

SCALE 0.600

MECE E3430  
Engineering Design

TITLE

David Wrist Rehabilitation Exoskeleton  
(DWREX)

SIZE

**A**

MATERIAL

Multiple

DWG NO

**###-##**

REV

**0**

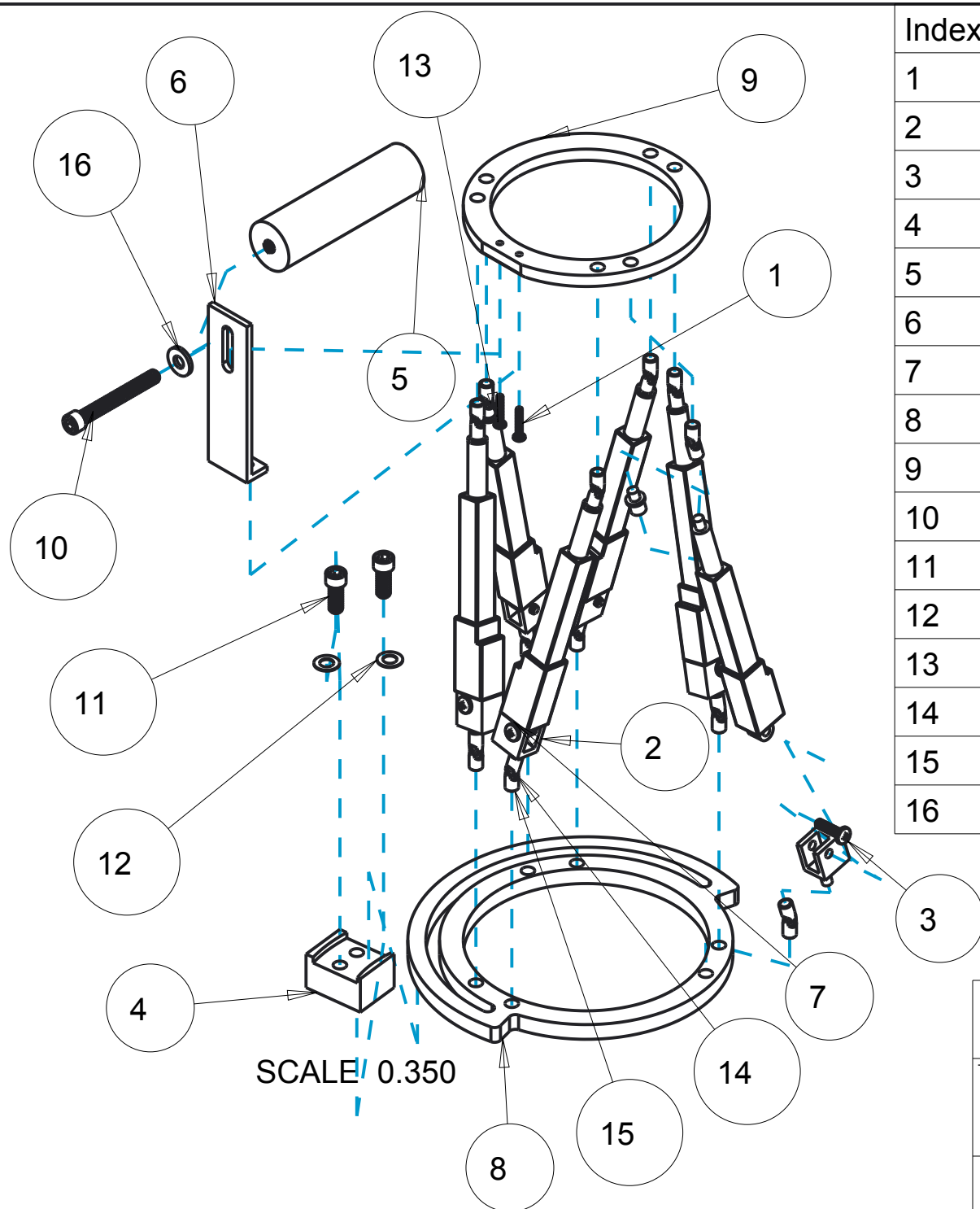
