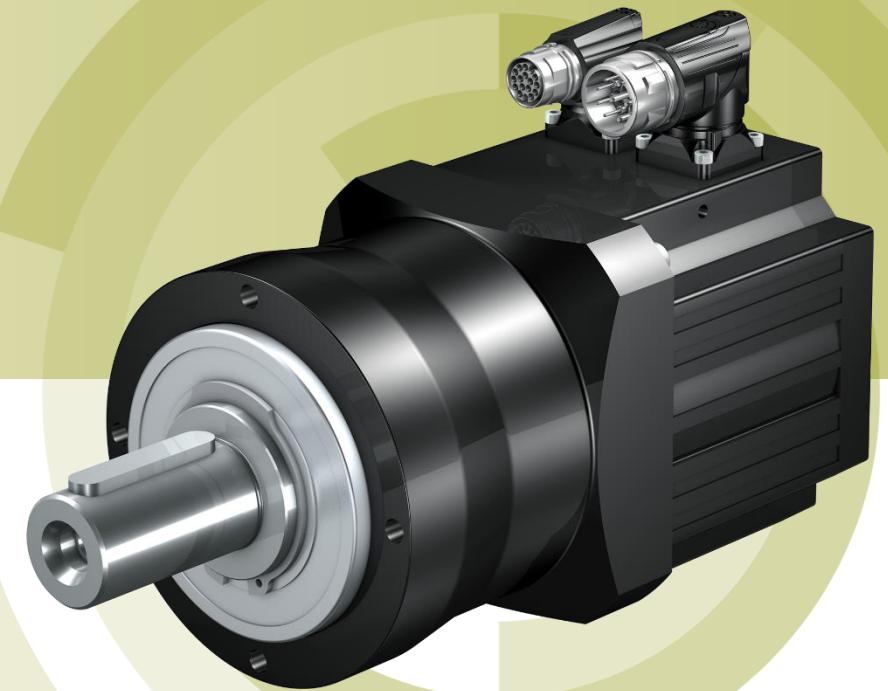


Comparison Presentation

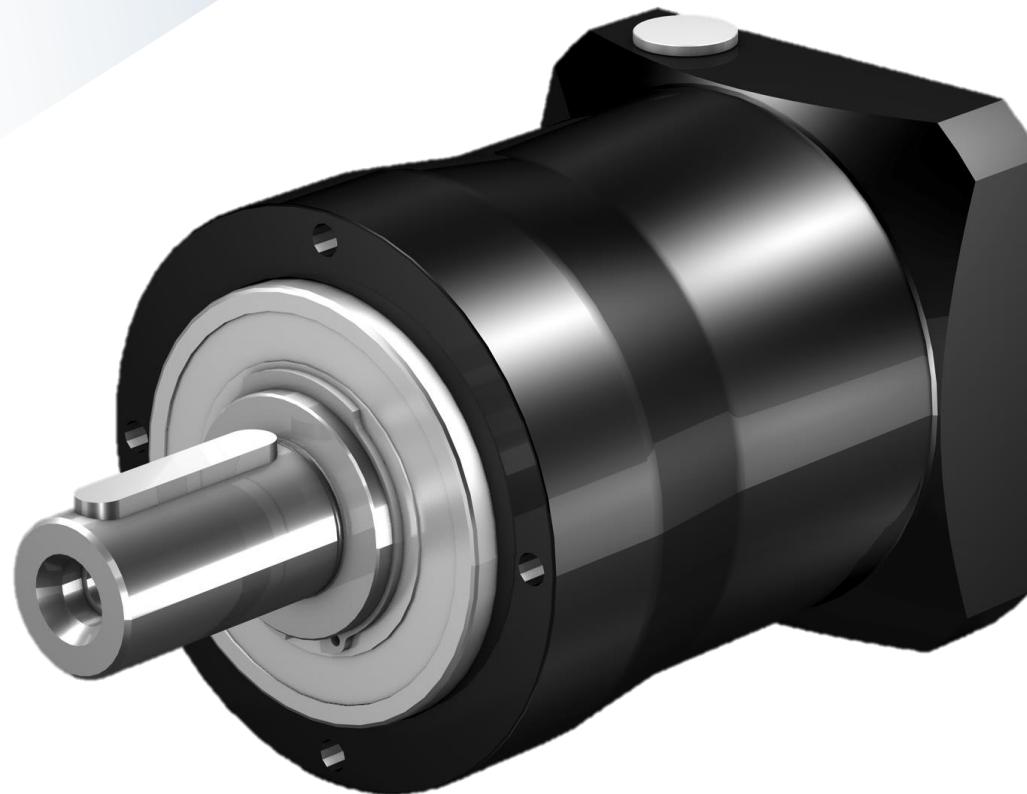
PE G1 vs. G2

INTERNAL



Design

➤ Generation 1

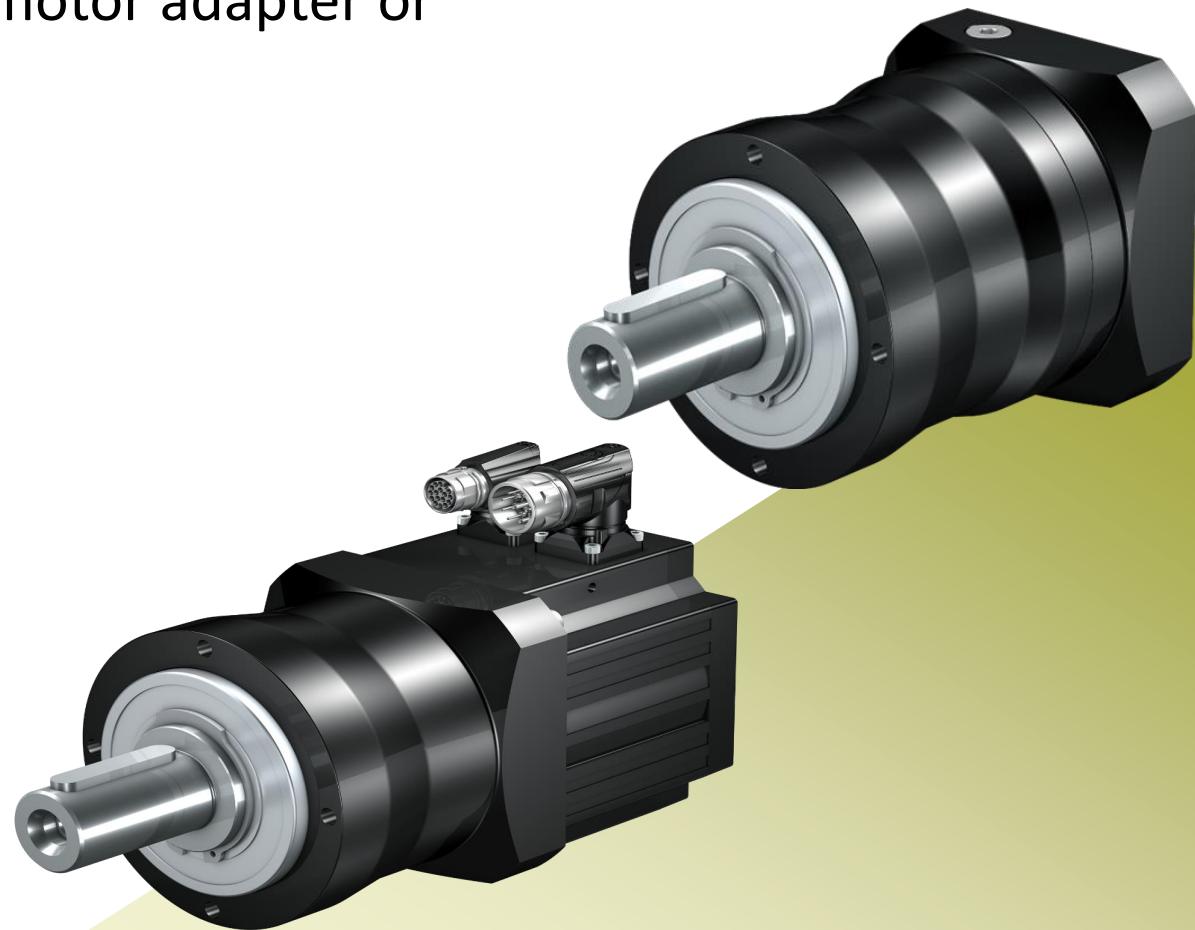


➤ Generation 2



Interface Input Side

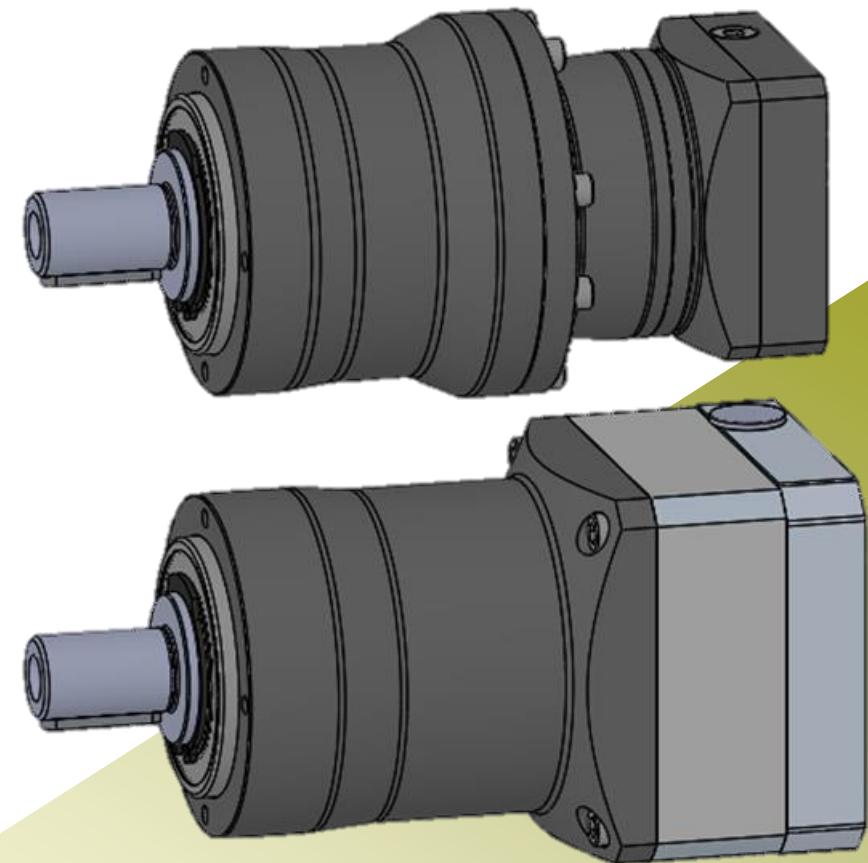
