

NOTES:
1. DIMS IN INCHES
2. QTY: 1

TITLE:
BALL MANIPULATOR TOTAL ASSEMBLY

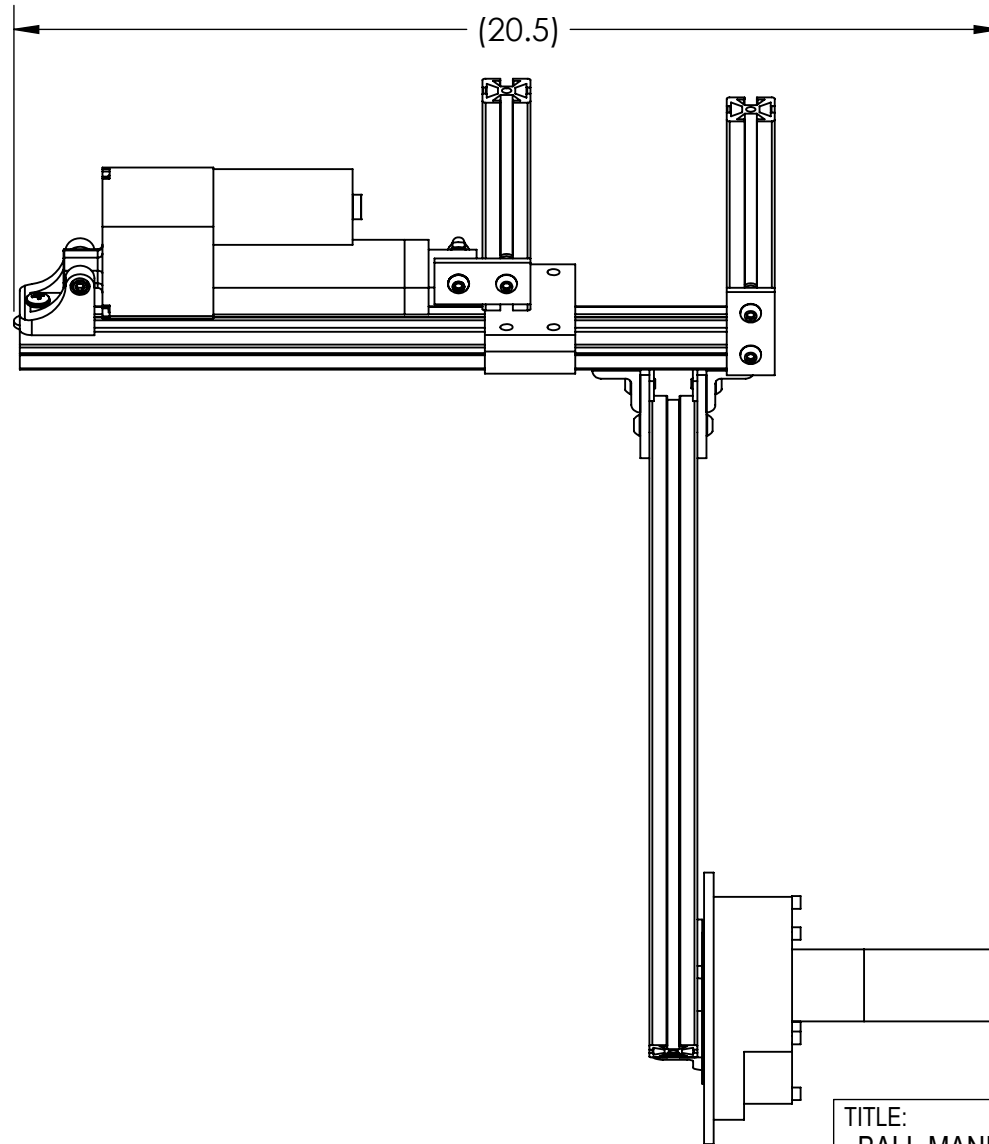
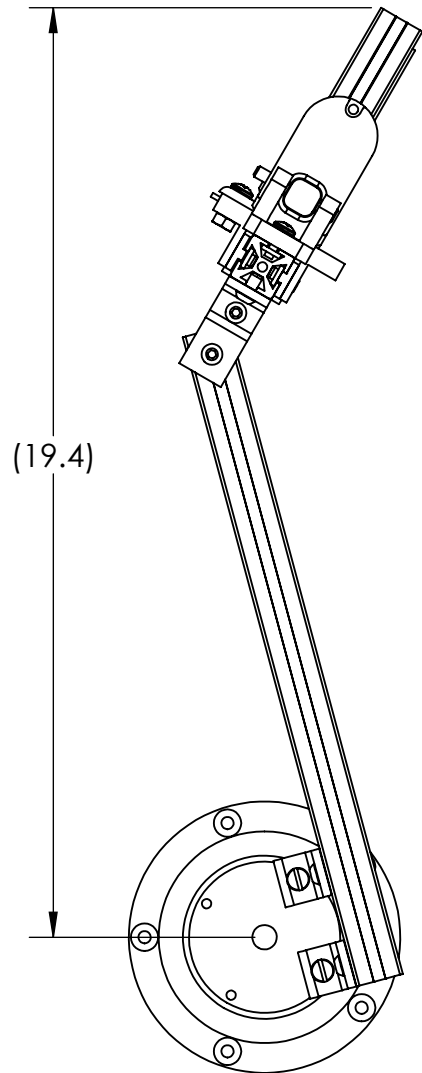
DRAWN MARK YEN

