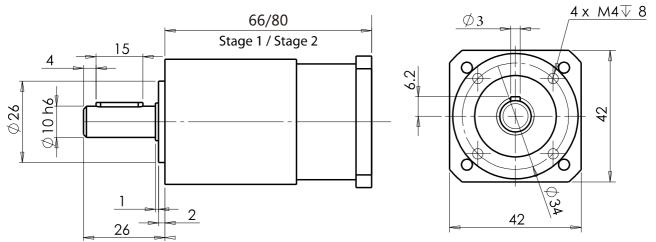




Planetary Gearbox for NEMA17 Motor

Vacuum Version



IP54

Vacuum planetary Gearbox Dimensional Drawing with attached motor on request.

Shaft Axial Load (N)	30
Shaft Radial Load (N)	45
Lifetime	5000-hour Continuous Work
Full Load Efficiency	90%

Vacuum Gearbox available Gear Ratios

Ratio	3, 5, 8, 10	15, 25, 40	80, 120, 200
Stage	1	2	3
Rated Holding Torque (Nm)	5	7.5	10
Max Holding Torque (Nm)	10	15	20
Rated Rotational Speed (rpm)	2000	2000	2000
Max Rotational Speed (rpm)	3500	3500	3500
Gear Backlash (arc-min)	20	30	40
Gear Inertia (kg m^2 10^-4)	0.031	0.019	0.029
Approx Weight (kg)	0.35	0.44	0.54

Possible Vacuum Motors for Planetary Gearbox:

- Vacuum rated Stepper Motor

Protection

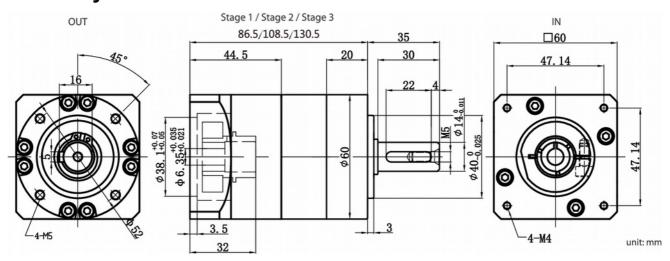
- Vacuum rated Servomotor Motor with Vacuum Rated Resolver Feedback

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Planetary Gearbox for NEMA23 Motor

Vacuum Version



Vacuum planetary Gearbox Dimensional Drawing with attached motor on request.

Shaft Axial Load (N)	60
Shaft Radial Load (N)	80
Lifetime	5000-hour Continuous Work
Full Load Efficiency	90%
Protection	IP54

Vacuum Gearbox available Gear Ratios

Ratio	3, 5, 8, 10	15, 25, 40	80, 120, 200
Stage	1	2	3
Rated Holding Torque (Nm)	10	18	25
Max Holding Torque (Nm)	20	36	50
Rated Rotational Speed (rpm)	2000	2000	2000
Max Rotational Speed (rpm)	3500	3500	3500
Gear Backlash (arc-min)	20	30	40
Gear Inertia (kg m^2 10^-4)	0.13	0.064	0.064
Approx Weight (kg)	0.92	1.13	1.32

Possible Vacuum Motors for Planetary Gearbox:

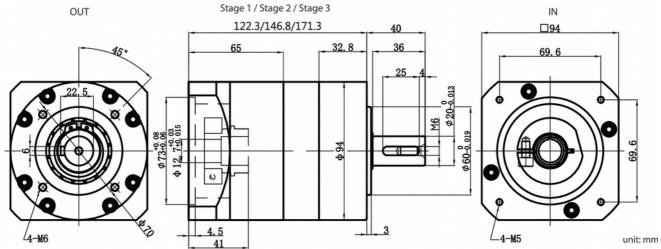
- Vacuum rated Stepper Motor
- Vacuum rated Servomotor Motor with Vacuum Rated Resolver Feedback

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Planetary Gearbox for NEMA34 Motor

Vacuum Version



Vacuum planetary Gearbox Dimensional Drawing with attached motor on request.

Shaft Axial Load (N)	110
Shaft Radial Load (N)	150
Lifetime	5000-hour Continuous Work
Full Load Efficiency	90.00%
Protection	IP54

Ratio	3, 5, 8, 10	15, 25, 40	80, 120, 200
Stage	1	2	3
Rated Holding Torque (Nm)	30	50	50
Max Holding Torque (Nm)	60	100	100
Rated Rotational Speed (rpm)	2000	2000	2000
Max Rotational Speed (rpm)	3500	3500	3500
Gear Backlash (arc-min)	20	30	40
Gear Inertia (kg m^2 10^-4')	0.77	0.72	0.49
Approx Weight (kg)	2.2	2.7	3.2

Vacuum Classes

	Ambient Temperature	Vacuum Class	Temperature
Class Code	Celsia	(Pa)	Sensor
Vaccum Class 01	-20+85	=	Optional
Vaccum Class 02	-40+85	-	Optional
Vaccum Class 03	-60+85	10^1	Optional
Vaccum Class 04	-20+150	10^3	Optional
Vaccum Class 05	-20+200	10^7	Optional
Vaccum Class 06	-100+40	10^7	Optional
Vaccum Class 07	-200+40	10^7	Optional
Vaccum Class 08	Customized	Customized	Optional

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