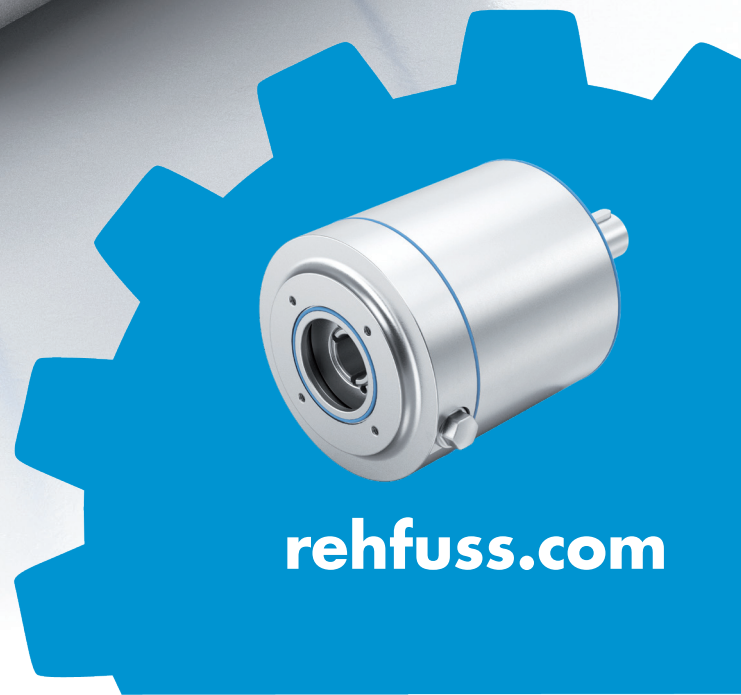
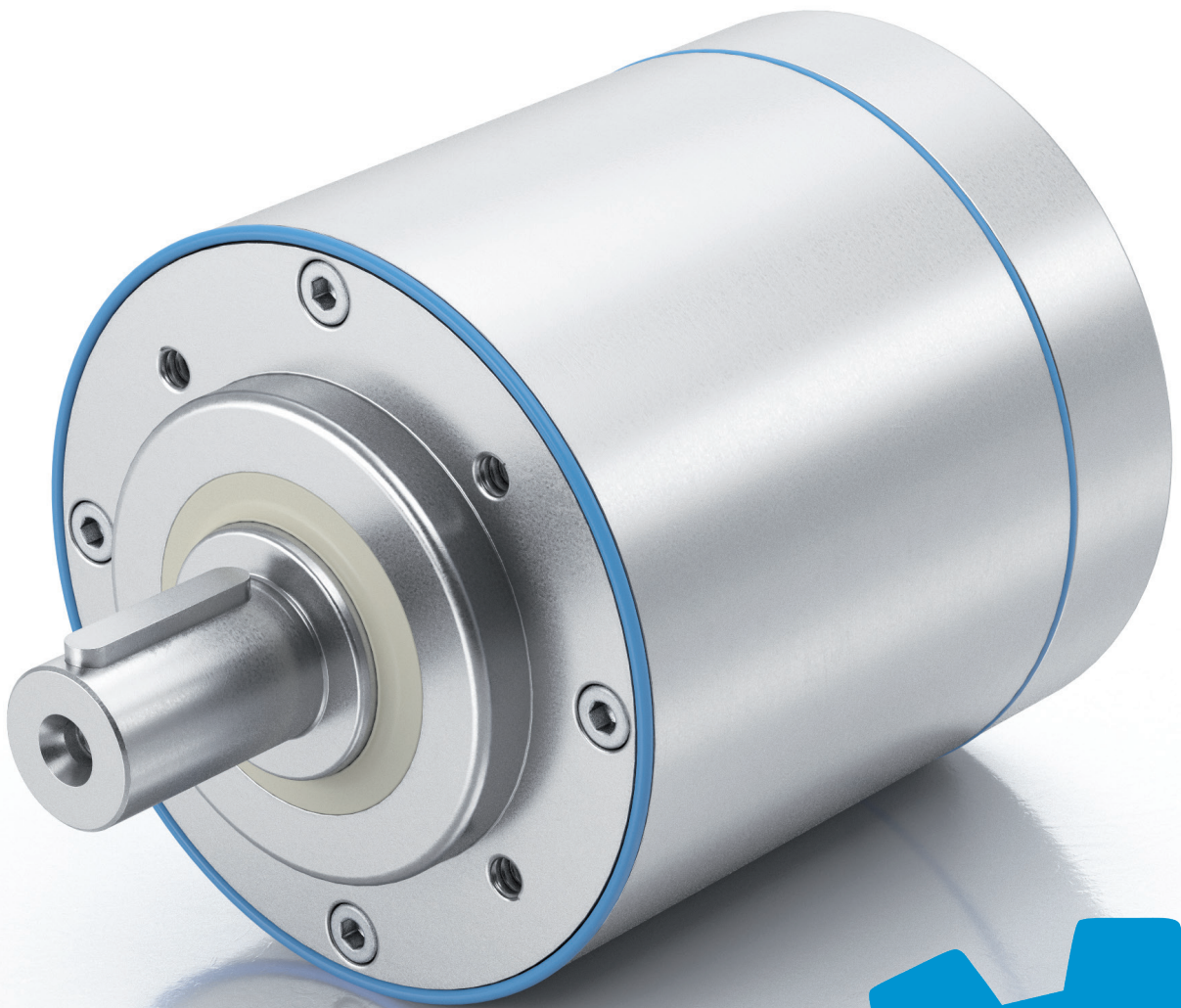




