

# 2000 Linear

## General Specifications:

- Output Force Over 100 lbs
- Linear Speeds Over 2" per second
- Stroke Length 2" to 4"
- Brushless DC Motor
- Oil-Filled - Self-Contained - Compensated

## Operating Conditions:

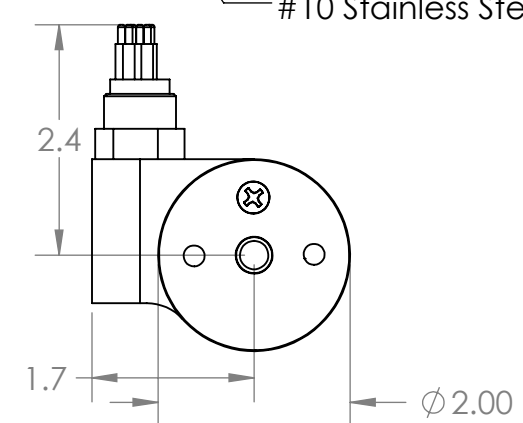
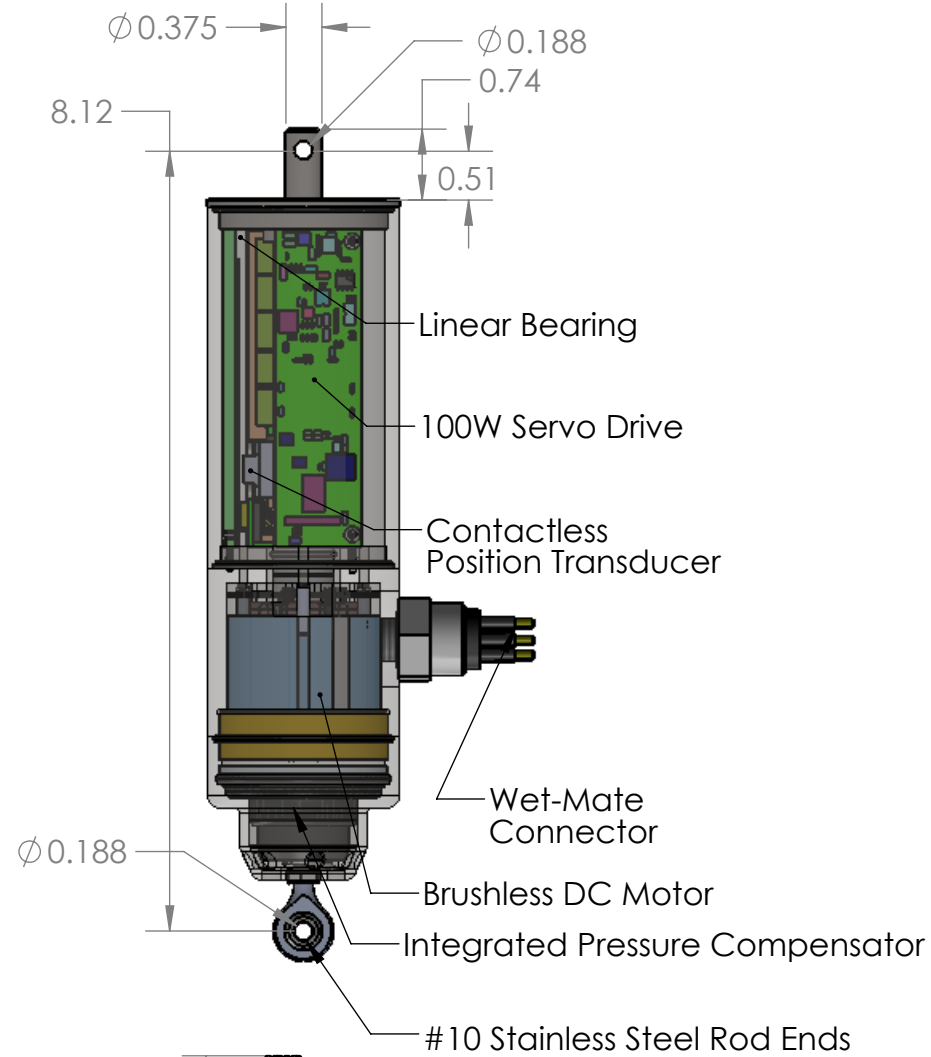
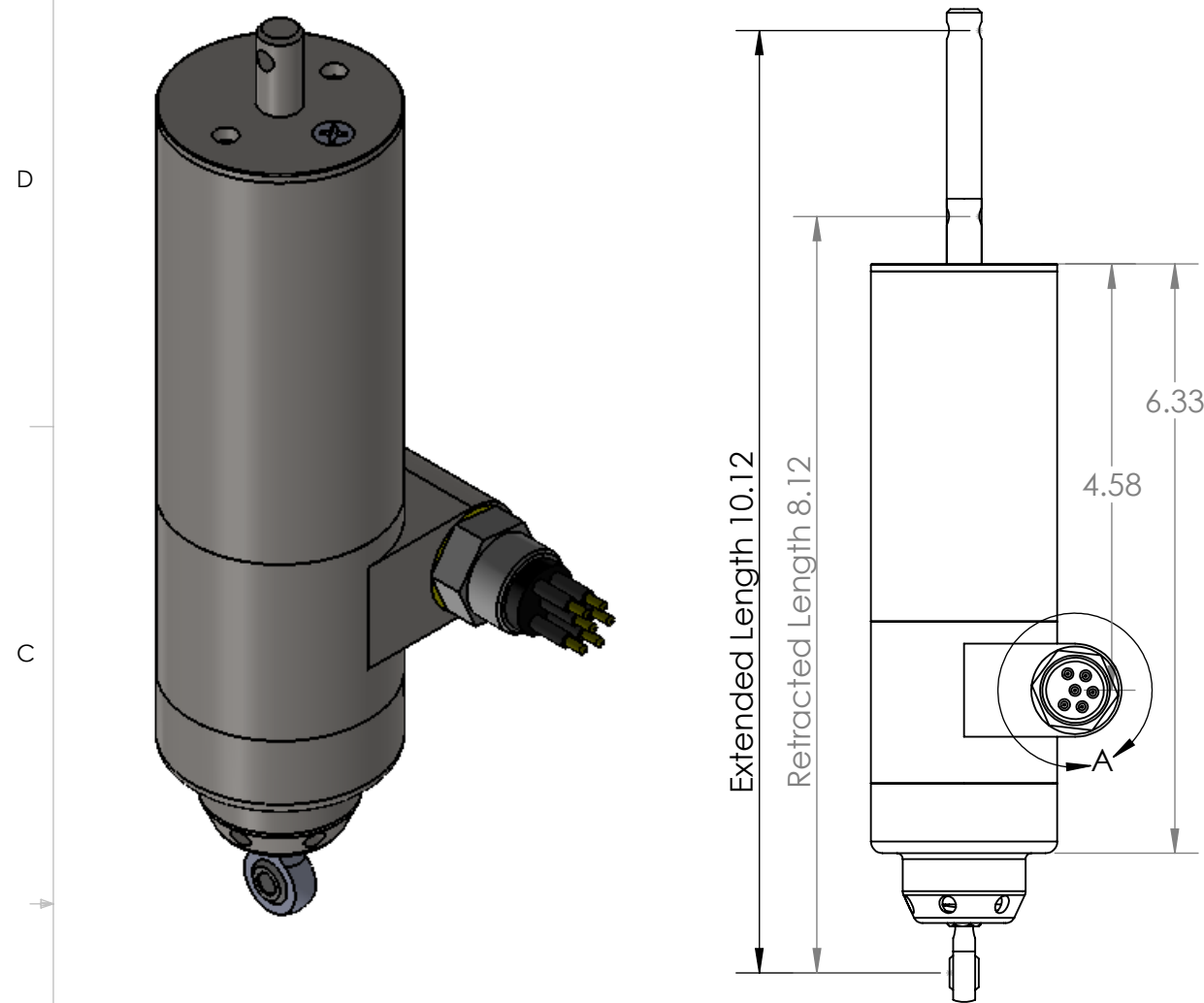
- Voltage 12 <-> 32 Volts DC
- Operating Depth Greater Than 10,000 ft
- Operating Temperature Range: -20°C to 65°C
- Storage Temperature Range: -30°C to 85°C