- The development of the P/PH G3 planetary gear units has changed the interface between gear unit and motor adapter or between gear unit and motor.
- PE G2 is now identical with P / PH / PHQ G3



Input stage becomes smaller

The input stage for the 2-stage gear units will now be one size smaller, like in the P/PH G3 series.

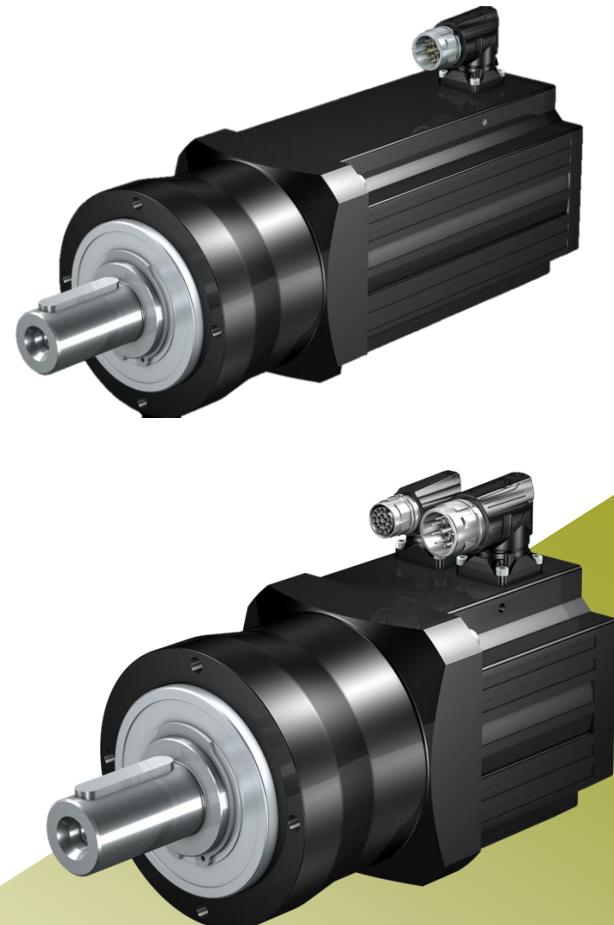
- ME(L) motor adapter is taken over from P series.
- Motor adapter MEI is not provided in the G2.
- Influence on the combinatorics with EZ, LM and third-party motors
- Same combinatorics of motors as for P series