Group ILT

03/02/14

SCALE: 6/10

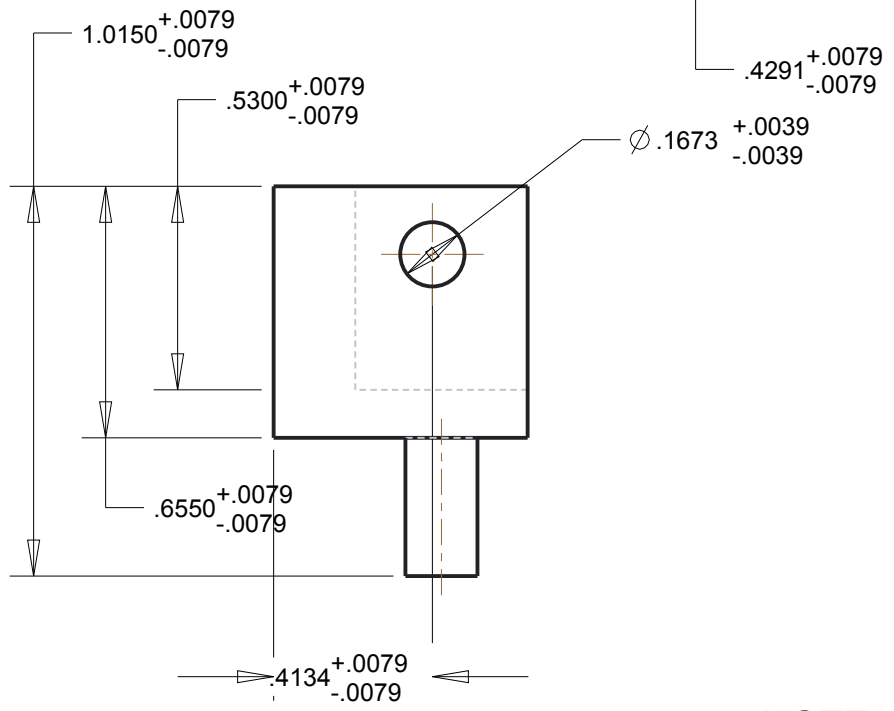
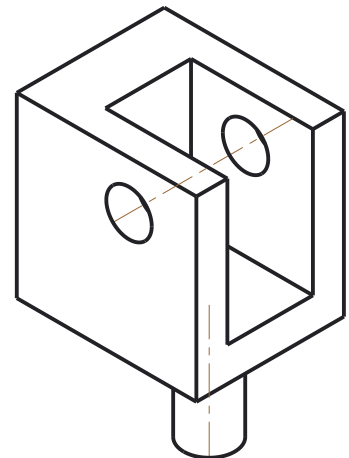
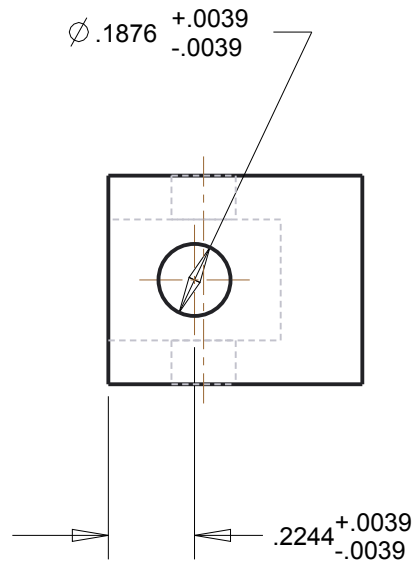
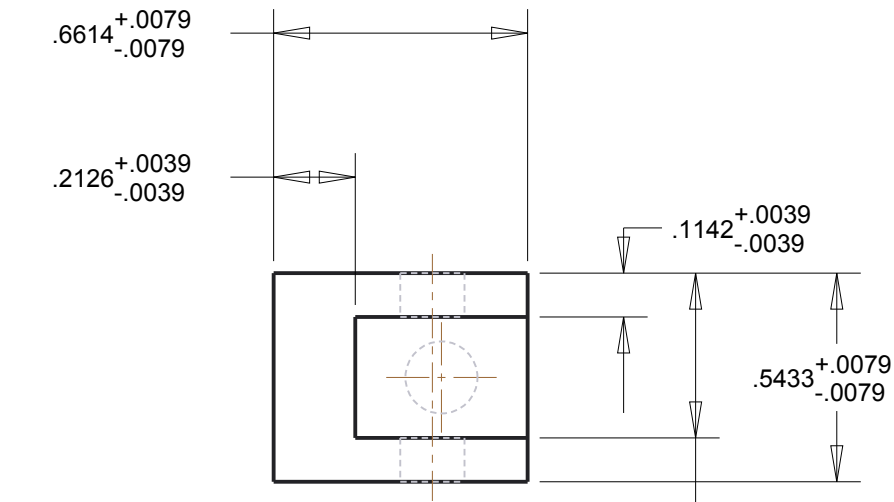
INCHES

