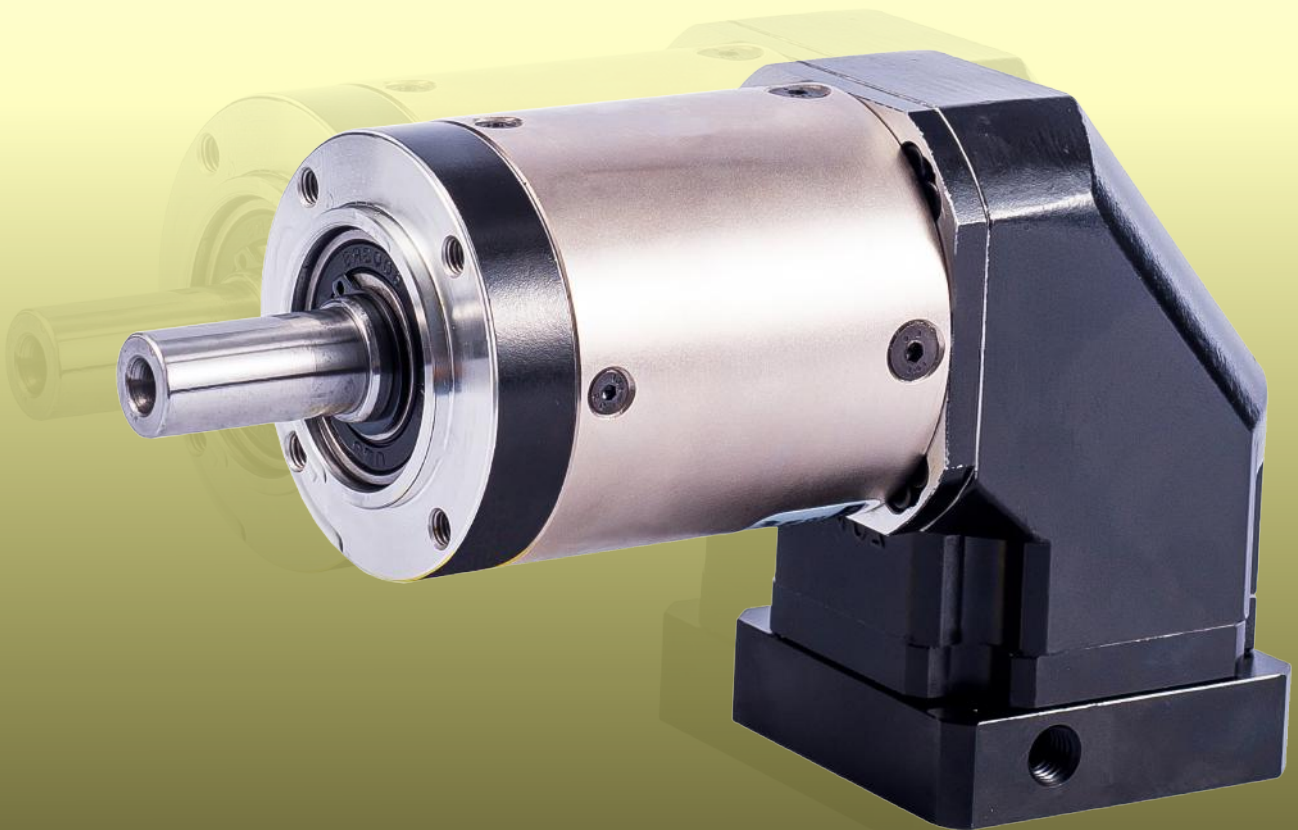




WANSIHSIN

WPLR Series

*Economical Planetary Gearbox
Right Angle*



ATB Automation
Mechanics | Motion Control

WPLR Series

Right angle planetary gearbox

ORDERING CODE

W PLR 060 010 K P2 FG

1 2 3 4 5 6 7

1 Wanshsin mark

2 PLR: Type of gearbox

3 Size: 042 060 080 120 160

4 Ratio: 3.....200

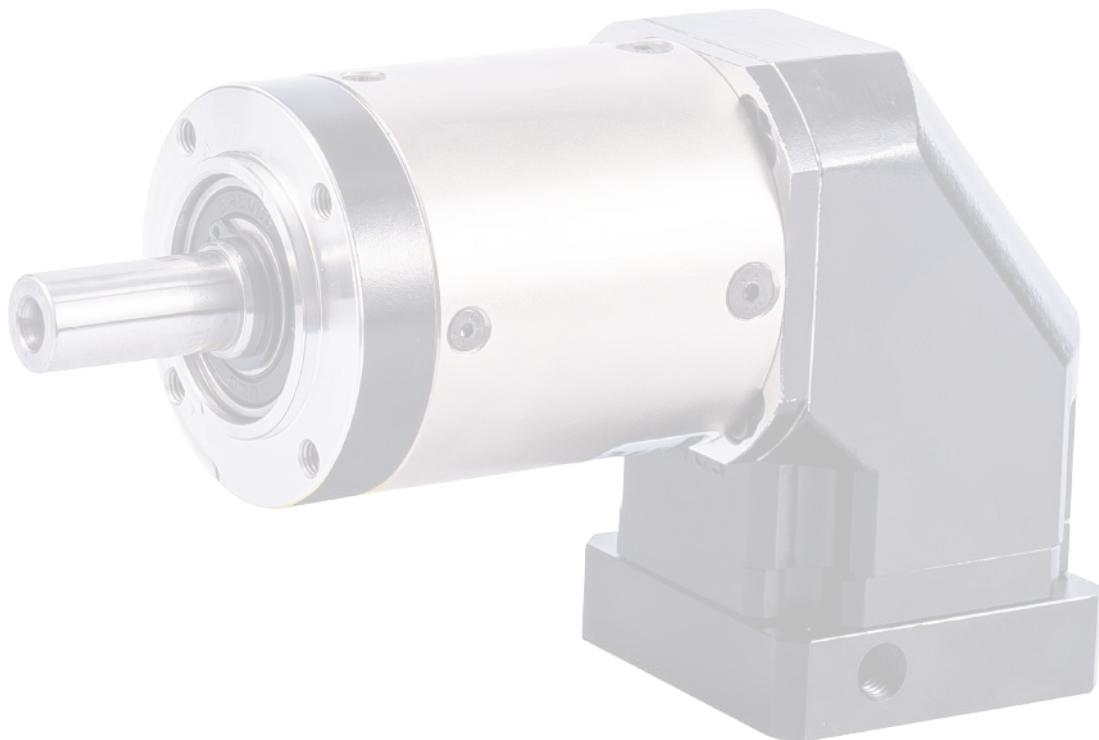
5 Output shaft: K Key
S Smooth

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)	WPLR042	WPLR060	WPLR080	WPLR120	WPLR160
Inertia J _i	kg * cm ²	1	3 ~ 10	0.03	0.135	0.75	2.5	5.8
			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



WPLR Series

Right angle planetary gearbox

PERFORMANCE TABLE

Specifications	Unit	Stages	Reduction ratio (i)	WPLR042	WPLR060	WPLR080	WPLR120	WPLR160
Rated output torque	Nm	1 (L1)	3	8	18	40	125	290
			4	12	36	90	230	460
			5	16	40	110	260	550
			6	–	20	40	90	340
			7	8	20	40	90	340
			8	–	36	90	230	460
			10	5	40	110	260	550
			12	8	20	40	90	340
			14	8	20	40	90	340
			20	12	12	22	70	210
		2 (L2)	15	16	40	110	260	550
			25	16	40	110	260	550
			30	16	18	40	125	290
			35	16	40	110	260	550
			40	–	36	90	230	460
			50	–	40	110	260	550
			60	–	20	40	90	340
			70	–	20	40	90	340
			80	–	36	90	230	460
			100	–	40	110	260	550
			140	–	20	40	90	340
			200	–	12	22	70	210
Acceleration torque	Nm	1,2	3 ~ 100		120% of the rated torque			
Emergency stop torque	Nm	1,2	3 ~ 100		200% of the rated torque			
Rated input speed	rpm	1,2	3 ~ 200	4500	4000	3500	3500	3000
Max input speed	rpm	1,2	3 ~ 200	8000	8000	6000	6000	4500
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	125	220	400	1000	3500
Axial load	N	1,2	3 ~ 200	165	240	420	1240	3700
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 ~ 200		IP54			
Lubrication		1,2	3 ~ 200		Full synthetic grease (optional: Food grade grease)			
Noise	dB(A)	1,2	3 ~ 200	≤65	≤65	≤68	≤73	≤75

