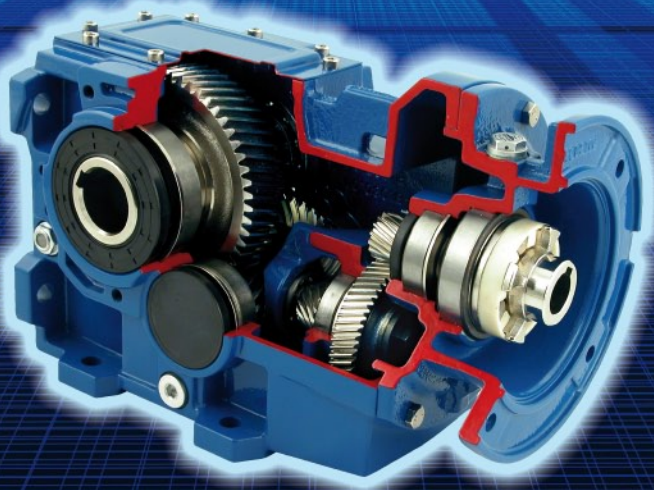


NEW



**HELICAL BEVEL GEAR
REDUCERS: B063 - B163**



MOTOVARIO®
HEART OF MOTION



HELICAL BEVEL GEAR REDUCERS



NOMINAL OUTPUT TORQUE

B063 600 Nm

B083 850 Nm

B103 1800 Nm

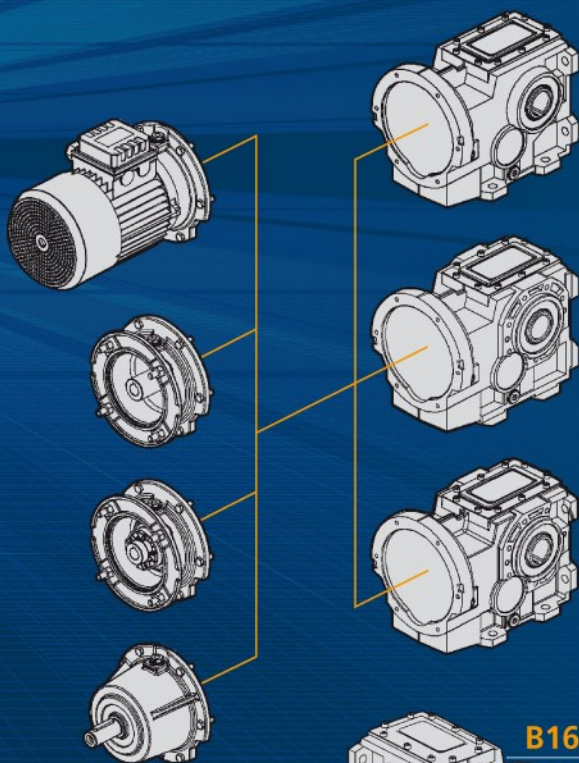
B123 3500 Nm

B143 5000 Nm

B153 8000 Nm

B163 13000 Nm

Modularity concept is the key development factor of Motovario helical bevel range