SHEET 1 OF #



Index	Part Name	Qty
1	4_40_PHILIP_SCREW	2
2	3D_PRINT_BRACKET	6
3	ACTUATOR_BRACKET_SCREW	6
4	CONNECT_SP_ELBOW_JOINT_02271	
5	HAND_BAR_0227	1
6	HAND_GRIB_FRAME	1
7	MODIFIED_LINEAR_ACTUATOR	6
8	NEW_LOWER_RING	1
9	NEW_UPPER_RING	1
10	SCREW_HAND_GRIP	1
11	SP_BRACE_SCREW	2
12	SP_BRACE_WASHERS	2
13	TOPEND	6
14	UJOINTBALL	12
15	UJOINTEND1	24
16	WASHER_HAND_GRIP	1

MECE E3430 Engineering Design			
TITLE <b>Exploded View Bill of Materials</b>			
SIZE <b>A</b>	MATERIAL Multiple	DWG NO <b>###-##</b>	REV <b>0</b>
Group ILT	03/02/14	SCALE: 3.5/10	INCHES SHEET 2 OF #



NOTE: 3D PRINTED

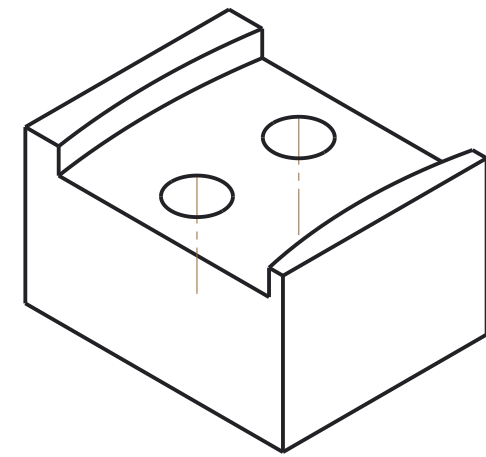
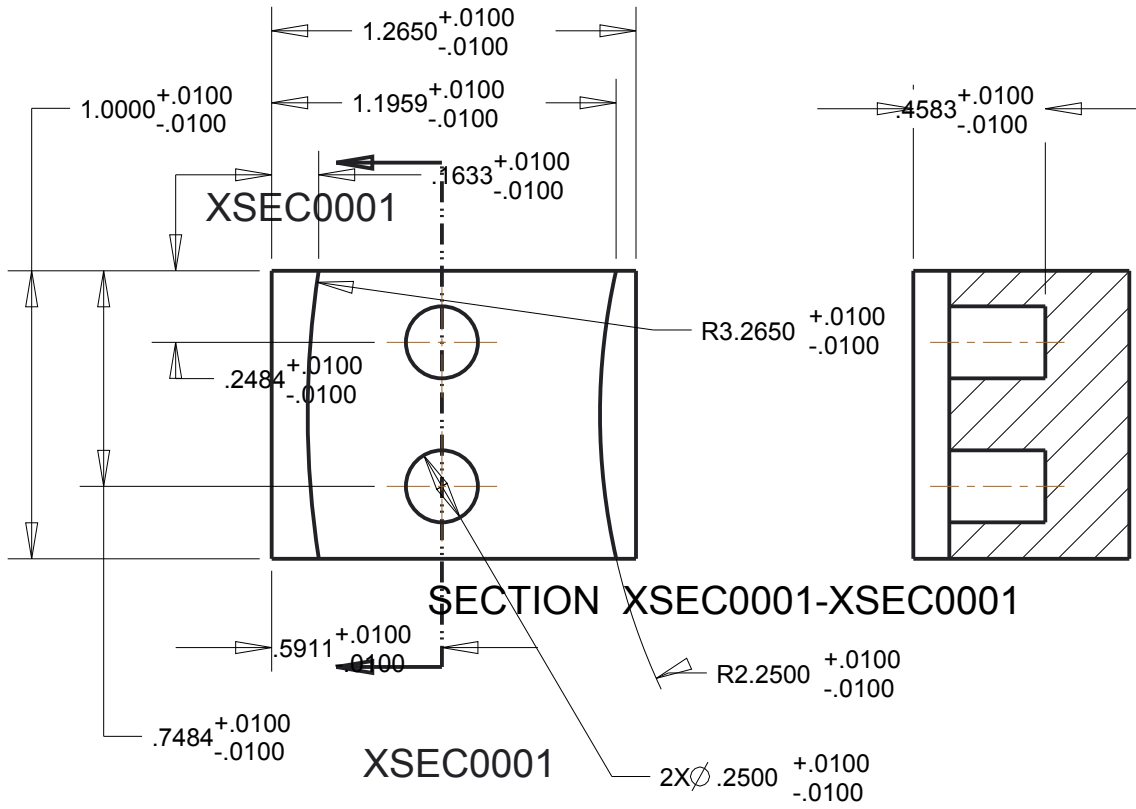
IDX NO:1	Mousing Bracket	QTY:6	DWG NO
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PARTS LIST

