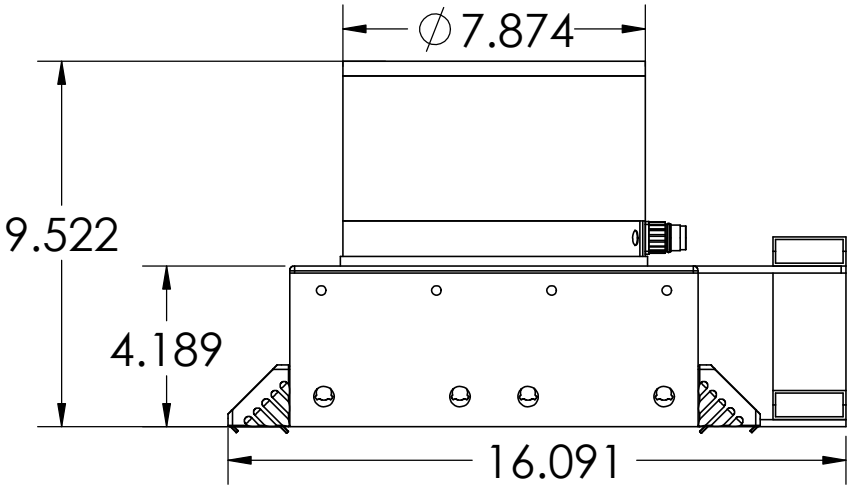
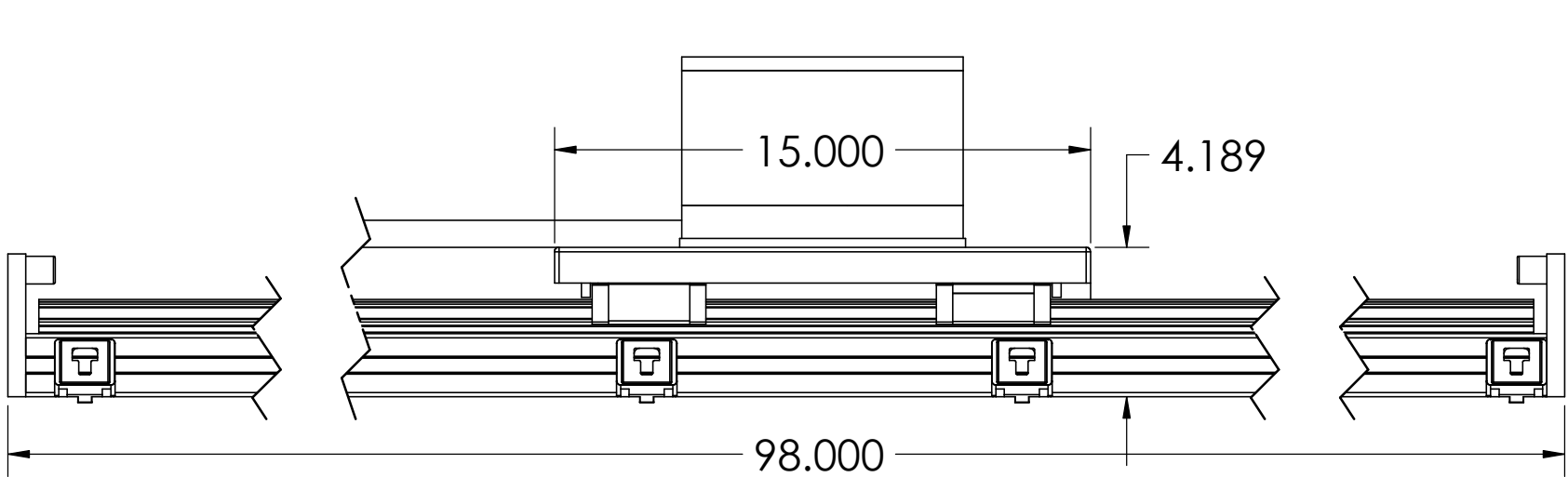