Input stage becomes smaller

- The input stage for the 2-stage gear units will now be one size smaller, like in the P/PH G3 series.
- At 2-stage versions smaller motors can be attached

PE G1	ED2	EZ3	EZ4/LM4	EZ5/LM5	EZ7/LM7	EZ8	PE G2	ED2	EZ3	EZ4/ LM4	EZ5/LM5	EZ7/LM7	EZ8
PE211	o	x					PE221	o	x				
PE212	o	x					PE222	o	x				
PE311		x	x	x			PE321		x	x			
PE312		x	x	x			PE322	o	x				
PE411			x	x	x		PE421			x	x		
PE412			x	x	x		PE422		x	x			
PE511				x	x	x	PE521			x	x		
PE512				x	x	x	PE522		x	x			



Interface at output

- Mechanical interfaces compatible with G1
- Standard output shaft with key
- Smooth output shaft as special variant

New customers:

- 88€ over all sizes
- Minimum lot size 10 pieces - a ROAD is required

Existing customers:

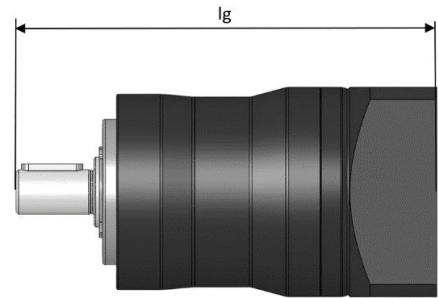
- No extra charge
- Changeover takes place via a ticket



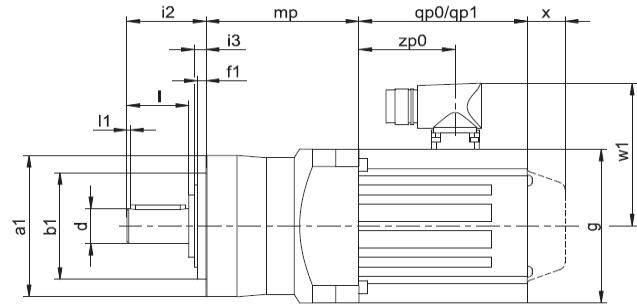
Comparison of overall lengths

➤ PE_ME

Size	G1 ME L [mm]	G2 ME L [mm]	Reduction [mm]
PE211 – PE221	109,0	109,5	0,5
PE212 – PE222	136,5	141,5	5,0
PE311 – PE321	153,5	150,5	-3,0
PE312 – PE322	186,0	168,0	-18,0
PE411 – PE421	173,0	167,0	-6,0
PE412 – PE422	211,0	204,0	-7,0
PE511 – PE521	223,5	222,0	-1,5
PE512 – PE522	269,0	251,0	-18



➤ PE_EZ



Size	i2+mp		Reduction
	G1	G2	[mm]
PE211 - PE221 EZ3	97	97,5	0,5
PE311 - PE321 EZ3	122	122,5	0,5
PE311 - PE321 EZ4	118,5	119	0,5
PE312 - PE322 EZ3	154,5	156	1,5
PE411 - PE421 EZ4	134	135	1
PE411 - PE421 EZ5	136,5	137,5	1
PE412 - PE422 EZ3	-	175	
PE412 - PE422 EZ4	172	171,5	-0,5
PE511 - PE521 EZ5	175,5	180	4,5
PE511 - PE521 EZ7	181,5	183	1,5
PE512 - PE522 EZ4	-	222	
PE512 - PE522 EZ5	221	221,5	0,5

