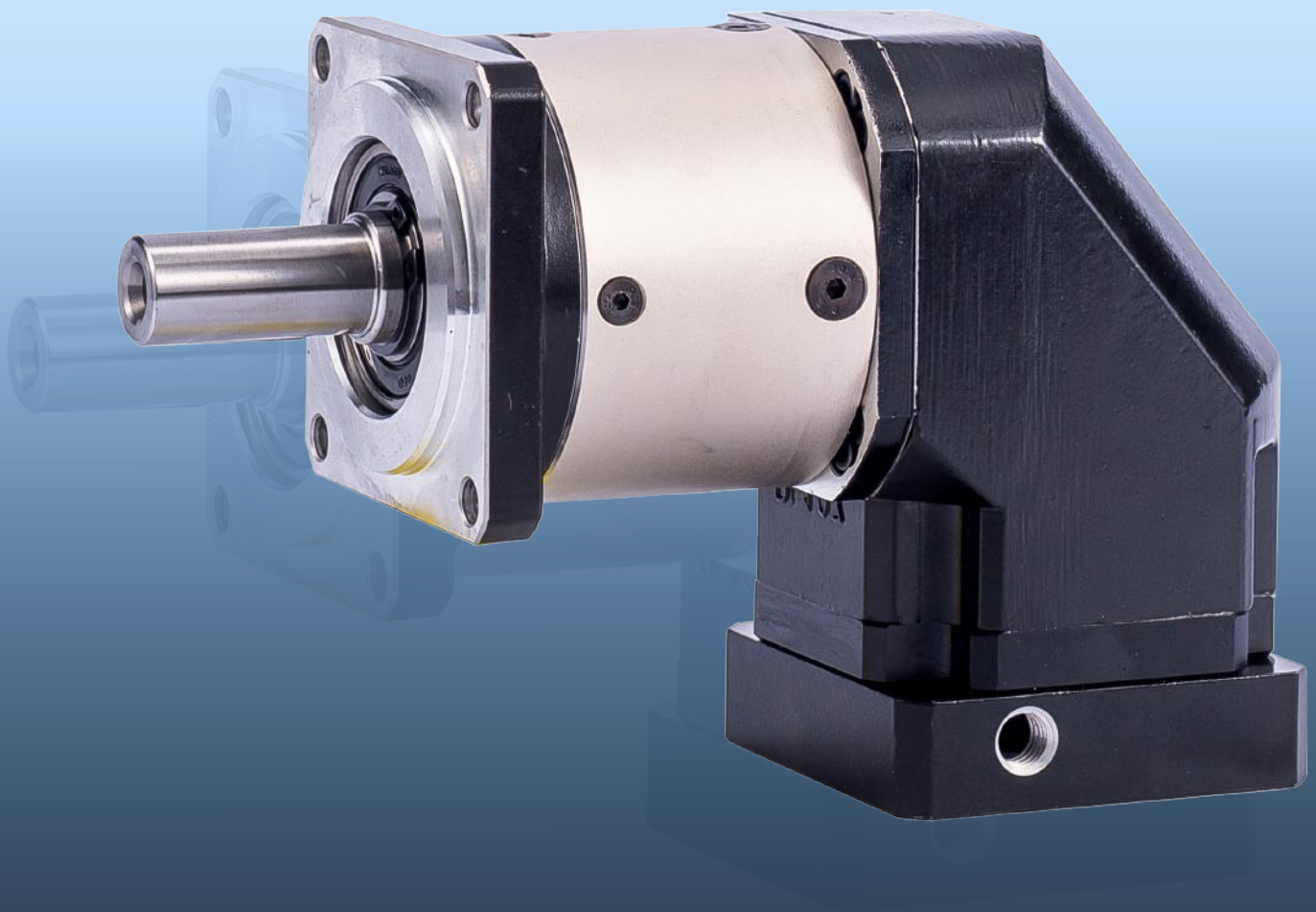
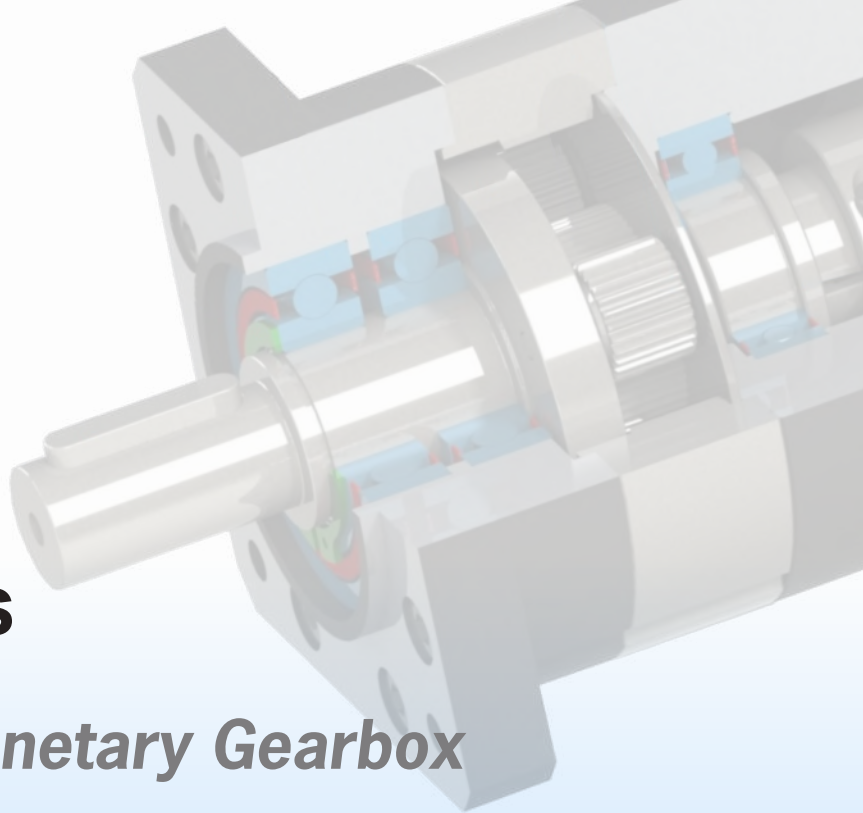


