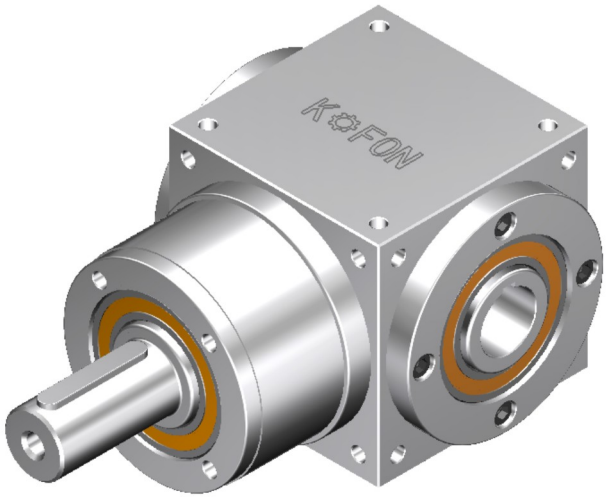
KTH

SPRIAL BEVEL GEARBOX



Gearbox Options

- Output shaft key way, without key be available.
- Synthetic Lubrication Grease, low temperature grease available.
- Adaptor flange solution available.

Gearbox Features

- High precision spiral bevel gearing and powerful stability.
- High efficiency and low noise control.
- Long constant operation service lifetime.
- Optimized inertia moment.
- Limited temperature rise.
- Flexible input mounting dimensions.
- Maintenance free for whole service lifetime.

KTH Technical Data

Model		KT070H	KT090H	KT110H	KT140H	KT170H	KT210H	KT240H	Ratio	Stage
Rated Output Torque	Nm	45	78	150	360	585	1300	2150	1	1
		42	68	150	330	544	1220	2010	2	
		33	54	120	270	450	1020	1650	3	
		28	48	100	224	376	860	1410	4	
		25	40	85	196	320	740	1200	5	
		20	35	65	150	260	600	950	6	
Fault stop torque[1]	Nm	Double rated output torque							1~6	1
Backlash	arcmin	≤6	≤6	≤6	≤6	≤6	≤8	≤10	1~6	1
Output maximum radial force[2]	N	1100	1700	2700	4800	6600	11500	16000	1~6	1
Output maximum axial force[2]	N	550	850	1350	2400	3300	5750	8500	1~6	1
Enter maximum radial force[2]	N	950	1450	2100	2700	3800	7800	9600	1~6	1
Input maximum axial force[2]	N	425	725	1050	1350	1900	3900	4800	1~6	1
Average life span	hr	20000							1~6	1
Efficiency	%	≥98%							1~6	1
Noise[3]	dB(A)	≤70	≤74	≤76	≤77	≤78	≤80	≤82	1~6	1
Max imput speed[4]	min^{-1}	3500	3500	3000	3000	2500	2500	2000	1~6	1
Rated input speed[4]	min^{-1}	2500	2500	2000	2000	1500	1500	1500	1~6	1
Moment of inertia	$kgcm^2$	1.3	3.16	7.7	23.57	58.99	195.4	369.34	1	1
		1.11	2.7	6.31	17.75	45.35	140.24	249.74	2	1
		1.09	2.66	6.17	17.18	44.01	134.95	237.71	3	1
		1.09	2.65	6.13	17.06	43.7	133.58	234.72	4	1
		0.91	2.52	5.8	16.08	40.25	130.2	230.52	5	1
		0.82	2.4	5.2	15.32	38.56	120.53	220.45	6	1
Weight	kg	4.2	6.8	11.6	19.8	34.8	66.2	98.1	L系列	
		4.1	6.7	11.5	19.5	34.2	65.1	96.6	L1系列	
		3.9	6.4	11	18.1	31.6	60	89.4	H系列	
		4.2	6.9	11.4	19.6	33.7	63.3	97.9	C系列	

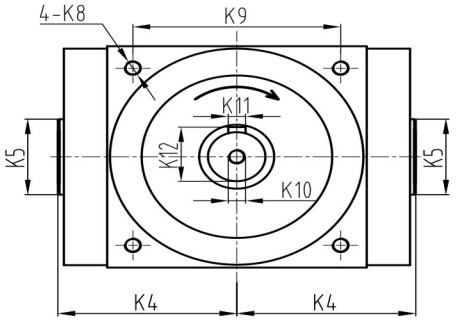
1 the subscript “1” maximum acceleration torque is equal to the failure to stop torque 50%

