

8G planetary gearboxes

System overview

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Order no.: -

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1 Product overview

Planetary gearboxes with output shaft - 8GP

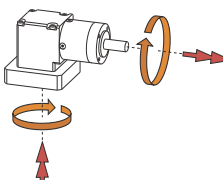
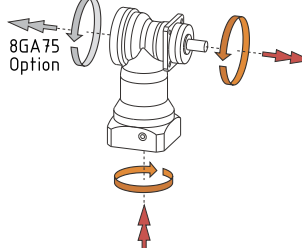


	8GP40	8GP45	8GP50	8GP55	8GP60 / 8GP70
Class	Standard				Premium
Size	040, 060, 080, 120	067, 089, 121	050, 070, 090, 120, 155	60, 80, 120	070, 090, 115, 142, 190
Tooth type	Straight				Straight/Helical
Degree of protection	IP54			IP65	
Backlash [arcmin]:					
1-stage	≤7 - ≤15	≤8 - ≤12	≤8 - ≤15	≤8 - ≤12	≤1 - ≤3
2-stage	≤12 - ≤19	≤12 - ≤15	≤12 - ≤19	≤12 - ≤15	≤1 - ≤5
3-stage	≤14 - ≤22	≤14 - ≤18	---	---	---
Gear ratio:					
1-stage	3 - 10	3 - 10	3 - 10	3 - 10	3 - 10
2-stage	9 - 100	9 - 100	9 - 100	9 - 100	12 - 100
3-stage	60 - 512	60 - 512	---	---	---
Nominal output torque [Nm]	5 - 260	15 - 260	5 - 460	15 - 260	27 - 1,800
Radial load 20,000 h [N] ¹⁾	200 - 1,750	900 - 2,950	800 - 5,200	3200 - 6,000	3200 - 21,000
Axial load 20,000 h [N] ¹⁾	200 - 2,500	1,000 - 2,500	1,000 - 7,000	4,400 - 8,000	4,400 - 21,000
Smooth shaft	Yes	Yes	Yes	Yes (default)	Yes (default)
Keyed shaft	Yes (default)	Yes (default)	Yes (default)	Yes	Yes
Toothed shaft	---	---	---	---	Yes

- 1) Refers to the center of the output shaft. Values refer to drive shaft speed $n_2 = 100 \text{ min}^{-1}$ and application factor $K_A = 1$ as well as S1 operation for electrical machines and $T = 30^\circ\text{C}$. Depends on the diameter of the respective motor shaft.

Angular planetary gearboxes - 8GA



	8GA40	8GA45	8GA50	8GA55	8GA60	8GA75
Class	Standard				Premium	
Size	040, 060, 080, 120	067, 089, 121	050, 070, 090, 120	064, 090, 110	070, 090, 115, 142	070, 090, 115, 142
Tooth type	Straight				Spiral bevel	
Degree of protection	IP54				IP65	
Backlash [arcmin]:						
1-stage	≤12 - ≤21	≤12 - ≤14	≤12 - ≤21	≤12 - ≤17	≤5	≤5
2-stage	≤16 - ≤25	≤16 - ≤18	≤16 - ≤25	≤14 - ≤19	≤7	---
3-stage	≤18 - ≤28	≤18 - ≤20	---	---	---	---
Gear ratio:						
1-stage	3 - 10	3 - 10	3 - 10	3 - 10	4 - 10	4 - 10
2-stage	9 - 100	9 - 100	9 - 100	9 - 100	16 - 100	---
3-stage	60 - 512	60 - 512	---	---	---	---
Nominal output torque [Nm]	4.5 - 260	38 - 260	4.5 - 195	14 - 260	22 - 800	22 - 800
Radial load 20,000 h [N] ¹⁾	200 - 1,750	900 - 2,950	800 - 2,500	550 - 2,400	3,200 - 11,400	3,200 - 11,400
Axial load 20,000 h [N] ¹⁾	200 - 2,500	1,000 - 2,500	1,000 - 4,000	1,200 - 3,300	4,300 - 15,000	4,300 - 15,000
Smooth shaft	Yes	Yes	Yes	---	Yes (default)	---
Keyed shaft	Yes (default)	Yes (default)	Yes (default)	---	Yes	---
Hollow shaft (one side)	---	---	---	---	---	Yes (default)
Hollow shaft (both sides)	---	---	---	---	---	Yes
Drive flange	---	---	---	Yes (default)	---	---
Direction of rotation						

1) Refers to the center of the output shaft. Values refer to drive shaft speed $n_2 = 100 \text{ min}^{-1}$ and application factor $K_A = 1$ as well as S1 operation for electrical machines and $T = 30^\circ\text{C}$. Depends on the diameter of the respective motor shaft.

Planetary gearboxes with output flange - 8GF



	8GF40	8GF60	8GF70
Class	Standard	Premium	
Size	064, 090, 110	064, 090, 110, 140, 200	064, 090, 110, 140, 200
Tooth type	Straight		Helical
Degree of protection	IP54		IP65
Backlash [arcmin]:			
1-stage	≤8 - ≤12	≤1 - ≤3	≤1 - ≤3
2-stage	≤12 - ≤16	≤1 - ≤5	≤1 - ≤5
3-stage	---	---	---
Gear ratio:			
1-stage	3 - 10	4 - 10	4 - 10
2-stage	9 - 100	16 - 100	16 - 100
3-stage	---	---	---
Nominal output torque [Nm]	15 - 260	27 - 1,800	27 - 1,800
Radial load 20,000 h [N] ¹⁾	550 - 2,400	2,400 - 33,000	2,400 - 33,000
Axial load 20,000 h [N] ¹⁾	1,200 - 3,300	4,300 - 25,000	4,300 - 25,000
Drive flange	Yes (default)	Yes (default)	Yes (default)

1) Refers to the center of the output shaft. Values refer to drive shaft speed $n_2 = 100 \text{ min}^{-1}$ and application factor $K_A = 1$ as well as S1 operation for electrical machines and $T = 30^\circ\text{C}$. Depends on the diameter of the respective motor shaft.

