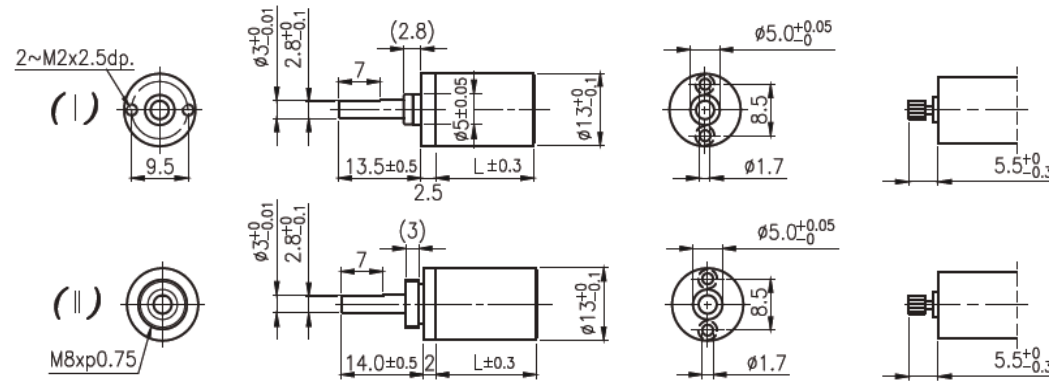




Planetary Gearbox

Diameter:13mm



Gearbox Number	Reduction Ratio	Rated Torque	Max. Momentary tolerance torque	Efficiency	Radial play of shaft	Axial play of shaft	L	Weight(I)	Weight(II)
		kgcm	kgcm	%	mm	mm	mm	g	g
P 13A0004-11100	4	0.8	2.4	85	≤0.08	≤0.2	10.3	10.7	11.2
P 13A0016-12100	16	1.2	3.6	75	≤0.08	≤0.2	13.6	12.8	13.3
P 13A0064-13100	64	1.6	4.8	65	≤0.08	≤0.2	16.9	14.9	15.4
P 13A0256-14100	256	1.8	5.4	55	≤0.08	≤0.2	20.2	17	17.5
P 13A1024-15100	1024	2	6	45	≤0.08	≤0.2	23.5	19.1	19.6
P 13A4096-15100	4096	2	6	40	≤0.08	≤0.2	26.8	21.2	21.7



Planetary Gearbox

Diameter:16mm

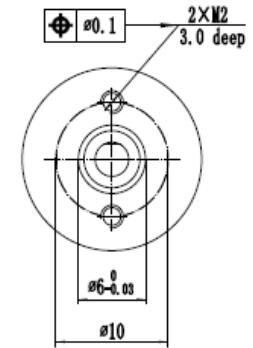
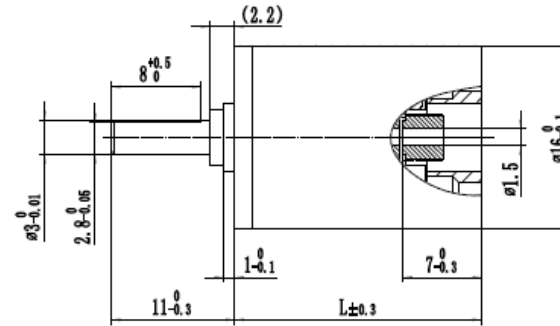
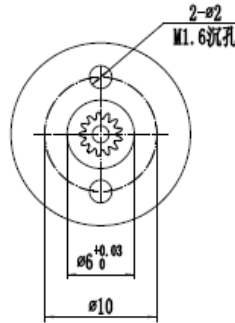
Material of housing: stainless steel