WPFR Series

*Economical Planetary Gearbox
Right Angle*



WPFR Series

Right angle planetary gearbox

ORDERING CODE

W PFR 060 010 K P2 FG

1 2 3 4 5 6 7

1 Wanshsin mark

2 PFR: Type of gearbox

3 Size: 042 060 080 115 142

4 Ratio: 3.....200

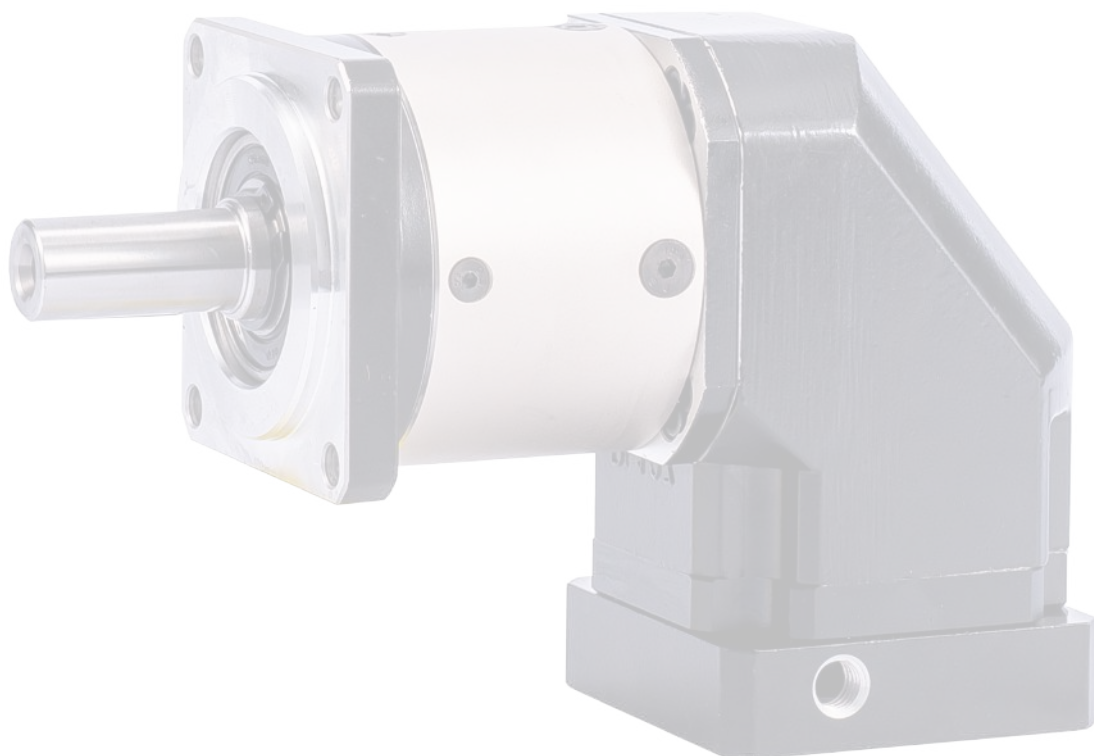
5 Output shaft: K Key
S Smooth

6 Backlash: P2 Standard

7 FG: Food grade grease (Optional)

PERFORMANCE TABLE MASS MOMENT OF INERTIA (related to input)

Specifications	Unit	Stages	Reduction ratio (i)	WPFR042	WPFR060	WPFR080	WPFR115	WPFR142
Inertia J _i	kg * cm ²	1	3 ~ 10	0.03	0.135	0.75	2.5	58
			12 ~ 14	0.03	0.09	0.45	1.3	1.9
			20	0.03	0.09	0.39	1.2	2.73
		2	15	0.015	0.09	0.45	2.4	3.3
			25 ~ 100	0.01	0.035	0.2	1.4	2.3
			120 ~ 200	0.005	0.035	0.18	1.3	2.1



WPFR Series

Right angle planetary gearbox

PERFORMANCE TABLE

Specifications	Unit	Stages	Reduction ratio (i)	WPFR042	WPFR060	WPFR080	WPFR115	WPFR142	
Rated output torque	Nm	1 (L1)	3	3	18	40	125	290	
			4	18	40	110	260	460	
			5	16	36	90	230	550	
			6	8	22	55	125	340	
			7	8	22	55	125	340	
			8	5	15	50	120	210	
			10	5	12	22	70	210	
			12	8	22	55	125	340	
			14	8	22	55	125	340	
			20	5	12	22	70	210	