2 8G - Order key

8G e ff . ggg hh iii k l mm

Gearbox type

P ... Planetary gearbox with output shaft
F ... Planetary gearbox with output flange
A ... Angular planetary gearbox
 see "Gearbox type (e)" on page 6

Series

Standard ... **40, 45, 50, 55**
 Premium ... **60, 70, 75**
 see "Series (ff)" on page 6

Size

Example: **040, 050, ... 142, 190, 200** see "Size (ggg)" on page 7

Variants

-- ... Standard
-F ... Food-safe
-L ... Low temperature (not available for 8GA60 / 8GA75)
 see "Variants (hh)" on page 7

Gear ratio

Example: **003, 004, ... 256, 320, 512** see "Gear ratio (iii)" on page 8

Backlash

S ... Standard
R ... Reduced backlash (only available for 8GP60 / 8GP70 / 8GF60 / 8GF70)
 see "Backlash (k)" on page 8

Output shaft type

0 ... Output flange (8GF40 / 8GA55 with dowel pin hole and 8GF60 / 8GF70 without dowel pin hole)
5 ... Output flange (8GF60 / 8GF70 with dowel pin hole)
1 ... Smooth shaft (8GAxx / 8GPxx)
2 ... Keyed shaft (8GAxx / 8GPxx)
4 ... Toothed shaft (8GP60 / 8GP70)
6 ... Hollow shaft on one side (8GA75)
7 ... Hollow shaft on both sides (8GA75)
 see "Output shaft type (l)" on page 9

Motor mounting

For example: **L2, V3, ...** see "Motor mounting (mm)" on page 10

Note:

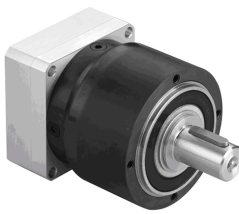
Order keys only provide information about possible combinations in exceptional cases. Information about possible combinations is available in the CAD configurator (cad.br-automation.com).

2.1 Gearbox type (e)

8G e ff . ggg hh iii k l mm

B&R gearboxes are available as angular planetary gearboxes, planetary gearboxes with a coaxial output shaft and with an output flange.

The gearbox type is specified with a letter (**e**) in the order key.

Gearbox type (e)		
P	F	A
Planetary gearbox with output shaft	Planetary gearbox with output flange	Angular planetary gearbox
		

2.2 Series (ff)

8G e ff . ggg hh iii k l mm

The gearboxes are divided into different series. The series is specified as a two-digit number (**ff**) in the order key.

Series (ff)	
40, 45, 50, 55 Standard	60, 70, 75 Premium
Offers the perfect solution for most applications with an optimized price/performance ratio. The unique modular system allows a great variety with regard to gear ratio, flange, design and much more.	For applications that demand high precision. In addition to standard spur tooth-ing, helical gearing, which runs even smoother and quieter, is also possible. The angular gearbox is also available with a hollow shaft through which cables, lines or material strands can be fed to save space. This additionally opens up new possibilities in machine design.

2.3 Size (ggg)

8G e ff . ggg hh iii k l mm

B&R gearboxes are available in different sizes.

The different sizes are distinguished by three numbers (**ggg**) in the order number. The larger these numbers, the larger the flange dimensions and power data of the respective gearbox.

8GP

Gearbox series	1-stage ¹⁾	2-stage ¹⁾	3-stage ¹⁾
8GP40	040, 060, 080, 120	040, 060, 080, 120	040, 060, 080, 120
8GP45	067, 089, 121	067, 089, 121	067, 089, 121
8GP50	050, 070, 090, 120.155	050, 070, 090, 120.155	---
8GP55	060, 080, 120	060, 080, 120	---
8GP60	070, 090, 115, 142, 190	070, 090, 115, 142, 190	---
8GP70	070, 090, 115, 142, 190	070, 090, 115, 142, 190	---

8GF

Gearbox series	1-stage ¹⁾	2-stage ¹⁾	3-stage ¹⁾
8GF40	064, 090, 110	064, 090, 110	---
8GF60	064, 090, 110, 140, 200	064, 090, 110, 140, 200	---
8GF70	064, 090, 110, 140, 200	064, 090, 110, 140, 200	---

8GA

Gearbox series	1-stage ¹⁾	2-stage ¹⁾	3-stage ¹⁾
8GA40	040, 060, 080, 120	040, 060, 080, 120	040, 060, 080, 120
8GA45	067, 089, 121	067, 089, 121	067, 089, 121
8GA50	050, 070, 090, 120	050, 070, 090, 120	---
8GA55	064, 090, 110	064, 090, 110	---
8GA60	070, 090, 115	070, 090, 115, 142	---
8GA75	070, 090, 115.142	---	---

1) 1-stage, 2-stage or 3-stage: Defined by the selected gear ratio.

2.4 Variants (hh)

8G e ff . ggg hh iii k l mm

B&R gearboxes are available with various lubrications.

The different versions are distinguished by two characters (**hh**) in the order number.

Design code	Variant	Availability
--	Standard	All gearboxes
-F	Food-safe lubrication H1-compliant Same properties as standard lubrication	All gearboxes
-L	Low-temperature lubrication $T_{min} = -40^{\circ}\text{C}$ Optimal operating temperature: Maximum 50°C	Not available for 8GA60 / 8GA75

2.5 Gear ratio (iii)

8G e ff . ggg hh iii k l mm

B&R gearboxes are available with different gear ratios.

The code (iii) in the order number contains the gear ratio.

8GP

Gearbox series	1-stage:	2-stage:	3-stage:
8GP40	003, 004, 005, 007, 008, 010	009, 012, 015, 016, 020, 025, 032, 040, 064, 100	060, 080, 120, 160, 200, 256, 320, 512
8GP45	003, 004, 005, 007, 008, 010	009, 012, 015, 016, 020, 025, 032, 040, 064, 100	060, 080, 120, 160, 200, 256, 320, 512
8GP50	003, 004, 005, 007, 008, 010	009, 012, 015, 016, 020, 025, 032, 040, 064, 100	---
8GP50-155	004, 005, 010	016, 020, 025, 040, 050, 100	---
8GP55	003, 004, 005, 007, 008, 010	009, 012, 015, 016, 020, 025, 032, 040, 064, 100	---
8GP60	003, 004, 005, 007, 008, 010	012, 015, 016, 020, 025, 032, 040, 064, 100	---
8GP70	003, 004, 005, 007, 010	012, 015, 016, 020, 025, 035, 040, 050, 070, 100	---

