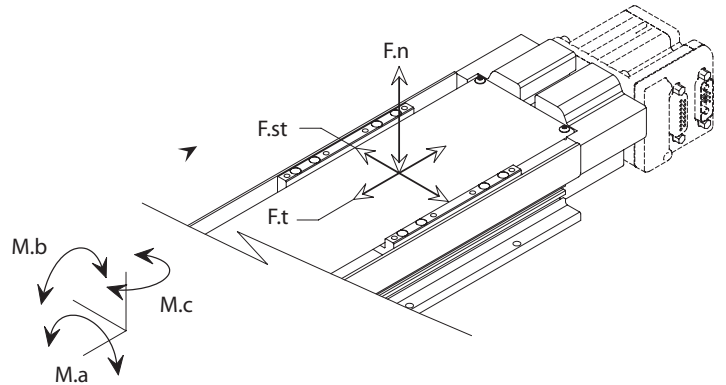


## XL100 Product Specifications

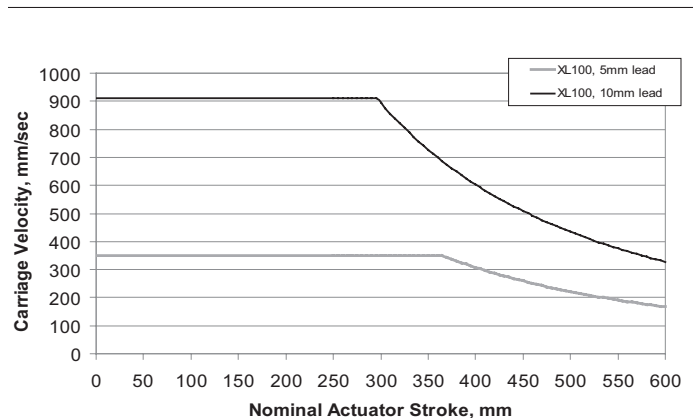
| Parameter                                      | Value   | Units  |
|--|---|--------|
| <b>Configuration &amp; Physical Parameters</b> |   |        |
| Motor  | Animatics SmartMotors Size 17 & 23                                    | -      |
| Coupling                                       | Beam  | -      |
| Ball Screw Leads                               | 5, 10   | mm/rev |
| Position Sensors                               | Adjustable (3 per side - 6 max))<br>NPN N/O or N/C                    | -      |
| Stroke Lengths                                 | Standard in 50mm increments to 600<br>Custom in 1mm increments to 600 | mm     |
| Overall Length                                 | Stroke + 223.50 + Motor   | mm     |
| Over-Travel                                    | 24.5  | mm     |
| Unit Mass                                      | 2.657 + 0.0049 x (stroke, mm)<br>+ (motor mass, kg)                   | kg     |
| <b>Performance</b>                             |   |        |
| Unidirectional Repeatability                   | 3   | μm     |
| Bi-directional Repeatability                   | 16  | μm     |
| Ballscrew Lead Accuracy                        | 0.1/300   | mm/mm  |
| <b>Load Rating, Dynamic* (Static)</b>          |   |        |
| Payload Mass                                   | 25 or 20 (5 or 10mm/rev lead)   | kg     |
| F. t, Thrust                                   | 200 (1140)  | N      |
| F.n, Carriage Normal                           | 860 (15000)   | N      |
| F.st, Carriage Side                            | 580 (1000)  | N      |
| M.a, Carriage Moment**                         | 25 (500)  | Nm     |
| M.b, Carriage Moment**                         | 25 (500)  | Nm     |
| M.c, Carriage Moment**                         | 25 (500)  | Nm     |



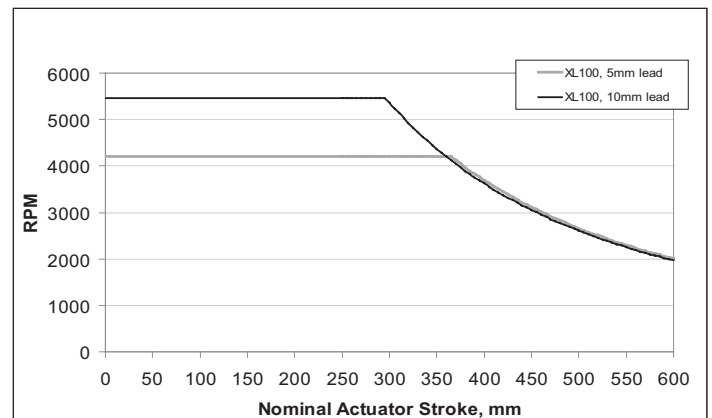
\*Based on a basic desired service life of 15,000hr (7.5yrs single shift) @ 167 mm/s and 333mm/s (2000 RPM) average speed at given payload. Consult the factory if your application exceeds these values.  
 \*\*Moment capacities given about center of carriage mounting surface.

