

1

2

3

4

5

REVISION TABLE

REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	OOG	MPW	12-8-10

A

A

[9.5]
.375
BOTH SIDES

4X TAP 1/4-20 ∇ .50 [6.4]

4X C'BORE FOR 1/4-20 SHCS

[9.7]
.381 BOTH SIDES

B

B

[178.1]
7.012

[177.8]
7.000

C

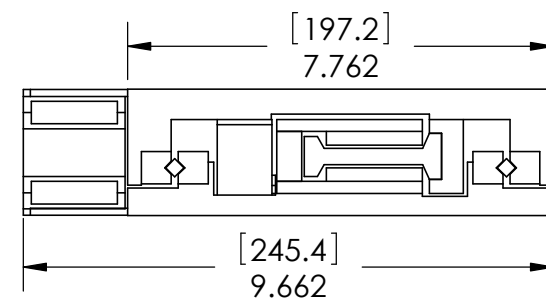
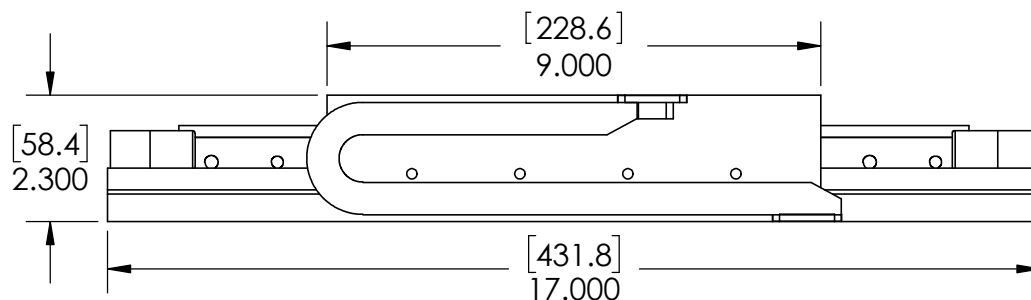
C

[381.0]
15.000

[25.4]
1.000
BOTH SIDES

D

D



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

**FOR
REFERENCE
ONLY**

MATERIAL

FINISH

TITLE
Crossed Roller Positioning Stage Model #:
XRS-006-10-020-001

DWG # **42-0043**

REV **----**

DATE **12-8-10** SHEET **1 of 2**

1

2

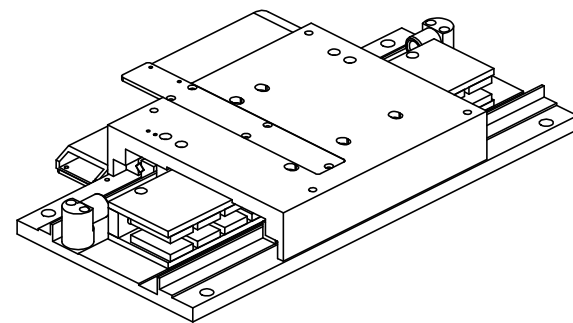
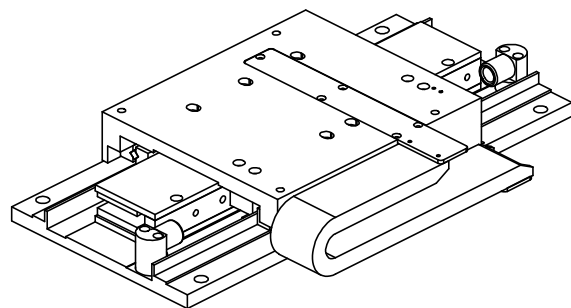
3

4

5

CROSSED ROLLER POSITIONING STAGE SPECIFICATIONS

Motor P/N	BLDC-02	
Stroke	6 in	152.4 mm
Encoder Resolution	0.1 micron	
Bearing Type	Crossed Roller	
Moving Mass	5.42 lbs	2458 g
Total Mass	31.42 lbs	14251 g
Resistance @ 20C	8.2 ohms	
Inductance @ 20C	6.0 mH	
Electrical Time Constant	0.7 msec	
Motor Constant	2.12 LBS/SQRT(Watt)	9.43 N/SQRT(Watt)
Force Constant	6.1 LBS/Amp	27.3 N/Amp
Back EMF	0.80 V/ips	31.5 V/m/sec
Force @ 100% Duty	20.6 lbs	91.6 N
Power @ 100% Duty	95 watts	
Current @ 100% Duty	1.6 amps	
Force @ 10% Duty	61.8 lbs	274.8 N
Power @ 10% Duty	846 watts	
Current @ 10% Duty	6.4 amps	
Stage Length	17 in	431.8 mm
Stage Width	9.66 in	245.36 mm
Stage Height	2.3 in	58.42 mm



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 .XXX ±.005 ANGLES ±.1°
 .XX ±.010 FILLETS .010
 .X ±.020 CORNERS .010
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