Performance Table / Technical Data

KS TWINGEAR

Size		KS10	KS20	KS30	KS35	KS40	KS50	KS60	KS70
Output torque									
Ratio	i	15 / 20 / 25 / 30							
Nominal torque	T_{2N} [Nm]	150	250	480	950	1750	3200	5000	7500
Maximum acceleration ④	T_{2B} [Nm]	225	375	720	1425	2625	4800	7500	11250
EMERGENCY STOP torque ③	T_{2Not} [Nm]	300	500	960	1900	3500	6400	10000	15000
Ratio	i	40 / 50							
Nominal torque	T_{2N} [Nm]	110	200	360	700	1300	3200	5000	7500
Maximum acceleration ④	T_{2B} [Nm]	165	300	540	1050	1950	4800	7500	11250
EMERGENCY STOP torque ③	T_{2Not} [Nm]	220	400	720	1400	2600	6400	10000	15000
Ratio	i	60 / 75							
Nominal torque	T_{2N} [Nm]	75	125	250	475	900	2550	4050	5100
Maximum acceleration ④	T_{2B} [Nm]	110	185	375	710	1350	3825	6075	7650
EMERGENCY STOP torque ③	T_{2Not} [Nm]	150	250	500	950	1800	5100	8100	10200

Input speed									
Ratio	i	15 / 20 / 25 / 30 /40 / 50 / 60 / 75							
Maximum speed ⑤	n_{1max} [min^{-1}]	8000	7000	6000	5000	4000	4000	3500	3500
Nominal speed	n_{1N} [min^{-1}]	auf Anfrage							
Standard backlash ①	j_t [arcmin]	< 6	< 6	< 6	< 5	< 5	< 4	< 4	< 4
Permissible radial force ②	F_{2Rmax} [N]	4900	7200	10000	15000	18000	25000	30000	35000
Permissible axial force ②	F_{2Amax} [N]	2450	3600	5000	7500	9000	12500	15000	17500
Running noise i=15-50 ⑥	L_{pA} [dB(A)]	< 69	< 69	< 71	< 71	< 73	< 73	< 75	< 75
Running noise i=60-75 ⑥	L_{pA} [dB(A)]	< 67	< 67	< 69	< 69	< 71	< 71	< 73	< 73
Weight, approx.	m [kg]	10	16	27	52	75	115	190	300
Efficiency at max load	η [%]	>92 (>90 at i= 60/75)							
Service life	Lh [h]	>15 000							
Lubrication + permissible operating temperature		Please see "Service and Maintenance" page 20/21							
Paint		Primer RAL 9005 – Matt black							

① At the output, assuming 2 % load

② Point of force application center of output shaft at an output speed of 400 min^{-1}

③ Max 1000 times during the service life of the gearbox

④ Max 1000 cycles per hour, please consider reducing factors in other cases

⑤ Observe permissible operating temperatures

⑥ At n_1=1500 min^{-1} and partial load