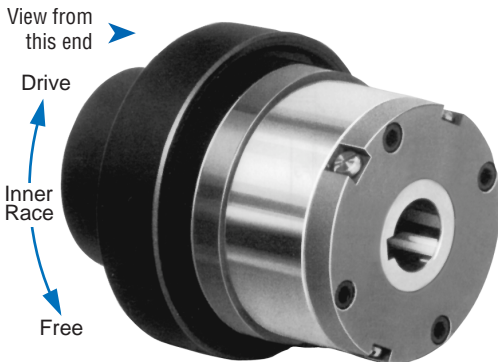


AL..KMSD2, ALM..KMSD2

Overrunning, Indexing, Backstopping Ball Bearing Supported, Ramp & Roller Clutch Couplings



Right Hand rotation shown.
 (Left Hand opposite.)

Specify direction of rotation when ordering.

Model AL..KMSD2 is a ramp & roller type clutch coupling, self contained, sealed and bearing supported, using two 160 Series bearings. Unit is shipped oil lubricated.

In this design, a standard AL clutch is connected to a KMS flexible coupling for in-line mounting. The KMS model is a rugged coupling, economical and suitable for many applications.

D2 cover is used to enclose the unit. It is equipped with two screws for oil filling.

We recommend that the unit be supplied assembled.

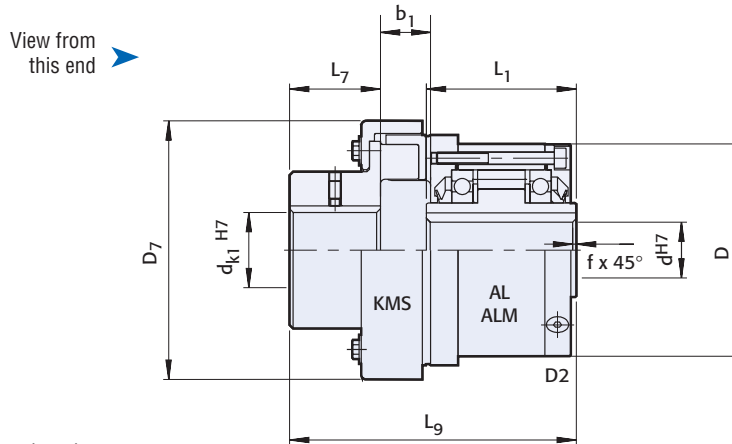
If grease lubrication is used, the maximum overrunning speed is reduced by 50%.

For bolt tightening torque values, see page 126.

Specifications

Model	Size	KMS	Torque Capacity lb.ft. (Nm)	Overrunning Speed Max. RPM		Hub Bore Range d _{K1} ^{H7}	Shipping Weight lb. (kg)
				Inner Race	Outer Race		
AL.. KMSD2	12	4	37 (50)	2,500	6,000	0.28 – 1.38 (7 – 35)	4.63 (2.1)
	15	6.3	58 (79)	1,900	6,000	0.47 – 1.57 (12 – 40)	5.95 (2.7)
	20	10	92 (125)	1,600	5,600	0.39 – 1.77 (10 – 45)	8.38 (3.8)
	25	10	92 (125)	1,400	4,500	0.39 – 1.77 (10 – 45)	9.70 (4.4)
	30	16	148 (200)	1,300	4,100	0.39 – 1.97 (10 – 50)	13.01 (5.9)
	35	25	231 (313)	1,100	3,800	0.59 – 2.17 (15 – 55)	17.86 (8.1)
	40	40	369 (500)	950	3,400	0.79 – 2.36 (20 – 60)	25.14 (11.4)
	45	63	582 (788)	900	3,200	0.79 – 2.76 (20 – 70)	29.33 (13.3)
	50	100	923 (1250)	850	2,800	0.98 – 2.95 (25 – 75)	42.12 (19.1)
	55	100	923 (1250)	720	2,650	0.98 – 2.95 (25 – 75)	44.98 (20.4)
	60	160	1,476 (2000)	680	2,450	1.18 – 3.15 (30 – 80)	59.76 (27.1)
	70	250	2,306 (3125)	580	2,150	1.38 – 3.54 (35 – 90)	89.08 (40.4)
	80	400	3,690 (5000)	480	1,900	1.77 – 3.94 (45 – 100)	125.69 (57)
	90	630	5,812 (7875)	380	1,700	2.36 – 4.72 (60 – 120)	191.84 (87)
	100	1000	9,225 (12500)	350	1,450	2.95 – 5.51 (75 – 140)	288.86 (131)
120	1600	14,760 (20000)	250	1,250	3.54 – 6.30 (90 – 160)	432.18 (196)	
150	ON REQUEST						
200	"						
250	"						
ALM.. KMSD2	25	16	148 (200)	1,100	2,800	0.79 – 1.57 (20 – 40)	9.70 (4.4)
	30	25	231 (313)	1,000	2,500	0.79 – 1.97 (20 – 50)	13.01 (5.9)
	35	40	369 (500)	900	2,400	0.98 – 2.56 (25 – 65)	17.86 (8.1)

Note: For clutch bore (d^{H7}) and keyseat information see page 83. When ordering, please specify direction of rotation.



