

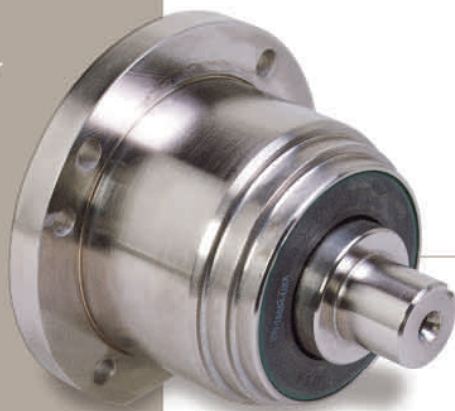


Application:

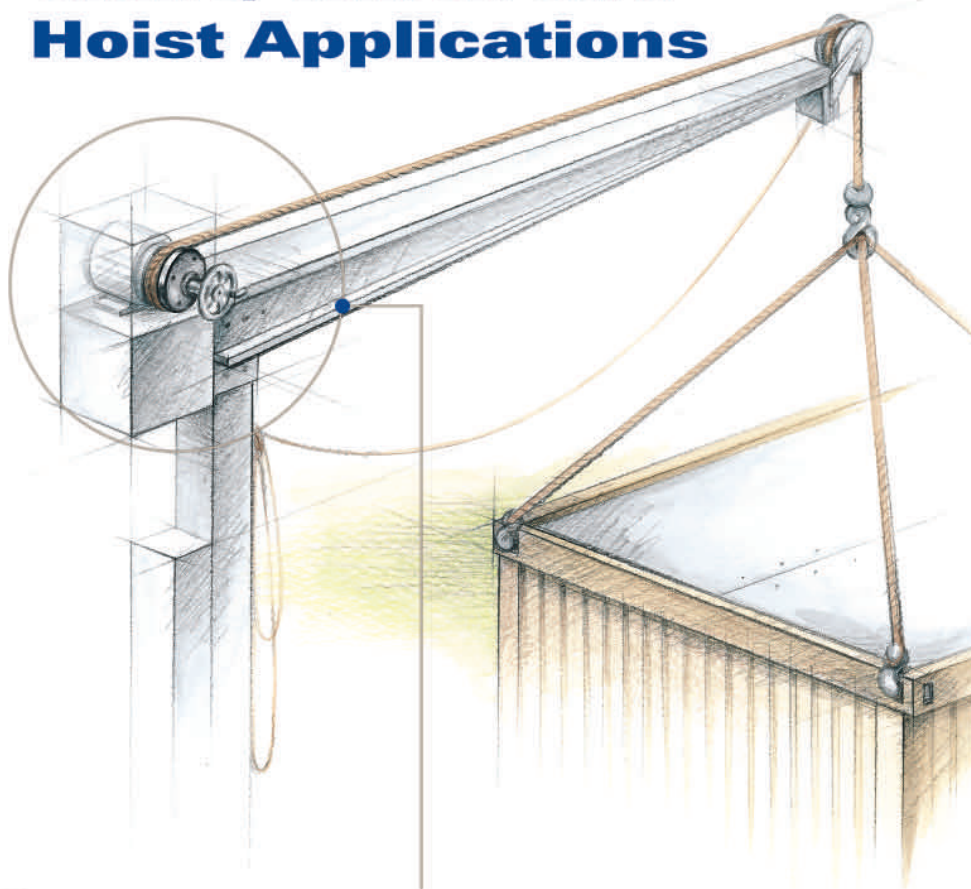
Bi-Directional Backstopping

Form-Lock (FL) bi-directional clutches are used on cranes, winches and hoists to provide optional manual drive to the normal drive system to smoothly raise and lower loads. The Form-Lock is a mechanical clutch that can be driven in both directions while automatically providing a holding brake function when the driving torque is stopped.

Additional uses include the smooth raising and lowering of gun barrels in artillery, and other loads being raised and lowered smoothly with ball screws.



Product Solutions for **Crane, Winch and Hoist Applications**



Model FL

Material Handling

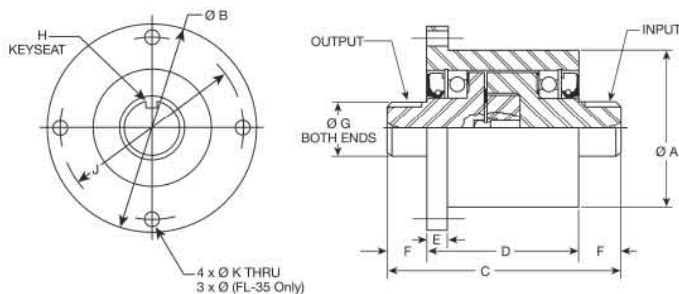
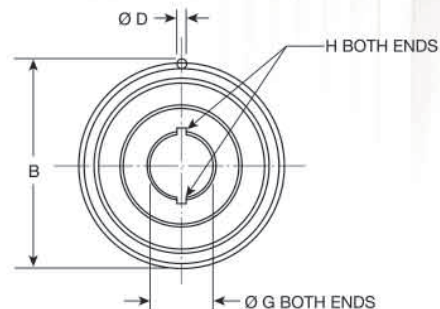
 **Formsprag**
Clutch



