



Part Number	ITEM #	DESCRIPTION	QTY.
5947k12	1	0.375 Chrome Steel Shaft	2
91290A101	2	M2.5-.45 x 6mm Blk Ox Alloy SHCS	6
91290A154	3	M4-.7 x 16mm Blk Ox Alloy	12
91585A540	4	5 x 15mm Dowel Pin SS	1
MH02152	5	Rotor Housing Upper	1
MH02153	6	Rotor housing Lower	1
VN02146	7	QTR160-34-N Motor Rotor	1
VN02151	8	175MM Encoder Rotor	1
VN02153	9	0.25x0.25x4.2 X Bearing	1

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM  
NO DECIMAL: ± .5  
ONE PLACE DECIMAL: ± .2  
TWO PLACE DECIMAL: ± .1  
ANGULAR: MACH ±0.3° BEND ±1°  
BREAK SHARP EDGES 0.2-0.5

PROPRIETARY AND CONFIDENTIAL:  
THE DATA HERIN INCLUDE CARNEGIE MELLON  
UNIVERSITY PROPRIETARY DATA. REPRODUCTION  
AND DISTRIBUTION ARE RESTRICTED.

ADHERE PART TO CAD GEOMETRY TO WITHIN:  
0.3 A B C

NEXT ASSY  
AS02150

PROJECTION  
THIRD ANGLE

GEOMETRIC TOLERANCING  
PER: ASME Y14.5-2018

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INITIALS

DATE

SIZE  
B

DWG. NO.  
AS02152

REV  
PR3

DO NOT SCALE DRAWING

APPROVED BY

SCALE: 1:3

WEIGHT:

SHEET 1 OF 1

Carnegie Mellon University  
The Robotics Institute

TITLE:  
Rotor Assembly