8GF

Gearbox series	1-stage:	2-stage:	3-stage:
8GF40	003, 004, 005, 007, 008, 010	009, 012, 015, 016, 020, 025, 032, 040, 064, 100	---
8GF60	004, 005, 007, 008, 010	016, 020, 025, 032, 040, 050, 064, 100	---
8GF70	004, 005, 007, 010	016, 020, 025, 035, 040, 050, 070, 100	---

8GA

Gearbox series	1-stage:	2-stage:	3-stage:
8GA40	003, 004, 005, 007, 008, 010	009, 012, 015, 016, 020, 025, 032, 040, 064, 100	060, 080, 120, 160, 200, 256, 320, 512
8GA45	003, 004, 005, 007, 008, 010	009, 012, 015, 016, 020, 025, 032, 040, 064, 100	060, 080, 120, 160, 200, 256, 320, 512
8GA50	003, 004, 005, 007, 008, 010	009, 012, 015, 016, 020, 025, 032, 040, 064, 100	---
8GA55	003, 004, 005, 007, 008, 010	009, 012, 015, 016, 020, 025, 032, 040, 064, 100	---
8GA60	004, 005, 008, 010	016, 020, 025, 032, 040, 050, 064, 100	---
8GA75	004, 005, 008, 010	---	---

2.6 Backlash (k)

8G e ff . ggg hh iii k l mm

B&R premium gearboxes are also available with reduced backlash.

Backlash is specified with a letter (k) in the order key.

	Availability	
	S Standard backlash	R Reduced backlash
Standard ¹⁾	Yes	---
Premium ²⁾	Yes	Yes

1) Value "Max. backlash" is specified in the technical data.

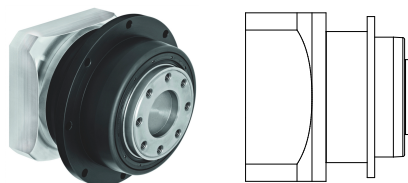
2) Premium gearboxes: 8GP60, 8GP70 / 8GA60, 8GA75 / 8GF60, 8GF70

2.7 Output shaft type (I)

8G e ff . ggg hh iii k **I** mm

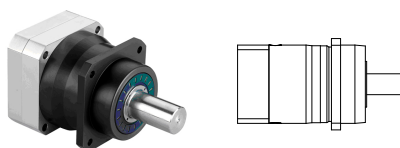
The shape of the output shaft is specified with a digit in the order key (I).

Flange output shaft



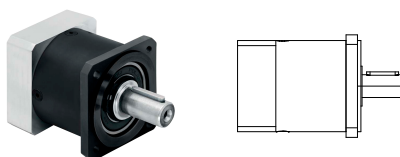
Code (I)	Gearbox series	Flange output shaft	Dowel pin hole
0	8GF40	Yes	Yes
0	8GF60 / 8GF70	Yes	No
5		Yes	Yes

Smooth shaft



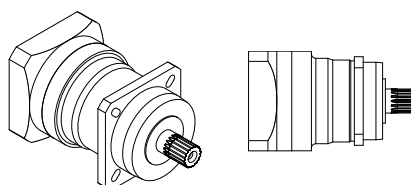
Code (I)	Gearbox series	Smooth shaft
1	8GA.. / 8GP..	Yes

Keyed shaft (per DIN 6885)



Code (I)	Gearbox series	Keyed shaft (per DIN 6885)
2	8GA.. / 8GP..	Yes

Toothed shaft (per DIN 5480)



Code (I)	Gearbox series	Toothed shaft (per DIN 5480)
4	8GP60 / 8GP70	Yes

Hollow shaft



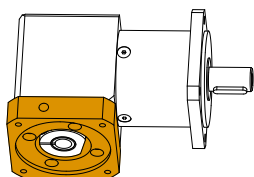
Code (I)	Gearbox series	Hollow shaft (one side)	Hollow shaft (two sides)
6	8GA75	Yes	---
7	8GA75	---	Yes

2.8 Motor mounting (mm)

8G e ff . ggg hh iii k l mm

B&R gearboxes perfectly match the extensive B&R portfolio of synchronous and stepper motors.

The motor mounting is specified with two characters in the order key (**mm**).



The code (**mm**) for the suitable mounting flange – for motor mounting – must be determined from the following table.

Example:

8LVA servo motor, motor size 2

1st character = V

2nd character = 2 (motor size)

Code (**mm**) = **V2**

Servo motors		1st character	2nd character
8LVA		V	1, 2 or 3 (motor size)
8LWA		V	1, 2 or 3 (motor size)
8LS	8LSAA	J	3
	8LSA5A/8LSC5A	L	5
	8LSA5B/8LSC5B	O	5
	8LSA5C/8LSC5C	O	5
	8LSA76/77/78 and 8LSC76/77/78	Q	7
	8LSA85/8LSA86	M	8
	All other 8LSA / 8LSC	L	2, 3, 4, 5, 6, 7 or 8 (motor size)
8LSN		N	4 or 5 (motor size)
8JSA		J	2, 3, 4, 5, 6 or 7 (motor size)
Stepper motors		1st character	2nd character
80MPD (flange 56 mm = NEMA 23)		P	D
80MPF (flange 60 mm = NEMA 23)		P	F
80MPH (flange 86 mm = NEMA 34)		P	H
ACOPOSmotor		1st character	2nd character
8DI3x0...		V	3
8DI4x0...		L	4
8DI5x0...		L	5
ACOPOSmotor Compact		1st character	2nd character
8D1A2...		V	2
8D1A3...		V	3

3 Motor-gearbox combinations

The possible combinations of B&R gearboxes with B&R motors are listed in the following tables.

8LS...-3 synchronous motors

Standard planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55...)
 see "Standard planetary gearboxes (8LS...-3)" on page 12

Premium planetary gearboxes (8Gx60..., 8Gx70..., 8Gx75...)
 see "Premium planetary gearboxes (8LS...-3)" on page 13

8LS...-4 synchronous motors

Standard planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55...)
 see "Standard planetary gearboxes (8LS...-4)" on page 14

Premium planetary gearboxes (8Gx60..., 8Gx70..., 8Gx75...)
 see "Premium planetary gearboxes (8LS...-4)" on page 15

8LSN synchronous motors

Standard and premium planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55..., 8Gx60..., 8Gx70..., 8Gx75...)
 see "Planetary gearboxes (8LSN)" on page 16

8LVA / 8LWA synchronous motors

Standard and premium planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55..., 8Gx60..., 8Gx70..., 8Gx75...)
 see "Planetary gearboxes (8LVA / 8LWA)" on page 17

(Based on the 8LVA servomotors, 8LVB gear motors with directly mounted planetary gearboxes are also available. For additional information, see the B&R website (www.br-automation.com).)