		2 (L2)	15	16	36	90	230	550	
			25	16	36	90	230	550	
			30	16	36	90	230	290	
			35	16	36	90	230	550	
			40	16	36	90	230	460	
			48	18	40	110	260	460	
			50	16	36	90	230	550	
			60	16	36	90	230	340	
			70	16	36	90	230	340	
			80	16	36	90	230	460	
			90	16	36	90	230	290	
			100	16	36	90	230	550	
			120	8	22	55	125	340	
			140	8	22	55	125	340	
			160	5	15	50	120	210	
			200	5	12	22	70	210	
Acceleration torque	Nm		1,2	3 ~ 100120% of the rated torque					
Emergency stop torque	Nm		1,2	3 ~ 100200% of the rated torque					
Rated input speed	rpm		1,2	3 ~ 200	4500	4000	3500	3500	3000
Backlash P2 (standard)	arcmin		1	3 ~ 20	≤26	≤16	≤16	≤16	≤16
		2	15 ~ 200	≤28	≤18	≤18	≤18	≤18	
Torsional rigidity	Nm/arcmin	1,2	3 ~ 200	0.65	1.8	4.7	11	35	
Radial load	N	1,2	3 ~ 200	165	220	400	1000	3700	
Axial load	N	1,2	3 ~ 200	135	240	420	1240	3500	
Efficiency (%)	%	1	3 ~ 20			94%			
		2	15 ~ 200			91%			
Weight	kg	1	3 ~ 20	0.3	0.85	2	6	11	
		2	15 ~ 200	0.4	0.9	2.3	7.5	13	
Temperature	°C	1,2	3 ~ 200-10 °C + 90 °C						
Protection class		1,2	3 ~ 200IP65						
Lubrication		1,2	3 ~ 200Full synthetic/ Food grade grease						
Noise	dB(A)	1,2	3 ~ 200	≤60	≤60	≤63	≤68	≤75	