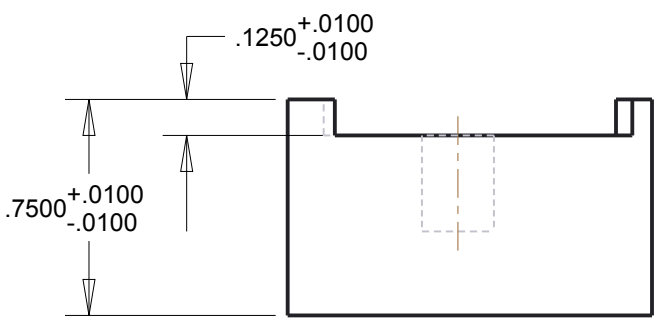
MECE E3430  
Engineering Design

TITLE  
**DWREX**

SIZE <b>A</b>	MATERIAL ABS	DWG NO <b>###-##</b>	REV <b>0</b>
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SCALE 1.500



NOTE: MACHINED CNC MILLING

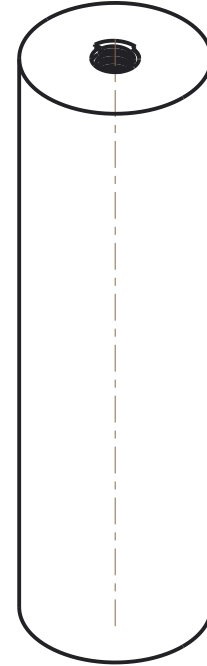
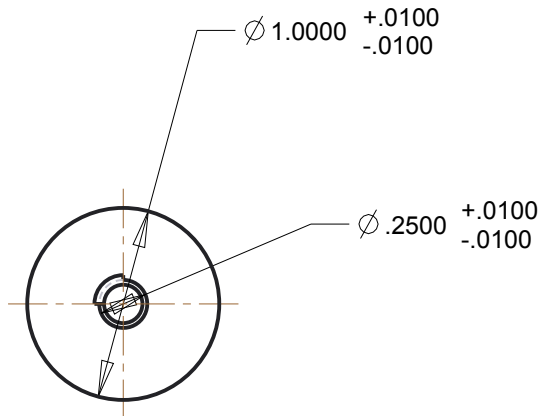
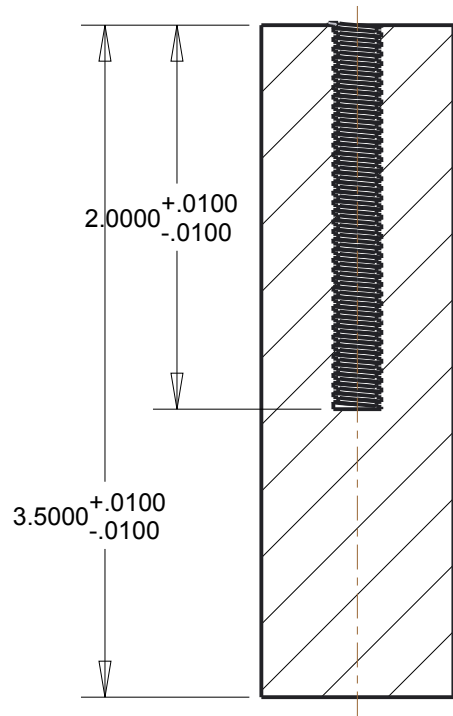
IDX NO:2	SP-Elbow Brace Connection	QTY:1	DWG NO
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PARTS LIST

