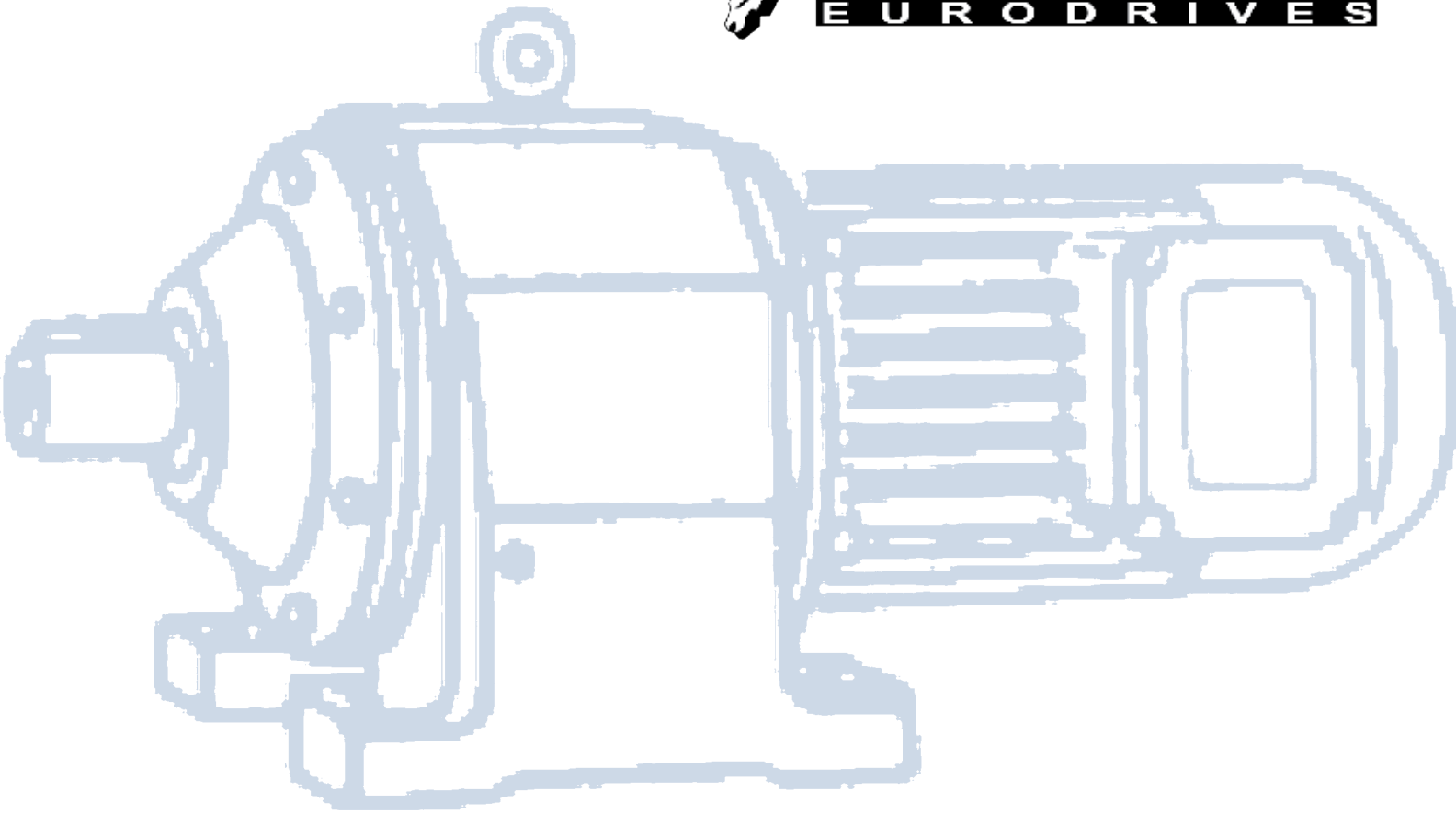


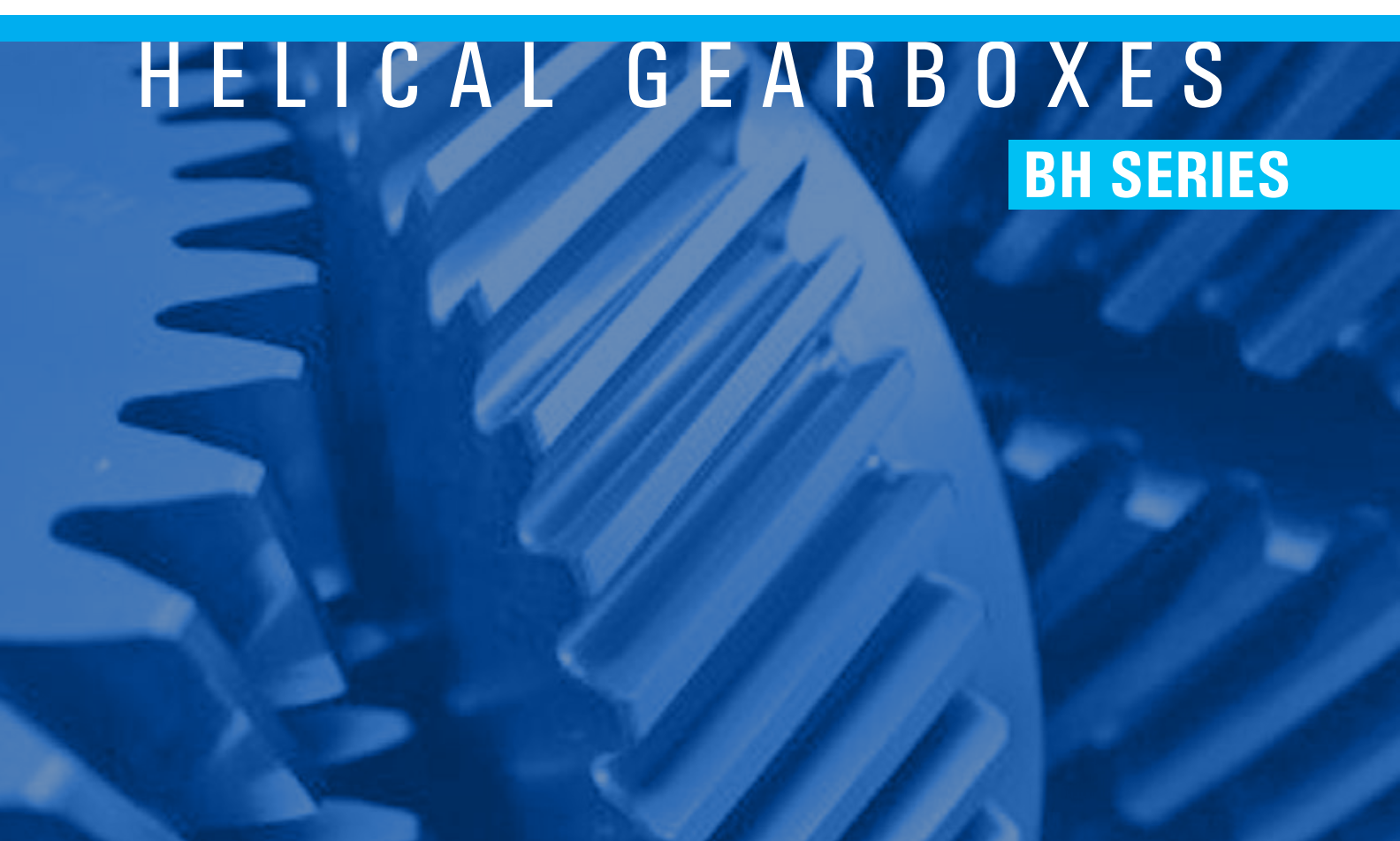


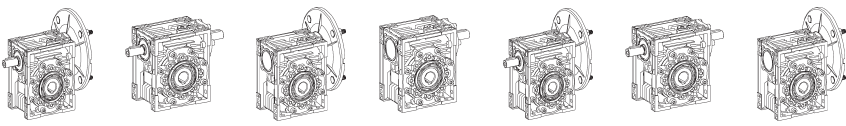
**BONVARIO**  
EURODRIVES



# HELICAL GEARBOXES

**BH SERIES**





BONVARIO Group born in 1981 is presently one of the leading industrial automation products suppliers in Italy. Our Automation solutions are widely accepted worldwide majorly in countries like Germany, UK, Russia, Belgium, Denmark, Spain, Romania, Turkey, USA, Canada, Australia, South Africa, India and Japan. Our products are sold globally through various Branch offices, Automation solution centres and channel partners who are dedicated to serve our customers not only with reliable products but also with reliable pre n post sales assistance.

The name Bonvario came from joining two words - Bon & Vario, Bon is a French word which means good and Vario is an Italian word which means varied or various. These two words were coupled together to project good various speed gearboxes or geared motors which has always been the true identity of our group.

BONVARIO is innovation, quality, and service all in one. We prove this to our customers every day and have done so for the last 3 decades. We do not just move countless conveyer belts, bottling plants, assembly lines, processes in the chemical industry, your luggage at the airport, or