8JSA synchronous motors

Standard and premium planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55..., 8Gx60..., 8Gx70..., 8Gx75...)
 see "Planetary gearboxes (8JSA)" on page 18

80MP stepper motors

Standard and premium planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55..., 8Gx60..., 8Gx70..., 8Gx75...)
 see "Planetary gearboxes (80MP)" on page 19

ACOPOSmotor - 8DI

Standard and premium planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55..., 8Gx60..., 8Gx70..., 8Gx75...)
 see "Planetary gearboxes (8DI - ACOPOSmotor)" on page 20

ACOPOSmotor Compact - 8D1A

Standard and premium planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55..., 8Gx60..., 8Gx70...)
 see "Planetary gearboxes (8D1A - ACOPOSmotor Compact)" on page 21

(Based on the 8D1A modules, 8D1B gear motors with directly mounted planetary gearboxes are also available to a lesser extent. For additional information, see the B&R website (www.br-automation.com).)

3.1 Standard planetary gearboxes (8LS...-3)

8Gx40, 8Gx45, 8Gx50, 8Gx55

Motor Size		8LSA...-3																								8LSC...-3																										
		2	A	3			4		5				6			7			8			4		5			6		7		8																					
Length		3-6	2-3	4	3	4-5	6-7	3	4	5-6	3-4	5-6	7	A	B C	3	4-5	6	3	4-5	6-8	3	4	5-6	3-4	5-6	3-4	5-7	A	B C	3	4-6	3-5	6-8	3	4	5-6															
Motor mount- ing		L2	J3		L3		L4		L5				L5	O5	L6		L7		Q7	L8	M8	L4	L5		L5	O5	L6		L7	Q7	L8	M8																				
Gearbox type / Gear ratio																																																				
8GP40	040	X																																																		
	060	X	X	X	X	X	O	X	O	O																O	O																									
	080		X	X	X	X	X	X	X	X	X	O	O	O		O	O	O							X	O	O	O	O			O	O																			
	120				X	X	X	X	X	X	X	X	X	X	O	X	X	O	X	O					X	X	X	X	O	O		X	O	O																		
8GP45	067	X	X	X	X	X	O	X	O	O																O	O																									
	089		X	X	X	X	X	X	X	X	X	O	O	O		O	O	O							X	O	O	O	O			O	O																			
	121				X	X	X	X	X	X	X	X	X	X	O	X	X	O	X	O					X	X	X	X	O	O		X	O	O																		
8GP50	050	X																																																		
	070	X	X	X	X	X	O	X	O	O																O	O																									
	090		X	X	X	X	X	X	X	X	X	O	O	O		O	O	O							X	O	O	O	O			O	O																			
	120				X	X	X	X	X	X	X	X	X	X	O	X	X	O	X	O					X	X	X	X	O	O		X	O	O																		
	155							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O							
8GP55	060	X	X	X	X	X	O	X	O	O																O	O																									
	080		X	X	X	X	X	X	X	X	X	O	O	O		O	O	O							X	O	O	O	O			O	O																			
	120				X	X	X	X	X	X	X	X	X	X	O	X	X	O	X	O					X	X	X	X	O	O		X	O	O																		
8GA40	040	X																																																		
	060	X	X	O	X	O	O																																													
	080		X	X	X	X	X	X	X	O																O	O																									
	120				X	X	X	X	X	X	X	X	O	O		X	O	O							X	X	X	O	O			O	O																			
8GA45	067	X	X	O	X	O	O																																													
	089		X	X	X	X	X	X	X	O																O	O																									
	121				X	X	X	X	X	X	X	O	O			X	O	O							X	X	X	O	O			O	O																			
8GA50	050	X																																																		
	070	X	X	O	X	O	O																																													
	090		X	X	X	X	X	X	X	O																O	O																									
	120				X	X	X	X	X	X	X	X	O	O		X	O	O							X	X	X	O	O			O	O																			
8GA55	064	X	X	O	X	O	O																																													
	090		X	X	X	X	X	X	X	O																O	O																									
	110				X	X	X	X	X	X	X	X	O	O		X	O	O							X	X	X	O	O			O	O																			
8GF40	064	X	X	X	X	X	O	X	O	O																O	O																									
	090		X	X	X	X	X	X	X	X	X	O	O	O		O	O	O							X	O	O	O	O			O	O																			
	110				X	X	X	X	X	X	X	X	X	X	O	X	X	O	X	O					X	X	X	X	O	O		X	O	O																		

O Combination **only possible with stationary and vertical mounting orientation**X Combination possible **with stationary mounting orientation**