Material of gears: steel

Material of mounting flange: aluminium alloy

Max. axial load: 8N

Max. radial load:10N



Gearbox Number	Reduction Ratio	Rated Torque	Max. Momentary tolerance torque	Efficiency	No-load Backlash	Radial play of shaft	Axial play of shaft	L	Weight
		kgcm	kgcm	%		mm	mm	mm	g
P16H0003-51000	3.79	2	3	90	≤1°	≤0.1mm	≤0.2mm	14.80	15
P16H0004-51000	4.31	2	3	90	≤1°	≤0.1mm	≤0.2mm	14.80	15
P16H0005-51000	5.08	2	3	90	≤1°	≤0.1mm	≤0.2mm	14.80	15
P16H0014-52000	14.36	2	3	81	≤1.5°	≤0.1mm	≤0.2mm	18.40	20
P16H0016-52000	16.34	2	3	81	≤1.5°	≤0.1mm	≤0.2mm	18.40	20
P16H0018-52000	18.06	2	3	81	≤1.5°	≤0.1mm	≤0.2mm	18.40	20
P16H0021-52000	21.89	2	3	82	≤1.5°	≤0.1mm	≤0.2mm	18.40	20
P16H0054-53000	54.42	3	4.5	73	≤1.5°	≤0.1mm	≤0.2mm	22.00	25
P16H0070-53000	70.48	3	4.5	73	≤1.5°	≤0.1mm	≤0.2mm	22.00	25
P16H0080-53000	80.20	3	4.5	73	≤1.5°	≤0.1mm	≤0.2mm	22.00	25
P16H0094-53000	94.42	3	4.5	73	≤1.5°	≤0.1mm	≤0.2mm	22.00	25
P16H0111-53000	111.16	3	4.5	73	≤1.5°	≤0.1mm	≤0.2mm	22.00	25
P16H0130-53000	130.86	3	4.5	73	≤1.5°	≤0.1mm	≤0.2mm	22.00	25
P16H0206-54000	206.21	3	4.5	65	≤2°	≤0.1mm	≤0.2mm	25.60	30
P16H0267-54000	267.06	3	4.5	65	≤2°	≤0.1mm	≤0.2mm	25.60	30
P16H0303-54000	303.92	3	4.5	65	≤2°	≤0.1mm	≤0.2mm	25.60	30
P16H0407-54000	407.18	3	4.5	65	≤2°	≤0.1mm	≤0.2mm	25.60	30
P16H0479-54000	479.36	3	4.5	65	≤2°	≤0.1mm	≤0.2mm	25.60	30
P16H0664-54000	664.36	3	4.5	65	≤2°	≤0.1mm	≤0.2mm	25.60	30
P16H1012-55000	1012.03	3.5	5	59	≤2°	≤0.1mm	≤0.2mm	29.20	35
P16H1151-55000	1151.72	3.5	5	59	≤2°	≤0.1mm	≤0.2mm	29.20	35
P16H1310-55000	1310.68	3.5	5	59	≤2°	≤0.1mm	≤0.2mm	29.20	35
P16H1491-55000	1491.58	3.5	5	59	≤2°	≤0.1mm	≤0.2mm	29.20	35

P16H1596-55000	1596.20	3.5	5	59	≤2°	≤0.1mm	≤0.2mm	29.20	35
P16H2067-55000	2067.23	3.5	5	59	≤2°	≤0.1mm	≤0.2mm	29.20	35
P16H2433-55000	2433.66	3.5	5	59	≤2°	≤0.1mm	≤0.2mm	29.20	35



Planetary Gearbox

Diameter:22mm

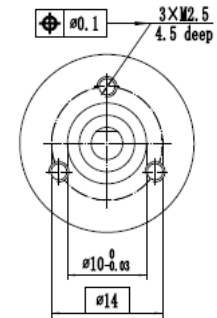
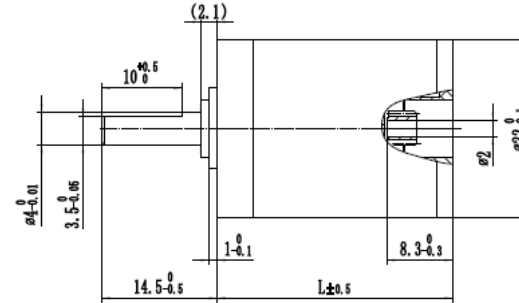
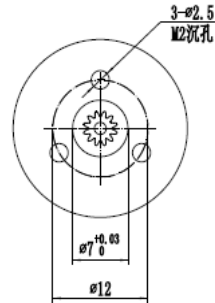
Material of housing: stainless steel

Material of gears: steel

Material of mounting flange: aluminium alloy

Max. axial load: 20N

Max. radial load:20N



Gearbox Number	Reduction Ratio	Rated Torque	Max. Momentary tolerance torque	Efficiency	No-load Backlash	Radial play of shaft	Axial play of shaft	L	Weight
		kgcm	kgcm	%		mm	mm		
P22H0003-51000	3.57	2	3	90	≤1.2°	≤0.04mm	≤0.04mm	22.10	30
P22H0004-51000	4.6	2	3	90	≤1.2°	≤0.04mm	≤0.04mm	22.10	30
P22H0012-52000	12.76	3	5	81	≤1.5°	≤0.04mm	≤0.04mm	25.90	35
P22H0016-52000	16.43	3	5	81	≤1.5°	≤0.04mm	≤0.04mm	25.90	35
P22H0021-52000	21.16	3	5	81	≤1.5°	≤0.04mm	≤0.04mm	25.90	35
P22H0045-53000	45.55	5	8	73	≤1.8°	≤0.04mm	≤0.04mm	29.70	46
P22H0058-53000	58.67	5	8	73	≤1.8°	≤0.04mm	≤0.04mm	29.70	46
P22H0075-53000	75.57	5	8	73	≤1.8°	≤0.04mm	≤0.04mm	29.70	46
P22H0097-53000	97.34	5	8	73	≤1.8°	≤0.04mm	≤0.04mm	29.70	46
P22H0162-54000	162.69	5	8	65	≤1.8°	≤0.04mm	≤0.04mm	33.50	55
P22H0209-54000	209.55	5	8	65	≤1.8°	≤0.04mm	≤0.04mm	33.50	55
P22H0269-54000	269.9	5	8	65	≤1.8°	≤0.04mm	≤0.04mm	33.50	55
P22H0347-54000	347.63	5	8	65	≤1.8°	≤0.04mm	≤0.04mm	33.50	55
P22H0447-54000	447.75	5	8	65	≤1.8°	≤0.04mm	≤0.04mm	33.50	55
P22H0581-55000	581.05	5	8	59	≤1.8°	≤0.04mm	≤0.04mm	37.30	55
P22H0748-55000	748.39	5	8	59	≤1.8°	≤0.04mm	≤0.04mm	37.30	55
P22H0963-55000	963.92	5	8	59	≤1.8°	≤0.04mm	≤0.04mm	37.30	55
P22H1241-55000	1241.53	5	8	59	≤1.8°	≤0.04mm	≤0.04mm	37.30	55
P22H1599-55000	1599.09	5	8	59	≤1.8°	≤0.04mm	≤0.04mm	37.30	55
P22H2059-55000	2059.63	5	8	59	≤1.8°	≤0.04mm	≤0.04mm	37.30	55