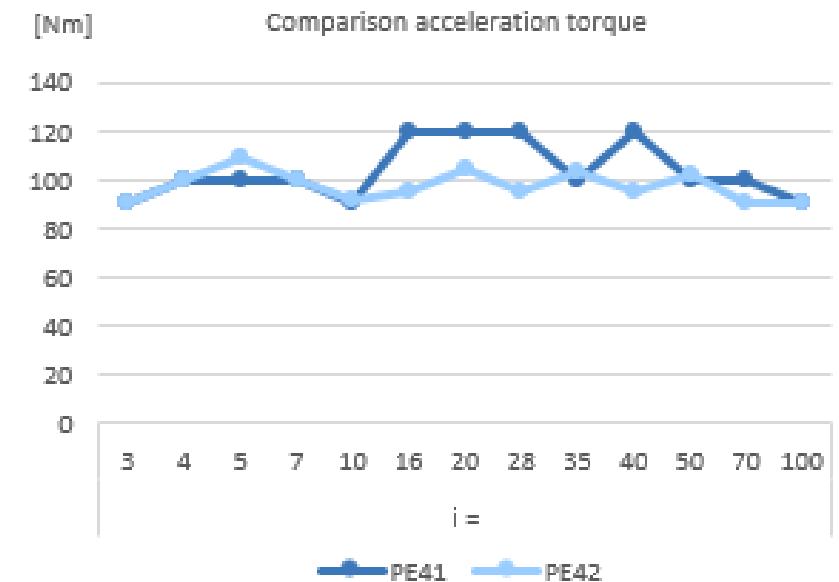
Ratio's

- The following ratios are omitted from the catalog:
- i = 12, 15
- For existing customers still available as non-catalog product
Should be converted in the medium term

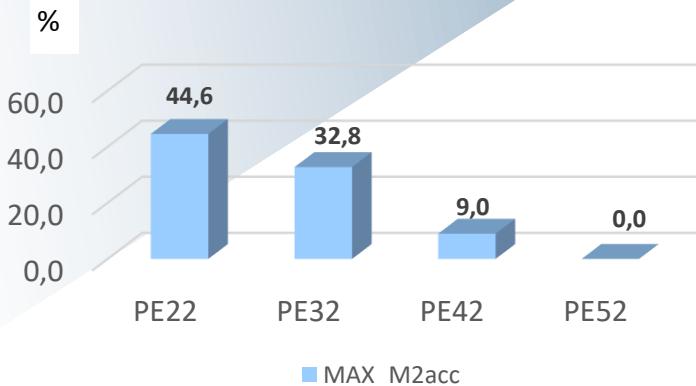
PE521 ($M_{zacc,max} = 250 \text{ Nm}$)													
		2500	4500	≤ 32	4,4	7,7	8,0		31	65	90	180	360
3,000	PE521_0030 ME	2500	4500	≤ 32	4,4	7,7	8,0		31	65	90	180	360
3,000	PE521_0030 MEL	2500	4500	≤ 38	7,9	8,8	8,0		31	65	90	180	360
4,000	PE521_0040 ME	2600	5000	≤ 32	3,5	7,7	8,0		35	64	130	250	500
4,000	PE521_0040 MEL	2600	5000	≤ 38	7,0	8,8	8,0		35	64	130	250	500
5,000	PE521_0050 ME	2600	5000	≤ 32	3,1	7,7	8,0		35	62	130	250	500
5,000	PE521_0050 MEL	2600	5000	≤ 38	6,6	8,8	8,0		35	62	130	250	500
7,000	PE521_0070 ME	2800	5000	≤ 32	2,8	7,7	8,0		32	60	130	250	500
7,000	PE521_0070 MEL	2800	5000	≤ 38	6,3	8,8	8,0		32	60	130	250	500
10,00	PE521_0100 ME	3000	5000	≤ 32	2,7	7,7	8,0		27	58	130	220	440
10,00	PE521_0100 MEL	3000	5000	≤ 38	6,2	8,8	8,0		27	58	130	220	440
PE522 ($M_{zacc,max} = 250 \text{ Nm}$)													
		3400	6000	≤ 24	1,2	9,1	10,0		33	64	160	240	480
16,00	PE522_0160 ME	3400	6000	≤ 32	2,8	10,0	10,0		33	64	160	240	480
16,00	PE522_0160 MEL	3400	6000	≤ 32	2,8	10,0	10,0		33	64	160	240	480
20,00	PE522_0200 ME	3400	6000	≤ 24	1,2	9,1	10,0		33	64	160	250	500
20,00	PE522_0200 MEL	3400	6000	≤ 32	2,8	10,0	10,0		33	64	160	250	500
25,00	PE522_0250 ME	3400	6000	≤ 24	1,0	9,1	10,0		33	63	160	250	500
25,00	PE522_0250 MEL	3400	6000	≤ 32	2,7	10,0	10,0		33	63	160	250	500
28,00	PE522_0280 ME	3600	6000	≤ 24	0,95	9,1	10,0		33	63	160	240	480
28,00	PE522_0280 MEL	3600	6000	≤ 32	2,6	10,0	10,0		33	63	160	240	480
35,00	PE522_0350 ME	3600	6000	≤ 24	0,94	9,1	10,0		33	62	160	250	500
35,00	PE522_0350 MEL	3600	6000	≤ 32	2,5	10,0	10,0		33	62	160	250	500
40,00	PE522_0400 ME	3600	6000	≤ 24	0,89	9,1	10,0		33	62	160	240	480
40,00	PE522_0400 MEL	3600	6000	≤ 32	2,5	10,0	10,0		33	62	160	240	480
50,00	PE522_0500 ME	3600	6000	≤ 24	0,89	9,1	10,0		33	61	160	250	500
50,00	PE522_0500 MEL	3600	6000	≤ 32	2,5	10,0	10,0		33	61	160	250	500
70,00	PE522_0700 ME	3600	6000	≤ 24	0,93	9,1	10,0		27	60	160	220	440
70,00	PE522_0700 MEL	3600	6000	≤ 32	2,5	10,0	10,0		27	60	160	220	440
100,0	PE522_1000 ME	3600	6000	≤ 24	0,88	9,1	10,0		27	59	160	220	440
100,0	PE522_1000 MEL	3600	6000	≤ 32	2,5	10,0	10,0		27	59	160	220	440