MECE E340  
Engineering Design

TITLE  
**DWREX**

SIZE <b>A</b>	MATERIAL AA 6061	DWG NO <b>###-##</b>	REV <b>0</b>
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NOTE: MACHINED USING LATHE; THREAD TAPPED.  
 THREAD SIZE: 1/4"-20

IDX NO:3	Hand Bar	QTY:1	DWG NO
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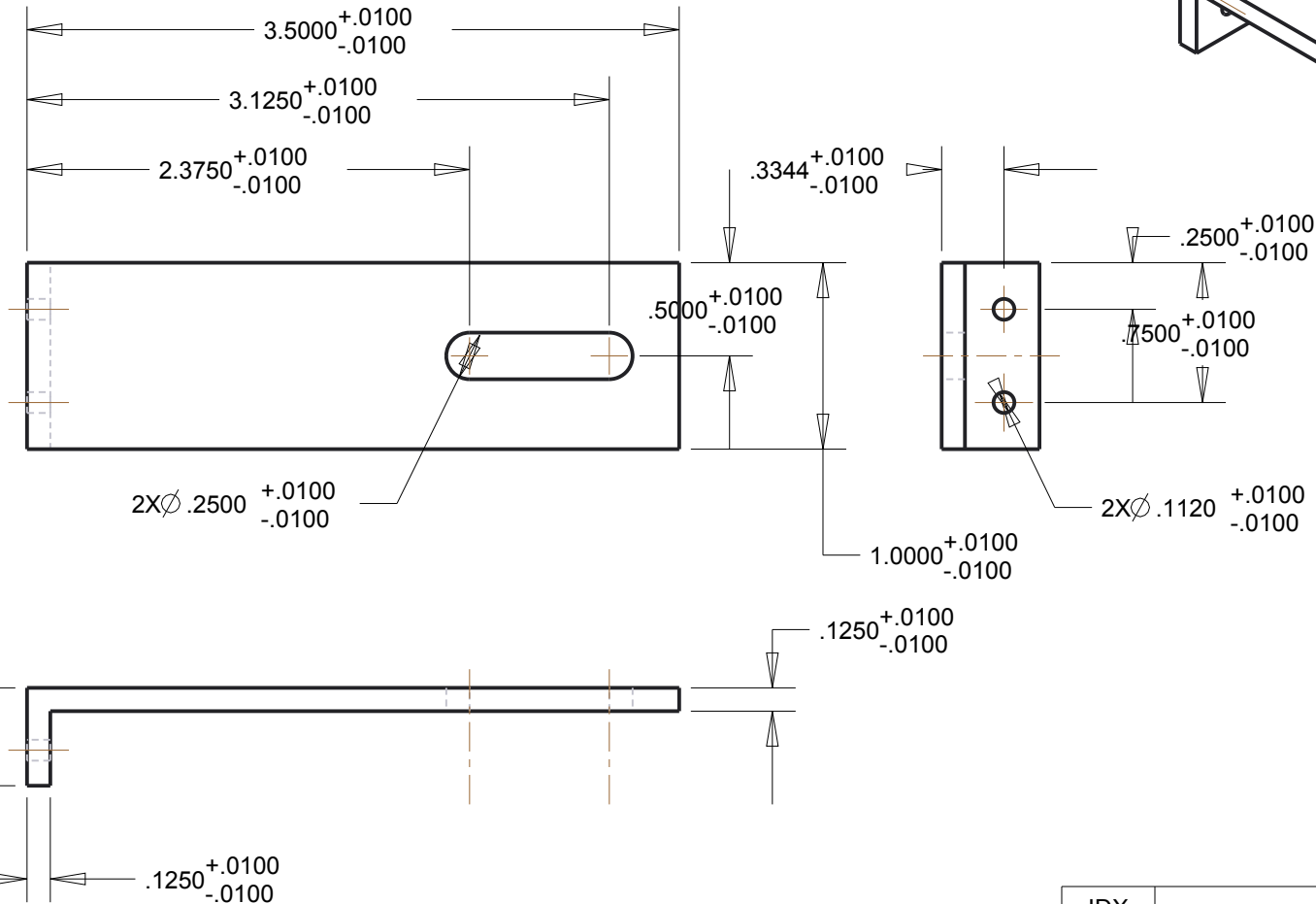
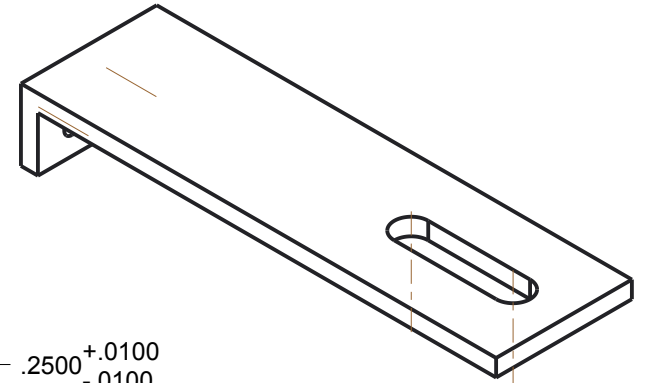
PARTS LIST

