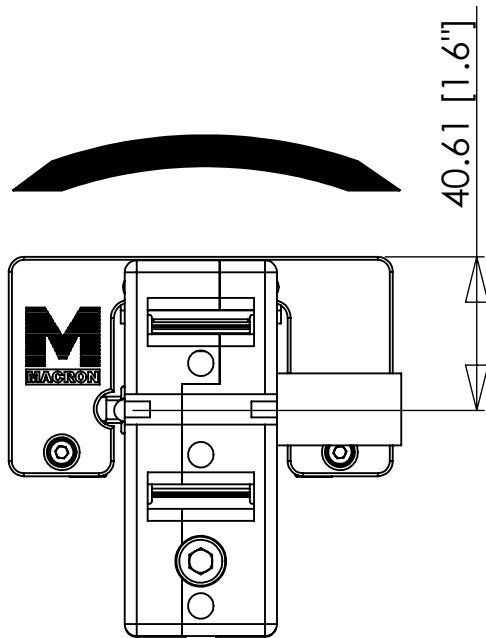
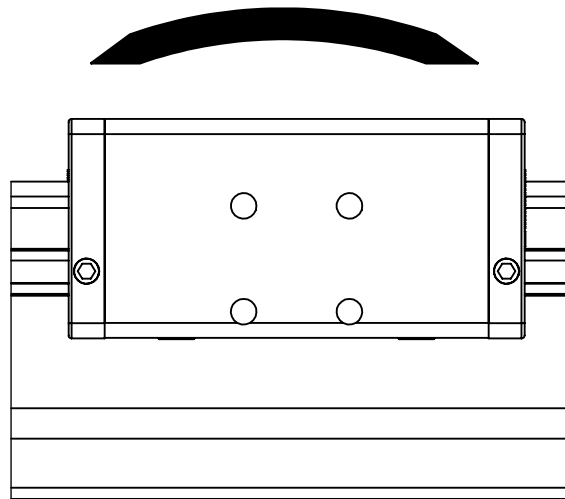


MOMENT LOADING FOR THE MSA-M6S ACTUATOR

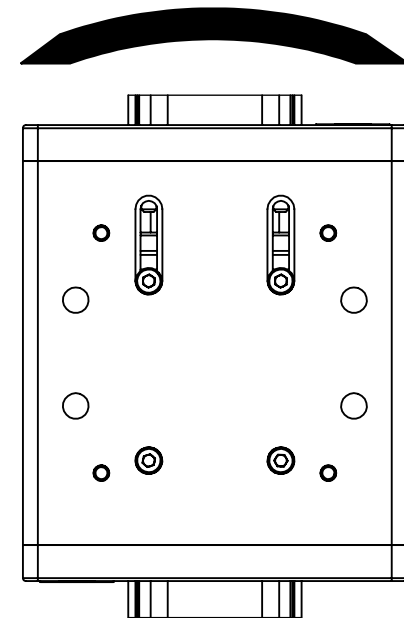
(CALCULATED FROM THE CENTERLINE OF THE GUIDE RAILS)



M_x (static) = 25 in-lbs, 2.8 Nm.
 M_x (dynamic) = 32 in-lbs, 3.5 Nm.



M_y (static) = 35 in-lbs, 4 Nm.
 M_y (dynamic) = 43 in-lbs, 4.8 Nm.



M_z (static) = 163 in-lbs, 18 Nm.
 M_z (dynamic) = 202 in-lbs, 22 Nm.



MACRON DYNAMICS INC