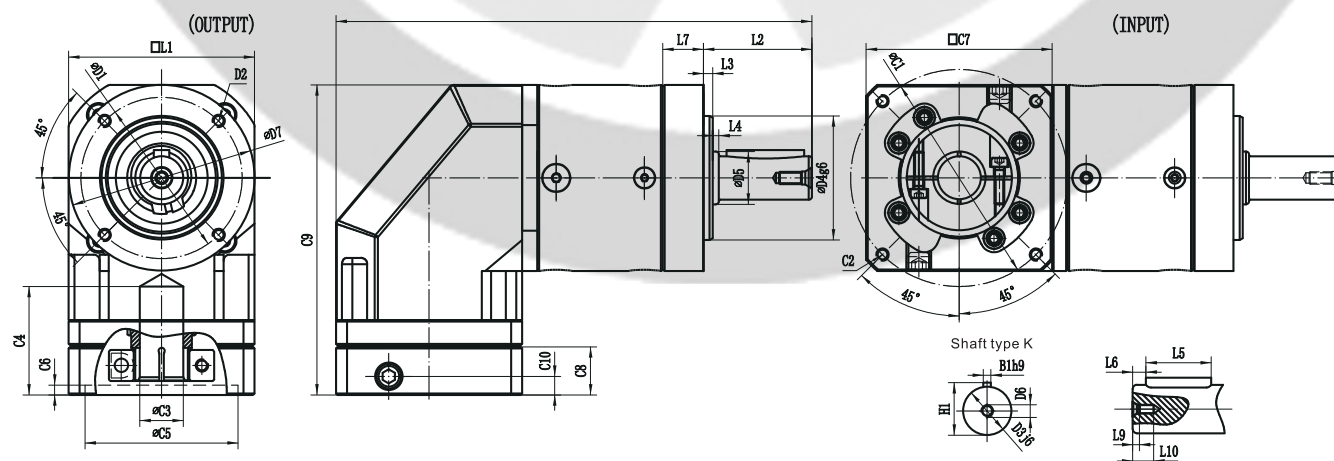
WPLR Series

Right angle planetary gearbox

DIMENSIONS: 1 – STAGE (L1)

Size	WPLR042	WPLR060	WPLR080	WPLR120	WPLR160
D1	34	52	70	100	145
D2	M4	M5	M6	M10	M12
D3	10	14	20	25	40
D4	26	40	60	80	130
D5	12	17	25	35	55
D6	M4	M5	M6	M10	M12
D7	42	60	80	115	162
L1	42	60	80	115	142
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	8	13	21.5	40.5	32.5
L8	106	153.5	204	288	340.5
L9	2.5	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*	3	3.5	6	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.

