



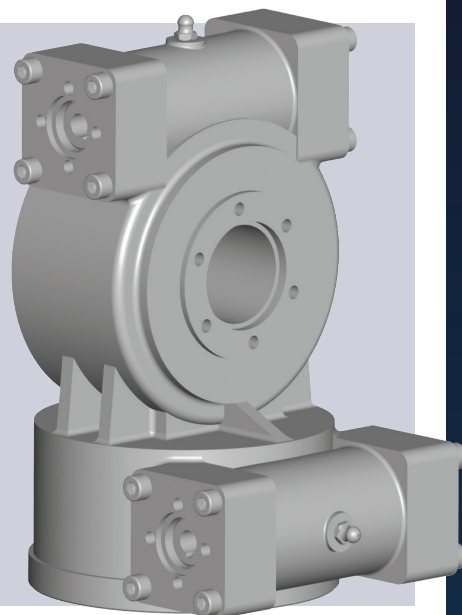
Kinematics

Your Smart Torque Technology Partner

Dual Axis KDE Series

The most common application for the **Kinematics KDE series** of dual-axis slewing drives are dual-axis solar trackers, such as heliostats and concentrated photovoltaics (CPV), and satellite or radar dishes. Other applications include robotic arm positioners and stage equipment. Our base model sizes deliver performance ranges from 2,100Nm to 81,000Nm of holding torque, 650Nm to 32,020Nm of output torque, 500Nm to 152,380Nm of tilting torque, and gearbox reduction ratios of 30:1 up to 156,600:1 on each axis. The drives can be mounted horizontally, vertically, or on a combination of multiple axes.

Contact one of our representatives today to see how our products fit into your application!



Contact

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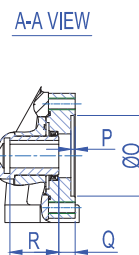
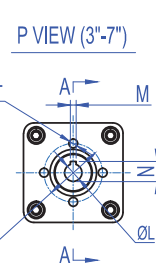
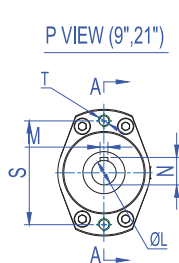
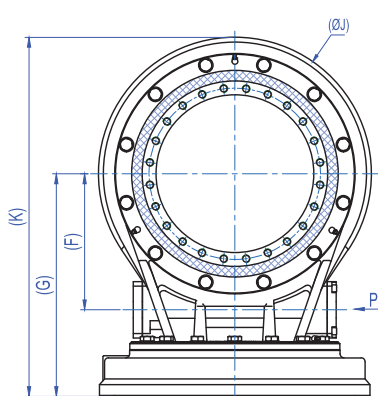
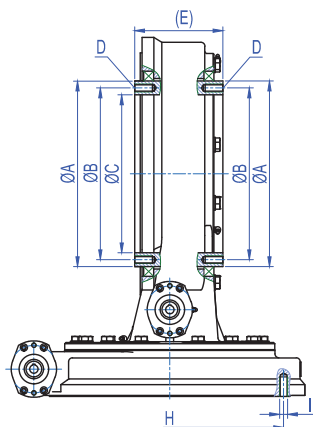
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DATA	Slewing Drive Ratio	Efficiency	Nom. Output Torque	MAX. Output Torque	Holding Torque	Tilting Moment Torque	Static Radial Rating	Static Axial Rating	Dynamic Radial Rating	Dynamic Axial Rating	Self-locking	Torsion Stiffness	Bending Stiffness	Weight
TYPE			N.m	N.m	N.m	N.m	kN	kN	kN	kN		Nm/mRad	Nm/mRad	kg
			ft.lbs	ft.lbs	ft.lbs	ft.lbs	lbs	lbs	lbs	lbs				
KDE3	62	30%	650	899	2,100	500	8.30	14.70	4.20	4.80	YES	167	80	28
			479	663	1,549	369	1,865.8	3,304.6	944.2	1,079.0				
KDE5	62	30%	849	1,274	5,500	2,750	13.55	33.95	7.00	8.23		192	356	35
			626	940	4,056	2,028	3,046.0	7,632.0	1,573.6	1,850.1				
KDE7	73	30%	2,010	4,020	10,062	5,400	53.28	133.20	27.91	31.90		580	1,400	78
			1,482	2,965	7,420	3,982	11,977.3	29,943.4	6,274.2	7,171.1				
KDE9	61	43%	4,480	8,960	39,083	25,000	134.89	337.44	70.86	80.99		825	1,678	165
			3,304	6,608	28,822	18,437	30,323.3	75,856.5	15,929.3	18,206.6				
KDE21	125	43%	16,010	32,020	81,000	152,380	639.38	1,598.45	335.67	383.63		4,500	12,000	650
			11,807	23,614	59,735	112,375	143,732.6	359,331.6	75,458.6	86,240.0				



