the bearing until it's seated against the inside lip of the V-Wheel.
 - Slide an M5 bolt through the bearing (outside in) — you'll use this to align the precision washer and the other bearing.
 - Slide the precision washer over the bolt and let it slide all the way down until it is touching the bearing you just inserted
 - Slide the other bearing over the bolt and let it slide down until it hits the rim of the V-Wheel.
 - Press the second bearing into the V-wheel just as you did the first
 - When the assembly is complete, you can remove the M5 bolt

Note: do not forget the precision washer!

ITEM	QTY	PART NUMBER	TITLE
1	1	MSK01-05	V Wheel
2	2	MSK01-07	5mm x 16mm x 5mm bearing
3	1	MSK01-08	Precision Washer (1mm thick)



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TOLERANCES
(EXCEPT AS NOTED)
BETWEEN
FINISHED SURFACES

FRACTIONAL: ± 1/64"
DECIMAL: ± .010"
DETAIL DIMENSIONS: ± 1/16"

shapeoko

DESIGNED BY: ERF	DETAILED BY: ERF	DATE: 6/5/2012
TITLE v-wheel assembly		
SIZE B	DRAWING NUMBER MSK01-05A	
SCALE		SHEET 1 OF 1