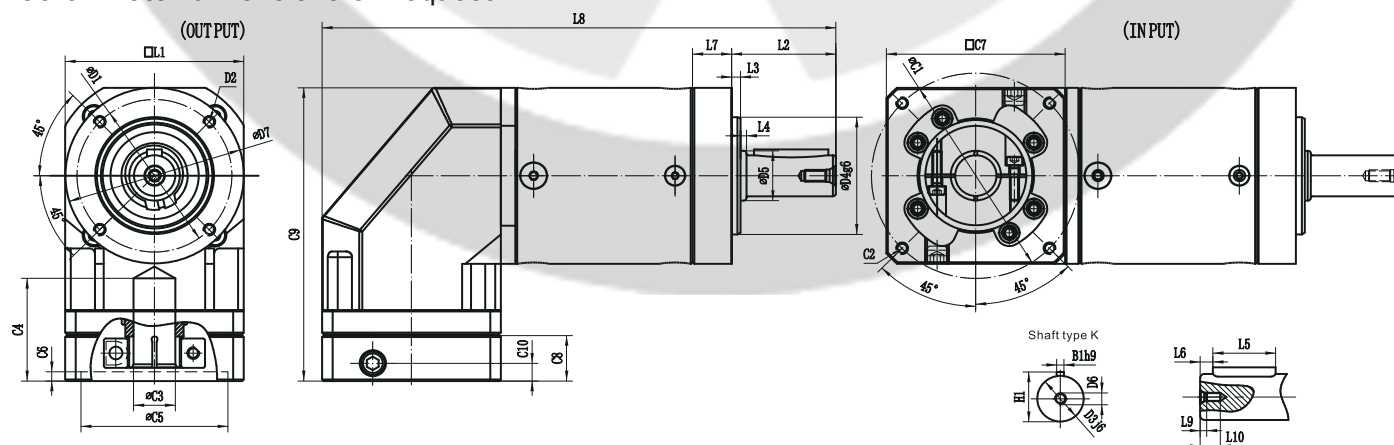


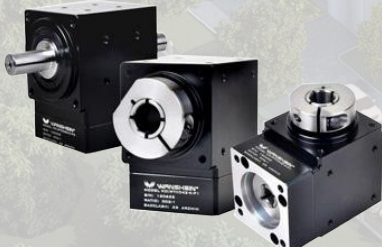
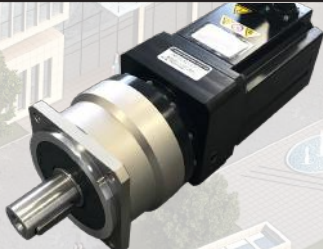
Right angle planetary gearbox

DIMENSIONS: 2 – STAGE (L2)

Size	WPLR042	WPLR060	WPLR080	WPLR120	WPLR160
D1	34	52	70	100	145
D2	M4	M5	M6	M10	M12
D3	10	14	20	25	40
D4	26	40	60	80	130
D5	12	17	25	35	55
D6	M4	M5	M6	M10	M12
D7	42	60	80	115	162
L1	42	60	80	115	142
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	8	13	21.5	40.5	32.5
L8	122	172.5	228.5	288	388.5
L9	2.5	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*	3	3.5	6	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	WTN	MOTOR ASSEMBLY
		





Wanshsin and ATB Automation

Wanshsin Seikou with headquarter in Changsha City (Hunan) is a large group integrating R&D, production and sales of precision reducers. There are two fully owned subsidiaries, located in Guangdong and Shangdong. The company was established in Taiwan in 1990s and moved in 2009 to China to meet the rapid growth.

Since 2014 Wanshsin Seikou is located in Changsha City and constructed a high-standard modern industrial park. It covers an area of 70.000 square meters with a total investment of 40 million Euro.

Wanshsin Seikou integrates advanced technologies of Germany in combination with characteristics of Taiwan: sense and simplicity. The company always adheres to the electrical and mechanical cutting-edge technologies of Germany, elegant production process, establishes strategic cooperation partnership with a number of German research laboratories to develop new products and to optimize the product structure.

Since 2017 ATB Automation is the distributor for the precision gearboxes and responsible for customers in the Benelux. ATB Automation offers their customers quick deliveries and advices in the selection of the gearboxes. ATB Automation can also deliver the Wanshsin products in a complete solution of servo systems with several brands of servo motors, drives and linear systems.

 www.atbautomation.eu / www.wanshsin.eu

 wanshsin@atbautomation.eu

 +31 297 28 58 21 / +32 2 588 80 05



ATB Automation
Mechanics | Motion Control