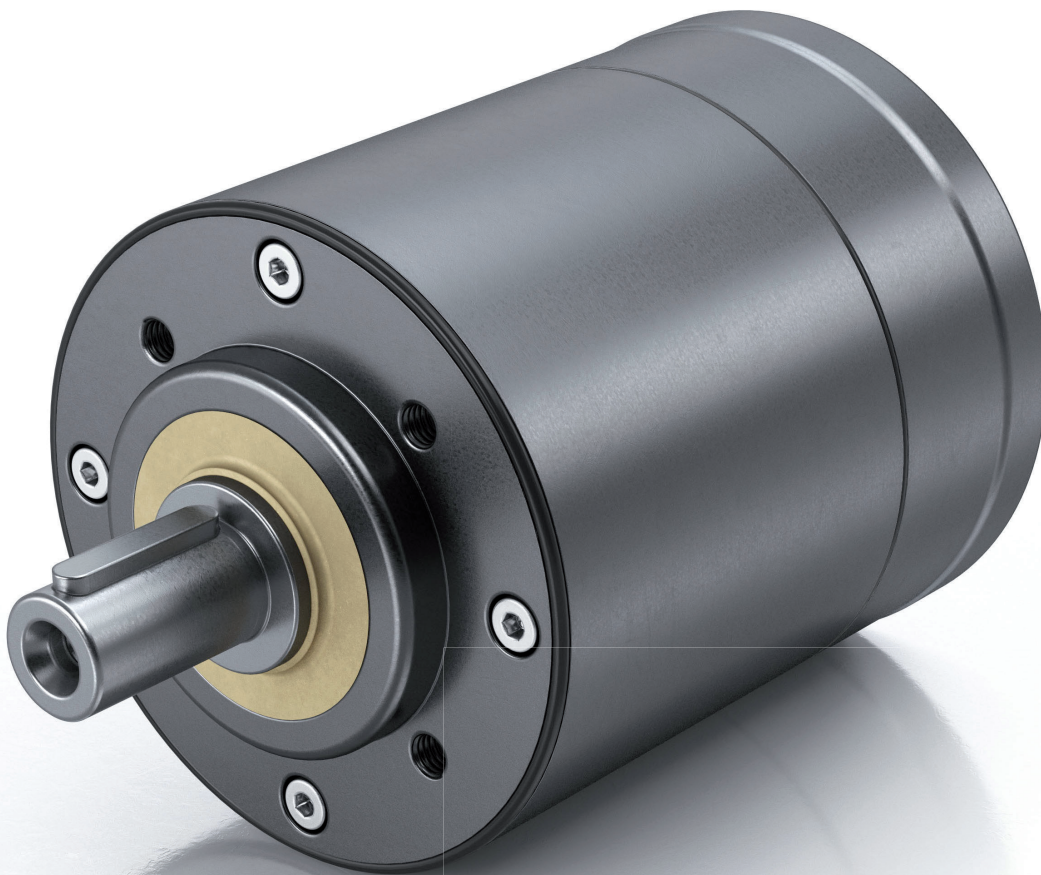


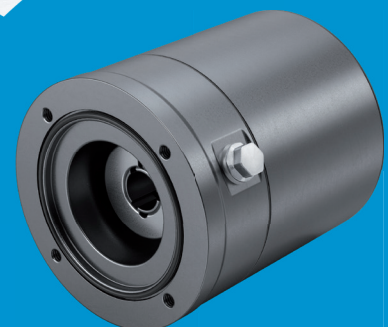


PLANETARY GEARBOX PAH

„Anodized in hygienic design“



success based on
quality and reliability



rehfuss.com

Technical data

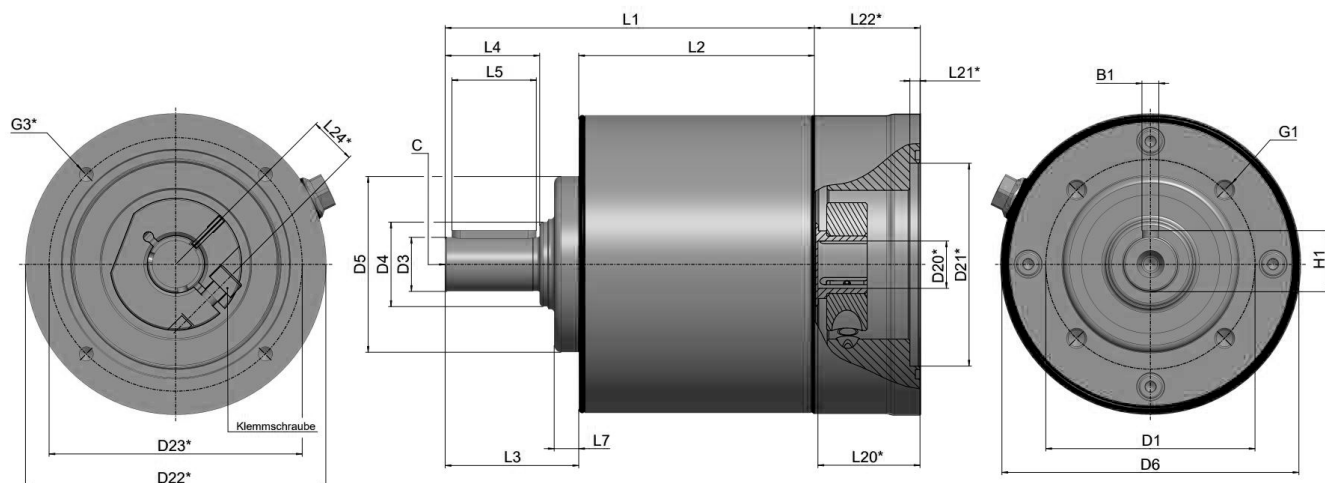
T2N = Nominal output torque, T2B = Max. acceleration torque, T2S = Emergency stop torque. (max. 500 times), T0 = idle torque, J = Mass moment of inertia, VS = Torsional stiffness