even you on escalators. We also are moving ourselves. In our company everyday new researches are initiated and improvements are done based on results to shape a better automated future. Collectively more than 1100 employees & our various automation solution centres, around the world are moving to develop solutions that help you optimize your process. This is how Bonvario has evolved to become a major supplier of gearboxes & motors in the world market today with a turnover of euro 61 million.

## PRODUCT RANGE

### ALUMINIUM CASING GEARBOXES



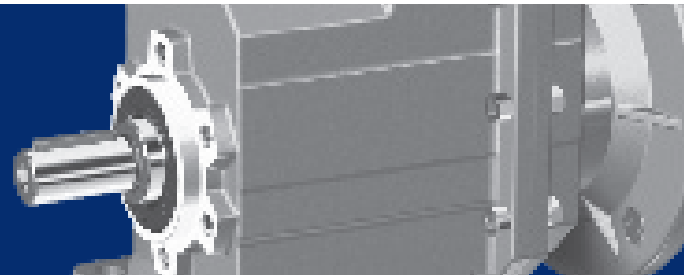
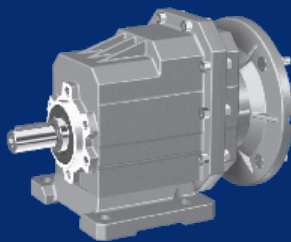
BL SERIES



BVF SERIES

### HELICAL GEARBOXES

BON SERIES



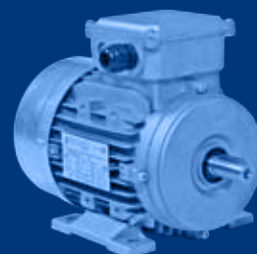
### HELICAL GEARBOXES



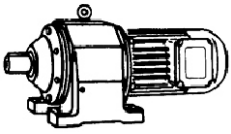
BH SERIES



### ELECTRIC MOTORS



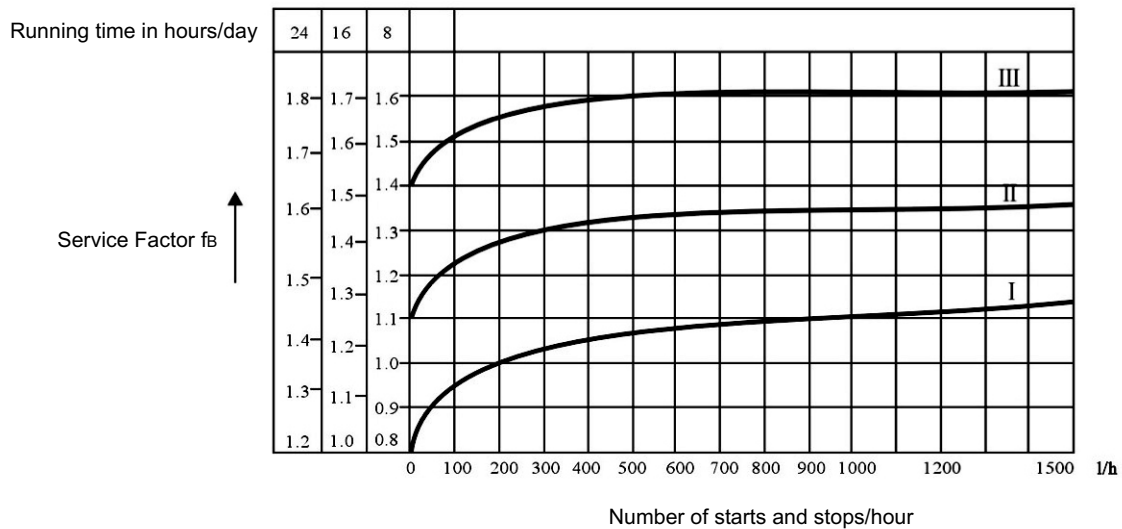
BM SERIES



## SELECTION OF HELICAL GEAR UNIT

In order to select the most suitable gear unit it is essential that a thorough knowledge of the driven machine are known. The gear units are normally designed for constant torque load with only a few starts/stops. If this conditions do not exist, it is necessary to determine a service factor.  $F_B$ , from the start/stop frequency, Load class, and the daily operating time as shown in the dia-gram below.