3.2 Premium planetary gearboxes (8LS...-3)

8Gx60, 8Gx70, 8Gx75

Motor Size		8LSA...-3																8LSC...-3																			
		2	A	3	4	5			6			7				8				4			5				6				7				8		
Length		3-6	2-4	3-7	3-5	6	3-6	7 A	B C	3	4	5-6	3-4	5	6-7	8	3	4	5	6	3	4-5	6	3-4	5-6	7 A	B	C	3	4-6	3	4-5	6	7-8	3	4	5-6
Motor mounting		L2	J3	L3	L4	L5			O5	L6			L7	Q7	L8	M8	L4			L5			O5			L6			L7	Q7	L8	M8					
Gearbox type / Gear ratio																																					
8GP60	070	X	X	X	X	X															X	X	O														
	090		X	X	X	X	X	X		X	X	O									X	X	X	X	X	O			X	O							
	115			X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	O	X	X	X	X	X	X	X		
	142				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	
	190						X	X	X	X	X	X	X	X	X	X	X	X	X	O				X	X	X	X	X	X	X	X	X	X	X	X	O	O
8GP70	070	X	X	X	X	X															X	X	O														
	090 ¹⁾	X	X	X	X	X	X	X		X	X	O									X	X	X	X	X	O			X	O							
	090 ²⁾	X	X	X	X	X															X	X	O														
	115 ¹⁾	X	X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	O	X	X	X	X						
	115 ²⁾	X	X	X	X	X	X			X	X	O									X	X	X	X	X	O			X	O							
	142 ¹⁾				X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	
	142 ²⁾			X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	O	X	X	X	X						
	190 ¹⁾						X	X	X	X	X	X	X	X	X	X	X	X	O				X	X	X	X	X	X	X	X	X	X	X	X	X	O	
190 ²⁾				X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	
8GA60	070	X	X	X	X	O															X	O	O														
	090 ¹⁾	X	X	X	X	X	X	O		X	O	O									X	X	X	X	O	O			O	O							
	090 ²⁾	X	X	X	X	O															X	O	O						O	O							
	115 ¹⁾	X	X	X	X	X	X	O	X	X	X	X	X	O							X	X	X	X	X	O	O	X	O	X	O						
	115 ²⁾	X	X	X	X	X	O		X	O	O										X	X	X	X	O	O			O	O							
	142 ¹⁾				X	X	X	X	X	X	X	X	X	X	X	O	X	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	
	142 ²⁾			X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	O	X	X	X	X						
8GA75	070 ¹⁾	X	X	X	X	O															X	O	O														
	090 ¹⁾		X	X	X	X	O		X	O	O										X	X	X	X	O	O			O	O							
	115 ¹⁾			X	X	X	X	O	X	X	X	X	O								X	X	X	X	X	O	O	X	O	X	O						
	142 ¹⁾				X	X	X	X	X	X	X	X	X	X	X	O	X	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	
8GF60	064	X	X	X	X	X															X	X	O														
	090 ¹⁾	X	X	X	X	X	X		X	X	O										X	X	X	X	X	O			X	O							
	090 ²⁾	X	X	X	X	X															X	X	O														
	110 ¹⁾		X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	O	X	X	X	X						
	110 ²⁾		X	X	X	X	X		X	X	O										X	X	X	X	X	O			X	O							
	140 ¹⁾				X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	
	140 ²⁾		X	X	X	X	X	X	X	X	X	X	X								X	X	X	X	X	X	O	X	X	X	X	X					
	200 ¹⁾						X	X	X	X	X	X	X	X	X	X	X	X	O				X	X	X	X	X	X	X	X	X	X	X	X	X	O	
200 ²⁾				X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O		
8GF70	064	X	X	X	X	X															X	X	O														
	090 ¹⁾	X	X	X	X	X	X		X	X	O										X	X	X	X	X	O			X	O							
	090 ²⁾	X	X	X	X	X															X	X	O														
	110 ¹⁾		X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	O	X	X	X	X						
	110 ²⁾		X	X	X	X	X		X	X	O										X	X	X	X	X	O			X	O							
	140 ¹⁾				X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	
	140 ²⁾		X	X	X	X	X	X	X	X	X	X	X								X	X	X	X	X	X	O	X	X	X	X	X					
	200 ¹⁾						X	X	X	X	X	X	X	X	X	X	X	X	O				X	X	X	X	X	X	X	X	X	X	X	X	X	O	
200 ²⁾				X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O		

1) 1-stage:

2) 2-stage:

O Combination **only possible with stationary and vertical mounting orientation**X Combination possible **with stationary mounting orientation**

3.3 Standard planetary gearboxes (8LS...-4)

8Gx40, 8Gx45, 8Gx50, 8Gx55

Motor Size	8LSA...-4														8LSC...-4									
	2		3		4				B		5			4			B			5				
Length	3-6	7	4-5	6-7	3-4	5	6	7	3-5	6	3-4	5	6-7	4-5	6	7	3	4-5	6	3-4	5	6	7	
Motor mounting	L2	A2	L3	J4	L4			A4	J5		L5		J6	L4		A4	J5			L5		J6		
Gearbox type / Gear ratio																								
8GP40	040	X	X																					
	060	X	X	X	X	X	O	O						O	O									
	080		X	X	X	X	X	X	X	O	X	O		X	O	O	X	O	O	O	O			
	120			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	
8GP45	067	X	X	X	X	O	O							O	O									
	089		X	X	X	X	X	X	X	O	X	O		X	O	O	X	O	O	O	O			
	121			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	
8GP50	050	X	X																					
	070	X	X	X	X	O	O							O	O									
	090		X	X	X	X	X	X	X	O	X	O		X	O	O	X	O	O	O	O			
	120			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	
	155					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
8GP55	060	X	X	X	X	O	O							O	O									
	080		X	X	X	X	X	X	X	O	X	O		X	O	O	X	O	O	O	O			
	120			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	
8GA40	040	X																						
	060	X	X	X																				
	080		X	X	X	X	X	O						O	O									
	120			X	X	X	X	X	X	X	X	X		X	X	X	X	X	O	X	O			
8GA45	067	X	X	X																				
	089		X	X	X	X	O							O	O									
	121			X	X	X	X	X	X	X	X	X		X	X	X	X	X	O	X	O			
8GA50	050	X																						
	070	X	X	X																				
	090		X	X	X	X	O							O	O									
	120			X	X	X	X	X	X	X	X	X		X	X	X	X	X	O	X	O			
8GA55	064	X	X	X																				
	090		X	X	X	X	O							O	O									
	110			X	X	X	X	X	X	X	X	X		X	X	X	X	X	O	X	O			
8GF40	064	X	X	X	X	O	O							O	O									
	090		X	X	X	X	X	X	X	O	X	O		X	O	O	X	O	O	O	O			
	110			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	

O Combination **only possible with stationary and vertical mounting orientation**X Combination possible **with stationary mounting orientation**

