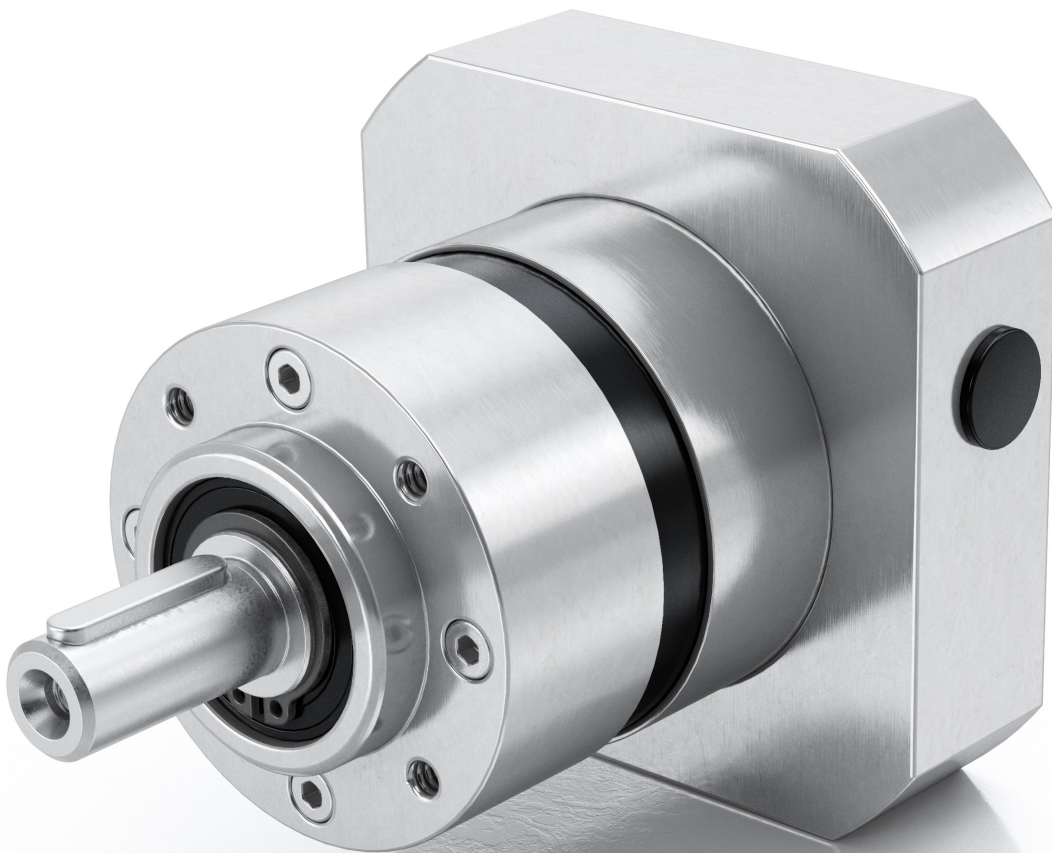




PLANETARY GEARBOX PS



**success based on
quality and reliability**

rehfuss.com

Technical data

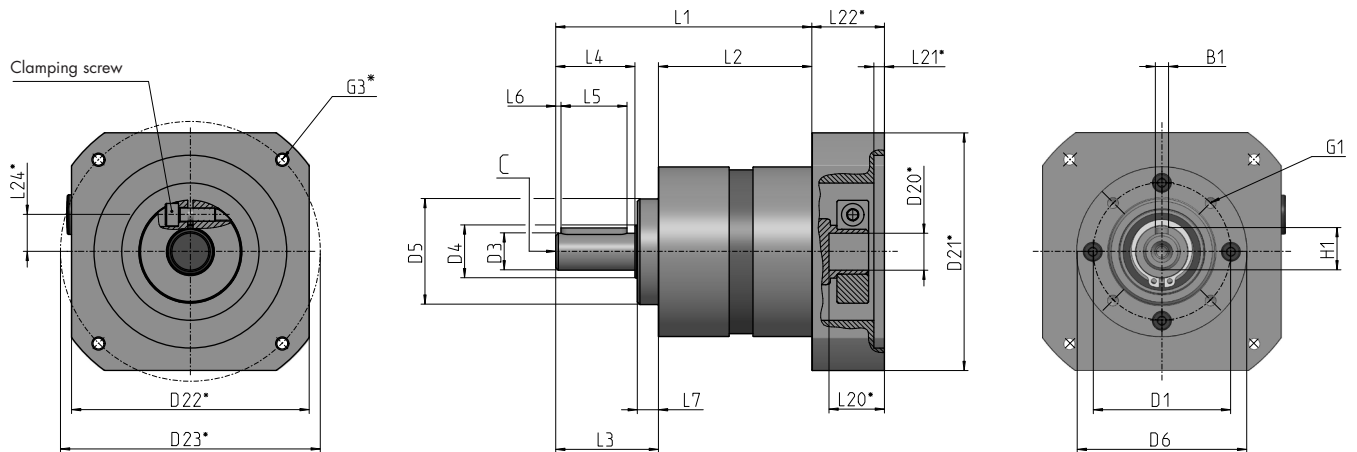
T2N = Nominal output torque, T2B = Max. acceleration torque, T2S = Emergency stop torque. (max. 500 times), J = Mass moment of inertia, VS = Torsional stiffness

1-stage																									
	PS104Z					PS106Z					PS108Z					PS110Z					PS130Z				
Ratio	T2N	T2B	T2S	J	VS	T2N	T2B	T2S	J	VS	T2N	T2B	T2S	J	VS	T2N	T2B	T2S	J	VS	T2N	T2B	T2S	J	VS
i	Nm	Nm	Nm	kgcm²	Nm/arcmin	Nm	Nm	Nm	kgcm²	Nm/arcmin	Nm	Nm	Nm	kgcm²	Nm/arcmin	Nm	Nm	Nm	kgcm²	Nm/arcmin	Nm	Nm	Nm	kgcm²	Nm/arcmin
3	5,0	10	20	0,06	0,85	20	36	72	0,45	2,4	40	70	160	1,37	7,1	100	180	200	6,54	17	230	360	860	12,3	33
4	6,5	13	26	0,04	0,85	26	44	84	0,38	2,4	54	100	216	1,14	7,1	120	200	480	4,80	17	310	460	1000	7,65	33
5	6,5	13	26	0,04	0,85	26	44	84	0,36	2,4	54	100	216	1,05	7,1	120	200	480	4,05	17	310	460	1000	6,24	33
7	6,5	13	26	0,04	0,65	26	44	84	0,35	1,7	54	100	216	0,97	4,8	120	200	480	3,40	14	310	460	1000	4,70	27
10	5,0	8,0	20	0,04	0,45	16	24	62	0,34	1,3	40	75	160	0,93	3,4	105	180	410	3,10	8,3	180	340	800	3,80	22
Torsional backlash [arcmin]																									
< 15					< 10					< 7					< 7					< 7					
Weight approx. [kg]																									
0,4					0,9					2,2					5,6					10,3					
Efficiency at full load [%]																									
94																									