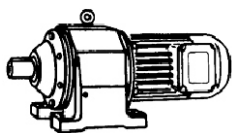
For gearmotors, the appropriate service factor taken from the diagram is then compared with the Service factor given with each speed/power combination listed in the gearmotor selection tables. To ensure a long, trouble free service life it is essential that the unit selected has a service factor equal to, or greater than, that determined from the diagram.



### Load Classification




- I Uniform load. Permissible mass acceleration factor  $\leq 0.2$
  - II Moderate shock load. Permissible mass acceleration factor  $\leq 3$ .
  - III Heavy shock load. Permissible mass acceleration factor  $\leq 10$ .
- For mass acceleration factor  $> 10$  please refer to our technical department.

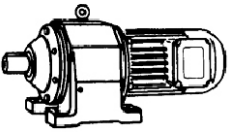
Example: Load classification I at 200 starts And stops/hour, running at 24 hours/day,  $f_B = 1.35$ .



## SELECTION OF LUBRICANT OIL

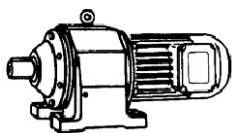
Proper viscosity of lubricant is contributive to sense the friction of gears, so the speed reducer can fully apply its function in the case of high load or impact load. The table below shows the selection of lubricants for BONVARIO helical gear boxes.

Application	Lubrication type	Ambient temperature °C	ISO ISO viscosity class			
Helical,shaft Mounted Helical, Helical-Bevel	Oil	+40 to 0	VG 220	BP Energol GR-XP220	Mobilgear 630	Shell Omala Oil 220
		+25 to-15	VG 150 VG 100	BP Energol GR-XP100	Mobilgear 629	Shell Omala Oil 100
		+10 to-30	VG 68-46 VG 32	BP Energol GR-XP68	Mobil D.T.E 15M	Shell Tellus Oil T32
		-20 to -50	VG 22 VG 15	BP Energol LPT 22	Mobil D.T.E 11M	Aero Shell Fluid 41
	Grease	+40 to-15		BP Energrease HT-EP 00	Mobilpex 44	Shell Grease S 3655
	Special Lubricants	-40 to +80	VG 220		Mobil SHC 630	
		-40 to +10	VG 32		Mobil SHC 624	



## MOUNTING POSITIONS AND RESPECTIVE OIL LEVEL INDICATIONS

<p><b>B3</b></p>	<p><b>B6</b></p>	<p><b>B7</b></p>
<p><b>B8</b></p>	<p><b>V5</b></p>	<p><b>V6</b></p>
<p><b>V1</b></p>	<p><b>V15</b></p>	<p><b>V3</b></p>
<p><b>B35</b></p> <p><b>B65</b></p>	<p><b>B75</b></p> <p><b>B85</b></p>	<p><b>B5</b></p> <p><b>B5I</b></p> <p><b>B5II</b></p> <p><b>B5III</b></p>



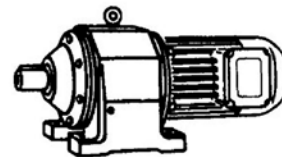
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

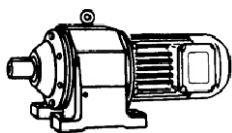
f<sub>B</sub> - service factor

i - gear ratio

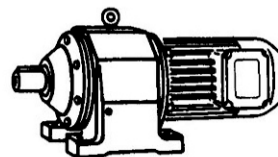
n<sub>a</sub> - output rpm



P <sub>m</sub> Kw	n <sub>a</sub> r/min	M <sub>a</sub> N.m	i	F <sub>Ra</sub> N	f <sub>B</sub>	Size	kg
<b>0.12</b>	8.0	143	110.87	5530	1.10	43 D 63N4	14
	9.0	127	95.22	5650	1.25	43 D 63N4	16
	11	104	81.44	5800	1.55		
	13	88	110.87	5880	1.80	43 D 63K6	14
	14	82	95.22	5900	1.95	43 D 63K6	16
	17	67	81.44	5960	2.40		
	20	57	70.57	6000	2.80		
	22	52	61.75	6010	3.10		
	36	32	24.36	1860	2.20	32 D 63N6	10
	42	27	20.84	1790	2.60	32 D 63N6	10
50	23	17.73	1710	3.05			
57	20	24.36	1660	3.50	32 D 63K4	10	
66	17	20.84	1590	4.10	32 D 63K4	10	
78	15	17.73	1520	4.15			
90	13	15.28	1460	4.60			
108	11	12.87	1400	5.45			
126	9	11.01	1310	5.45			
148	8	9.37	1250	6.25			
172	7	8.07	1190	7.15			
<b>0.18</b>	6.0	285	145.61	12500	1.95	73 D 63L6	36
	7.0	245	127.28	12500	2.30	73 D 63L6	40
	8.0	215	168.79	12600	2.60	73 D 63N4	36
	9.0	191	145.61	12600	2.95	73 D 63N4	40
	11	156	123.84	12600	3.85		
	5.5	315	155.61	6920	1.10	63 D 63L6	24
	6.5	265	134.24	7350	1.30	63 D 63L6	25
	7.5	230	117.34	7590	1.50		
	8.5	200	155.61	7770	1.75	63 D 63N4	23
	10	172	134.24	7910	2.05	63 D 63N4	24
	11	156	117.34	7980	2.25		
	13	132	103.65	8070	2.65		
	9.0	191	95.22	5050	0.85	43 D 63L6	15
	11	156	81.44	5420	1.05	43 D 63L6	17
	12	143	108.32	5530	1.10	43 D 63N4	14
	14	123	95.22	5680	1.30	43 D 63N4	16
	16	107	81.44	5780	1.50		
	19	90	70.57	5870	1.80		
	21	82	61.75	5900	1.95		
	24	72	56.17	5950	2.20		
27	64	48.44	5860	2.50			
35	49	24.36	1740	1.45	32 D 63L6	10	
41	42	20.84	1690	1.65	32 D 63L6	11	
49	35	17.73	1630	2.00			



