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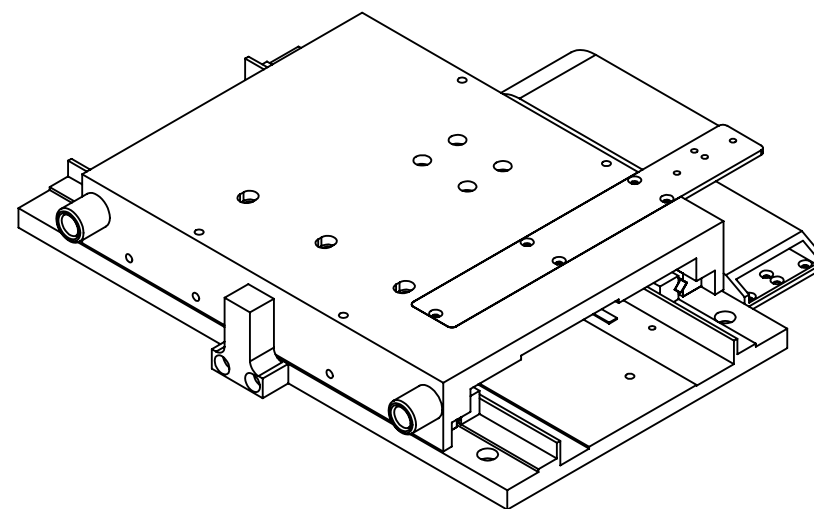
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CROSSED ROLLER POSITIONING STAGE SPECIFICATIONS

Motor P/N	BLDC-02	
Stroke	8 in	203 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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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**

MATERIAL

FINISH

TITLE
Crossed Roller Positioning Stage Model #:**XRS-008-12-020-01**DWG # **42-0034**

REV

DATE 7-15-09 SHEET 2 of 2