3.4 Premium planetary gearboxes (8LS...-4)

8Gx60, 8Gx70, 8Gx75

Motor Size		8LSA...-4									8LSC...-4						
		2		3		4		B		5	4		B		5		
Length		3-6	7	4-5	6-7	3-6	7	3-6	3-5	6-7	4-6	7	3-5	6	3-4	5	6-7
Motor mounting		L2	A2	L3	J4	L4	A4	J5	L5	J6	L4	A4	J5		L5		J6
Gearbox type / Gear ratio																	
8GP60	070	X	X	X	X	X					X						
	090		X	X	X	X	X	X	X		X	X	X	X	X	X	
	115			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	142					X	X	X	X	X	X	X	X	X	X	X	X
	190							X	X	X			X	X	X	X	X
8GP70	070	X	X	X	X	X					X						
	090 ¹⁾	X	X	X	X	X	X	X	X		X	X	X	X	X	X	
	090 ²⁾	X	X	X	X	X					X						
	115 ¹⁾			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	115 ²⁾		X	X	X	X	X	X	X		X	X	X	X	X	X	
	142 ¹⁾				X	X	X	X	X	X	X	X	X	X	X	X	X
	142 ²⁾			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	190 ¹⁾							X	X	X			X	X	X	X	X
	190 ²⁾					X	X	X	X	X	X	X	X	X	X	X	X
8GA60	070	X	X	X	X	X					O						
	090 ¹⁾	X	X	X	X	X	X	X	X		X	X	X	O	X	O	
	090 ²⁾	X	X	X	X	X					O						
	115 ¹⁾			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	115 ²⁾		X	X	X	X	X	X	X		X	X	X	O	X	O	
	142 ¹⁾				X	X	X	X	X	X	X	X	X	X	X	X	X
	142 ²⁾			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8GA75	070 ¹⁾	X	X	X	X	X					O						
	090 ¹⁾		X	X	X	X	X	X	X		X	X	X	O	X	O	
	115 ¹⁾			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	142 ¹⁾					X	X	X	X	X	X	X	X	X	X	X	X
8GF60	064	X	X	X	X	X					X						
	090 ¹⁾	X	X	X	X	X	X	X	X		X	X	X	X	X	X	
	090 ²⁾	X	X	X	X	X					X						
	110 ¹⁾			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	110 ²⁾		X	X	X	X	X	X	X		X	X	X	X	X	X	
	140 ¹⁾				X	X	X	X	X	X	X	X	X	X	X	X	X
	140 ²⁾			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	200 ¹⁾							X	X	X			X	X	X	X	X
	200 ²⁾					X	X	X	X	X	X	X	X	X	X	X	X
8GF70	064	X	X	X	X	X					X						
	090 ¹⁾	X	X	X	X	X	X	X	X		X	X	X	X	X	X	
	090 ²⁾	X	X	X	X	X					X						
	110 ¹⁾			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	110 ²⁾		X	X	X	X	X	X	X		X	X	X	X	X	X	
	140 ¹⁾				X	X	X	X	X	X	X	X	X	X	X	X	X
	140 ²⁾			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	200 ¹⁾							X	X	X			X	X	X	X	X

1) 1-stage:

2) 2-stage:

O Combination **only possible with stationary and vertical mounting orientation**X Combination possible **with stationary mounting orientation**

3.5 Planetary gearboxes (8LSN)

Standard planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55...)

Motor Size		8LSN						
		4				5		
Length		3	4	5	6	4-5	6-7	8
Motor mounting		N4				N5		
Gearbox type/ratio								
8GP40	040							
	060	O	O	O	O			
	080	X	X	O	O	O	O	O
	120	X	X	X	X	X	X	O
8GP45	067	O	O	O	O			
	089	X	X	O	O	O	O	O
	121	X	X	X	X	X	X	O
8GP50	050							
	070	O	O	O	O			
	090	X	X	O	O	O	O	O
	120	X	X	X	X	X	X	O
	155	X	X	X	X	X	X	X
8GP55	060	O	O	O	O			
	080	X	X	O	O	O	O	O
	120	X	X	X	X	X	X	O
8GA40	040							
	060							
	080	X	O	O	O			
	120	X	X	X	X	X	O	O
8GA45	067							
	089	X	O	O	O			
	121	X	X	X	X	X	O	O
8GA50	050							
	070							
	090	X	O	O	O			
	120	X	X	X	X	X	O	O
8GA55	064							
	090	X	O	O	O			
	110	X	X	X	X	X	O	O
8GF40	064	O	O	O	O			
	090	X	X	O	O	O	O	O
	110	X	X	X	X	X	X	O

Premium planetary gearboxes (8Gx60..., 8Gx70..., 8Gx75...)

Motor Size		8LSN					
		4			5		
Length		3	4-5	6	4-5	6-7	8
Motor mounting		N4			N5		
Gearbox type/ ratio							
8GP60	070	X	X	O			
	090	X	X	X	X	X	O
	115	X	X	X	X	X	X
	142	X	X	X	X	X	X
	190				X	X	X
8GP70	070	X	X	O			
	090 ¹⁾	X	X	X	X	X	O
	090 ²⁾	X	X	O			
	115 ¹⁾	X	X	X	X	X	X
	115 ²⁾	X	X	X	X	X	O
	142 ¹⁾	X	X	X	X	X	X
	142 ²⁾	X	X	X	X	X	X
	190 ¹⁾				X	X	X
	190 ²⁾	X	X	X	X	X	X
8GA60	070	X	O	O			
	090 ¹⁾	X	X	X	X	O	O
	090 ²⁾	X	O	O			
	115 ¹⁾	X	X	X	X	X	X
	115 ²⁾	X	X	X	X	O	O
	142 ¹⁾	X	X	X	X	X	X
	142 ²⁾	X	X	X	X	X	X
8GA75	070 ¹⁾	X	O	O			
	090 ¹⁾	X	X	X	X	O	O
	115 ¹⁾	X	X	X	X	X	X
	142 ¹⁾	X	X	X	X	X	X
8GF60	064	X	X	O			
	090 ¹⁾	X	X	X	X	X	O
	090 ²⁾	X	X	O			
	110 ¹⁾	X	X	X	X	X	X
	110 ²⁾	X	X	X	X	X	O
	140 ¹⁾	X	X	X	X	X	X
	140 ²⁾	X	X	X	X	X	X
	200 ¹⁾				X	X	X
	200 ²⁾	X	X	X	X	X	X
8GF70	064	X	X	O			
	090 ¹⁾	X	X	X	X	X	O
	090 ²⁾	X	X	O			
	110 ¹⁾	X	X	X	X	X	X
	110 ²⁾	X	X	X	X	X	O
	140 ¹⁾	X	X	X	X	X	X
	140 ²⁾	X	X	X	X	X	X
	200 ¹⁾				X	X	X
	200 ²⁾	X	X	X	X	X	X

- 1) 1-stage:
 2) 2-stage:
 O Combination **only possible with stationary and vertical mounting orientation**
 X Combination possible **with stationary mounting orientation**

3.6 Planetary gearboxes (8LVA / 8LWA)

Standard planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55...)