MECE E3430  
 Engineering Design

TITLE

# DWREX

SIZE <b>A</b>	MATERIAL AA 6061	DWG NO <b>###-##</b>	REV <b>0</b>
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NOTE: MACHINED USING CNC MILLING

IDX NO:4	Hand Grip Frame	QTY:1	DWG NO
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PARTS LIST

MECE E3430 □  
Engineering Design

TITLE

DWREX

SIZE <b>A</b>	MATERIAL AA 6061	DWG NO <b>###-##</b>	REV <b>0</b>
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Ø 6.5300 +.0100  
-.0100

Ø 5.6200 +.0100  
-.0100

Ø 4.8700 +.0100  
-.0100

Ø 4.5000 +.0100  
-.0100

5.10° +.50°  
-.50°

15.00° +.50°  
-.50°

48.94° +.50°  
-.50°

70.94° +.50°  
-.50°

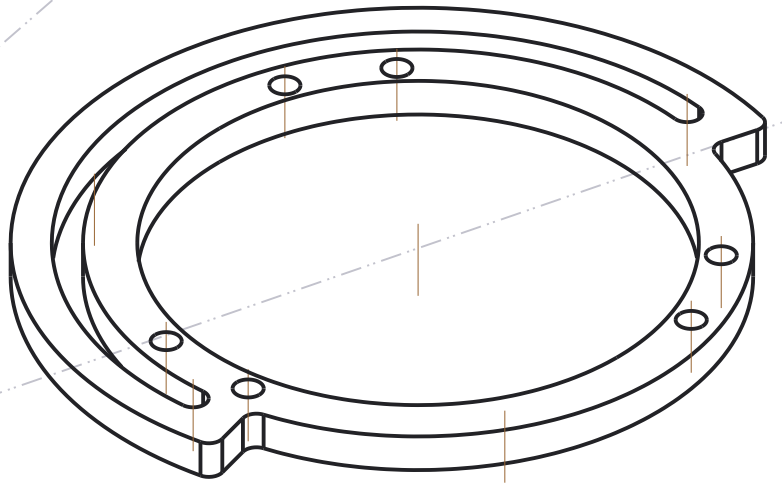
6X Ø .2500 +.0100  
-.0100

4X Ø .2500 +.0100  
-.0100

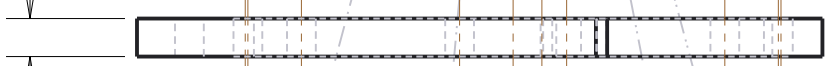
2XR.1250 +.0100  
-.0100

.3300 +.0100  
-.0100

SCALE 0.600



SCALE 0.650



NOTE: MACHINE USING CNC MILLING

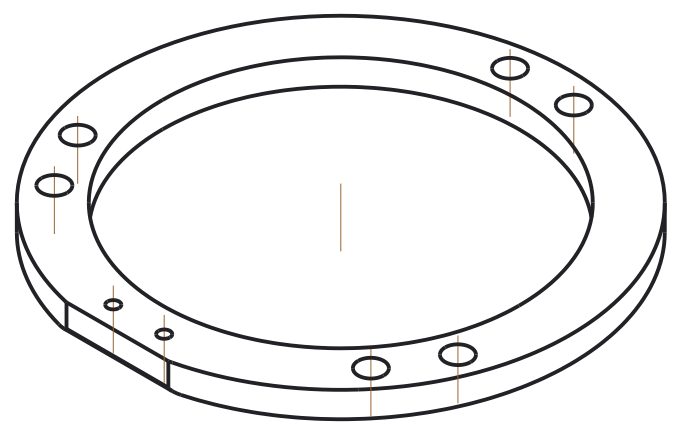
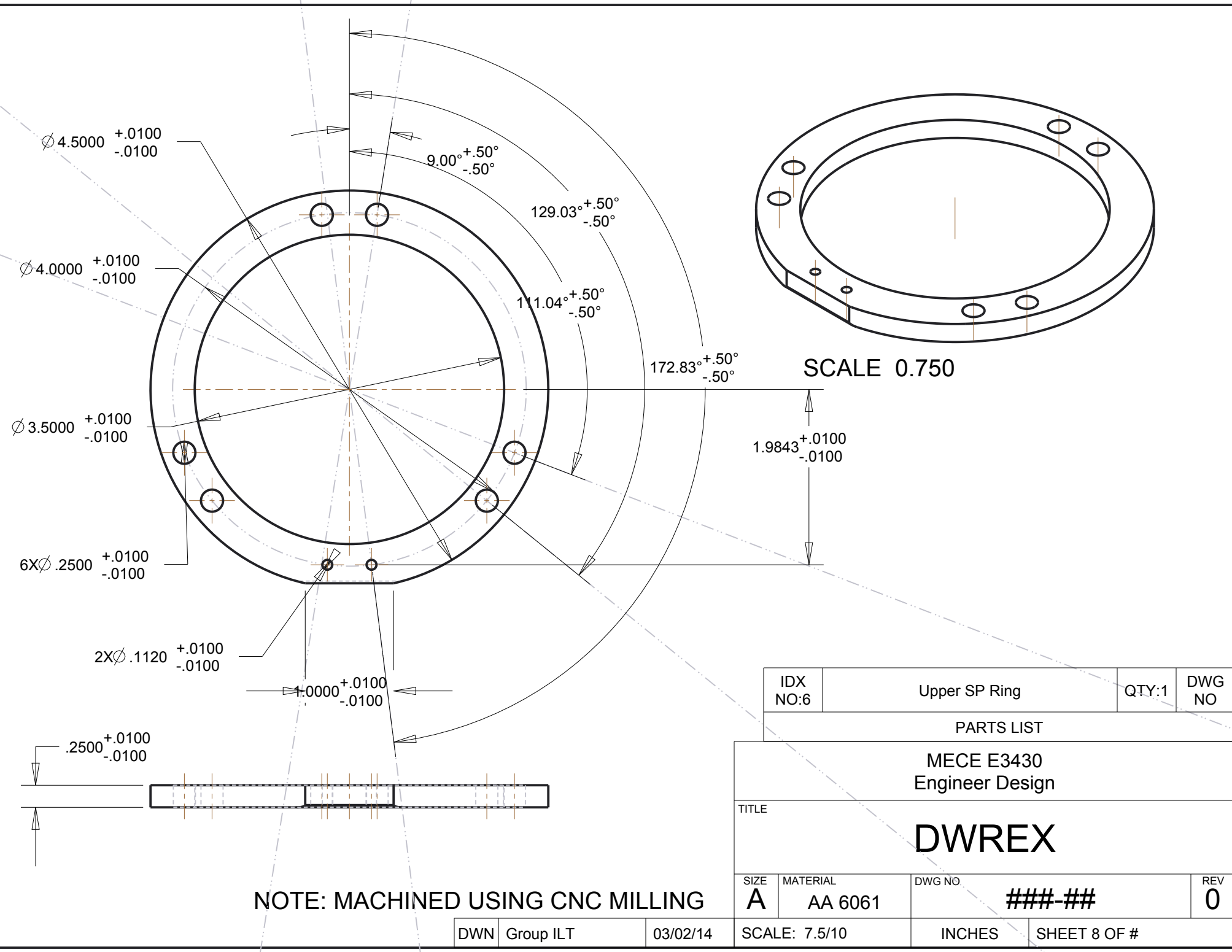
IDX NO:5	SP Lower Ring	QTY: 1	DWG NO
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PARTS LIST