## BH SERIES SELECTION & PERFORMANCE TABLE



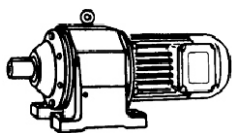
**Code:**

$f_B$  - service factor

$i$  - gear ratio

$n_a$  - output rpm

$P_m$ Kw	$n_a$ r/min	$M_a$ N.m	$i$	$F_{Ra}$ N	$f_B$	Size	kg
<b>0.18</b>	54	32	24.36	1590	2.20	32 D 63N4	10
	63	27	20.84	1540	2.60	32 D 63N4	10
	74	23	17.73	1480	2.85		
	86	20	15.28	1420	3.00		
	103	17	12.87	1380	3.55		
	120	14	11.01	1290	3.50		
	141	12	9.37	1240	4.15		
	164	10	8.07	1190	5.00		
	153	11	17.73	1220	4.55	32 D 63K2	10
	178	10	15.28	1160	5.00	32 D 63K2	10
	212	8	12.87	1120	5.65		
	248	7	11.01	1050	6.45		
	292	6	9.37	1000	6.65		
	338	5	8.07	960	8.00		
<b>0.25</b>	2.4	990	277.63	26300	2.10	93 DT80N8	110
	3.0	795	228.38	26500	2.65	93 DT80N8	107
	3.2	745	213.56	17600	1.50	83 DT80N8	69
	3.6	665	189.66	17800	1.65	83 DT80N8	69
	4.5	530	145.61	11600	1.05	73 DT80N8	41
	5.5	435	127.28	12000	1.30	73 DT80N8	45
	6.0	400	145.61	12100	1.40	73 DT71D6	37
	7.0	340	127.28	12300	1.65	73 DT71D6	41
	7.5	320	168.79	12400	1.75	73 D 63L4	36
	9.0	265	145.61	12500	2.10	73 D 63L4	40
	10	240	123.84	12500	2.50		
	5.5	435	155.61	5380	0.80	63 DT71D6	25
	6.5	365	134.24	6380	0.95	63 DT71D6	26
	7.5	320	117.34	6870	1.10		
	8.5	280	103.65	7230	1.25		
	8.5	280	155.61	7230	1.25	63 D 63L4	24
	9.5	250	134.24	7460	1.40	63 D 63L4	25
	11	215	117.34	7690	1.65		
	13	184	103.65	7850	1.90		
	14	171	94.71	7920	2.05		
	16	149	82.62	8010	2.35		
	18	133	72.73	8070	2.65		
12	199	108.32	4960	0.80	43 D 63L4	15	
14	171	95.22	5270	0.95	43 D 63L4	17	
16	149	81.44	5480	1.05			
18	133	70.57	5610	1.20			
21	114	61.75	5740	1.40			
23	104	56.17	5800	1.55			
27	88	48.44	5720	1.80			
31	77	41.97	5510	2.10			
35	68	36.73	5320	2.35			
39	61	33.41	5160	2.60			
47	51	27.95	4860	2.85			



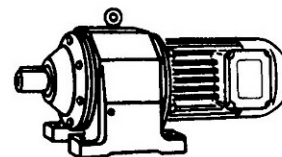
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

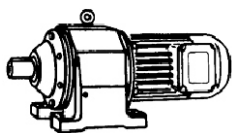
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> Kw	n <sub>a</sub> r/min	M <sub>a</sub> N.m	i	FR <sub>a</sub> N	f <sub>B</sub>	Size	kg
<b>0.25</b>	36	66	24.33	1590	1.05	32 DT71D6	11
	42	57	20.84	1550	1.25	32 DT71D6	12
	49	49	17.73	1520	1.45		
	53	45	24.33	1500	1.55	32 D 63L4	10
	62	39	20.84	1450	1.80	32 D 63L4	11
	73	33	17.73	1410	1.95		
	85	28	15.28	1370	2.15		
	102	23	12.87	1320	2.50		
	119	20	11.01	1240	2.45		
	139	17	9.37	1200	2.95		
	162	15	8.07	1150	3.35		
	150	16	17.73	1190	3.15	32 D 63N2	10
	174	14	15.28	1140	3.55	32 D 63N2	10
	207	11	12.87	1100	3.75		
	242	10	11.01	1030	4.50		
<b>0.37</b>	2.4	1470	277.63	25700	1.45	93 DT90S8	116
	3.0	1180	228.38	26100	1.80	93 DT90S8	113
	3.4	1040	254.79	26200	2.20	93 DT80K6	109
	4.0	880	209.58	26400	2.60	93 DT80K6	106
	3.2	1100	213.56	16300	1.00	83 DT90S8	74
	3.6	980	189.66	16800	1.10	83 DT90S8	74
	4.0	880	213.56	17200	1.25	83 DT80K6	67
	4.5	785	189.66	17500	1.40	83 DT80K6	67
	5.0	705	169.49	17700	1.70		
	6.0	590	150.52	18000	2.05		
	5.5	640	127.28	10900	0.90	73 DT90S8	46
						73 DT90S8	50
	6.0	590	145.61	11200	0.95	73 DT80K6	39
	7.0	505	127.28	11700	1.10	73 DT80K6	43
	8.0	440	168.79	12000	1.25	73 DT71D4	37
	9.5	370	145.61	12200	1.50	73 DT71D4	41
	11	320	123.84	12400	1.90		
	13	270	108.26	12500	2.20		
	14	250	95.63	12500	2.40		
	16	220	87.38	12600	2.75		
	8.5	415	103.65	5700	0.85	63 DT80K6	26
					63 DT80K6	27	



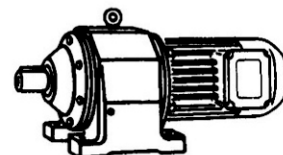
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

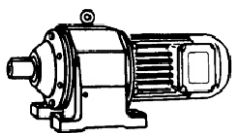
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> Kw	n <sub>a</sub> r/min	M <sub>a</sub> N.m	i	F <sub>Ra</sub> N	f <sub>B</sub>	Size	kg
<b>0.37</b>	9.0	395	155.61	5990	0.90	63 DT71D4	25
	10	355	134.24	6500	1.00	63 DT71D4	26
	12	295	117.34	7100	1.20		
	13	270	103.65	7310	1.30		
	15	235	94.71	7560	1.50		
	17	210	82.62	7720	1.65		
	19	186	72.73	7840	1.90		
	21	168	64.26	7830	2.10		
	25	141	56.02	7470	2.50		
	28	126	48.65	7240	2.80		
	20	177	70.57	5210	0.90	43 DT71D4	16
	22	161	61.75	5370	1.00	43 DT71D4	18
	25	141	56.17	5550	1.15		
	28	126	48.44	5440	1.25		
33	107	41.97	5220	1.50			
38	93	36.73	5030	1.70			
41	86	33.41	4930	1.85			
49	72	27.95	4670	2.00			
56	63	24.46	4500	2.30			
62	57	22.25	4370	2.55			
72	49	19.15	4190	2.95			
87	41	15.84	3980	3.05	42 DT71D4	15	
101	35	13.72	3810	4.15	42 DT71D4	17	
49	72	17.73	1330	0.95	32 DT80K6	13	
					32 DT80K6	13	
57	62	24.33	1320	1.15	32 DT71D4	11	
66	54	20.84	1300	1.30	32 DT71D4	12	
78	45	17.73	1280	1.45			
90	39	15.28	1250	1.55			
108	33	12.87	1210	1.75			
126	28	11.01	1150	1.75			
148	24	9.37	1110	2.10			
172	21	8.07	1070	2.40			
149	24	17.73	1130	2.10	32 D 63L2	10	
173	20	15.28	1090	2.50	32 D 63L2	11	
207	17	12.87	1050	2.50			
242	15	11.01	990	3.00			
284	12	9.37	960	3.35			
330	11	8.07	910	3.65			