2-stage																									
	PS204Z					PS206Z					PS208Z					PS210Z					PS230Z				
Ratio	T2N	T2B	T2S	J	VS	T2N	T2B	T2S	J	VS	T2N	T2B	T2S	J	VS	T2N	T2B	T2S	J	VS	T2N	T2B	T2S	J	VS
i	Nm	Nm	Nm	kgcm²	Nm/arcmin	Nm	Nm	Nm	kgcm²	Nm/arcmin	Nm	Nm	Nm	kgcm²	Nm/arcmin	Nm	Nm	Nm	kgcm²	Nm/arcmin	Nm	Nm	Nm	kgcm²	Nm/arcmin
12	10	13	20	0,04	0,85	36	45	72	0,38	2,4	80	100	160	1,14	7,1	170	215	400	4,80	17	360	360	860	12,3	33
16	14	18	26	0,04	0,85	42	52	84	0,38	2,4	100	125	216	1,14	7,1	210	255	480	4,80	17	340	460	1000	7,65	33
20	14	18	26	0,04	0,85	42	52	84	0,36	2,4	100	125	216	1,05	7,1	210	255	480	4,05	17	340	460	1000	6,24	33
25	12	14	26	0,04	0,85	44	55	84	0,36	2,4	100	125	216	1,05	7,1	210	255	480	4,05	17	340	460	1000	6,25	33
35	12	14	26	0,04	0,85	44	55	84	0,35	2,4	100	125	216	0,97	7,1	210	255	480	3,40	17	340	460	1000	4,70	33
40	14	18	26	0,04	0,85	42	52	84	0,34	2,4	100	125	216	0,93	7,1	210	255	480	3,10	17	340	460	1000	3,80	33
50	12	14	26	0,04	0,85	44	55	84	0,34	2,4	100	125	216	0,93	7,1	210	255	480	3,10	17	340	460	1000	3,80	33
70	14	18	26	0,04	0,85	42	52	84	0,34	1,7	100	125	216	0,93	4,8	210	255	480	3,10	14	340	460	1000	3,80	27
100	6,0	9,0	20	0,04	0,45	18	28	62	0,34	1,3	64	80	160	0,93	3,4	165	180	410	3,10	8,3	190	340	800	3,80	22
Torsional backlash [arcmin]																									
<19					< 12					< 9					< 9					< 10					
Weight approx. [kg]																									
0,5					1,2					3,0					7,7					12,8					
Efficiency at full load [%]																									
92																									

Radial force / Axial force [N] at n2 = 100 / 1 min				
250 / 300	450 / 500	800 / 1200	1600 / 2000	6500 / 7500
Noise emission (dbA) at n1 = 3000 1/min, Measuring point 1m distance, without load				
< 62	< 62	< 64	< 67	< 70
Nominal input speed / max. input speed [1/min] – allowed operation temperature must not be exceeded				
3500 / 6000	3500 / 6000	3000 / 6000	2500 / 5000	2500 / 4500
Life time [h]				
> 30.000				
Lubrication				
lifetime lubrication				
Protection class				
IP54				
Installation position				
any				
Operation temperature				
min. -20°C to max. +90°C				

Dimensions (in mm):



Type of gearbox		PS104Z	PS204Z	PS106Z	PS206Z	PS108Z	PS208Z	PS110Z	PS210Z	PS130Z	PS230Z
		1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage
D1	Pitch circle Ø	34		52		70		100		145	
D3 _{h7}	Output shaft Ø	10		14		20		25		40	
D4	Shaft collar Ø	12		17		25		35		50	
D5 _{h7}	Centering Ø	26		40		60		80		130	
D6	Housing Ø	40		60		80		115		160	
G1	Thread / depth (4x)	M4/10		M5/12		M6/15		M10/20		M12/25	
C	center thread / depth	M3/9		M5/12		M6/16		M10/22		M12/26	
L1	Length without drive flange	76	92	97	120	114	138	155	187	239	280
L2	Housing length	50	66	63	86	74	98	100	132	162	203
L3	Installation dimension	26		35		40		55		77	
L4	Shaft length	23		30		36		50		70	
L7	Centering collar length	2		4		3		4		5	
L5	Feather key length	20		25		28		45		60	
L6	Feather key position	1		2		4,5		1,5		5	
B1	Feather key width	3		5		6		8		12	
H1	Height including feather key	11,2		16		22,5		28		43	
Motor flange / motor shaft											
	Max. drill hole clamping system	14		19		24		32		38	
D20*	Diameter bore motor	*Motor-specific flange and motor shaft geometries. For motor shafts without feather keys. Dimensions vary.									
D21 ^{G7} *	Inner diameter centering										
D22*	□- Diameter motor flange										
D23*	Bole circle thread motor flange										
L20*	Length diameter motor										
L21*	Length Inner centering										
L22*	Length motor flange										
L24*	Position clamping screw										
G3*	Mounting screw thread										

