

PRF 062 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 ²]	--	-	-	-	-	-	-
Moment of Inertia ($\leq \varnothing 14$)	[kgcm ²]	--	0.19	0.16	0.15	0.14	0.14	0.14
Moment of Inertia ($\leq \varnothing 19$)	[kgcm ²]	--	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]	--	≤ 8					
Noise Level	dB [A]	*11	≤ 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 Drive Technology for the testing conditions and environment

*12 Weight may vary slightly between models

PRF 062 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 ²]	--	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 ²]	--	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 ²]	--	-	-	-	-	-	-	-	-	-	-
Efficiency	[%]	*9	90									
Torsional Rigidity	[Nm/arcmin]	*10	2.3									
Maximum Torsional Backlash	[Arc-min]	--	≤ 10									
Noise Level	dB [A]	*11	≤ 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 Drive Technology for the testing conditions and environment

*12 Weight may vary slightly between models

VRSF

PRE

PRF

VRL

VRB

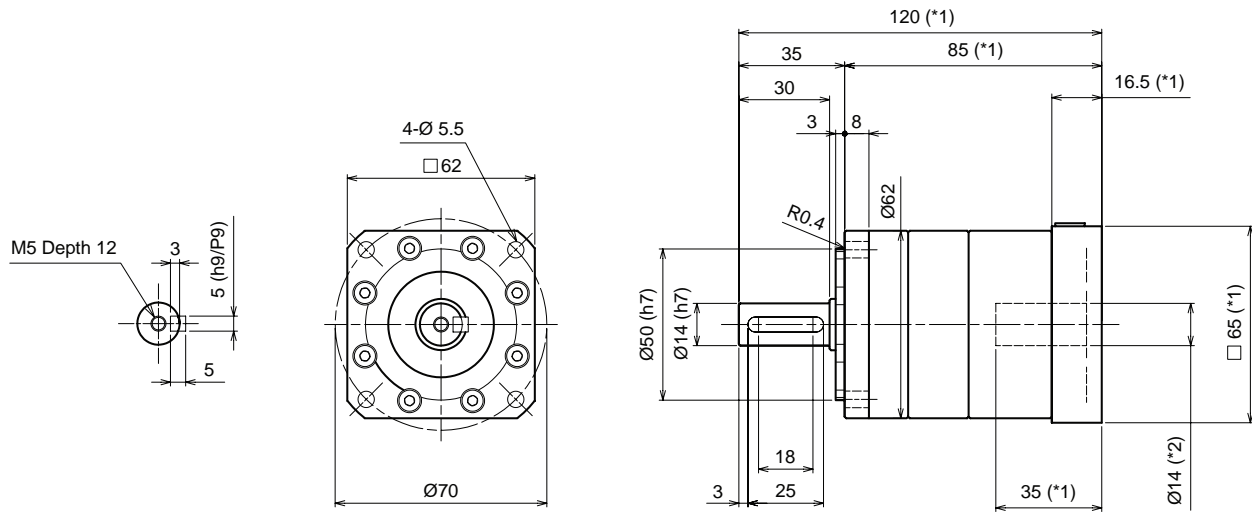
VRS

VRT

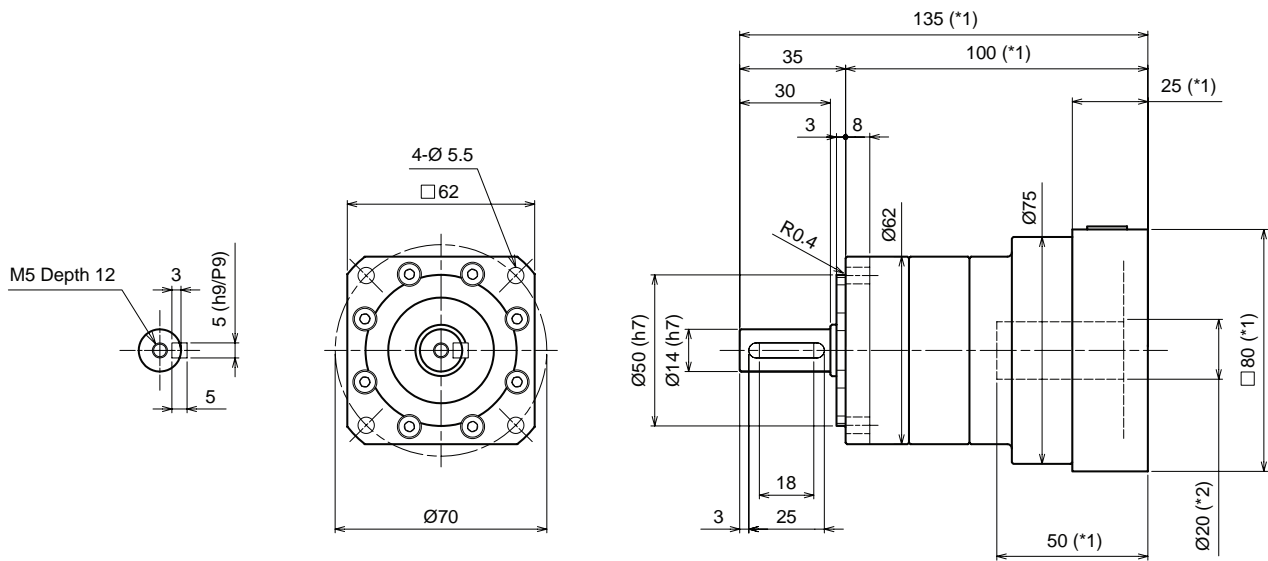
PLANETARY Inline Gear Reducers

PRF 062 1-Stage Dimensions

Input bore size $\leq \phi 14$ mm



Input bore size $\leq \phi 19$ mm

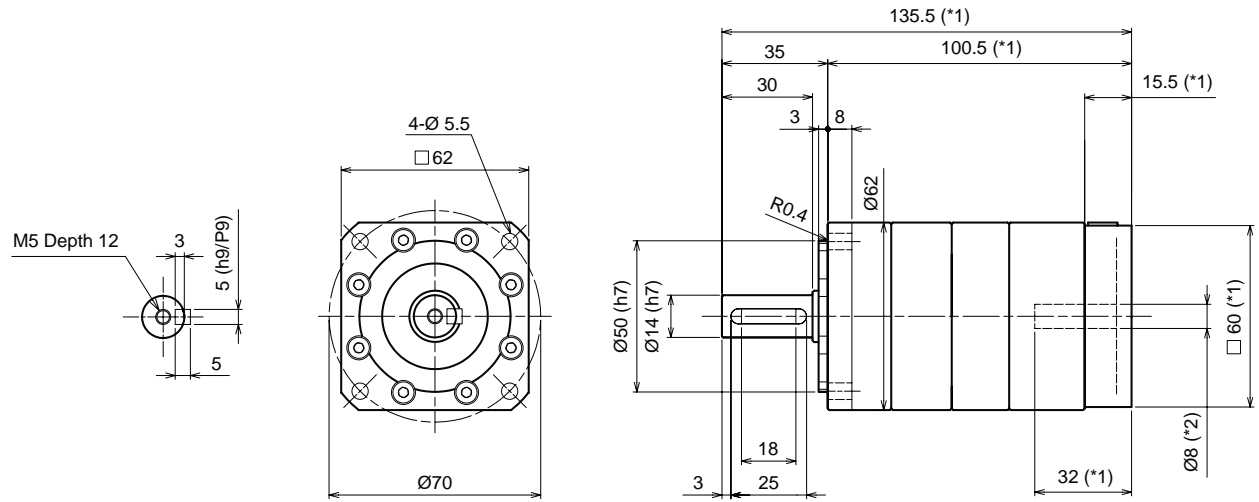


*1 Length will vary depending on motor

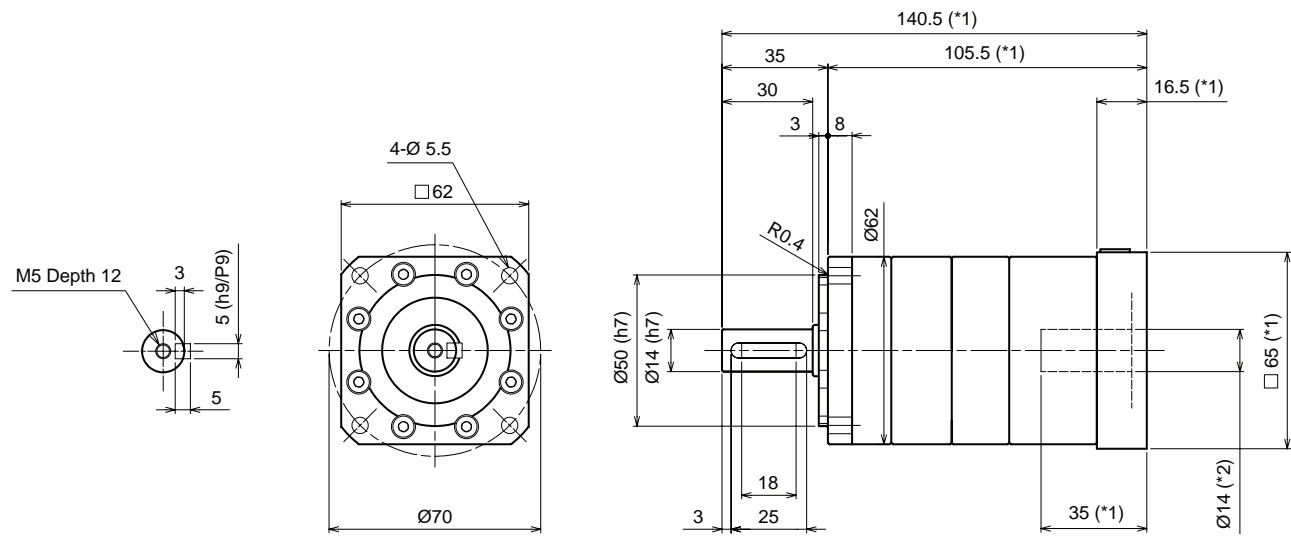
*2 Bushing will be inserted to adapt to motor shaft

PRF 062 2-Stage Dimensions

Input bore size $\leq \varnothing 8$ mm



Input bore size $\leq \varnothing 14$ mm



*1 Length will vary depending on motor

*2 Bushing will be inserted to adapt to motor shaft

VRSF

PRE

PRF

VR

VRB

VRS

VRT