Technical Data

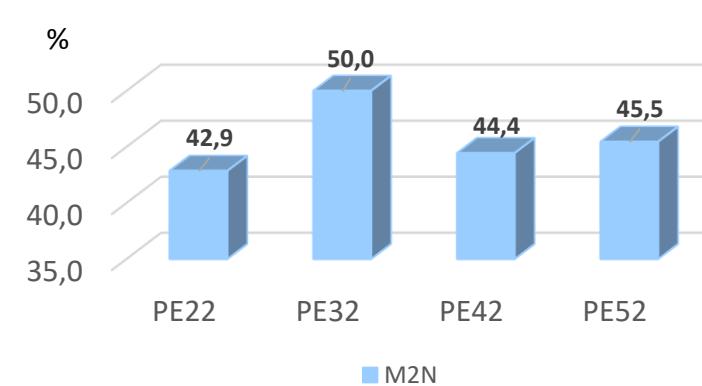
- Torque reduction for all two-stage versions with $i=4$ in the output.
Here, a 3-planetary system could be used instead of a 4-planetary system.
- $i=70$ gets the actually worse $i=10$ gearing in the output. This saves sun gear variants.
- Overviews of all sizes and technical data are available.



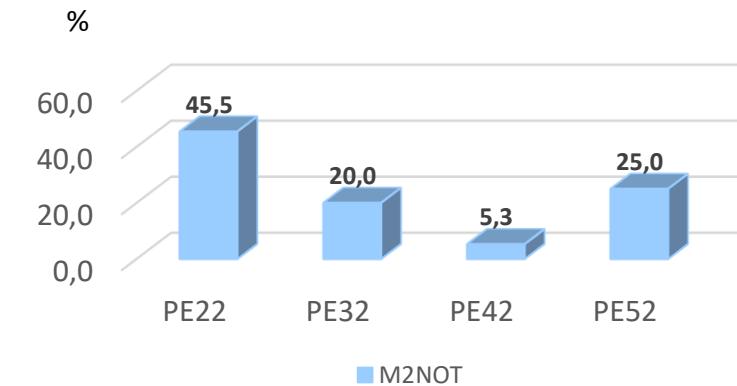
Max. Increase acceleration torque PE G2



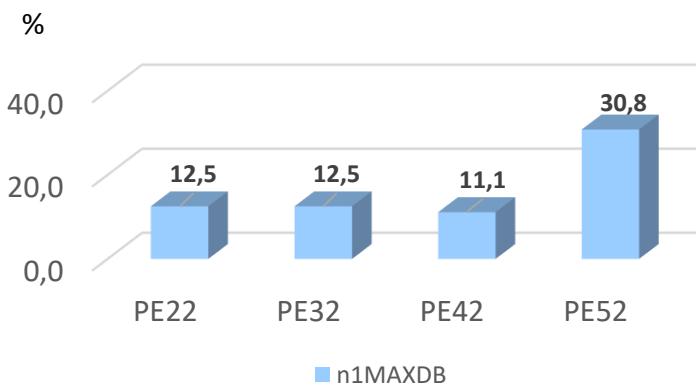
Max. Increase nominal torque PE G2



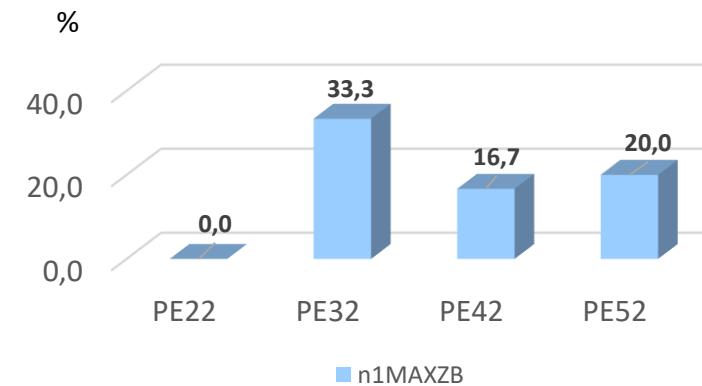
Max. Increase emergency off torque PE G2



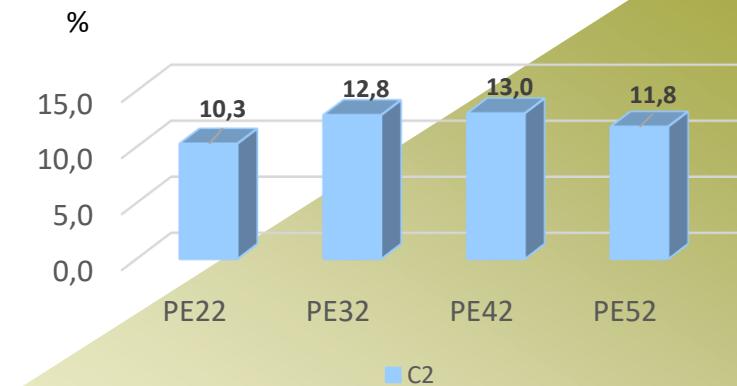
Max. Increase input continuous speed PE G2



Max. Increase input cyclic speed PE G2



Max. Increase torsional stiffness PE G2



➤ Improvements up to 50%

Pricing

- Gross selling prices remain unchanged

	PE G1	Adapter ME	Total	PE G2	Adapter ME	Total	Differenzce
PE2 1-stage	228 €	171 €	399 €	228 €	171 €	399 €	0 €
PE2 2-stage	395 €	171 €	566 €	395 €	171 €	566 €	0 €
PE3 1-stage	243 €	190 €	433 €	243 €	190 €	433 €	0 €
PE3 2-stage	438 €	190 €	628 €	438 €	171 €	609 €	-19 €
PE4 1-stage	274 €	187 €	461 €	274 €	187 €	461 €	0 €
PE4 2-stage	485 €	187 €	672 €	485 €	190 €	675 €	3 €
PE5 1-stage	386 €	226 €	612 €	386 €	226 €	612 €	0 €
PE5 2-stage	649 €	226 €	875 €	649 €	187 €	836 €	-39 €

- Due to the now possible smaller motor adapters there is a price reduction in two cases.

Produkt Phase Out G1

- The Generation 1 PE will be discontinued as of 01.08.2022.
- The prices for G1 will be increased by 10% as of 01.08.2022.
- A corresponding sales information with customer cover letter will be prepared and distributed in Q1 2022.

Where can I find all the information?

- Access to the link via the sales release
- Access to the documents via the gearbox intranet page

https://stoebergermany-my.sharepoint.com/:f/g/personal/ulla_goeransson_stoeber_de/EmVQn1U1dTfMgMsrYIxLjOgBB_rzZ9F29Z80Y0RcgV8upq



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