PLANETARY GEARBOX PNH „Hygienic Design“



**success based on
quality and reliability**

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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

	PNH106Z					PNH108Z					PNH110Z				
Ratios	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
3	25	38	78	0,44	2,4	47	75	155	1,33	7,1	110	165	363	4,43	17
4	29	44	90	0,40	2,4	65	104	215	1,14	7,1	140	210	462	3,73	17
5	29	44	90	0,38	2,4	65	104	215	1,07	7,1	140	210	462	3,33	17
7	29	44	90	0,37	1,7	65	104	215	1,02	4,8	140	210	462	3,01	14
10	20	30	62	0,36	1,3	51	82	168	0,99	3,4	110	165	363	2,81	8,3
Torsional backlash [arcmin]															
< 10						< 7					< 7				
Weight approx. [kg]															
4,1						7,6					16,3				
Efficiency at full load [%]															
92															

2-stage

Stage	PNH206Z					PNH208Z					PNH210Z				
Ratios	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
9	41	49	78	0,44	2,4	78	94	155	1,33	7,1	182	206	363	4,43	17,0
12	41	49	78	0,40	2,4	78	94	155	1,14	7,1	182	206	363	3,73	17,0
16	48	57	90	0,40	2,4	107	130	215	1,14	7,1	231	263	462	3,73	17,0
20	48	57	90	0,38	2,4	107	130	215	1,07	7,1	231	263	462	3,33	17,0
25	48	57	90	0,38	2,4	107	130	215	1,07	7,1	231	263	462	3,33	17,0
28	48	57	90	0,37	2,4	107	130	215	1,02	7,1	231	263	462	3,01	17,0
30	48	57	90	0,36	2,4	107	130	215	0,99	7,1	231	263	462	2,81	17,0
35	48	57	90	0,37	2,4	107	130	215	1,02	7,1	231	263	462	3,01	17,0
40	48	57	90	0,36	2,4	107	130	215	0,99	7,1	231	263	462	2,81	17,0
50	48	57	90	0,36	2,4	107	130	215	0,99	7,1	231	263	462	2,81	17,0
70	48	57	90	0,36	1,7	107	130	215	0,99	4,8	231	263	462	2,81	14,0
100	23	39	62	0,36	1,3	59	102	168	0,99	3,4	127	206	363	2,81	8,3
Torsional backlash [arcmin]															
< 12						< 9					< 9				
Weight approx. [kg]															
4,7						9,0					19,7				
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

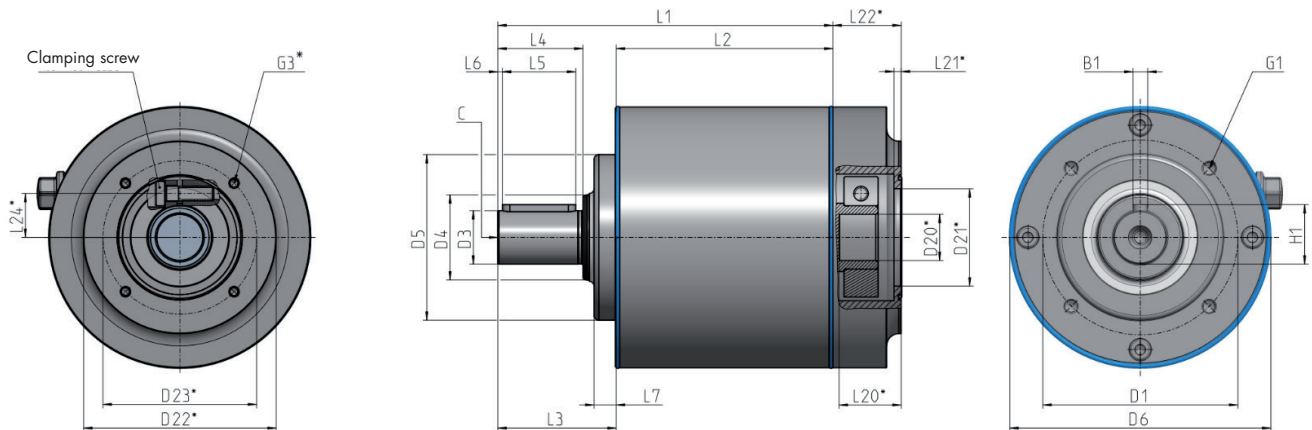
Installation position

universal

Operation temperature

-25°C to +90°C

Dimensions (in mm):