DESIGNED MARK YEN

DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-009	F

SCALE: 4:11 SHEET 1 OF 22



NOTES:
1. DIMS IN INCHES
2. QTY: 1

TITLE:
BALL MANIPULATOR TOTAL ASSEMBLY

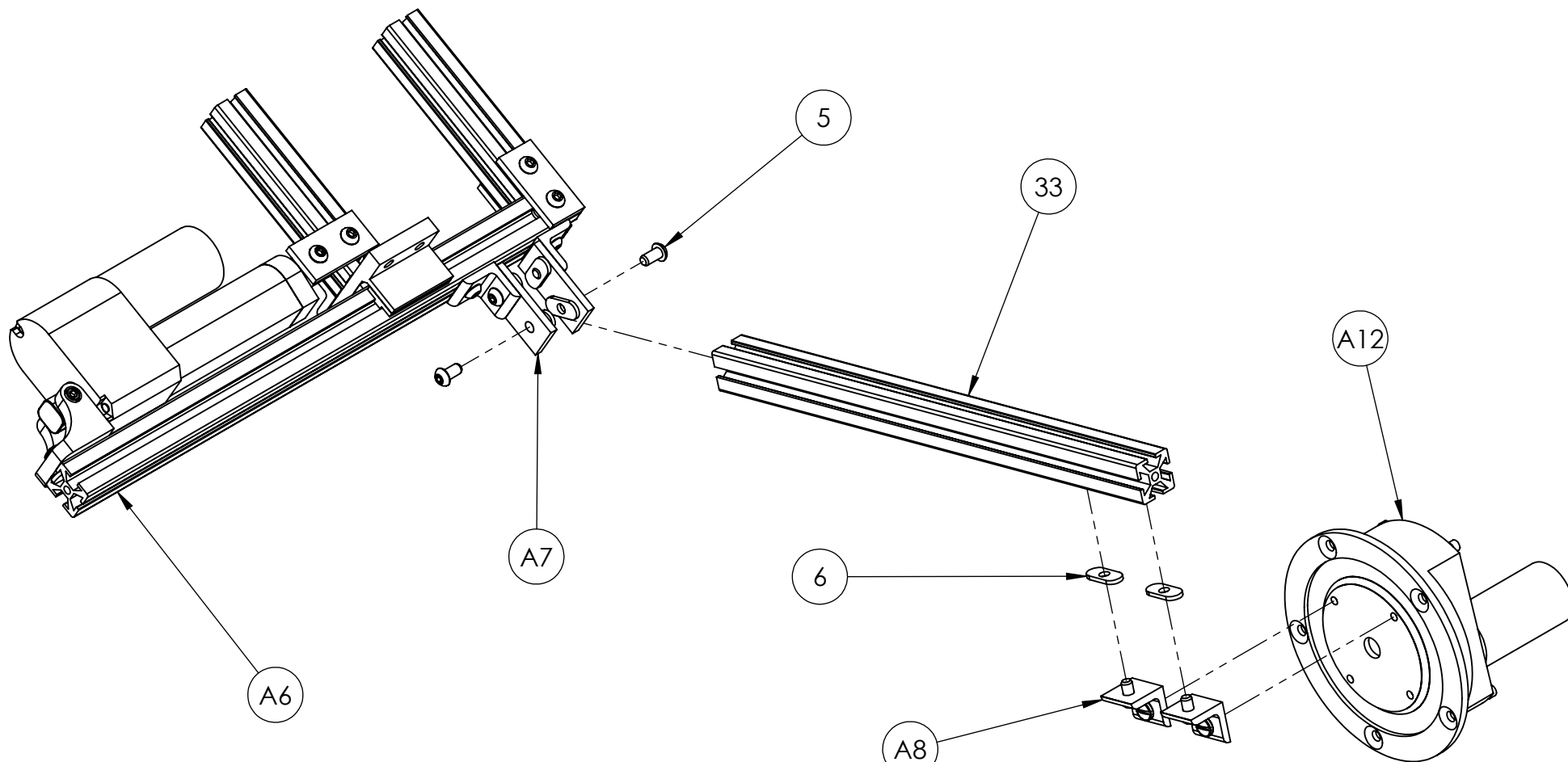
DRAWN MARK YEN

DESIGNED MARK YEN

TOLERANCE UNLESS NOTED				SIZE	DWG. NO.	REV
DIMENSION TYPE	PLACES IN DIMENSION			A	EML2322L-A-009	F
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5			

SCALE: 1:4

SHEET 2 OF 22



NOTES:
 1. DIMS IN INCHES
 2. QTY: 1

TITLE:
 BALL MANIPULATOR TOTAL ASSEMBLY

DRAWN MARK YEN

DESIGNED MARK YEN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	± 0.050	± 0.020	± 0.005
ANGULAR	± 5	± 2	± 0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-009	F

SCALE: 2:7	SHEET 3 OF 22
------------	---------------

ITEM NO.	PART NUMBER	DESCRIPTION	STRETCH/ QTY.
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	2
6	EML2322L-0006	1/4-20 T-NUT	4
33	EML2322L-0033	80/20 EXTRUSION - 14.0 in	1
A6	EML2322L-A-006	CLAW ASSEMBLY	1
A7	EML2322L-A-007	CLAW MOUNT ASSEMBLY	2
A8	EML2322L-A-008	GLOBE MOTOR BRACKET ASSEMBLY	2
A12	EML2322L-A-012	4.5 RPM GLOBE MOTOR ASSEMBLY	1

NOTES:
1. DIMS IN INCHES
2. QTY: 1

TITLE: BALL MANIPULATOR TOTAL ASSEMBLY			
DRAWN		MARK YEN	
DESIGNED		MARK YEN	
SIZE	DWG. NO.		REV
A	EML2322L-A-009		F
SCALE: 1:12		SHEET 4 OF 22	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5