Planetary Gearbox

Diameter:22mm

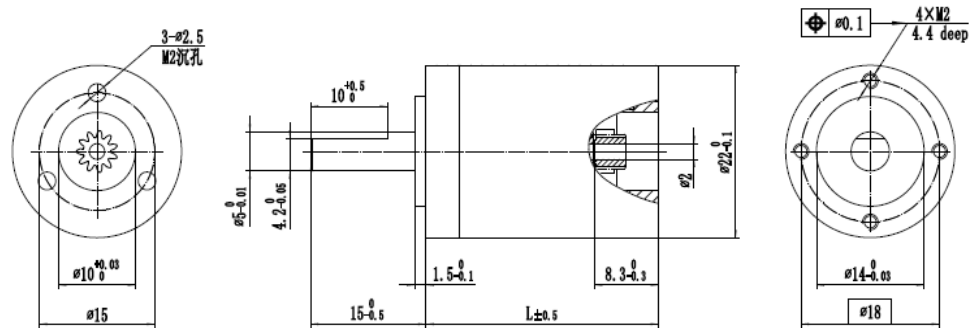
Material of housing: stainless steel

Material of gears: steel

Material of mounting flange: aluminium alloy

Max. axial load: 10N

Max. radial load:10N



Gearbox Number	Reduction Ratio	Rated Torque	Max. Momentary tolerance torque	Efficiency	No-load Backlash	Radial play of shaft	Axial play of shaft	L
		kgcm	kgcm	%		mm	mm	mm
P22J0003-51000	3.71	5	10	90	$\leq 0.8^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	20.30
P22J0004-51000	4.29	5	10	90	$\leq 0.8^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	20.30
P22J0010-52000	10.89	10	20	81	$\leq 1.2^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	24.40
P22J0012-52000	12.23	10	20	81	$\leq 1.2^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	24.40
P22J0013-52000	13.73	10	20	81	$\leq 1.2^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	24.40
P22J0014-52000	14.14	10	20	81	$\leq 1.2^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	24.40
P22J0015-52000	15.88	10	20	81	$\leq 1.2^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	24.40
P22J0018-52000	18.37	10	20	81	$\leq 1.2^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	24.40
P22J0019-52000	19.20	10	20	81	$\leq 1.2^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	24.40
P22J0022-52000	22.21	10	20	81	$\leq 1.2^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	24.40
P22J0026-52000	26.85	10	20	81	$\leq 1.2^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	24.40
P22J0035-53000	35.94	20	40	73	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	30.20
P22J0040-53000	40.36	20	40	73	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	30.20
P22J0045-53000	45.32	20	40	73	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	30.20
P22J0046-53000	46.67	20	40	73	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	30.20
P22J0050-53000	50.89	20	40	73	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	30.20
P22J0052-53000	52.41	20	40	73	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	30.20
P22J0058-53000	58.86	20	40	73	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	30.20
P22J0060-53000	60.61	20	40	73	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	30.20
P22J0068-53000	68.07	20	40	73	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	30.20
P22J0071-53000	71.17	20	40	73	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	30.20
P22J0078-53000	78.72	20	40	73	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	30.20
P22J0118-54000	118.59	20	40	65	$\leq 1.5^\circ$	$\leq 0.01\text{mm}$	$\leq 0.01\text{mm}$	34.30

P22J0133-54000	133.18	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0149-54000	149.56	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0154-54000	154.02	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0167-54000	167.95	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0172-54000	172.96	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0188-54000	188.61	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0194-54000	194.23	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0200-54000	200.02	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0218-54000	218.12	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0224-54000	224.62	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0252-54000	252.25	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0259-54000	259.77	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0291-54000	291.72	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0337-54000	337.36	20	40	65	≤1.5°	≤0.01mm	≤0.01mm	34.30
P22J0391-55000	391.35	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0439-55000	439.49	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0493-55000	493.54	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0508-55000	508.25	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0544-55000	544.25	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0622-55000	622.42	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0640-55000	640.97	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0660-55000	660.07	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0698-55000	698.97	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0719-55000	719.80	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0741-55000	741.25	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0808-55000	808.33	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0832-55000	832.42	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0857-55000	857.23	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0934-55000	934.81	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J0962-55000	962.67	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J1113-55000	1113.29	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40
P22J1250-55000	1250.21	20	40	59	≤1.5°	≤0.01mm	≤0.01mm	38.40



