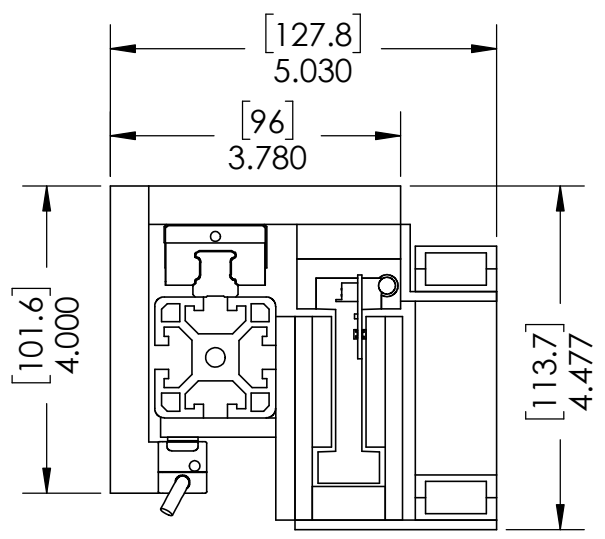
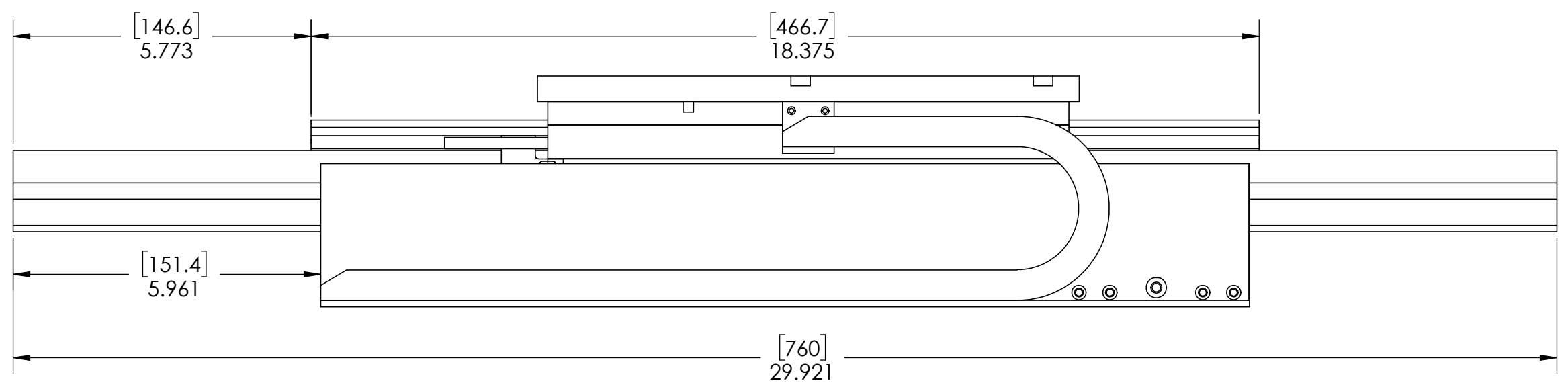
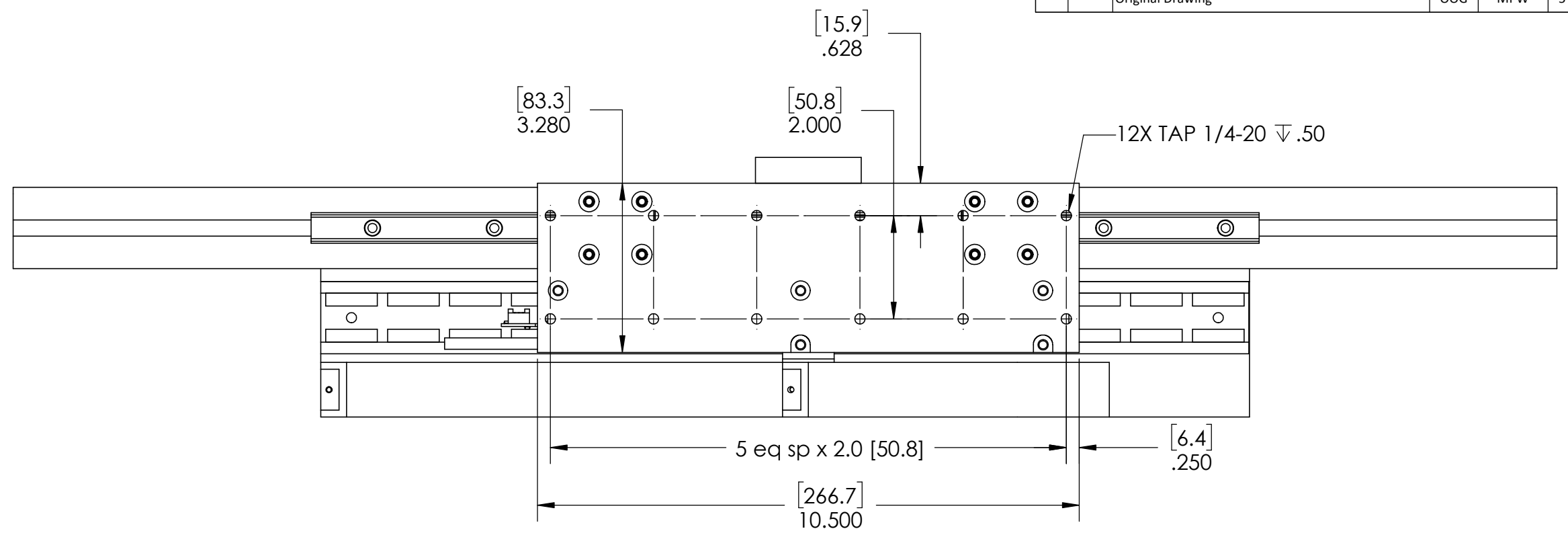


REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	OOG	MPW	5-1-2020



STAGE SHOWN AT MIDSTROKE

1

2

3

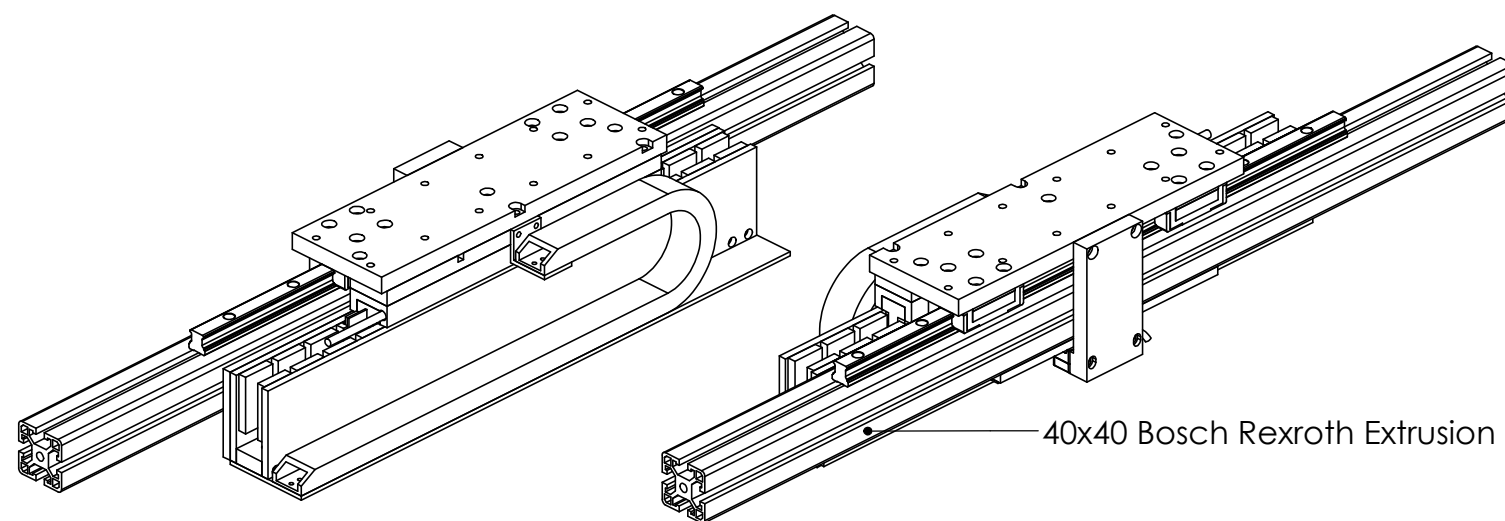
4

5

SINGLE RAIL POSITIONING STAGE SPECIFICATIONS

Motor P/N	BLDM-D08*	
Stroke	7.0 in	177.8 mm
Encoder Resolution	1 micron (absolute)	
Bearing Type	Recirculating Ball	
Moving Mass	6.5 lbs	2.94 kg
Total Mass	24.0 lbs	10.88 kg
Resistance @ 20C	9.2 ohms	
Inductance @ 20C	12.0 mH	
Electrical Time Constant	1.3 msec	
Motor Constant	3.7 LBS/SQRT(Watt)	16.4 N/SQRT(Watt)
Force Constant	11.2 LBS/Amp	49.7 N/Amp
Back EMF	1.26 V/ips	49.7 V/m/sec
Force @ 100% Duty	33.0 lbs	147 N
Power @ 100% Duty	103 watts	
Current @ 100% Duty	3.35 amps	
Force @ 10% Duty	99.0 lbs	440 N
Power @ 10% Duty	931 watts	
Current @ 10% Duty	10.0 amps	
Stage Length	22.9 in	760 mm
Stage Width	3.80 in	128.5 mm
Stage Height	4.35 in	96.7 mm

* Custom low Back EMF motor winding



A

A

B

B

C

C

D

D



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UNLESS SPECIFIED OTHERWISE:
All dimensions are in inches
Standard Tolerances are as follows
.XXX ±.005 ANGLES ±.1°
.XX ±.010 FILLETS .010
.X ±.020 CORNERS .010
Remove All Burrs and Sharp Edges

**FOR
REFERENCE
ONLY**

TITLE	DWG #	40-0465-L
Single Rail Positioning Stage Model #: SRS-007-04-033-01A-EX40	REV	----
DATE	5-1-2020	SHEET
		2 of 2