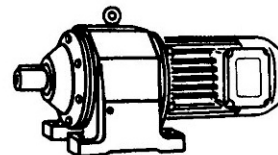
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

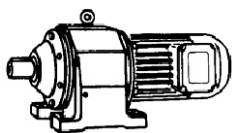
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> Kw	n <sub>a</sub> r/min	M <sub>a</sub> N.m	i	F <sub>Ra</sub> N	f <sub>B</sub>	Size	kg
<b>0.55</b>	2.4	2190	277.63	23900	0.95	93 DT90L8	117
	3.0	1750	228.38	25300	1.20	93 DT90L8	114
	3.4	1540	254.79	25600	1.50	93 DT80N6	110
	4.0	1310	209.58	25900	1.75	93 DT80N6	107
	5.0	1050	277.63	26200	2.00	93 DT80K4	109
	5.5	960	254.79	26300	2.40	93 DT80K4	106
	6.5	810	209.58	26400	2.85		
	4.0	1310	213.56	15200	0.85	83 DT80N6	69
	4.5	1170	189.66	15900	0.95	83 DT80N6	69
	5.0	1050	169.49	16500	1.15		
	6.0	880	150.52	17200	1.35		
	6.5	810	213.56	17400	1.35	83 DT80K4	67
	7.5	700	189.66	17700	1.55	83 DT80K4	67
	8.0	655	169.49	17900	1.85		
	9.0	585	150.52	18000	2.05		
	10	525	137.87	18100	2.30		
	11	480	121.12	18200	2.50		
	13	405	107.42	18400	2.95		
	9.5	555	145.61	11400	1.00	73 DT80K4	39
	11	480	123.84	11800	1.25	73 DT80K4	43
	13	405	108.26	12100	1.50		
	14	375	95.63	12200	1.60		
	16	330	87.38	12400	1.80		
	18	290	76.22	12500	2.05		
	21	250	67.10	12500	2.40		
	23	230	59.28	12600	2.60		
	12	440	117.34	5290	0.80	63 DT80K4	26
	13	405	103.65	5850	0.85	63 DT80K4	27
	15	350	94.71	6560	1.00		
	17	310	82.62	6970	1.15		
	19	275	72.73	7270	1.25		
	21	250	64.26	7430	1.40		
	25	210	56.02	7140	1.65		
	28	188	48.65	6940	1.85		
	32	164	42.98	6710	2.15		
	35	150	39.27	6560	2.35		
	40	131	34.26	6330	2.65		
	57	92	24.24	5790	2.70	62 DT80K4	25
	64	82	21.41	5600	3.05	62 DT80K4	26
	28	188	48.44	5090	0.85	43 DT80K4	18
	33	159	41.97	4930	1.00	43 DT80K4	20
	38	138	36.73	4780	1.15		
	41	128	33.41	4700	1.25		
	49	107	27.95	4460	1.35		
	56	94	24.46	4320	1.55		
	62	85	22.25	4210	1.70		
	72	73	19.15	4050	2.00		
	83	63	16.62	3900	2.30		
	96	55	14.36	3750	2.65		
	87	60	15.84	3870	2.10	42 DT80K4	17
	101	52	13.72	3710	2.80	42 DT80K4	19
	115	46	12.01	3580	3.15		



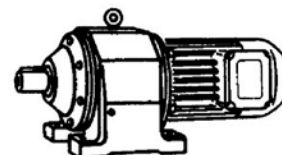
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

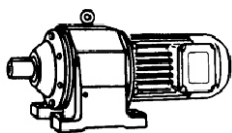
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> Kw	n <sub>a</sub> r/min	M <sub>a</sub> N.m	i	F <sub>Ra</sub> N	f <sub>B</sub>	Size	kg
<b>0.55</b>	78	67	17.73	1100	0.95	32 DT80K4	13
	90	58	15.28	1100	1.05	32 DT80K4	13
	148	35	9.37	1010	1.45		
	172	31	8.07	980	1.60		
	152	35	17.73	1030	1.45	32 DT71D2	11
	177	30	15.28	1000	1.65	32 DT71D2	12
	210	25	12.87	980	1.75		
	246	21	11.01	930	2.15		
	289	18	9.37	900	2.20		
	336	16	8.07	860	2.50		
<b>0.75</b>	3.4	2110	204.1	32900	1.65	103 DT100LS8	177
	3.8	1840	176.89	33200	2.15	103 DT100LS8	166
	3.0	2390	228.38	22900	0.90	93 DT100LS8	122
						93 DT100LS8	119
	3.5	2050	254.79	24500	1.10	93 DT90S6	116
						93 DT90S6	113
	5.0	1430	277.63	25800	1.45	93 DT80N4	110
	5.5	1300	254.79	26000	1.75	93 DT80N4	107
	6.5	1100	209.58	26200	2.10		
	7.5	960	185.28	26300	2.40		
	8.5	840	165.42	26400	2.75		
	5.5	1300	169.49	15200	0.90	83 DT90S6	74
						83 DT90S6	74
	6.0	1190	150.52	15800	1.00		
	6.5	1100	213.56	16300	1.00	83 DT80N4	69
	7.5	960	189.66	16900	1.15	83 DT80N4	69
	8.0	900	169.49	17100	1.35		
	9.0	795	150.52	17500	1.50		
	10	715	137.87	17700	1.70		
	11	650	121.12	17900	1.85		
	13	550	107.42	18100	2.20		
	14	510	96.01	18200	2.35		
	16	450	84.61	18300	2.65		
	11	650	123.84	10900	0.90	73 DT80N4	41
	13	550	108.26	11500	1.10	73 DT80N4	45
14	510	95.63	11700	1.20			
16	450	87.38	11900	1.35			
18	400	76.22	12100	1.50			
21	340	67.10	12300	1.75			
23	310	59.28	12400	1.95			
27	265	51.68	12500	2.25			
31	230	44.05	12600	2.60			



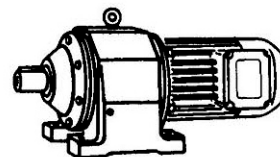
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

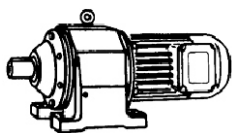
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



