



COUNTERBALANCE FEATURES

COUNTERBALANCE LOAD:

POSITION	FORCE
-12.5 MM	18.7 N (4.2 LBS)
0 MM	13.3 N (3.0 LBS)
12.5 MM	8.0 N (1.8 LBS)

NOTES:
 - DESIGN ALLOWS FOR SLIGHT ADJUSTMENT TO INCREASE OR DECREASE THE PRELOAD FORCE AS REQUIRED BY APPLICATION.
 - COUNTERBALANCE CAN BE INSTALLED IN BOTH POSITIONS SHOWN ABOVE FOR MOUNTING FLEXIBILITY.

STANDARD FEATURES
 MOTOR: HR-4 (OR HR-8)
 STD FORCE 16 N (OR 32 N)
 (CONSULT FACTORY FOR HIGHER FORCE)
 TRAVEL: 25mm
 SPEED: 250mm/sec
 ENCODER RESOLUTION: ANALOG 1 VOLT, PEAK TO PEAK
 OPTIONAL: 5um, 1um, 0.5um, 0.1um, 0.05um, 0.02um, 0.01um or 5nm USING 4096 INTERPOLATION
 (CONTROLLER DEPENDENT)
 SYSTEM REPEATABILITY: +/- 1 ENCODER COUNT
 (CONTROLLER DEPENDENT)
 HOME SENSOR: STANDARD
 BEARINGS: PRECISION CROSS ROLLER
 < 1.5um PARALLELISM
 BEARING DYNAMIC LOAD RATING: 2.6kN
 SYSTEM LOAD CAPACITY: APPLICATION DEPENDENT
 PLEASE CONSULT THE FACTORY
 ENCLOSURES: ALUMINUM 6061-T6
 STAINLESS STEEL OPTIONAL
 ENVIRONMENT: STANDARD, CLEAN ROOM, VACUUM
 10e-7 TORR, AND VACUUM 10e-10 TORR
 (CONSULT FACTORY)
 TEMPERATURE: 0 to 100 DEG C
 HUMIDITY: 10% to 80% NON-CONDENSING

ACCESSORIES

MOTOR AMPLIFIER

OPTIONAL EQUIPMENT

MOTION CONTROLLERS

CUSTOM DESIGNS FOR OEM INTEGRATION

ALIO INDUSTRIES PROPRIETARY INFORMATION

11919 W I-70 FRONTAGE ROAD NORTH, UNIT 119, WHEAT RIDGE, CO 80033 USA
 (Tel) 303.339.7500 - SALES@ALIOINDUSTRIES.COM - WWW.ALIOINDUSTRIES.COM

DRAWN	NBRWON	10/11/2005			
CHECKED					
Tolerances:			TITLE		
x.x \pm .04 in x.xx \pm .02 in x.xxx \pm .005 in			AI-HR4/8-5000E-CB-25MM		
Surface Roughness: $\sqrt{\text{RMS MAX.}}$					
MATERIAL			SIZE	DWG NO	REV
FINISH			B	0010-00423	007
SEE NOTES			SCALE	ALIO STD TEMPLATE - REV 005	SHEET 1 OF 1