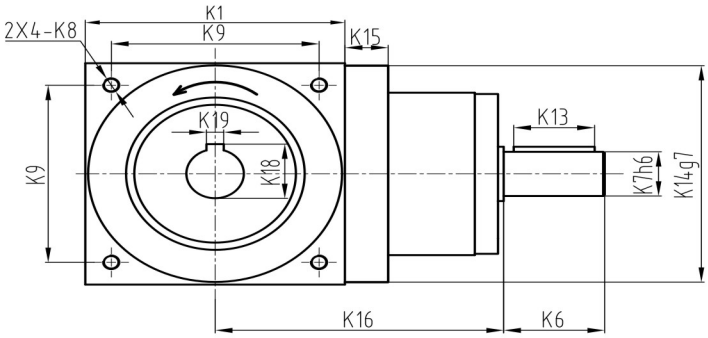
1 the subscript “2” at the speed of 100RPM, acting on the center axis (L/2) permissible radial force and axial force

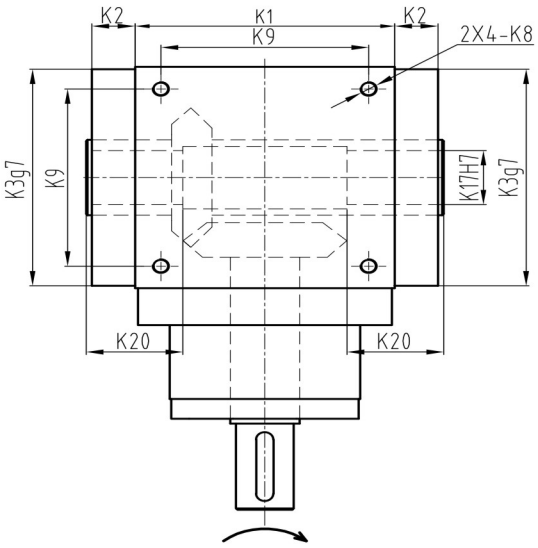
1 the subscript “3” noise in n1=3000min^{-1}, measured at 1 m

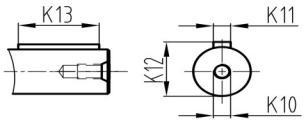
1 the subscript “4” the environment temperature is 20 DEG C

KTH Dimensions









Size	KT070H	KT090H	KT110H	KT140H	KT170H	KT210H	KT240H
K1	75	90	110	140	170	210	240
K2	14.5	15	15	15	15	20	25
K3	ϕ73	ϕ88	ϕ108	ϕ135	ϕ165	ϕ205	ϕ235
K4	54	62	72	87	102	127	147
K5	ϕ22	ϕ28	ϕ33	ϕ47	ϕ55	ϕ75	ϕ85
K6	30	35	40	50	60	75	85
K7	ϕ10	ϕ16	ϕ18	ϕ32	ϕ40	ϕ50	ϕ55
K8	M6X8	M6X15	M8X10	M10X13	M12X20	M16X25	M16X35
K9	60	72	88	110	134	170	190
K10	M5X12.5	M5X12.5	M8X19	M12X28	M16X36	M16X36	M16X36
K11	5	6	6	10	12	14	16
K12	18	20.5	24.5	35	43	53.5	59
K13	25	28	32	45	50	70	80
K14	73	88	108	135	165	205	235
K15	15	15	15	15	15	20	25
K16	90	100	115	130	155	195	225
K17	ϕ14	ϕ18	ϕ22	ϕ32	ϕ40	ϕ50	ϕ55
K18	5	6	6	10	12	14	16
K19	16.3	20.8	24.8	35.3	43.3	53.8	59.3
K20	32	35	40	50	55	65	80

Order Instructions

Order Code: KT – FL – 4 – S1 – MOTOR

KT

Product series: KT

FL

Deceleration type:
FL、FL1、FR1、FH、FC、L、L1、R1、H、C

4

Gearbox Ratio

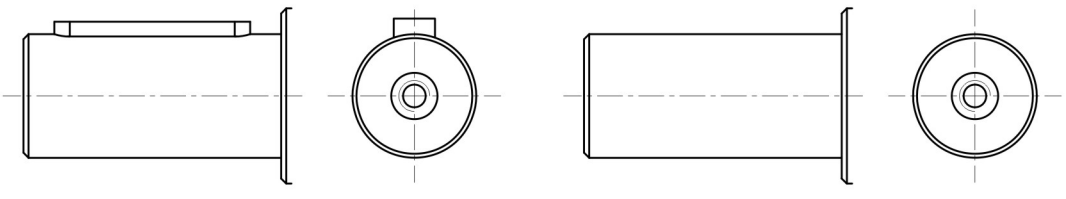
S1

Shaft output form of the S1: Smooth Output Shaft, not specified for the keyed shaft

Motor

Motor adapter, not specified for the standard size

Output Shaft Key Option



S1: Output shaft with key

S2: Output shaft without key

Ordering Example: KPL120-2-15-S1-P2-ABB-8M1230

If there is any question, please ask our engineering sales for solutions.

KOFON

www.kofon-motion.com

Solution Memo