Pm kw	n <sub>a</sub> r/min	M <sub>a</sub> N·m	i	F <sub>Ra</sub> N	f <sub>B</sub>	Size		kg	
<b>0.75</b>	17	420	82.62	5620	0.85	63	DT80N4	28	
	19	375	72.73	6260	0.95	63	DT80N4	29	
	21	340	64.26	6670	1.05				
	25	285	56.02	6780	1.25				
	28	255	48.65	6620	1.35				
	32	225	42.98	6420	1.55				
	35	205	39.27	6300	1.70				
	40	179	34.26	6110	1.95				
	46	156	30.16	5900	2.25				
	52	138	26.64	5720	2.55				
	59	121	23.23	5540	2.90				
		57	126	24.24	5640	2.00	62	DT80N4	27
		64	112	21.41	5470	2.25	62	DT80N4	28
		71	101	19.56	5310	2.50			
	81	88	17.06	5120	2.85				
	38	188	36.73	3990	0.85	43	DT80N4	19	
	41	175	33.41	4240	0.90	43	DT80N4	21	
	49	146	27.95	4240	1.00				
	56	128	24.46	4120	1.15				
	62	116	22.25	4030	1.25				
	72	99	19.15	3900	1.45				
	83	86	16.62	3770	1.70				
	96	75	14.36	3630	1.95				
	87	82	15.84	3750	1.50	42	DT80N4	18	
	101	71	13.72	3610	2.05	42	DT80N4	20	
	115	62	12.01	3490	2.35				
	126	57	10.92	3400	2.55				
	147	49	9.40	3260	2.95				
	148	48	9.37	900	1.05	32	DT80N4	14	
	172	42	8.07	880	1.20	32	DT80N4	15	
	152	47	17.73	930	1.05	32	DT80K2	13	
	177	40	15.28	920	1.25	32	DT80K2	13	
	289	25	9.37	840	1.60				
	336	21	8.07	820	1.90				
<b>1.1</b>	3.3	3180	204.1	31300	1.10	103	DT100L8	180	
	3.7	2760	176.89	32000	1.45	103	DT100L8	169	
	4.5	2330	209.58	23200	1.00	93	DT90L6	117	
						93	DT90L6	114	



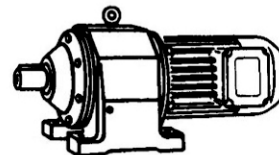
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

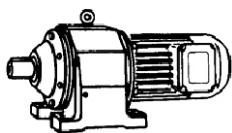
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> kw	n <sub>a</sub> r/min	M <sub>a</sub> N·m	i	F <sub>Ra</sub> N	f <sub>B</sub>	Size	kg
<b>1.1</b>	5.0	2100	277.63	24300	1.00	93 DT90S4	116
	5.5	1910	254.79	25000	1.20	93 DT90S4	113
	6.5	1620	209.58	25500	1.40		
	7.5	1400	185.28	25800	1.65		
	8.5	1240	165.42	26000	1.85		
	9.5	1110	148.56	26200	2.05		
	11	960	132.03	26300	2.40		
	12	880	114.47	26400	2.60		
	8.5	1240	169.49	15600	0.95	83 DT90S4	74
	9.5	1110	150.52	16200	1.10	83 DT90S4	74
	10	1050	137.87	16500	1.15		
	12	880	121.12	17200	1.35		
	13	810	107.42	17400	1.50		
	15	700	96.01	17700	1.70		
	17	620	84.61	17900	1.95		
	19	555	73.15	18100	2.15		
	21	500	66.15	18200	2.40		
	24	440	58.67	18300	2.75		
	15	700	95.63	10500	0.85	73 DT90S4	46
16	655	87.38	10800	0.90	73 DT90S4	50	
18	585	76.22	11300	1.05			
21	500	67.10	11700	1.20			
24	440	59.28	12000	1.35			
27	390	51.68	12200	1.55			
32	330	44.05	12400	1.80			
36	290	38.43	12500	2.05			
41	255	33.83	12500	2.35			
47	225	29.89	12200	2.65			
61	172	22.95	11300	2.90	72 DT90S4	45	
69	152	20.16	10900	3.70	72 DT90S4	48	
25	420	56.02	7000	0.85	63 DT90S4	32	
29	360	48.65	6030	0.95	63 DT90S4	33	
33	320	42.98	5890	1.10			
36	290	39.27	5820	1.20			
41	255	34.26	5680	1.35			
46	230	30.16	5540	1.50			
53	198	26.64	5390	1.75			
60	175	23.23	5240	2.00			
71	148	19.68	5040	2.35			
85	124	16.55	4820	2.80			
58	181	24.24	5360	1.40	62 DT90S4	31	
65	162	21.41	5220	1.55	62 DT90S4	32	
72	146	19.56	5090	1.70			
82	128	17.06	4920	1.95			
88	119	15.95	4780	2.75			
63	167	22.25	2440	0.85	43 DT90S4	23	
73	144	19.15	3010	1.00	43 DT90S4	25	
84	125	16.62	3440	1.15			
97	108	14.36	3420	1.35			
102	103	13.72	3420	1.40	42 DT90S4	23	
117	90	12.01	3310	1.60	42 DT90S4	25	
128	82	10.92	3240	1.75			
149	71	9.40	3120	2.05			
172	61	8.16	3010	2.30			
193	54	7.27	2910	2.40			
224	47	6.26	2790	2.55			
258	41	5.43	2690	2.70			
298	35	4.70	2580	2.85			



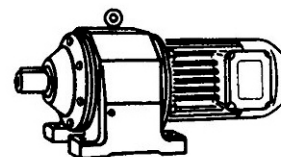
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

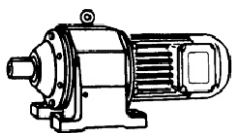
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> kw	n <sub>a</sub> r/min	M <sub>a</sub> N·m	i	FR <sub>a</sub> N	f <sub>B</sub>	Size	kg
<b>1.1</b>	170	62	15.84	3020	2.00	42 DT80N2	18
	197	53	13.72	2910	2.75	42 DT80N2	20
	225	47	12.01	2800	3.10		
	177	59	15.28	770	0.85	32 DT80N2	14
	289	36	9.37	740	1.10	32 DT80N2	15
	336	31	8.07	730	1.30		
<b>1.5</b>	3.5	4090	204.1	28400	0.85	103 DT112M8	189
	4.0	3580	176.89	30500	1.10	103 DT112M8	178
	4.4	3180	204.1	31300	1.10	103 DT100L6	180
	5.4	2600	176.89	32200	1.55	103 DT100L6	169
	6.4	2200	143.02	32800	1.80		
	5.5	2600	254.79	21700	0.90	93 DT90L4	117
	7.0	2050	209.79	24500	1.10	93 DT90L4	114
	7.5	1910	185.28	25000	1.20		
	8.5	1690	165.42	25400	1.35		
	9.5	1510	148.56	25700	1.50		
	11	1300	132.03	26000	1.75		
	12	1190	114.47	26100	1.95		
	14	1020	101.59	26300	2.25		
	17	840	85.63	26400	2.75		
	10	1430	137.87	14400	0.85	83 DT90L4	75
	12	1190	121.12	15800	1.00	83 DT90L4	75
	13	1100	107.42	16300	1.10		
	15	960	96.01	16900	1.25		
	17	838	84.61	17300	1.45		
	19	755	73.15	17600	1.60		
	21	680	66.15	17800	1.75		
	24	595	58.67	18000	2.00		
	27	530	52.44	18100	2.25		
	31	460	46.21	18300	2.60		
	36	400	39.95	18300	3.00		
	39	365	35.95	17900	2.35	82 DT90L4	73
	45	320	31.78	17200	3.15	82 DT90L4	73
	21	680	67.10	10700	0.90	73 DT90L4	47
	24	595	59.28	11200	1.00	73 DT90L4	51
	27	530	51.68	11600	1.15		
	32	450	44.05	11900	1.35		
	37	385	38.43	12200	1.55		
	42	340	33.83	12200	1.75		
	48	300	29.89	11800	2.00		
	54	265	26.06	11400	2.25		
	64	225	22.08	10900	2.65		