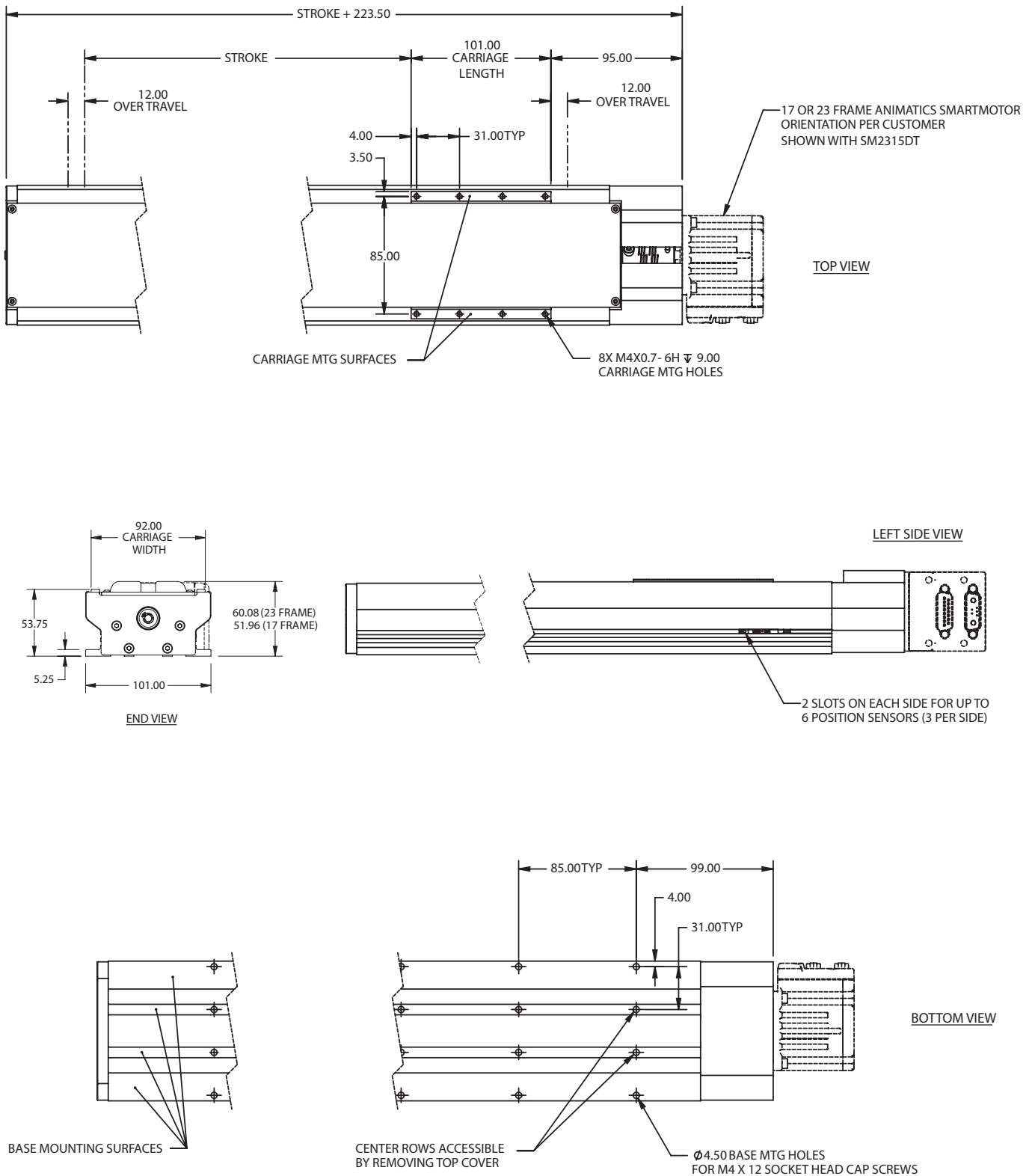
**WARNING: Do not exceed these limits**

**XL100 - Maximum Permissible Carriage Velocity**



**XL100 - Maximum Permissible Screw Speed**





Dimensions in millimeters

Note: For part numbers please refer to our Website at [www.oemdynamics.com](http://www.oemdynamics.com)

**Thrust Curve performance data in following section on pages 109-126.**