1-stage																		
	PAH106Z						PAH108Z						PAH110Z					
ratio	T2N	T2B	T2S	T0	J	VS	T2N	T2B	T2S	T0	J	VS	T2N	T2B	T2S	T0	J	VS
i	Nm	Nm	Nm	Nm	kgcm ²	Nm/ arcmin	Nm	Nm	Nm	Nm	kgcm ²	Nm/ arcmin	Nm	Nm	Nm	Nm	kgcm ²	Nm/ arcmin
3	25	38	78	0,22	0,44	2,4	47	75	155	0,65	1,33	7,1	110	165	363	1,39	4,43	17
4	29	44	90	0,21	0,40	2,4	65	104	215	0,55	1,14	7,1	140	210	462	1,47	3,73	17
5	29	44	90	0,19	0,38	2,4	65	104	215	0,5	1,07	7,1	140	210	462	1,13	3,33	17
7	29	44	90	0,17	0,37	1,7	65	104	215	0,45	1,02	4,8	140	210	462	1,09	3,01	14
10	20	30	62	0,21	0,36	1,3	51	82	168	0,45	0,99	3,4	110	165	363	0,56	2,81	8,3
Torsional backlash [arcmin]																		
< 10						< 7						< 7						
Weight approx. [kg]																		
2,3						4,1						9,9						
Efficiency at full load [%]																		
92																		

2-stage																		
	PAH206Z						PAH208Z						PAH210Z					
ratio	T2N	T2B	T2S	T0	J	VS	T2N	T2B	T2S	T0	J	VS	T2N	T2B	T2S	T0	J	VS
i	Nm	Nm	Nm	Nm	kgcm ²	Nm/ arcmin	Nm	Nm	Nm	Nm	kgcm ²	Nm/ arcmin	Nm	Nm	Nm	Nm	kgcm ²	Nm/ arcmin
9	41	49	78	0,23	0,44	2,4	78	94	155	0,5	1,33	7,1	182	206	363	1,13	4,43	17,0
12	41	49	78	0,24	0,40	2,4	78	94	155	0,5	1,14	7,1	182	206	363	1,45	3,73	17,0
16	48	57	90	0,22	0,40	2,4	107	130	215	0,4	1,14	7,1	231	263	462	1,60	3,73	17,0
20	48	57	90	0,23	0,38	2,4	107	130	215	0,4	1,07	7,1	231	263	462	1,41	3,33	17,0
25	48	57	90	0,24	0,38	2,4	107	130	215	0,4	1,07	7,1	231	263	462	1,23	3,33	17,0
28	48	57	90	0,23	0,37	2,4	107	130	215	0,37	1,02	7,1	231	263	462	1,43	3,01	17,0
30	48	57	90	0,22	0,36	2,4	107	130	215	0,35	0,99	7,1	231	263	462	1,61	2,81	17,0
35	48	57	90	0,2	0,37	2,4	107	130	215	0,45	1,02	7,1	231	263	462	0,94	3,01	17,0
40	48	57	90	0,21	0,36	2,4	107	130	215	0,35	0,99	7,1	231	263	462	1,61	2,81	17,0
50	48	57	90	0,21	0,36	2,4	107	130	215	0,35	0,99	7,1	231	263	462	1,21	2,81	17,0
70	48	57	90	0,19	0,36	1,7	107	130	215	0,3	0,99	4,8	231	263	462	0,83	2,81	14,0
100	23	39	62	0,2	0,36	1,3	59	102	168	0,25	0,99	3,4	127	206	363	1,00	2,81	8,3
Torsional backlash [arcmin]																		
< 12						< 9						< 9						
Weight approx. [kg]																		
2,7						5,4						12,8						
Efficiency at full load [%]																		
90																		