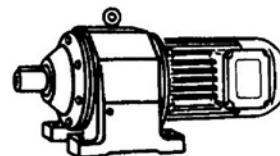
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

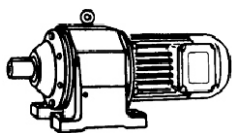
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> kw	n <sub>a</sub> r/min	M <sub>a</sub> N·m	i	F <sub>Ra</sub> N	f <sub>B</sub>	Size		kg
<b>1.5</b>	62	230	22.95	11000	2.15	72	DT90L4	46
	70	205	20.16	10600	2.75	72	DT90L4	49
	33	435	42.98	5340	0.80	63	DT90L4	34
	36	400	39.27	5300	0.90	63	DT90L4	35
	41	350	34.26	5230	1.00			
	47	305	30.16	5140	1.15			
	53	270	26.64	5050	1.30			
	61	235	23.23	4920	1.50			
	72	199	19.68	4770	1.75			
	86	167	16.55	4590	2.10			
	59	245	24.24	5050	1.00	62	DT90L4	33
	66	215	21.41	4960	1.15	62	DT90L4	34
	73	196	19.56	4840	1.30			
	83	173	17.06	4710	1.45			
	89	161	15.95	4560	2.05			
	102	140	13.91	4430	2.35			
	116	123	12.25	4290	2.70			
	85	169	16.62	1380	0.85	43	DT90L4	25
	99	145	14.36	2030	1.00	43	DT90L4	26
	103	139	13.72	2680	1.05	42	DT90L4	24
118	121	12.01	3070	1.20	42	DT90L4	26	
130	110	10.92	3070	1.30				
151	95	9.40	2980	1.55				
174	82	8.16	2890	1.70				
195	73	7.27	2780	1.80				
227	63	6.26	2680	1.90				
262	55	5.43	2590	2.00				
302	47	4.70	2500	2.15				
197	73	13.72	2800	2.00	42	DT90S2	23	
225	64	12.01	2710	2.25	42	DT90S2	25	
247	58	10.92	2650	2.50				
287	50	9.40	2550	2.90				
<b>2.2</b>	5.4	3820	176.89	29700	1.05	103	DV112M6	189
	6.4	3230	143.02	31200	1.25	103	DV112M6	178
	6.9	3000	204.1	31600	1.15	103	DT100LS4	122
	7.9	2630	176.89	32200	1.5	103	DT100LS4	119
	9.9	2100	143.02	32900	1.9			
	11	1910	127.74	33100	2.1			
	13	1620	112.31	33400	2.45			
	14	1500	100.36	33500	2.65			
	7.5	2800	185.28	20400	0.80	93	DV100LS4	122
	8.5	2470	165.42	22500	0.95	93	DV100LS4	119
	9.5	2210	148.56	23800	1.05			
	11	1910	132.03	25000	1.20			
	12	1750	114.47	25300	1.30			
	14	1500	101.59	25700	1.55			
	16	1310	85.63	25900	1.75			
	20	1050	69.94	26200	2.20			
	23	910	60.96	26400	2.55			
	24	880	58.06	26400	2.60			
	27	780	51.60	26100	2.95			
	15	1400	96.01	14600	0.85	83	DT100LS4	80
	17	1240	84.61	15600	0.95	83	DT100LS4	80
	19	1110	73.15	16200	1.10			
	21	1000	66.15	16700	1.20			
	24	880	58.67	17200	1.35			
	27	780	52.44	17500	1.55			
	30	700	46.21	17700	1.70			
35	600	39.95	18000	2.00				
40	525	35.08	17300	2.30				
49	430	28.77	16300	2.80				



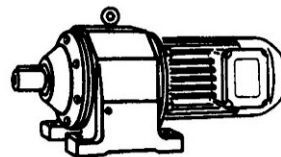
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

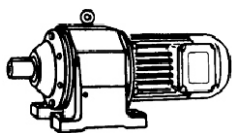
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> kw	n <sub>a</sub> r/min	M <sub>a</sub> N·m	i	FR <sub>a</sub> N	f <sub>B</sub>	Size	kg
<b>2.2</b>	39	540	35.95	17500	1.55	82 DT100LS4	78
	44	475	31.78	16900	2.10	82 DT100LS4	78
	49	430	28.38	16400	2.20		
	55	380	25.49	15900	2.90		
	32	655	44.05	10800	0.90	73 DT100LS4	50
	36	585	38.43	11300	1.05	73 DT100LS4	54
	41	510	33.83	11700	1.20		
	47	445	29.89	11400	1.35		
	54	390	26.06	11000	1.55		
	63	335	22.08	10600	1.80		
	61	345	22.95	10500	1.45	72 DT100LS4	49
	69	305	20.16	10300	1.85	72 DT100LS4	52
	78	270	17.88	10000	2.05		
	88	240	15.98	9670	2.35		
	99	210	14.08	9370	2.65		
	53	395	26.64	4450	0.90	63 DT100LS4	38
	60	350	23.23	4410	1.00	63 DT100LS4	39
	71	295	19.68	4340	1.20		
	85	245	16.55	4240	1.45		
	72	290	19.56	4460	0.85	62 DT100LS4	37
	82	255	17.06	4370	1.00	62 DT100LS4	38
	88	240	15.95	4200	1.40		
	101	210	13.91	4110	1.55		
	114	184	12.25	4030	1.80		
	129	163	10.82	3930	2.00		
	148	142	9.43	3820	2.30		
	175	120	7.99	3680	2.75		
	113	186	24.24	4120	1.35	62 DT90L2	33
	128	164	21.41	4010	1.50	62 DT90L2	34
	141	149	19.56	3930	1.70		
	161	130	17.06	3810	1.90		
	172	122	15.95	3700	2.70		
	128	164	10.92	1020	0.90	42 DT100LS4	28
	149	141	9.40	1610	1.05	42 DT100LS4	30
	172	122	8.16	2060	1.15		
	193	109	7.27	1950	1.20		
	224	94	6.26	2310	1.30		
	258	81	5.43	2450	1.35		
	298	71	4.70	2370	1.40		
	200	105	13.70	2420	1.40	42 DT90L2	24
	229	92	12.01	2540	1.60	42 DT90L2	26
	252	83	10.92	2490	1.75		
	293	72	9.40	2410	2.00		
	337	62	8.16	2340	2.25		
	378	56	7.27	2250	2.30		
	439	48	6.26	2170	2.50		
	506	42	5.43	2090	2.60		
	585	36	4.70	2020	2.80		
<b>3</b>	6.4	4410	143.02	26600	0.90	103 DV132S6	196
						103 DV132S6	185