Motor Size		8LV/8LW		
		1	2	3
Length		3	2-3	3
Motor mounting		V1	V2	V3
Gearbox type/ratio				
8GP40	040	X		
	060		X	X
	080		X	X
	120			
8GP45	067		X	X
	089		X	X
	121			
8GP50	050	X		
	070		X	X
	090		X	X
	120			
	155			
8GP55	060		X	X
	080		X	X
	120			
8GA40	040	X		
	060		X	
	080		X	X
	120			
8GA45	067		X	
	089		X	X
	121			
8GA50	050	X		
	070		X	
	090		X	X
	120			
8GA55	064		X	
	090		X	X
	110			
8GF40	064		X	X
	090		X	X
	110			

Premium planetary gearboxes (8Gx60..., 8Gx70..., 8Gx75...)

Motor Size		8LV/8LW		
		1	2	3
Length		3	2-3	3
Motor mounting		V1	V2	V3
Gearbox type/ratio				
8GP60	070		X	X
	090		X	X
	115			X
	142			
	190			
8GP70	070		X	X
	090 ¹⁾		X	X
	090 ²⁾		X	X
	115 ¹⁾			X
	115 ²⁾		X	X
	142 ¹⁾			
	142 ²⁾			X
	190 ¹⁾			
8GA60	070		X	X
	090 ¹⁾		X	X
	090 ²⁾		X	X
	115 ¹⁾			X
	115 ²⁾		X	X
	142 ¹⁾			
8GA75	070 ¹⁾		X	X
	090 ¹⁾		X	X
	115 ¹⁾			X
	142 ¹⁾			
8GF60	064		X	X
	090 ¹⁾		X	X
	090 ²⁾		X	X
	110 ¹⁾			X
	110 ²⁾		X	X
	140 ¹⁾			
	140 ²⁾			X
	200 ¹⁾			
8GF70	064		X	X
	090 ¹⁾		X	X
	090 ²⁾		X	X
	110 ¹⁾			X
	110 ²⁾		X	X
	140 ¹⁾			
	140 ²⁾			X
	200 ¹⁾			

1) 1-stage:

2) 2-stage:

X Combination possible **with stationary mounting orientation**

3.7 Planetary gearboxes (8JSA)

Standard planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55...)

Motor Size		8JSA							
		2	3	4		5		6	7
Length		2-3	4	1-3	2-3	4	1-3	4	2-5
Motor mounting		J2		J3	J4		J5		J6
Gearbox type/ratio									J7
8GP40	040	X	X						
	060	X	X	X	X	O			
	080			X	X	X	X	O	
	120				X	X	X	X	X
8GP45	067	X	X	X	X	O			
	089			X	X	X	X	O	
	121				X	X	X	X	X
8GP50	050	X	X						
	070	X	X	X	X	O			
	090			X	X	X	X	O	
	120				X	X	X	X	X
	155						X	X	X
8GP55	060	X	X	X	X	O			
	080			X	X	X	X	O	
	120				X	X	X	X	X
8GA40	040	X	O						
	060	X	X	X					
	080			X	X	X			
	120				X	X	X	X	
8GA45	067	X	X	X					
	089			X	X	X			
	121				X	X	X	X	
8GA50	050	X	O						
	070	X	X	X					
	090			X	X	X			
	120				X	X	X	X	
8GA55	064	X	X	X					
	090			X	X	X			
	110				X	X	X	X	
8GF40	064	X	X	X	X	O			
	090			X	X	X	X	O	
	110				X	X	X	X	X

Premium planetary gearboxes (8Gx60..., 8Gx70..., 8Gx75...)

Motor Size		8JSA					
		2	3	4	5	6	7
Length		2-4	1-3	2-4	1-4	2-5	2-4
Motor mounting		J2	J3	J4	J5	J6	J7
Gearbox type/ratio							
8GP60	070	X	X	X			
	090		X	X	X		
	115			X	X	X	
	142				X	X	X
	190				X	X	X
8GP70	070	X	X	X			
	090 ¹⁾	X	X	X	X		
	090 ²⁾	X	X	X			
	115 ¹⁾		X	X	X	X	
	115 ²⁾		X	X	X		
	142 ¹⁾			X	X	X	X
	142 ²⁾			X	X	X	
	190 ¹⁾				X	X	X
	190 ²⁾				X	X	X
8GA60	070	X	X	X			
	090 ¹⁾	X	X	X	X		
	090 ²⁾	X	X	X			
	115 ¹⁾		X	X	X	X	
	115 ²⁾		X	X	X		
	142 ¹⁾			X	X	X	X
8GA75	070 ¹⁾	X	X	X			
	090 ¹⁾		X	X	X		
	115 ¹⁾			X	X	X	
	142 ¹⁾				X	X	X
8GF60	064	X	X	X			
	090 ¹⁾	X	X	X	X		
	090 ²⁾	X	X	X			
	110 ¹⁾		X	X	X	X	
	110 ²⁾		X	X	X		
	140 ¹⁾			X	X	X	X
	140 ²⁾			X	X	X	
	200 ¹⁾				X	X	X
	200 ²⁾				X	X	X
8GF70	064	X	X	X			
	090 ¹⁾	X	X	X	X		
	090 ²⁾	X	X	X			
	110 ¹⁾		X	X	X	X	
	110 ²⁾		X	X	X		
	140 ¹⁾			X	X	X	X
	140 ²⁾			X	X	X	
	200 ¹⁾				X	X	X
	200 ²⁾				X	X	X

1) 1-stage:

2) 2-stage:

X Combination possible with stationary mounting orientation

3.8 Planetary gearboxes (80MP)

Standard planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55...)

Motor Size		80MP		
		D	F	H
Length		All	All	All
Motor mounting		PD	PF	PH
Gearbox type/ratio				
8GP40	040	X	X	
	060	X	X	X
	080			X
	120			X
8GP45	067	X	X	X
	089			X
	121			X
8GP50	050	X	X	
	070	X	X	X
	090			X
	120			X
	155			
8GP55	060	X	X	X
	080			X
	120			X
8GA40	040	X	X	
	060	X	X	O
	080			X
	120			X
8GA45	067	X	X	O
	089			X
	121			X
8GA50	050	X	X	
	070	X	X	O
	090			X
	120			X
8GA55	064	X	X	O
	090			X
	110			X
8GF40	064	X	X	X
	090			X
	110			X

Premium planetary gearboxes (8Gx60..., 8Gx70..., 8Gx75...)