Planetary Gearbox

Diameter:28mm

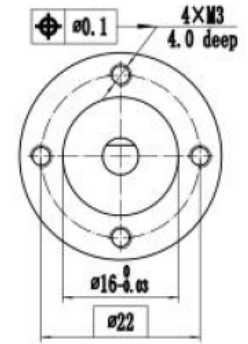
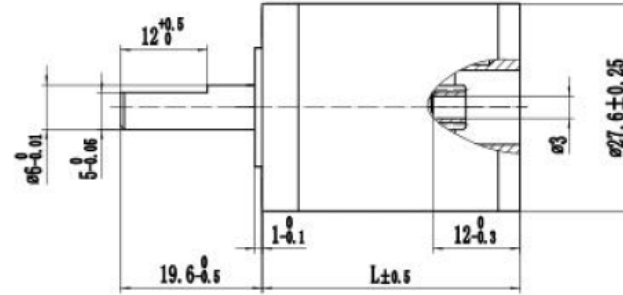
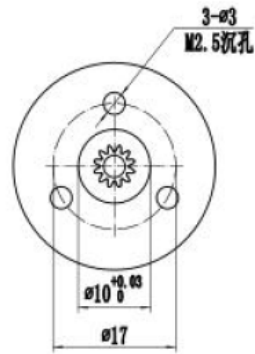
Material of housing: stainless steel

Material of gears: steel

Material of mounting flange: aluminium alloy

Max. axial load: 20N

Max. radial load:20N



Gearbox Number	Reduction Ratio	Rated Torque	Max. Momentary tolerance torque	Efficiency	No-load Backlash	Radial play of shaft	Axial play of shaft	L	Weight
		kgcm	kgcm	%		mm	mm		
P28H0003-51000	3.57	5	6	90	≤1.2°	≤0.04mm	≤0.04mm	26.70	50
P28H0004-51000	4.00	5	6	90	≤1.2°	≤0.04mm	≤0.04mm	26.70	50
P28H0004.6-51000	4.60	5	6	90	≤1.2°	≤0.04mm	≤0.04mm	26.70	50
P28H0012-52000	12.76	20	25	81	≤1.8°	≤0.04mm	≤0.04mm	31.20	65
P28H0014-52000	14.29	20	25	81	≤1.8°	≤0.04mm	≤0.04mm	31.20	65
P28H0016-52000	16.00	20	25	81	≤1.8°	≤0.04mm	≤0.04mm	31.20	65
P28H0018-52000	18.40	20	25	81	≤1.8°	≤0.04mm	≤0.04mm	31.20	65
P28H0021-52000	21.16	20	25	81	≤1.8°	≤0.04mm	≤0.04mm	31.20	65
P28H0045-53000	45.55	30	40	73	≤2°	≤0.04mm	≤0.04mm	35.70	85
P28H0051-53000	51.02	30	40	73	≤2°	≤0.04mm	≤0.04mm	35.70	85
P28H0057-53000	57.14	30	40	73	≤2°	≤0.04mm	≤0.04mm	35.70	85
P28H0058-53000	58.67	30	40	73	≤2°	≤0.04mm	≤0.04mm	35.70	85
P28H0065-53000	65.71	30	40	73	≤2°	≤0.04mm	≤0.04mm	35.70	85
P28H0075-53000	75.57	30	40	73	≤2°	≤0.04mm	≤0.04mm	35.70	85
P28H0084-53000	84.64	30	40	73	≤2°	≤0.04mm	≤0.04mm	35.70	85
P28H0097-53000	97.34	30	40	73	≤2°	≤0.04mm	≤0.04mm	35.70	85
P28H0162-54000	162.69	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0182-54000	182.22	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0204-54000	204.08	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0209-54000	209.55	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0228-54000	228.57	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0234-54000	234.69	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0256-54000	256.00	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95

P28H0262-54000	262.86	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0294-54000	294.40	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0302-54000	302.29	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0338-54000	338.56	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0347-54000	347.63	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0389-54000	389.34	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0447-54000	447.75	30	40	65	≤2°	≤0.04mm	≤0.04mm	40.20	95
P28H0581-55000	581.05	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110
P28H0650-55000	650.77	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110
P28H0728-55000	728.86	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110
P28H0748-55000	748.39	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110
P28H0816-55000	816.33	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110
P28H0838-55000	838.19	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110
P28H0914-55000	914.29	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110
P28H0938-55000	938.78	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110
P28H0963-55000	963.92	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110
P28H1024-55000	1024.00	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110
P28H1051-55000	1051.43	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110
P28H1079-55000	1079.59	30	40	60	≤2°	≤0.04mm	≤0.04mm	44.70	110



