



UNLESS SPECIFIED OTHERWISE: All dimensions are in inches. Standard Tolerances are as follows: XXX +.015 ANGLES ±1° XX ±.010 FILLETS AND X ±.020 CORNERS 010 Remove All Burs and Sharp Edges		MATERIAL FINISH			TITLE DRS-080-04-040-X		
DRAWN OOG	DATE 5-1-07	APPROVED MPW	DATE 5-1-07	DWG# 41-0173	REV B	SHEET 1 of 2	



DUAL RAIL POSITIONING STAGE SPECIFICATIONS		
Motor P/N	BLSRA-02	
Stroke	80.32 in	2040 mm
Encoder Resolution	1 micron	
Bearing Type	Recirculating Ball	
Moving Mass	27.7 lbs	12.6 kg
Total Mass	196 lbs	88.9 kg
Resistance @ 20C	8.0 ohms	
Inductance @ 20C	12.2 mH	
Electrical Time Constant	1.5 msec	
Motor Constant	3.65 lbs/SQRT(Watt)	16.2 N/SQRT(Watt)
Force Constant	46.4 lbs/Amp	10.4 N/Amp
Back EMF	1.36 V/ips	53.5 V/m/sec
Force @ 100% Duty	69 lbs	308 N
Power @ 100% Duty	360 watts	
Current @ 100% Duty	6.6 amps	
Force @ 10% Duty	264 lbs	1174 N
Power @ 10% Duty	7200 watts	
Current @ 10% Duty	29.7 amps	
Table Length	15 in	381 mm
Stage Width	16 in	406.4 mm
Stage Height	4.2 in	106.7 mm

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