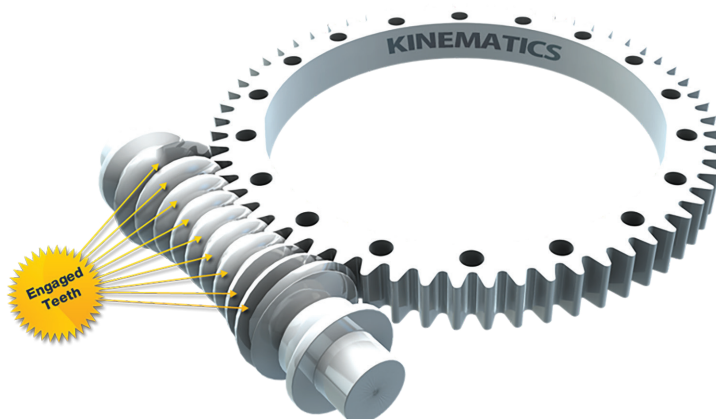
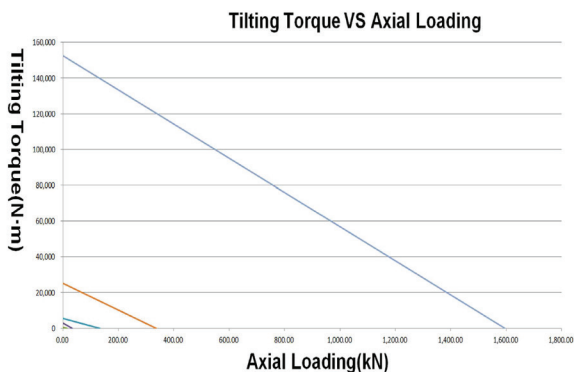
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Mounting Dimension Sheet

TYPE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
KDE3	mm	85	70	50	6xM8 DP.16 EOS	93.0	80.0	167	70	6xM8 DP.16 EOS	155	290	12	4	13.8	32	3.5	8	25	40
	inch	3.35	2.76	1.97		3.66	3.15	6.57	2.76		6.10	11.42	0.47	0.16	0.54	1.26	0.14	0.31	0.98	1.57
KDE5	mm	95	72	54	8xM12 DP.16 EOS	120.5	93.7	225	88	8xM12 DP.18 EOS	192	364	12	4	13.8	32	3.5	8	25	40
	inch	3.74	2.83	2.13		4.74	3.69	8.86	3.46		7.56	14.33	0.47	0.16	0.54	1.26	0.14	0.31	0.98	1.57
KDE7	mm	140	118	96	8xM12 DP.24 EOS	127.0	133.2	275	203.2	8xM12 DP.18 EOS	266	411	12	4	13.8	32	3.5	8	25	40
	inch	5.51	4.65	3.78		5.00	5.24	10.83	8.00		10.47	16.18	0.47	0.16	0.54	1.26	0.14	0.31	0.98	1.57
KDE9	mm	180	150	30	8xM16 DP.25 EOS	278.0	174.0	414	270	16xM16 DP.32 EOS	351	587	25	8	28.3	82.5	4.5	21	45	106.4
	inch	7.09	5.91	1.18		10.94	6.85	16.30	10.63		13.82	23.11	0.98	0.31	1.11	3.25	0.18	0.83	1.77	4.19
KDE21	mm	470	435	400	24xM20 DP.40 EOS	254.0	345.0	598	584.2	24xM20 DP.50 EOS	708	955	25	8	28.3	82.5	4.5	21	45	106.4
	inch	19.50	17.13	15.75		10.00	13.58	23.54	23.00		27.87	37.6	0.98	0.31	1.11	3.25	0.18	0.83	1.77	4.19

Contact KMI to find out how this patented technology can help your equipment perform at its best.

Patented Hourglass Design
Withstands four to nine times greater survivability load



Kinematics Manufacturing (KMI) manufacturer of hourglass slewing drives, slewing rings, pinions and right-angle rotators.