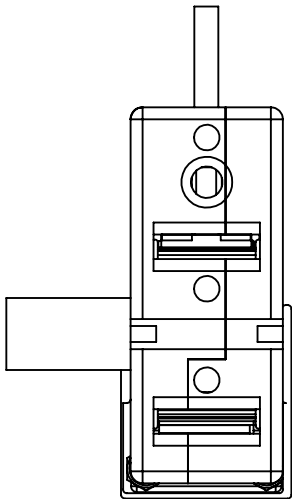
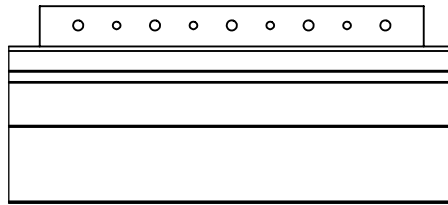


MOMENT LOADING FOR THE MSA-135 ACTUATOR



M_x (static) = 597 in-lbs, 67 Nm.
 M_x (dynamic) = 684 in-lbs, 77 Nm.



M_y (static) = 1902 in-lbs, 214 Nm.
 M_y (dynamic) = 2179 in-lbs, 246 Nm.



M_z = 250 in-lbs, 28 Nm.



MACRON DYNAMICS INC