Planetary Gearbox

Diameter:32mm

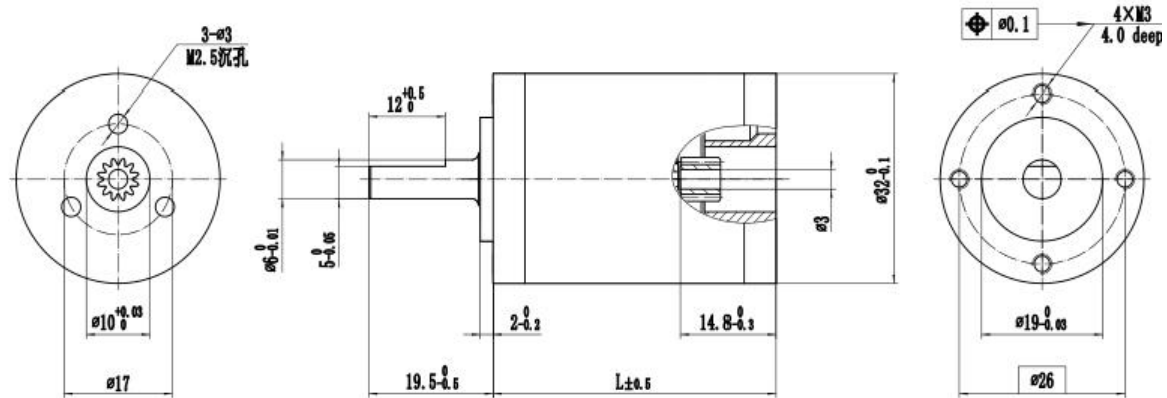
Material of housing: stainless steel

Material of gears: steel

Material of mounting flange: aluminium alloy

Max. axial load: 50N

Max. radial load:50N



Gearbox Number	Reduction Ratio	Rated Torque	Max. Momentary tolerance torque	Efficiency	No-load Backlash	Radial play of shaft	Axial play of shaft	L	Weight
		kgcm	kgcm	%		mm	mm		
P32H0003.1-51000	3.11	10	12.5	90	$\leq 1^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	31.60	125
P32H0003.7-51000	3.71	10	12.5	90	$\leq 1^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	31.60	125
P32H0004-51000	4.80	10	12.5	90	$\leq 1^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	31.60	125
P32H0005-51000	5.75	10	12.5	90	$\leq 1^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	31.60	125
P32H0009-52000	9.68	30	37.5	81	$\leq 1.2^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	37.90	147
P32H0011-52000	11.56	30	37.5	81	$\leq 1.2^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	37.90	147
P32H0013-52000	13.80	30	37.5	81	$\leq 1.2^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	37.90	147
P32H0014-52000	14.93	30	37.5	81	$\leq 1.2^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	37.90	147
P32H0017-52000	17.89	30	37.5	81	$\leq 1.2^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	37.90	147
P32H0021-52000	21.36	30	37.5	81	$\leq 1.2^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	37.90	147
P32H0023-52000	23.04	30	37.5	81	$\leq 1.2^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	37.90	147
P32H0027-52000	27.60	30	37.5	81	$\leq 1.2^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	37.90	147
P32H0033-52000	33.06	30	37.5	81	$\leq 1.2^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	37.90	147
P32H0030-53000	30.11	60	75	73	$\leq 1.5^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	44.20	169
P32H0035-53000	35.95	60	75	73	$\leq 1.5^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	44.20	169
P32H0042-53000	42.92	60	75	73	$\leq 1.5^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	44.20	169
P32H0046-53000	46.46	60	75	73	$\leq 1.5^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	44.20	169
P32H0051-53000	51.24	60	75	73	$\leq 1.5^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	44.20	169
P32H0055.4-53000	55.47	60	75	73	$\leq 1.5^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	44.20	169
P32H0055.6-53000	55.65	60	75	73	$\leq 1.5^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	44.20	169
P32H0066.2-53000	66.22	60	75	73	$\leq 1.5^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	44.20	169
P32H0066.4-53000	66.44	60	75	73	$\leq 1.5^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	44.20	169
P32H0071-53000	71.68	60	75	73	$\leq 1.5^\circ$	$\leq 0.03\text{mm}$	$\leq 0.03\text{mm}$	44.20	169