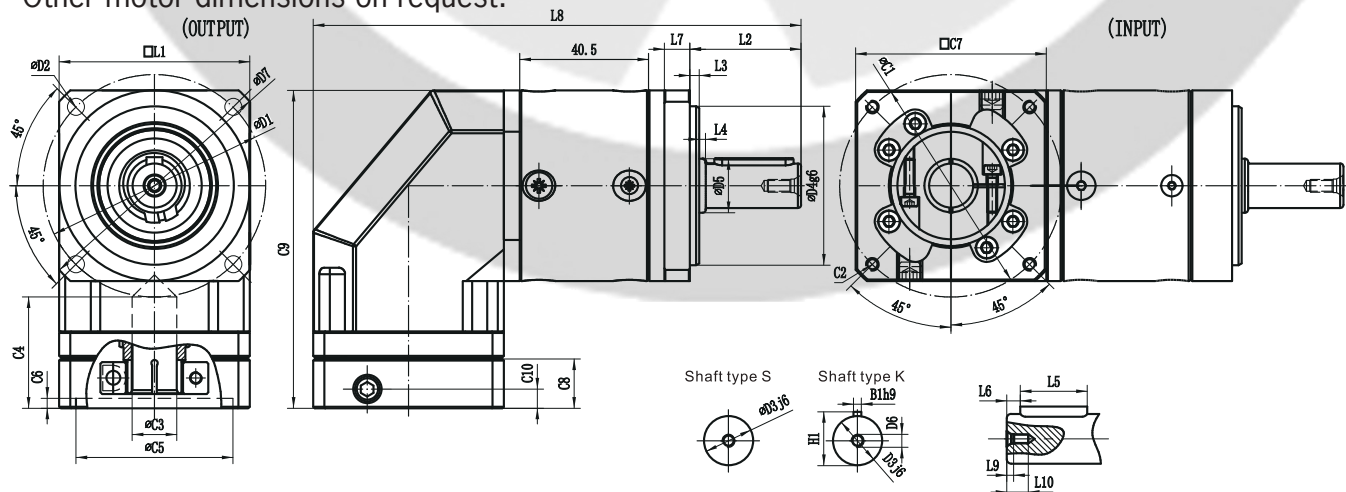
WPFR Series

Right angle planetary gearbox

DIMENSIONS: 1 – STAGE (L1)

Size	WPFR042	WPFR060	WPFR080	WPFR115	WPFR142
D1	50	70	100	130	185
D2	4.5	5.5	6.5	8.8	11
D3	10	14	20	25	40
D4	26	50	80	110	130
D5	12	17	25	35	55
D6	M4	M5	M6	M10	M12
D7	58	80	120	160	230
L1	42	60	90	120	176
L2	26	35	40	55	87
L3	2	3	3	4	5
L4	1.5	2	1	1	2
L5	16	25	25	40	65
L6	2.5	2.5	5	5	5
L7	5	8	10	14	15
L8	106	153.5	204	288	340.5
L9	–	4.8	5	7.5	9.5
L10	10	12	18	23	25
C1*	46	70	90	145	200
C2*	M3	M4	M5	M8	M12
C3*	8	6 – 14	14 – 19	16 – 24	22 – 35
C4*	26	35	54	81	81
C5*	30	50	70	110	114.3
C6*	4	5	7	14	19
C7*	42	60	80	130	180
C8*	13.5	16	30	45.5	57.5
C9*	66.5	100	137	192	246.5
C10*	8.75	9.5	14.5	27	32
B1h9	3	5	6	8	12
H1	11.2	16	22.5	28	43

*Other motor dimensions on request.