Type of gearbox		PNH106Z	PNH206Z	PNH108Z	PNH208Z	PNH110Z	PNH210Z
		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						

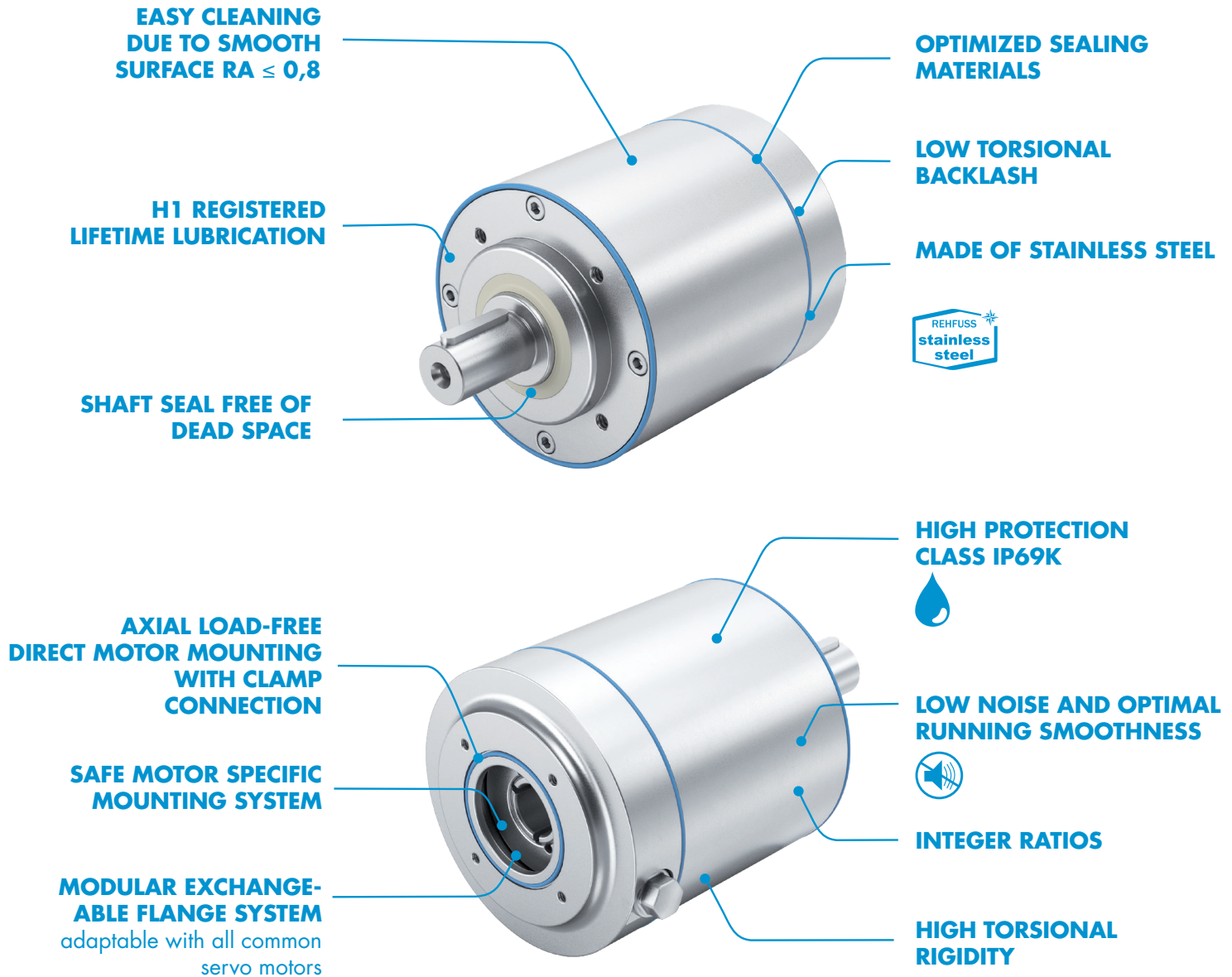
Order key:

PNH106Z-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 our stainless steel motors (SBH, SBE and N) as well as other motor connections
- Flange options for synchronous servo motors
- Suitable for food, beverage and pharmaceutical industries

Characteristics:

- Robust and compact
- Lubricant suitable for the food industry (NFS H1 authorized)
- Lifetime lubrication
- Made of stainless steel (1.4404)
- Any mounting position

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