Radial force / Axial force [N] at n2 = 100 1/min		
950 / 500	1500 / 1000	3000 / 1500
Noise emission (dba) at n1= 3000 1/min, Measuring point 1m distance, without load		
< 63	< 63	< 65
Nominal input speed / max. input speed [1/min] – allowed operation temperature must not be exceeded		
3500 / 6000	3000 / 6000	2500 / 5000
Life time [h]		
> 30.000		
Lubrication		
H1 registered lifetime lubrication		
Protection class		
IP69K (optional IP66)		
Installation position		
universal		
Operation temperature		
-25°C to +90°C		

Dimensions (in mm):



Type of gearbox		PAH106Z	PAH206Z	PAH108Z	PAH208Z	PAH110Z	PAH210Z
		1-stage	2-stage	1-stage	2-stage	1-stage	2-stage
D1	Pitch circle Ø	62		80		108	
D3 _{k6}	Output shaft Ø	16		22		32	
D4	Shaft collar Ø	25		30		40	
D5 _{h7}	Centering Ø	52		68		90	
D6	Housing Ø	88		107		130	
G1	Thread / depth 4x	M6/12		M6/14		M10/15	
C	Centering thread / depth	M5/12		M8/19		M12/26	
L1	Length without drive flange	110	132	137,5	170	202	233,5
L2	Housing length	70	92	89	121,5	127,5	159
L3	Installation dimension	40		48,5		74,5	
L4	Shaft length	28		35		58	
L7	Centering collar length	7,5		9		12	
L5	Feather key length	25		30		50	
L6	Feather key position	2		2		4	
B1	Feather key width	5		6		10	
H1	Height including feather key	18		24,5		35	
Motor flange / motor shaft							
	Max. drill hole clamping system	14		19		24	
D20*	Diameter hole motor shaft	*Motor-specific flange and motor shaft geometries. For motor shafts without feather key. Dimensions vary.					
D21 ^{G7} *	Inner diameter centering						
D22*	Diameter motor flange						
D23*	Bolt circle thread motor flange						
L20*	Length diameter motor shaft						
L21*	Length Inner centering						
L22*	Length motor flange						
L24*	Position clamping screw						
G3*	Mounting thread						

Order key:

PAH106Z-0005-MF-XXXXXX

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

Stage with centering collar

Highlights

EASY CLEANING THANKS TO THE SMOOTH HOUSING SURFACE

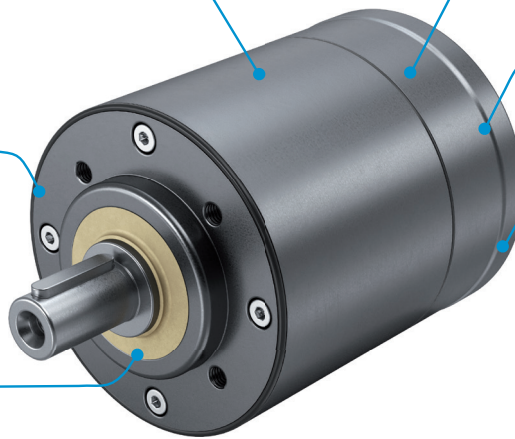
H1 LUBRICANT FOR FOOD INDUSTRY LIFETIME LUBRICATION

DEAD SPACE-FREE SHAFT SEAL

OPTIMIZED SEALING MATERIALS

LOW TWISTING

MADE OF ANODIZED ALUMINUM



AXIAL LOAD-FREE DIRECT MOTOR MOUNTING WITH CLAMP CONNECTION

SAFE ENGINE-SPECIFIC MOUNTING SYSTEM

MODULAR INTERCHANGEABLE FLANGE SYSTEM

Adaptable to all common servo motors

HIGH PROTECTION CLASS IP69K

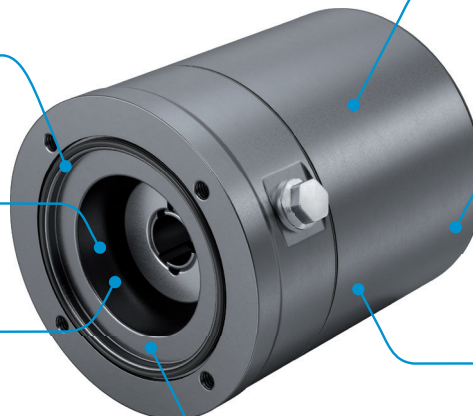


LOW NOISE AND OPTIMAL RUNNING



INTEGER SUBSTITUTIONS

HIGH TORSIVE STIFFNESS



Options:

- Compatible with all common servo motors and our SBA, SBE, and SBH motor series
- Flange options for synchronous servo motors
- Suitable for the food, beverage, and pharmaceutical industries

Characteristics:

- Robust and compact
- Lubricant suitable for the food industry (NFS H1 approved)
- Lifetime lubrication
- Housing made of anodized aluminum
- Any mounting position

Rehfuss Drive Solutions GmbH

E-Mail: info@rehfuss.com
rehfuss.com

Phone: +49 7432 7015-0