Model FL

Dimensions Inches (mm)

Model No.	Torque in.-lb. (Nm)	A	B	C	D	E	F	G	H Woodruff Key	Wt. lbs. (Kg)
FL-47A	310 (35)	<u>1.8504</u> 1.8494 (47 h6)	1.8971 (48.19)	2.438 (61.93)	.0937 (2.38)	1.25 (31.75)	.835 (21.21)	<u>.5635</u> .5625 (14.3 H6)	405	1.5 (.68)
FL-52A	400 (45)	<u>2.0472</u> 2.0467 (52 h6)	2.0941 (53.19)	2.620 (66.55)	.0937 (2.38)	1.25 (31.75)	.890 (22.61)	<u>.626</u> .625 (15.9 H6)	405	1.9 (.86)
FL-62A	800 (90)	<u>2.4409</u> 2.4404 (62 h6)	2.5034 (63.59)	2.870 (72.90)	.1250 (3.18)	1.50 (38.1)	.937 (23.80)	<u>.751</u> .750 (19.05 H6)	406	3.0 (1.36)
FL-72A	1325 (150)	<u>2.8346</u> 2.8441 (72 h6)	2.8971 (73.59)	3.245 (82.42)	.1250 (3.18)	1.75 (44.45)	1.045 (26.54)	<u>.876</u> .875 (22.23 H6)	507	4.6 (2.1)
FL-80A	2200 (249)	<u>3.1496</u> 3.1491 (80 h6)	3.2277 (81.98)	3.620 (91.95)	.1562 (3.97)	2.00 (50.8)	1.156 (29.36)	<u>1.001</u> 1.000 (25.4 H7)	608	6.3 (2.86)
FL-90A	2650 (300)	<u>3.5433</u> 3.5428 (90 h6)	3.6214 (91.98)	3.870 (98.30)	.1562 (3.97)	2.25 (57.15)	1.189 (30.20)	<u>1.126</u> 1.125 (28.58 H7)	609	8.5 (3.86)
FL-110A	4425 (500)	<u>4.3307</u> 4.3297 (110 h6)	4.4244 (112.38)	4.495 (114.17)	.1876 (4.77)	2.25 (57.15)	1.322 (33.58)	<u>1.376</u> 1.375 (34.92 H7)	810	14.8 (6.7)



For additional information,
contact Formsprag Clutch.

Dimensions Inches (mm)

Model No.	Torque in.-lb. (Nm)	A	A	B	C	D	E	F	G	G	H	J	K	Wt. lbs. (Kg)
FL-35	100 (11.5)	<u>1.388</u> 1.378 (35.26)	(35.00)	2.00 (50.8)	2.35 (59.7)	1.35 (34.3)	.13 (3.3)	.50 (12.7)	<u>.3745</u> .3740 (9.51 h8)		.094 dia (2.39) pin hole	1.750 (44.45)	.141 (3.58)	.5 (.24)
FL-42	250 (28.5)	<u>1.663</u> 1.653 (42.24)	(42.00)	2.50 (63.5)	3.00 (76.2)	2.00 (50.8)	.25 (6.4)	.50 (12.7)	<u>.500</u> .499 (12.7 h8)		.125 x .06 (3.18 x 1.52)	2.125 (53.98)	.190 (4.83)	1.2 (.54)
FL-55	600 (68)	<u>2.175</u> 2.165 (55.25)	(55.00)	2.88 (73.2)	3.31 (84.1)	2.31 (58.7)	.36 (9.1)	.50 (12.7)	<u>.500</u> .499 (12.7 h8)		.125 x .06 (3.18 x 1.52)	2.560 (65.02)	.219 (5.56)	2.2 (1.01)
FL-75	1200 (136)	<u>2.963</u> 2.953 (75.26)	(75.00)	3.88 (98.6)	4.34 (110.2)	2.84 (72.1)	.40 (10.2)	.75 (19.1)	<u>1.000</u> .999 (25.4 h8)		.187 x .09 (4.75 x 2.3)	3.380 (85.85)	.250 (6.35)	5.2 (2.36)
FL-90	2400 (271)	<u>3.553</u> 3.543 (90.25)	(90.00)	4.50 (114.3)	4.98 (126.5)	2.98 (75.7)	.44 (11.2)	1.00 (25.4)	<u>1.125</u> 1.124 (28.58 h6)		.250 x 1.3 (6.35 x 3.3)	4.000 (101.60)	.281 (7.14)	7.9 (3.57)
FL-115	4800 (542)	<u>4.538</u> 4.528 (115.27)	(115.00)	6.00 (152.4)	5.31 (134.9)	3.31 (84.1)	.50 (12.7)	1.00 (25.4)	<u>1.250</u> 1.249 (31.75 h6)		.250 x .13 (6.35 x 3.3)	5.250 (133.35)	.312 (7.92)	14.3 (6.47)