



Specs:
 Stroke = 120 in
 Force (Cont) = 168 lbs
 Force (Peak) = 504 lbs
 Encoder = 1 micron

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 Burrs and Sharp Edges				MATERIAL				TITLE Single Rail Positioning Stage Model #: DRS-120-11-168-01-ME			
FINISH				DRAWN	DATE	APPROVED	DATE	DWG#	REV	SHEET	
				OOG	4-10-10	MPW	4-10-10	41-0242	---	1 of 2	

DUAL RAIL POSITIONING STAGE SPECIFICATIONS		
Motor P/N	BLDC-3A-NC-WD7S	
Stroke	120 in	3048 mm
Encoder Resolution	1 micron	
Bearing Type	Recirculating Ball	
Moving Mass	54.6 lbs	24.8 kg
Total Mass	354.6 lbs	160.8 kg
Resistance @ 20C	8.2 ohms	
Inductance @ 20C	30.8 mH	
Electrical Time Constant	3 msec	
Motor Constant	6.82 lbs/SQRT(Watt)	30.3 N/SQRT(Watt)
Force Constant	21.5 lbs/Amp	95.5 N/Amp
Back EMF	2.80 V/ips	110.2 V/m/sec
Force @ 100% Duty	186 lbs	747 N
Power @ 100% Duty	610 watts	
Current @ 100% Duty	7.8 amps	
Force @ 10% Duty	614 lbs	2731 N
Power @ 10% Duty	12196 watts	
Current @ 10% Duty	35.1 amps	
Table Length	21 in	533.4 mm
Stage Width	15.6 in	396.2 mm
Stage Height	5.04 in	128 mm