B163

B153

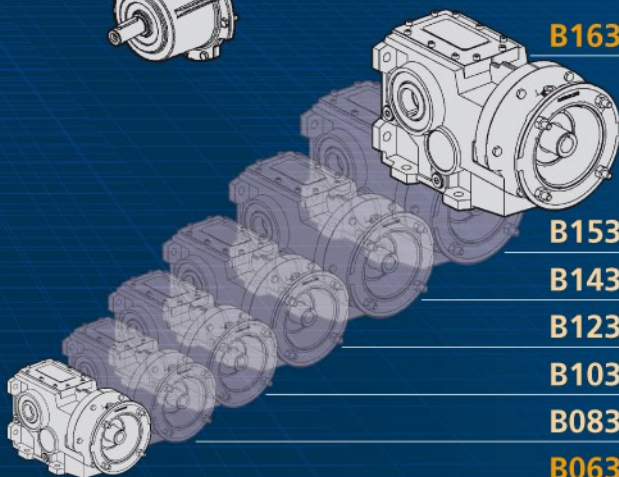
B143

B123

B103

B083

B063





Gear reducer selection table

B063			
M2 Nm	i	P1 kW	n2 1/min
600	157,42	0,62	8,9
600	139,15	0,70	10,1
600	124,20	0,79	11,3
600	111,74	0,87	12,5
600	101,20	0,97	13,8
600	90,33	1,08	15,5
600	77,48	1,26	18,1
600	69,16	1,41	20,2
600	56,93	1,72	24,6
600	50,81	1,92	27,6
600	43,22	2,26	32,4
600	38,58	2,53	36,3
600	33,43	2,92	41,9
600	28,03	3,49	49,9
600	26,09	3,75	53,7
600	22,39	4,36	62,5
600	17,00	5,75	82,3
590	15,18	6,33	92,3
590	13,15	6,94	106,5
580	12,35	6,99	113,3
540	11,03	7,83	127,0
520	10,26	8,25	136,4
460	9,16	8,18	152,8
350	7,32	7,79	191,2
340	6,88	8,05	203,5
290	5,71	8,27	245,0

B163			
M2 Nm	i	P1 kW	n2 1/min
13000	154,83	13,68	9,0
13000	138,85	15,25	10,1
13000	126,29	16,77	11,1
13000	114,27	18,53	12,3
13000	103,93	20,37	13,5
13000	96,25	22,00	14,5
13000	87,54	24,19	16,0
13000	76,72	27,60	18,2
13000	69,78	30,35	20,1
13000	58,97	35,91	23,7
13000	53,63	39,48	26,1
13000	51,00	41,52	27,5
12000	45,09	43,35	31,0
12700	40,65	50,89	34,4
12300	37,66	53,20	37,2
11900	34,25	56,59	40,9
11500	30,92	60,58	45,3
10200	28,80	57,69	48,6
11100	26,58	68,03	52,7
10500	24,17	70,75	57,9
10400	21,94	77,20	63,8
10700	19,96	87,33	70,2
10400	18,02	94,03	77,7
9900	16,39	98,41	85,4
10000	15,52	104,94	90,2
9600	14,08	111,03	99,4
8800	12,81	111,91	109,3
7700	11,87	105,67	117,9
7900	10,58	121,68	132,4
6800	8,89	124,57	157,4

SMARTBOX basic features

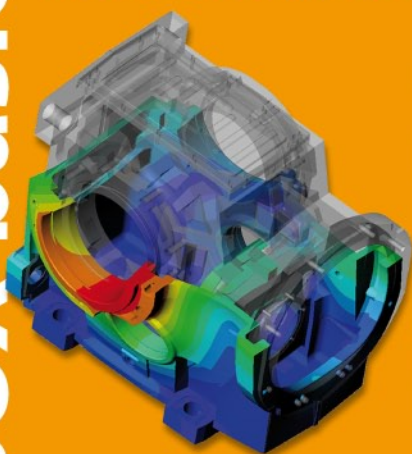
The new B063 and B163 helical bevel sizes designed to complete gear reducers range and satisfy applications ranging from motor power 0,12 kW up to 90,00 kW.

Designed for continuous duty and use in tough or stressful applications.

Gears and hollow output bores hardened and tempered to 58-60 RC.

FEM stress analysis proved.

Load capacity calculated according to ISO 6336 and verified according to AGMA 2001-B88.



URES (m)	
2.600e-004	
2.383e-004	Red
2.166e-004	Orange
1.950e-004	Yellow
1.733e-004	Light Green
1.517e-004	Green
1.300e-004	Dark Green
1.083e-004	Teal
8.666e-005	Light Blue
6.499e-005	Blue
4.333e-005	Dark Blue
2.166e-005	Very Dark Blue
1.000e-033	Black

High-strength housings and input and output flanges of grey cast-iron G200 to ensure top level performances and high reliability.

A wide range of reduction ratios and full set of specific accessories make these gearboxes suitable for wasted, recycling, cement and mining plants applications.

Output shaft is available as solid shaft, hollow shaft, removable solid shaft and shrink disc shaft.

Available ATEX 2/3 GD II-T4 standard version.



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