## Onboard Motor Driver and Servo System:

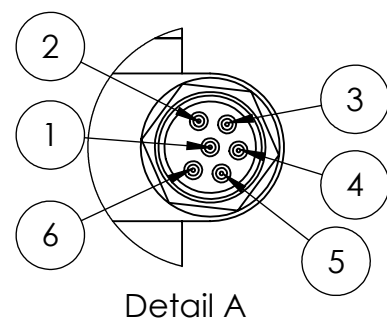
- Configurable current limits, power and speed
- RS-232 & RS-485 Interface
- Optional Analog, Modbus or CAN Bus
- Contactless non-wearing absolute position encoder
- Does not require homing
- 0.005" Accuracy

## Current Draw @24V DC:

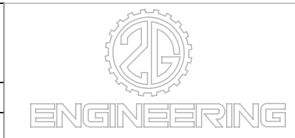
- Idle current = 0.03A
- Motor ON braking = 0.12A
- Max force @ Stall = 5A



Pinouts for MCBH-6-M  
 1: TX (RS-232 out)  
 2: RX (RS-232 in)  
 3: RS-485 B  
 4: +VIN  
 5: -VIN  
 6: RS-485 A



| Shaft Style                           |      | Shaft Length (in.) |      | Material   |     | Dry Weight (lbs) | Wet Weight (lbs) | Connectors        |    | Connector Orientation |     |
|---------------------------------------|------|--------------------|------|--|-----|------------------|------------------|-------------------|----|-----------------------|-----|
| #10 Rod End                           | R    | 2.00 *             | 2000 | Titanium   | TI  | 2.8              | 2                | MCBH 4 Pin Male   | 4M | Parallel Forward      | PLF |
| 3/16in. Clevis Pin *                  | C    | 4.00               | 4000 | 316 SS *   | SS  | 3.9              | 3.2              | MCBH 6 Pin Male * | 6M | Parallel Backward     | PLB |
| 1/4in. Clevis Pin                     | .25C |                    |      | 6061-AL-Natural  | ALN | 2.3              | 2.0              | MCBH 8 Pin Male   | 8M | Perpendicular *       | PD  |
| 1/4in. Rod End                        | .25R |                    |      | 6061-AL-Black  | ALK | 2.3              | 2.0              | MCBH 4 Pin Female | 4F |                       |     |
|                                       |      |                    |      | 6061-AL-Blue   | ALB | 2.3              | 2.0              | MCBH 6 Pin Female | 6F |                       |     |
|                                       |      |                    |      | 6061-AL-Green  | ALG | 2.3              | 2.0              | MCBH 8 Pin Female | 8F |                       |     |
|                                       |      |                    |      | 6061-AL-Red  | ALR | 2.3              | 2.0              |                   |    |                       |     |
| * Model shown:<br>2000L-C2000-SS-6MPD |      |                    |      | All Weights Are Approximate for<br>2in Stroke Actuator |     |                  |                  |                   |    |                       |     |



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TITLE:  
**2000 Series Linear Actuator**

DRAWN: GMPH 3/3/2016  
 CHECKED: GMPH 3/3/2016

PROPRIETARY AND CONFIDENTIAL

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SIZE: **B** DWG. NO.: **2000L** REV: **F**

SCALE: 1:2 WEIGHT: SHEET 1 OF 5