Motor Size		80MP		
		D	F	H
Length		All	All	All
Motor mounting		PD	PF	PH
Gearbox type/ratio				
8GP60	070			X
	090			X
	115			X
	142			
	190			
8GP70	070			X
	090 ¹⁾			X
	090 ²⁾			X
	115 ¹⁾			X
	115 ²⁾			X
	142 ¹⁾			
	142 ²⁾			X
	190 ¹⁾			
8GA60	070			X
	090 ¹⁾			X
	090 ²⁾			X
	115 ¹⁾			X
	115 ²⁾			X
	142 ¹⁾			
8GA75	070 ¹⁾			X
	090 ¹⁾			X
	115 ¹⁾			X
	142 ¹⁾			
8GF60	064			X
	090 ¹⁾			X
	090 ²⁾			X
	110 ¹⁾			X
	110 ²⁾			X
	140 ¹⁾			
	140 ²⁾			X
	200 ¹⁾			
8GF70	064			X
	090 ¹⁾			X
	090 ²⁾			X
	110 ¹⁾			X
	110 ²⁾			X
	140 ¹⁾			
	140 ²⁾			X
	200 ¹⁾			

1) 1-stage:

2) 2-stage:

X Combination possible **with stationary mounting orientation**

3.9 Planetary gearboxes (8DI - ACOPOSmotor)

Standard planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55...)

Motor Size		8DI (ACOPOSmotor)		
		3	4	5
Length		All lengths		
Motor mounting		V3	L4	L5
Gearbox type/ratio				
8GP40	040			
	060	X	X	
	080	X	X	X
	120		X	X
8GP45	067	X	X	
	089	X	X	X
	121		X	X
8GP50	050			
	070	X	X	
	090	X	X	X
	120		X	X
	155		X	X
8GP55	060	X	X	
	080	X	X	O
	120		X	X
8GA40	040			
	060			
	080	X	X	X
	120		X	X
8GA45	067			
	089	X	O	
	121		X	X
8GA50	050			
	070			
	090	X	X	
	120		X	X
8GA55	064			
	090	X	O	
	110		X	X
8GF40	064	X	O	
	090	X	X	X
	110		X	X

Premium planetary gearboxes (8Gx60..., 8Gx70..., 8Gx75...)

Motor Size		8DI (ACOPOSmotor)		
		3	4	5
Length		All lengths		
Motor code		V3	L4	L5
Gearbox type/ratio				
8GP60	070	X	X	
	090	X	X	X
	115	X	X	X
	142		X	X
	190			X
8GP70	070	X	X	
	090 ¹⁾	X	X	X
	090 ²⁾	X	X	
	115 ¹⁾	X	X	X
	115 ²⁾	X	X	X
	142 ¹⁾		X	X
	142 ²⁾	X	X	X
	190 ¹⁾			X
8GA60	190 ²⁾		X	X
	070	X	X	
	090 ¹⁾	X	X	X
	090 ²⁾	X	X	
	115 ¹⁾	X	X	X
	115 ²⁾	X	X	X
8GA75	142 ¹⁾		X	X
	142 ²⁾	X	X	X
	070 ¹⁾	X	X	
	090 ¹⁾	X	X	X
	115 ¹⁾	X	X	X
8GF60	142 ¹⁾		X	X
	064	X	X	
	090 ¹⁾	X	X	X
	090 ²⁾	X	X	
	110 ¹⁾	X	X	X
	110 ²⁾	X	X	X
	140 ¹⁾		X	X
	140 ²⁾	X	X	X
8GF70	200 ¹⁾			X
	200 ²⁾		X	X
	064	X	X	
	090 ¹⁾	X	X	X
	090 ²⁾	X	X	
	110 ¹⁾	X	X	X
	110 ²⁾	X	X	X
	140 ¹⁾		X	X
	140 ²⁾	X	X	X
	200 ¹⁾			X
	200 ²⁾		X	X

- 1) 1-stage:
 2) 2-stage:
 O Combination **only possible with stationary and vertical mounting orientation**
 X Combination possible **with stationary mounting orientation**

3.10 Planetary gearboxes (8D1A - ACOPOSmotor Compact)

Standard planetary gearboxes (8Gx40..., 8Gx45..., 8Gx50..., 8Gx55...)

Motor Size		8D1A (ACOPOSmotor Compact)	
		2	3
Length		2-3	3
Motor mounting		V2	V3
Gearbox type/ratio			
8GP40	040		
	060	X	X
	080	X	X
	120		
8GP45	067	X	X
	089	X	X
	121		
8GP50	050		
	070	X	X
	090	X	X
	120		
	155		
8GP55	060	X	X
	080	X	X
	120		
8GA40	040		
	060	X	
	080	X	X
	120		
8GA45	067	X	
	089	X	X
	121		
8GA50	050		
	070	X	
	090	X	X
	120		
8GA55	064	X	
	090		X
	110		
8GF40	064	X	X
	090		X
	110		

Premium planetary gearboxes (8Gx60..., 8Gx70...)

Motor Size		8D1A (ACOPOSmotor Compact)	
		2	3
Length		2-3	3
Motor mounting		V2	V3
Gearbox type/ratio			
8GP60	070	X	X
	090		X
	115		
	142		
	190		
8GP70	070	X	X
	090 ¹⁾		X
	090 ²⁾		X
	115 ¹⁾		
	115 ²⁾		
	142 ¹⁾		
	142 ²⁾		
	190 ¹⁾		
8GA60	070	X	X
	090 ¹⁾		X
	090 ²⁾		X
	115 ¹⁾		
	115 ²⁾		
	142 ¹⁾		
8GA75	070 ¹⁾		
	090 ¹⁾		
	115 ¹⁾		
	142 ¹⁾		
8GF60	064	X	X
	090 ¹⁾		X
	090 ²⁾		X
	110 ¹⁾		
	110 ²⁾		
	140 ¹⁾		
	140 ²⁾		
	200 ¹⁾		
8GF70	064	X	X
	090 ¹⁾		X
	090 ²⁾		X
	110 ¹⁾		
	110 ²⁾		
	140 ¹⁾		
	140 ²⁾		
	200 ¹⁾		

1) 1-stage:

2) 2-stage:

X Combination possible **with stationary mounting orientation**

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