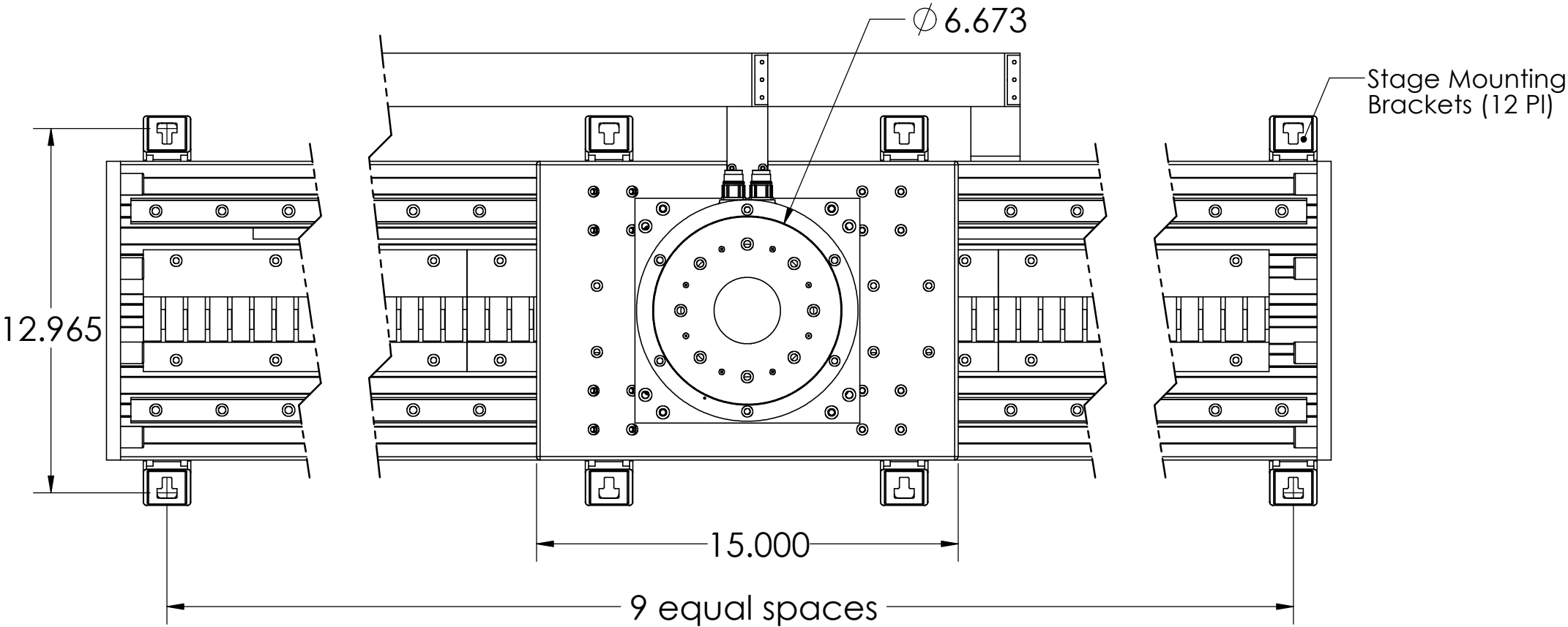