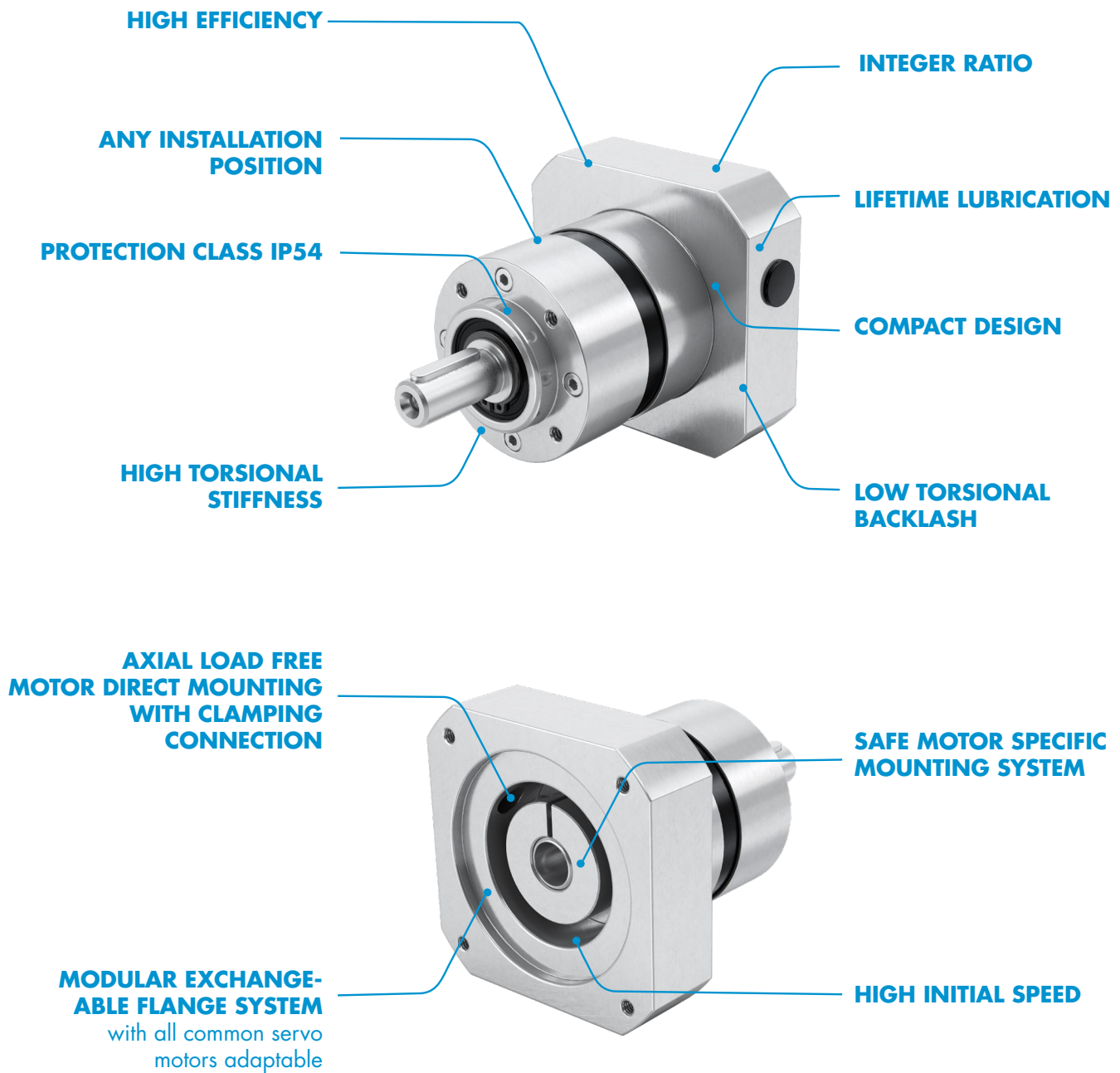
Order key:

PS106Z-0005-MF-XXXXXX

Model series | Size | Reduction | Motor flange | Motor shaft code | Motor flange code

Stage with centering collar

Highlights



Options:

- Can be combined with all of our motors and a wide range of motor connections
- Suitable for applications in almost all industries
- Flange options for synchronous servo motors

Characteristics:

- Robust and compact
- Lifetime lubrication
- Aluminum body
- Any installation position

Reh fuss Drive Solutions GmbH

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