

# PRE SERIES Inline Planetary

## PRE o62 1-Stage Specifications

Frame Size	062								
Ratio	Unit	Note	3	4	5	8	9	10	
Nominal Output Torque	[Nm]	*1	35	50	50	50	35	35	
Maximum Output Torque	[Nm]	*2	55	79	79	76	55	55	
Emergency Stop Torque	[Nm]	*3	80	90	90	90	80	80	
Nominal Input Speed	[rpm]	*4	3000						
Maximum Input Speed	[rpm]	*5	6000						
No Load Running Torque	[Nm]	*6	0.15						
Maximum Radial Load	[N]	*7	550						
Maximum Axial Load	[N]	*8	680						
Moment of Inertia ( $\leq \varnothing 8$ )	[kgcm <sup>2</sup> ]	--	-	-	-	-	-	-	
Moment of Inertia ( $\leq \varnothing 14$ )	[kgcm <sup>2</sup> ]	--	0.19	0.16	0.15	0.14	0.14	0.14	
Moment of Inertia ( $\leq \varnothing 19$ )	[kgcm <sup>2</sup> ]	--	0.40	0.37	0.36	0.35	0.35	0.35	
Efficiency	[%]	*9	95						
Torsional Rigidity	[Nm/arcmin]	*10	2.3						
Maximum Torsional Backlash	[Arc-min]	--	$\leq 8$						
Noise Level	dB [A]	*11	$\leq 58$						
Protection Class	--	--	IP54						
Ambient Temperature	[°C]	--	0-40						
Permitted Housing Temperature	[°C]	--	90						
Weight	[kg]	*12	1.0						

- \*1) Continuous rating at 100% duty cycle, S1 operation, measured at 100rpm output and 30°C
- \*2) Permitted for 30,000 output shaft revolutions. Note operation factor on page 469
- \*3) The maximum torque allowed under a stress situation. Permitted 1,000 times during service life
- \*4) The average input speed at nominal torque. Maintain housing temperature below permitted value
- \*5) The maximum intermittent input speed
- \*6) Torque at no load applied to the input shaft at nominal input speed
- \*7) The maximum radial load that the gearbox can accept
- \*8) The maximum axial load that the gearbox can accept
- \*9) The efficiency at the nominal output torque ratings
- \*10) This does not include lost motion
- \*11) Contact NIDEC-SHIMPO for the testing conditions and environment
- \*12) Weight may vary slightly between models

## PRE o62 2-Stage Specifications

Frame Size	062											
Ratio	Unit	Note	12	15	16	20	25	32	40	50	80	100
Nominal Output Torque	[Nm]	*1	35	35	50	50	50	50	50	46	46	35
Maximum Output Torque	[Nm]	*2	46	46	66	66	66	66	66	66	66	46
Emergency Stop Torque	[Nm]	*3	80	80	90	90	90	90	90	90	90	80
Nominal Input Speed	[rpm]	*4	3000									
Maximum Input Speed	[rpm]	*5	6000									
No Load Running Torque	[Nm]	*6	0.04									
Maximum Radial Load	[N]	*7	550									
Maximum Axial Load	[N]	*8	680									
Moment of Inertia ( $\leq \varnothing 8$ )	[kgcm <sup>2</sup> ]	--	0.08	0.07	0.07	0.06	0.06	0.07	0.06	0.06	0.06	0.06
Moment of Inertia ( $\leq \varnothing 14$ )	[kgcm <sup>2</sup> ]	--	0.16	0.14	0.14	0.14	0.14	0.14	0.13	0.14	0.14	0.14
Moment of Inertia ( $\leq \varnothing 19$ )	[kgcm <sup>2</sup> ]	--	-	-	-	-	-	-	-	-	-	-
Efficiency	[%]	*9	90									
Torsional Rigidity	[Nm/arcmin]	*10	2.3									
Maximum Torsional Backlash	[Arc-min]	--	$\leq 10$									
Noise Level	dB [A]	*11	$\leq 58$									
Protection Class	--	--	IP54									
Ambient Temperature	[°C]	--	0-40									
Permitted Housing Temperature	[°C]	--	90									
Weight	[kg]	*12	1.5									

- \*1) Continuous rating at 100% duty cycle, S1 operation, measured at 100rpm output and 30°C
- \*2) Permitted for 30,000 output shaft revolutions. Note operation factor on page 469
- \*3) The maximum torque allowed under a stress situation. Permitted 1,000 times during service life
- \*4) The average input speed at nominal torque. Maintain housing temperature below permitted value
- \*5) The maximum intermittent input speed
- \*6) Torque at no load applied to the input shaft at nominal input speed
- \*7) The maximum radial load that the gearbox can accept
- \*8) The maximum axial load that the gearbox can accept
- \*9) The efficiency at the nominal output torque ratings
- \*10) This does not include lost motion
- \*11) Contact NIDEC-SHIMPO for the testing conditions and environment
- \*12) Weight may vary slightly between models