These drawings and specifications are the property of H2W Technologies, Inc. They are issued in confidence and shall not be reproduced, copied, or used without written permission from H2W Technologies, Inc.

REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	OOG	MPW	5-1-07



H2W Technologies, Inc.
26470 Ruether Ave #102 Santa Clarita, CA 91350 USA
Tel: (661) 251-2081 Fax: (661) 251-2067
www.h2wtech.com

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

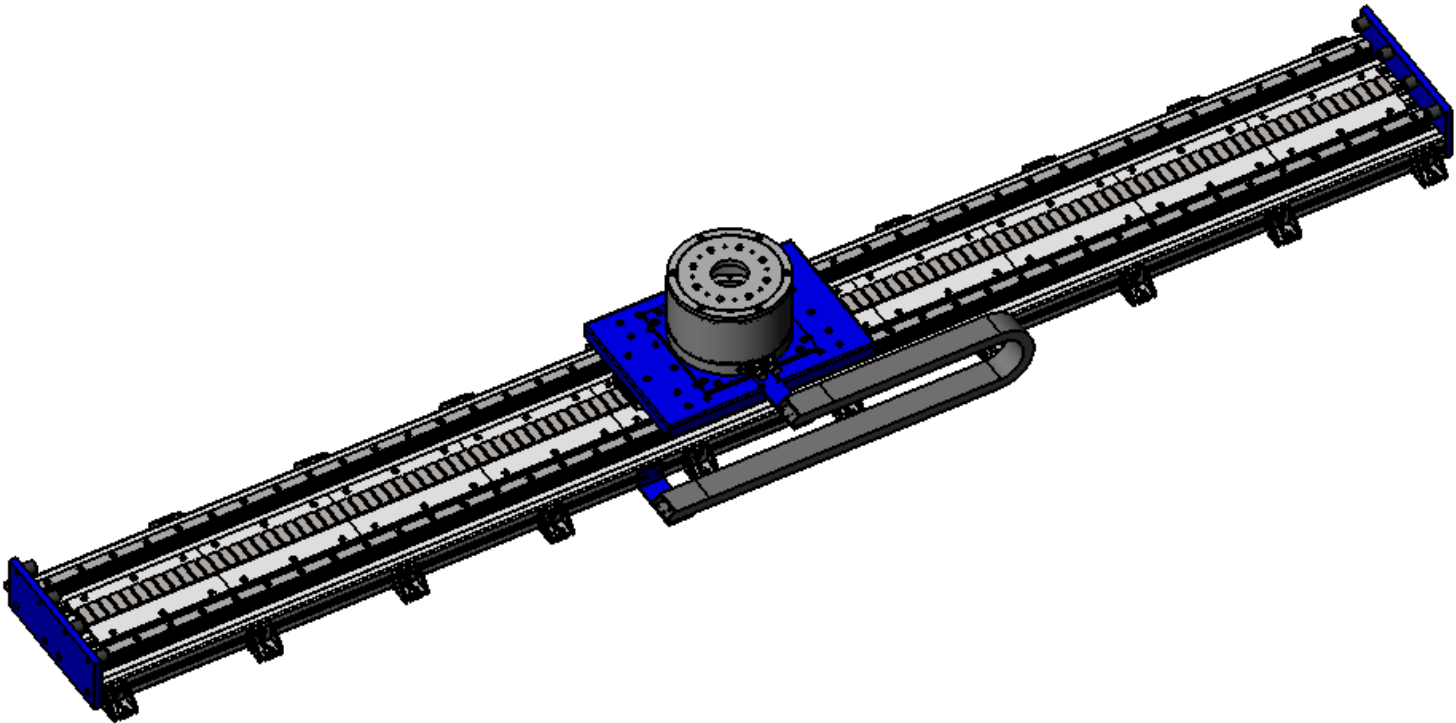
MATERIAL			
FINISH			
DRAWN	DATE	APPROVED	DATE
OOG	5-1-07	MPW	5-1-07

TITLE			
Linear-Theta Positioning Stage			
DWG #	REV	SHEET	
41-0173	---	1 of 2	

These drawings and specifications are the property of H2W Technologies, Inc. They are issued in confidence and shall not be reproduced, copied, or used without written permission from H2W Technologies, Inc.

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	.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	207 lbs	924 N
Power @ 10% Duty	3240 watts	
Current @ 10% Duty	19.8 amps	
Stage Length	98 in	2489 mm
Stage Width	16 in	406.4 mm
Stage Height	4.2 in	106.7 mm

ROTARY POSITIONING STAGE SPECIFICATIONS	
Motor P/N	TMS32
Stroke	360°
Encoder Resolution	3600 lines/rev
Bearing Type	Crossed Roller
Total Mass	15 kg
Resistance @ 20C	2.9 ohms
Inductance @ 20C	10 mH
Electrical Time Constant	* msec
Motor Constant	1.0 Nm/SQRT(Watt)
Force Constant	3.5 Nm/A
Back EMF	1.6 V/rad/sec
Force @ 100% Duty	10 Nm
Power @ 100% Duty	26.1 watts
Current @ 100% Duty	3.0 amps
Force @ 10% Duty	25 Nm
Power @ 10% Duty	163 watts
Current @ 10% Duty	7.5 amps



H2W Technologies, Inc.
26470 Ruether Ave #102 Santa Clarita, CA 91350 USA
Tel: (661) 251-2081 Fax: (661) 251-2067
www.h2wtech.com

TITLE		
Linear-Theta Postiioning Stage		
DWG #	REV	SHEET
41-0173	---	2 of 2