P32H0079-53000	79.33	60	75	73	≤1.5°	≤0.03mm	≤0.03mm	44.20	169
P32H0085.5-53000	85.58	60	75	73	≤1.5°	≤0.03mm	≤0.03mm	44.20	169
P32H0085.8-53000	85.87	60	75	73	≤1.5°	≤0.03mm	≤0.03mm	44.20	169
P32H0102.5-53000	102.51	60	75	73	≤1.5°	≤0.03mm	≤0.03mm	44.20	169
P32H0102.8-53000	102.86	60	75	73	≤1.5°	≤0.03mm	≤0.03mm	44.20	169
P32H0110-53000	110.59	60	75	73	≤1.5°	≤0.03mm	≤0.03mm	44.20	169
P32H0122-53000	122.80	60	75	73	≤1.5°	≤0.03mm	≤0.03mm	44.20	169
P32H0132-53000	132.48	60	75	73	≤1.5°	≤0.03mm	≤0.03mm	44.20	169
P32H0158-53000	158.70	60	75	73	≤1.5°	≤0.03mm	≤0.03mm	44.20	169
P32H0190-53000	190.11	40	50	73	≤1.5°	≤0.03mm	≤0.03mm	44.20	169
P32H0093-54000	93.68	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0111-54000	111.85	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0133-54000	133.53	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0144-54000	144.54	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0159-54000	159.42	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0172-54000	172.56	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0173-54000	173.15	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0190-54000	190.33	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0206-54000	206.02	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0206.7-54000	206.72	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0223-54000	223.00	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0245-54000	245.96	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0246-54000	246.79	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0266-54000	266.24	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0267-54000	267.14	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0294-54000	294.64	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0317-54000	317.86	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0318-54000	318.93	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0320-54000	320.01	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0344-54000	344.06	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0380-54000	380.77	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0382-54000	382.06	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0410-54000	410.77	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0412-54000	412.16	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0456-54000	456.13	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0492-54000	492.07	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0493-54000	493.73	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0530-54000	530.84	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191

P32H0589-54000	589.46	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0591-54000	591.45	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0635-54000	635.90	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0706-54000	706.12	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0761-54000	761.76	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0912-54000	912.53	60	75	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H1093-54000	1093.13	40	50	65	≤1.5°	≤0.03mm	≤0.03mm	50.50	191
P32H0291-55000	291.46	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0347-55000	347.97	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0415-55000	415.43	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0449-55000	449.68	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0495-55000	495.97	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0536-55000	536.86	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0538-55000	538.68	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0592-55000	592.13	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0640-55000	640.95	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0643-55000	643.12	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0693-55000	693.79	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0706-55000	706.93	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0765-55000	765.21	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0767-55000	767.80	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0828-55000	828.30	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0831-55000	831.10	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0913-55000	913.57	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0916-55000	916.66	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0988-55000	988.89	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0992-55000	992.24	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H0995-55000	995.59	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1070-55000	1070.42	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1094-55000	1094.38	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1180-55000	1180.62	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1184-55000	1184.61	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1188-55000	1188.62	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1277-55000	1277.95	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1282-55000	1282.28	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1414-55000	1414.28	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1419-55000	1419.06	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1525-55000	1525.72	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213

P32H1530-55000	1530.88	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1536-55000	1536.06	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1651-55000	1651.51	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1694-55000	1694.19	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1833-55000	1833.87	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1840-55000	1840.07	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1971-55000	1971.70	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H1978-55000	1978.37	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H2189-55000	2189.41	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H2196-55000	2196.82	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H2361-55000	2361.93	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H2369-55000	2369.92	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H2548-55000	2548.04	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H2622-55000	2622.73	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H2829-55000	2829.39	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H2838-55000	2838.97	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H3052-55000	3052.34	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H3389-55000	3389.38	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H3400-55000	3400.85	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H3656-55000	3656.45	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H4060-55000	4060.19	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H4380-55000	4380.12	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H5247-55000	5247.02	60	75	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213
P32H6285-55000	6285.49	40	50	59	≤1.5°	≤0.03mm	≤0.03mm	56.80	213



