Smooth Idler Assembly:
The Idler Wheels align the belts so that they can grip the pulleys. 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.
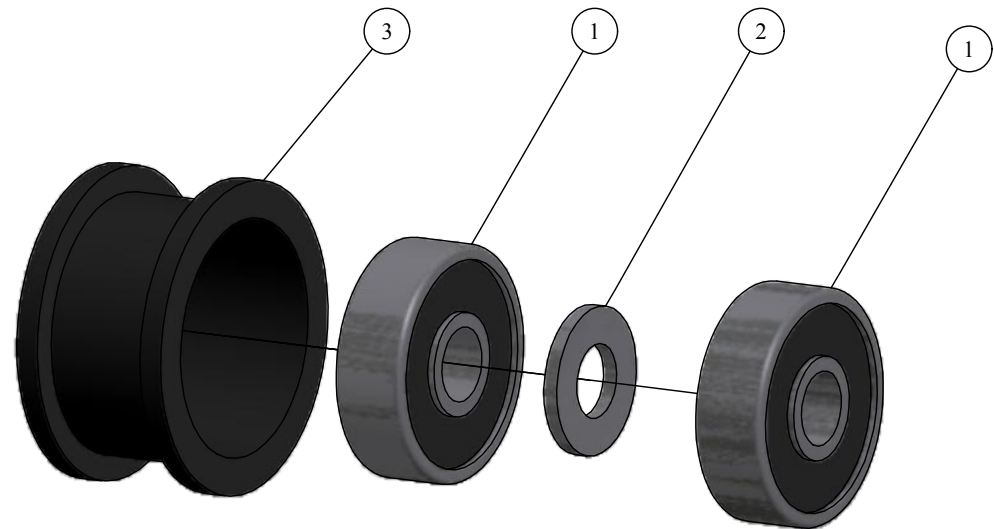
Instructions:
• Insert a bearing into the open side side. These are force fit tolerances so you might have to push hard.
• Press the bearing until it's seated against the inside lip of the idler drum.
• Slide an M5 bolt through the bearing (outside in) — you'll use this to align the precision washer 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 drum.
• Press the second bearing into the drum just as you did the first until it is tight against the precision washer
• When the assembly is complete, you can remove the M5 bolt

Note: do not forget the precision washer!

ITEM	QTY	PART NUMBER	TITLE
1	2	MSK01-07	5mm x 16mm x 5mm bearing
2	1	MSK01-08	Precision Washer (1mm thick)
3	1	MSK01-06	Smooth Idler Drum

open hardware

shapeoko

TOLERANCES
(EXCEPT AS NOTED)
BETWEEN
FINSHED SURFACES
FRACTIONAL: ± 1/64"
DECIMAL: ±.010"
DETAIL DIMENSIONS: ± 1/16"

DESIGNED BY: ERF
DETAILED BY: ERF
DATE: 6/5/2012

TITLE
Smooth Idler Assembly

SIZE B

DRAWING NUMBER
MSK01-06A

SCALE

SHEET 1 OF 1