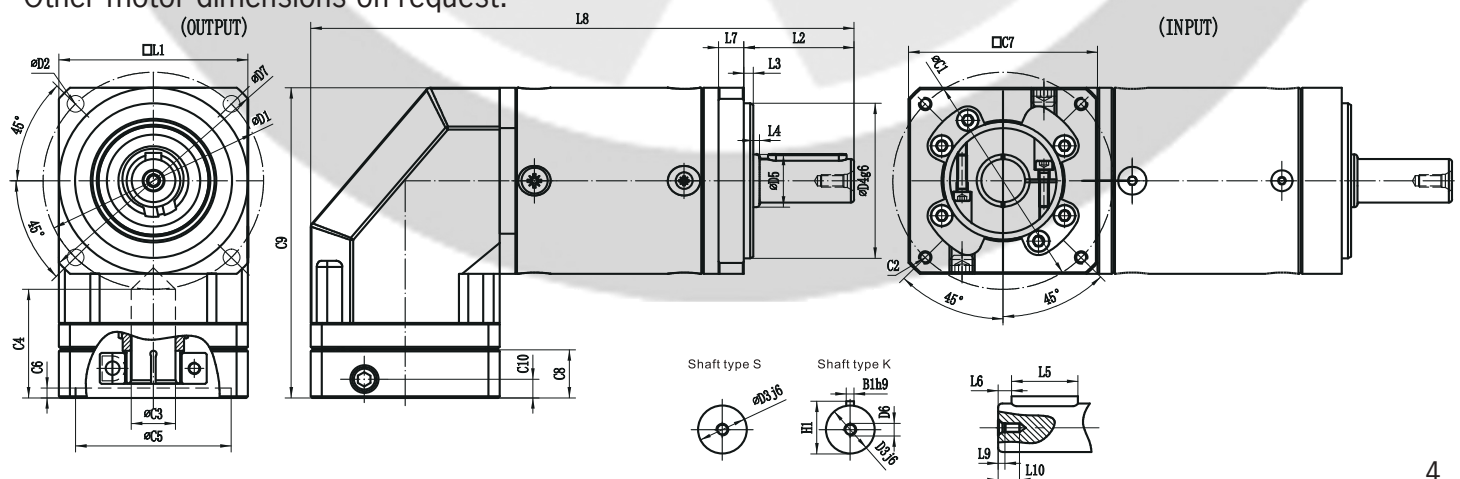
WPFR Series

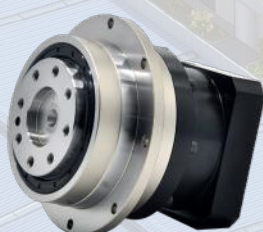
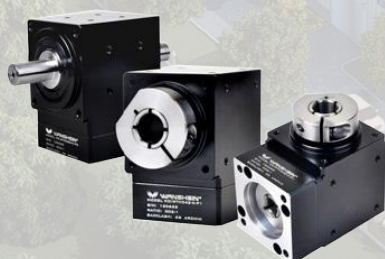
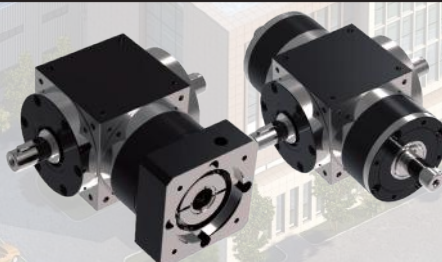
Right angle planetary gearbox

DIMENSIONS: 2 – STAGE (L2)

Size	WPFR042	WPFR060	WPFR080	WPFR115	WPFR142
D1	50	70	100	130	185
D2	4.5	5.5	M6*10	M10*16	11
D3	10	14	20	25	32
D4	26	50	80	110	130
D5	12	17	25	35	40
D6	M4	M5	M6	M10	M12
D7	58	80	120	160	230
L1	42	60	90	120	176
L2	26	35	40	55	87
L3	2	3	3	4	5
L4	1.5	2	1	1	2
L5	16	25	25	40	65
L6	2.5	2.5	4	5	5
L7	5	8	10	14	15
L8	122	172.5	228.5	288	388.5
L9	–	4.8	5	7.5	9.5
L10	10	12	18	23	25
C1*	46	70	90	145	200
C2*	M3	M4	M5	M8	M12
C3*	8	6 – 14	14 – 19	16 – 24	22 – 35
C4*	26	35	54	81	81
C5*	30	50	70	110	114.3
C6*	4	5	7	14	19
C7*	42	60	80	130	180
C8*	13.5	16	30	45.5	57.5
C9*	66.5	100	137	192	246.5
C10*	8.75	9.5	14.5	27	32
B1h9	3	5	6	8	12
H1	11.2	16	22.5	28	43

* Other motor dimensions on request.



WVRB**WAE****WAB****WVRBR****WAER****WABR****WAD****WPF****WPL****WADR****WPFR****WPLR****WR****WAT****WT**