Dimensions inches (mm)

Model	Size	d ^{H7}	D	L ₁	D ₇	d _{K1} ^{H7}	L ₇	L ₉	b ₁
AL.. KMSD2	12	0.47 (12)	2.44 (62)	1.65 (42)	3.07 (78)	.28 – 1.38 (7 – 35)	1.57 (40)	3.94 (100)	0.71 (18)
	15	0.59 (15)	2.68 (68)	2.05 (52)	3.54 (90)	.47 – 1.57 (12 – 40)	1.77 (45)	4.57 (116)	0.77 (20)
	20	0.79 (20)	2.95 (75)	2.24 (57)	4.49 (114)	.39 – 1.77 (10 – 45)	1.89 (48)	4.86 (123.5)	0.67 (17)
	25	0.98 (25)	3.54 (90)	2.36 (60)	4.49 (114)	.39 – 1.77 (10 – 45)	1.89 (48)	4.98 (126.5)	0.67 (17)
	30	1.18 (30)	3.94 (100)	2.68 (68)	5.00 (127)	.39 – 1.97 (10 – 50)	2.05 (52)	5.51 (140)	0.75 (19)
	35	1.38 (35)	4.33 (110)	2.91 (74)	5.63 (143)	.59 – 2.17 (15 – 55)	2.24 (57)	6.10 (155)	0.87 (22)
	40	1.57 (40)	4.92 (125)	3.39 (86)	6.22 (158)	.79 – 2.36 (20 – 60)	2.40 (61)	6.81 (173)	1.02 (26)
	45	1.77 (45)	5.12 (130)	3.39 (86)	7.13 (181)	.79 – 2.76 (20 – 70)	2.64 (67)	7.32 (186)	1.18 (30)
	50	1.97 (50)	5.91 (150)	3.62 (92)	7.95 (202)	.98 – 2.95 (25 – 75)	2.95 (75)	8.21 (208.5)	1.38 (35)
	55	2.17 (55)	6.30 (160)	4.09 (104)	7.95 (202)	.98 – 2.95 (25 – 75)	2.95 (75)	8.52 (216.5)	1.38 (35)
	60	2.36 (60)	6.69 (170)	4.49 (114)	9.06 (230)	1.18 – 3.15 (30 – 80)	3.23 (82)	9.57 (243)	1.61 (41)
	70	2.76 (70)	7.48 (190)	5.28 (134)	10.12 (257)	1.38 – 3.54 (35 – 90)	3.50 (89)	10.93 (277.5)	1.85 (47)
	80	3.15 (80)	8.27 (210)	5.67 (144)	11.57 (294)	1.77 – 3.94 (45 – 100)	3.82 (97)	12.01 (305)	2.20 (56)
	90	3.54 (90)	9.06 (230)	6.22 (158)	13.07 (332)	2.36 – 4.72 (60 – 120)	4.57 (116)	13.64 (346.5)	2.52 (64)
	100	3.94 (100)	10.63 (270)	7.17 (182)	15.04 (382)	2.95 – 5.51 (75 – 140)	5.51 (140)	15.20 (386)	2.95 (75)
	120	4.72 (120)	12.20 (310)	7.95 (202)	17.01 (432)	3.54 – 6.30 (90 – 160)	6.30 (160)	18.03 (458)	2.95 (75)
	150	5.91 (150)	ON REQUEST						
200	7.87 (200)	"							
250	9.84 (250)	"							
ALM.. KMSD2	25	0.98 (25)	3.54 (90)	2.36 (60)	4.54 (113)	.47 – 1.97 (12 – 50)	2.05 (52)	5.22 (132.5)	0.75 (19)
	30	1.18 (30)	3.94 (100)	2.68 (68)	4.92 (125)	.59 – 2.17 (15 – 55)	2.24 (57)	5.91 (150)	0.87 (22)
	35	1.38 (35)	4.33 (110)	2.91 (74)	5.51 (140)	.71 – 2.36 (18 – 60)	2.40 (61)	6.42 (163)	1.02 (26)