

Planetary Spur Round Frame Gearbox



Specification	Unit	Stage	Ratio	PSR060	PSR080	PSR090	PSR120	PSR160
Rated output torque T_{2N}	Nm	1	3	18	40	50	125	290
			4	36	90	110	230	460
			5	40	110	125	260	550
			6	20	40	50	90	340
			7	20	40	50	90	340
			8	12	22	32	70	210
			10	12	22	32	70	210
		2	12	36	90	110	230	460
			15	40	110	125	260	550
			16	36	90	110	230	460
			20	40	110	125	260	550
			25	40	110	125	260	550
			28	36	90	110	230	460
			30	18	40	50	125	290
			35	40	110	125	260	550
			40	36	90	110	230	460
			50	40	110	125	260	550
			60	20	40	50	90	340
			70	20	40	50	90	340
			80	12	22	32	70	210
100	12	22	32	70	210			
Motor shaft size	mm	1,2	3-100	6-14	14-19	14-19	16-24	19-35
Maximum output torque	Nm	1,2	3-100	Double rated output torque				
Rated input speed $\eta 1N$	rpm	1,2	3-100	4000	3500	3500	3500	2500
Backlash	arcmin	1	3-10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
		2	12-100	≤ 12	≤ 12	≤ 12	≤ 12	≤ 12
Torsional rigidity	Nm/arcmin	1,2	3-100	1.8	4.7	4.85	11	55
Allowable radial force F_{2aB}	N	1,2	3-100	220	400	430	1000	4500
Allowable axial force F_{2aB}	N	1,2	3-100	240	420	450	1240	4800
Lifespan	hr	1,2	3-100	10000				
Efficiency	%	1	3-10	$\geq 96\%$				
		2	12-100	$\geq 93\%$				
Weight	kg	1	3-10	1.7	4.4	4.4	12	26.5
		2	12-100	1.9	5	5	14	29.6
Working temperature	$^{\circ}C$	1,2	3-100	(-10 $^{\circ}C$ + 80 $^{\circ}C$)				
IP Grade		1,2	3-100	IP64				
Lubricating				Synthetic lubricating grease				
Installation direction		1,2	3-100	In any direction				
Noise level ($\eta 1=3000rpm, off$ load)	dB(A)	1,2	3-100	≤ 61	≤ 63	≤ 63	≤ 68	≤ 75