Planetary Gearbox

Diameter:35mm

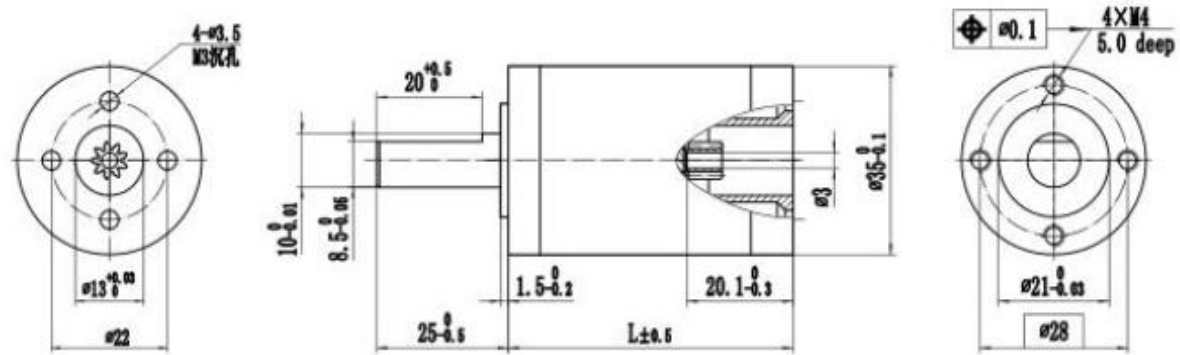
Material of housing: stainless steel

Material of gears: steel

Material of mounting flange: aluminium alloy

Max. axial load: 100N

Max. radial load:500N



Gearbox Number	Reduction Ratio	Rated Torque	Max. Momentary tolerance torque	Efficiency	No-load Backlash	Radial play of shaft	Axial play of shaft	L	Weight
		kgcm	kgcm	%		mm	mm		
P35H0003-51000	3.50	30	50	90	≤1°	≤0.02mm	≤0.02mm	40.60	210
P35H0004-51000	4.00	30	50	90	≤1°	≤0.02mm	≤0.02mm	40.60	210
P35H0004.7-51000	4.75	30	50	90	≤1°	≤0.02mm	≤0.02mm	40.60	210
P35H0006-51000	6.00	30	50	90	≤1°	≤0.02mm	≤0.02mm	40.60	210
P35H0012-52000	12.25	80	120	83	≤1.2°	≤0.02mm	≤0.02mm	47.40	245
P35H0014-52000	14.00	80	120	83	≤1.2°	≤0.02mm	≤0.02mm	47.40	245
P35H0016-52000	16.00	80	120	83	≤1.2°	≤0.02mm	≤0.02mm	47.40	245
P35H0016.6-52000	16.63	80	120	83	≤1.2°	≤0.02mm	≤0.02mm	47.40	245
P35H0019-52000	19.00	80	120	83	≤1.2°	≤0.02mm	≤0.02mm	47.40	245
P35H0021-52000	21.00	80	120	83	≤1.2°	≤0.02mm	≤0.02mm	47.40	245
P35H0022-52000	22.56	80	120	83	≤1.2°	≤0.02mm	≤0.02mm	47.40	245
P35H0024-52000	24.00	80	120	83	≤1.2°	≤0.02mm	≤0.02mm	47.40	245
P35H0028-52000	28.50	80	120	83	≤1.2°	≤0.02mm	≤0.02mm	47.40	245
P35H0036-52000	36.00	60	80	83	≤1.2°	≤0.02mm	≤0.02mm	47.40	245
P35H0042-53000	42.88	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0049-53000	49.00	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0056-53000	56.00	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0058-53000	58.19	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0064-53000	64.00	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0066-53000	66.50	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0073-53000	73.50	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0076-53000	76.00	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0078-53000	78.97	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280

P35H0084-53000	84.00	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0090-53000	90.25	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0096-53000	96.00	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0099-53000	99.75	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0107-53000	107.17	100	120	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0114-53000	114.00	160	250	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0126-53000	126.00	100	120	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0135-53000	135.38	100	120	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0144-53000	144.00	100	120	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0171-53000	171.00	100	120	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0216-53000	216.00	60	80	77	≤1.5°	≤0.02mm	≤0.02mm	54.00	280
P35H0150-54000	150.06	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0171-54000	171.50	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0196-54000	196.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0203-54000	203.66	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0224-54000	224.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0232-54000	232.75	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0256-54000	256.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0257-54000	257.25	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0266-54000	266.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0276-54000	276.39	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0294-54000	294.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0304-54000	304.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0315-54000	315.88	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0336-54000	336.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0349-54000	349.13	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0361-54000	361.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0375-54000	375.10	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0384-54000	384.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0399-54000	399.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0428-54000	428.69	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0441-54000	441.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0456-54000	456.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0473-54000	473.81	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0504-54000	504.00	100	120	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0509-54000	509.07	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0541-54000	541.50	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0576-54000	576.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315

P35H0598-54000	598.50	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0643-54000	643.03	100	120	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0684-54000	684.00	160	250	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0756-54000	756.00	100	120	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0812-54000	812.25	100	120	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0864-54000	864.00	100	120	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H1026-54000	1026.00	100	120	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H1296-54000	1296.00	60	80	72	≤1.5°	≤0.02mm	≤0.02mm	60.60	315
P35H0525-55000	525.22	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H0600-55000	600.25	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H0686-55000	686.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H0712-55000	712.80	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H0784-55000	784.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H0814-55000	814.63	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H0896-55000	896.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H0900-55000	900.38	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H0931-55000	931.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H0967-55000	967.37	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1024-55000	1024.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1029-55000	1029.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1064-55000	1064.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1105-55000	1105.56	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1176-55000	1176.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1216-55000	1216.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1221-55000	1221.94	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1263-55000	1263.50	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1312-55000	1312.86	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1344-55000	1344.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1396-55000	1396.50	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1444-55000	1444.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1500-55000	1500.41	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1536-55000	1536.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1543-55000	1543.50	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1596-55000	1596.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1658-55000	1658.34	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1714-55000	1714.75	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1764-55000	1764.00	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350
P35H1781-55000	1781.73	200	300	67	≤1.5°	≤0.02mm	≤0.02mm	67.20	350

P35H1824-55000	1824.00	200	300	67	$\leq 1.5^{\circ}$	$\leq 0.02\text{mm}$	$\leq 0.02\text{mm}$	67.20	350
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Planetary Gearbox

