Eq. 1 Triangular Clamping Toggle Calculator		
Input cells shown as blue		
clamping force P =	20.000	lbf
length as indicated l =	2.000	in
length as indicated l_1 =	4.000	in
radius of pivot hole r =	0.250	in
vertical distance h =	1.500	in
vertical distance h_1 =	3.500	in
coefficient of friction f =	0.100	-
coefficient of friction f_o =	0.100	-
coefficient of friction f_l =	0.100	-
Eq. 1, Calculated Results		
is $l_1 \geq l$?	Yes	-
force applied Q =	12.000	lbf
is P ≥ Q =	Yes	-

Eq. 2, Triangular Clamping Toggle Calculator		
Input cells shown as blue		
force applied Q =	12.000	lbf
length as indicated l =	2.000	in
length as indicated l_1 =	4.000	in
radius of pivot hole r =	0.250	in
vertical distance h =	1.500	in
vertical distance h_1 =	3.500	in
coefficient of friction f =	0.100	-
coefficient of friction f_o =	0.100	-
coefficient of friction f_l =	0.100	-
Eq. 2, Calculated Results		
is $l_1 \geq l$?	Yes	-
clamping force P =	20.000	lbf
is P ≥ Q =	Yes	-