MECE E3430  
Engineer Design

TITLE  
**DWREX**

SIZE <b>A</b>	MATERIAL AA 6061	DWG NO <b>###-##</b>	REV <b>0</b>
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SCALE 0.750

IDX NO:6	Upper SP Ring	QTY:1	DWG NO
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PARTS LIST

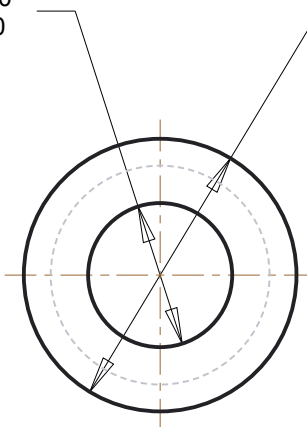
MECE E3430  
Engineer Design

TITLE  
**DWREX**

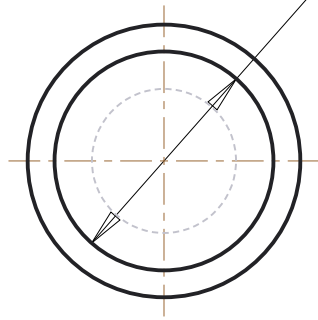
SIZE <b>A</b>	MATERIAL AA 6061	DWG NO <b>###-##</b>	REV <b>0</b>
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NOTE: MACHINED USING CNC MILLING

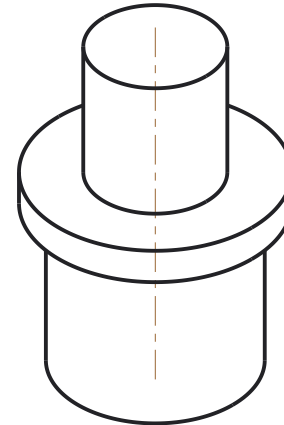
$\varnothing .1876 \begin{matrix} +.0100 \\ -.0100 \end{matrix}$



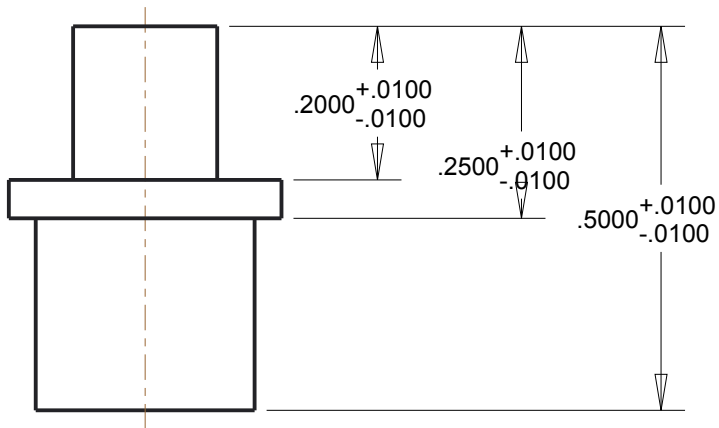
$\varnothing .3550 \begin{matrix} +.0100 \\ -.0100 \end{matrix}$



$\varnothing .2850 \begin{matrix} +.0100 \\ -.0100 \end{matrix}$



SCALE 4.000



NOTE: 3D PRINTED

IDX NO:7	Top End	QTY:6	DWG NO
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PARTS LIST

MECE E3430  
Engineer Design

TITLE

DWREX

SIZE <b>A</b>	MATERIAL ABS	DWG NO <b>###-##</b>	REV <b>0</b>
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DWN	Group ILT	03/02/14	SCALE: 40/10	INCHES	SHEET 9 OF #
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