Diameter: 42mm

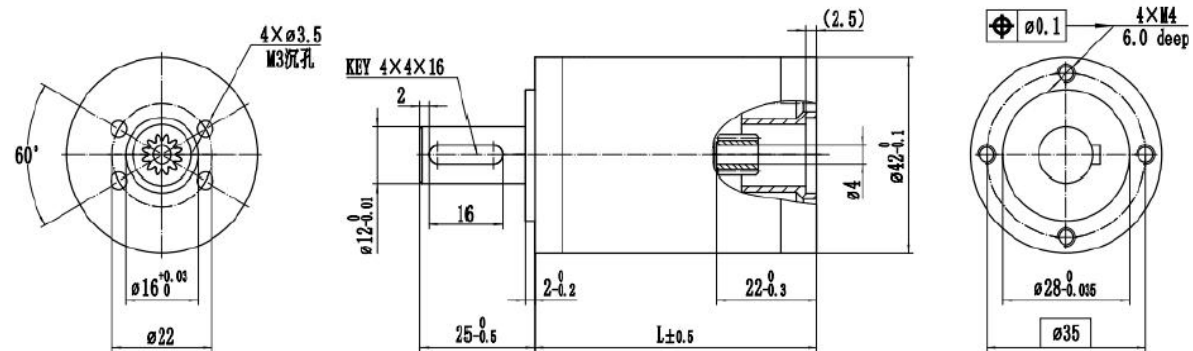
Material of housing: carbon steel

Material of gears: carbon steel

Material of mounting flange: aluminium alloy

Max. axial load: 120N

Max. radial load: 500N



Gearbox Number	Reduction Ratio	Rated Torque	Max. Momentary tolerance torque	Efficiency	Radial play of shaft	Axial play of shaft	L
		kgcm	kgcm		mm	mm	
P42H0003.1-51000	3.11	10	20	90	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	41.20
P42H0003.3-51000	3.38	10	20	90	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	41.20
P42H0003.7-51000	3.71	10	20	90	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	41.20
P42H0004-51000	4.00	10	20	90	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	41.20
P42H0004.8-51000	4.80	10	20	90	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	41.20
P42H0005-51000	5.75	10	20	90	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	41.20
P42H0007-51000	7.33	10	20	90	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	41.20
P42H0010-52000	10.50	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0011.3-52000	11.39	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0011.5-52000	11.56	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0012.5-52000	12.54	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0012.9-52000	12.96	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0013-52000	13.80	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0014-52000	14.06	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0015-52000	15.48	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0016-52000	16.20	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0017.3-52000	17.36	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0017.8-52000	17.83	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0019.2-52000	19.20	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0019.4-52000	19.41	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0023-52000	23.04	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0027-52000	27.60	100	200	83	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	53.20
P42H0032-53000	32.67	150	300	70	$\leq 0.1\text{mm}$	$\leq 0.2\text{mm}$	62.20

P42H0035-53000	35.44	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0038-53000	38.44	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0039-53000	39.00	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0042-53000	42.31	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0045-53000	45.56	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0046-53000	46.56	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0050-53000	50.14	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0051-53000	51.24	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0055-53000	55.18	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0060-53000	60.17	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0064-53000	64.80	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0066-53000	66.22	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0077-53000	77.76	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0092-53000	92.16	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0110-53000	110.25	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0115-53000	115.00	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0119-53000	119.60	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0121-53000	121.33	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0129-53000	129.75	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0131-53000	131.63	150	300	70	≤0.1mm	≤0.2mm	62.20
P42H0142-54000	142.79	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0157-54000	157.14	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0169-54000	169.23	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0172-54000	172.94	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0184-54000	184.53	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0186-54000	186.24	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0190-54000	190.33	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0203-54000	203.08	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0204-54000	204.97	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0218-54000	218.70	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0223-54000	223.49	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0245-54000	245.96	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0259-54000	259.20	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0262-54000	262.44	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0264-54000	264.88	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0285-54000	285.26	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0317-54000	317.86	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0373-54000	373.25	150	300	60	≤0.1mm	≤0.2mm	77.20

P42H0410-54000	410.77	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0442-54000	442.37	150	300	60	≤0.1mm	≤0.2mm	77.20
P42H0372-55000	372.09	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0403-55000	403.66	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0437-55000	437.89	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0481-55000	481.91	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0518-55000	518.99	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0530-55000	530.36	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0571-55000	571.16	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0583-55000	583.68	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0628-55000	628.58	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0642-55000	642.35	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0691-55000	691.77	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0706-55000	706.93	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0754-55000	754.29	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0761-55000	761.31	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0821-55000	821.04	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0830-55000	830.12	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0885-55000	885.74	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0913-55000	913.57	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0962-55000	962.74	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H0983-55000	983.85	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H1059-55000	1059.53	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H1271-55000	1271.43	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H1259-55000	1259.71	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H1386-55000	1386.35	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H1525-55000	1525.72	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H1643-55000	1643.08	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H1769-55000	1769.47	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H1791-55000	1791.59	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H1971-55000	1971.70	150	300	50	≤0.1mm	≤0.2mm	86.20
P42H2123-55000	2123.37	150	300	50	≤0.1mm	≤0.2mm	86.20