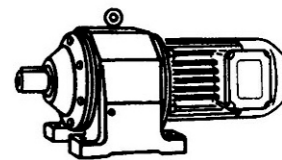
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

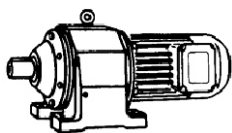
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub>	n <sub>a</sub>	M <sub>a</sub>	i	F <sub>Ra</sub>	f <sub>B</sub>	Size		kg
kw	r/min	N·m		N				
<b>3</b>	6.9	4090	204.1	28400	0.85	103	DT100L4	180
	7.9	3580	176.89	30500	1.10	103	DT100L4	169
	9.9	2870	143.02	31800	1.40			
	11	2600	127.74	32200	1.55			
	13	2200	112.31	32800	1.80			
	14	2050	100.36	32900	1.95			
	17	1690	84.00	33300	2.35			
	20	1430	70.51	33500	2.80			
	11	2600	132.03	21700	0.90	93	DT100L4	125
	12	2390	114.47	22900	0.95	93	DT100L4	122
	14	2050	101.59	24500	1.10			
	16	1790	85.63	25200	1.30			
	20	1430	69.94	25800	1.60			
	23	1250	60.96	26000	1.85			
	24	1190	58.06	26100	1.95			
	27	1060	51.60	25500	2.15			
	31	920	44.74	24500	2.50			
	35	820	39.70	23700	2.80			
	21	1360	66.15	14900	0.90	83	DT100L4	83
	24	1190	58.67	15800	1.00	83	DT100L4	83
27	1060	52.44	16500	1.15				
30	960	46.21	16900	1.25				
35	820	39.95	17400	1.45				
40	715	35.08	16800	1.70				
49	585	28.77	15900	2.05				
57	505	24.52	15300	2.40				
39	735	35.95	17000	1.15	82	DT100L4	81	
44	650	31.78	16500	1.55	82	DT100L4	81	
49	585	28.38	16000	1.60				
55	520	25.49	15500	2.10				
62	460	22.65	15000	2.40				
71	405	19.64	14400	2.70				
41	700	33.83	10500	0.85	73	DT100L4	54	
47	610	29.89	10800	1.00	73	DT100L4	58	
54	530	26.06	10500	1.15				
63	455	22.08	10100	1.30				
61	470	22.95	7880	1.05	72	DT100L4	53	
69	415	20.16	8310	1.35	72	DT100L4	56	
78	365	17.88	8670	1.55				
88	325	15.98	8860	1.70				
99	290	14.08	8980	1.95				
115	250	12.17	8740	2.25				
127	225	11.00	8480	2.45				
144	199	9.69	8190	2.50				
71	405	19.68	2810	0.85	63	DT100L4	41	
85	335	16.55	3810	1.05	63	DT100L4	42	
88	325	15.95	3800	1.00	62	DT100L4	40	
101	285	13.91	3750	1.15	62	DT100L4	41	
114	250	12.25	3710	1.30				
129	220	10.82	3660	1.50				
148	194	9.43	3570	1.70				
175	164	7.99	3470	2.00				
208	138	6.72	3360	2.40				
230	125	6.09	3280	2.00				
271	106	5.16	3170	2.35				
323	89	4.34	3040	2.45				



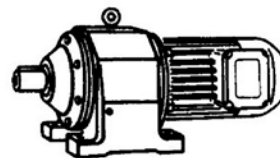
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

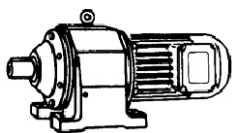
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub>	n <sub>a</sub>	M <sub>a</sub>	i	FR <sub>a</sub>	f <sub>B</sub>	Size		kg
kw	r/min	Nm		N				
<b>3</b>	143	200	19.56	3680	1.25	62	DT100L2	40
	164	175	17.06	3590	1.45		DT100L2	41
	176	163	15.95	3470	2.00			
	201	143	13.91	3380	2.30			
	229	125	12.25	3290	2.65			
	259	111	10.82	3200	2.95			
	172	167	8.16	147	0.85	42	DT100L4	30
	193	148	7.27	161	0.90	42	DT100L4	32
	224	128	6.26	745	0.95			
	258	111	5.43	1220	1.00			
	298	96	4.70	1610	1.05			
	256	112	10.92	1580	1.30	42	DT100L2	30
	298	96	9.40	1950	1.50	42	DT100L2	32
	343	84	8.16	2180	1.65			
385	74	7.27	2130	1.75				
447	64	6.26	2060	1.90				
516	56	5.43	1990	1.95				
596	48	4.70	1930	2.10				
698	41	4.01	1860	2.20				
<b>4</b>	7.9	4780	176.89	24100	0.85	103	DV112M4	189
	9.9	3820	143.02	29700	1.05	103	DV112M4	178
	11	3470	127.74	30700	1.15			
	13	2940	112.31	31700	1.35			
	14	2730	100.36	32000	1.45			
	17	2250	84.00	32700	1.80			
	20	1910	70.51	33100	2.10			
	23	1660	62.18	33000	2.40			
	27	1410	52.11	31600	2.85			
	14	2730	101.59	20900	0.85	93	DV112M4	136
	17	2250	85.63	23600	1.00	93	DV112M4	133
	20	1910	69.94	25000	1.20			
	23	1660	60.96	25500	1.40			
	24	1590	58.06	25500	1.45			
	28	1360	51.60	24500	1.70			
	32	1190	44.74	23700	1.95			
	36	1060	39.70	22900	2.15			
	42	910	33.47	22000	2.55			
	48	795	29.66	21200	1.90	92	DV112M4	131
	54	705	26.49	20500	2.00	92	DV112M4	128
	27	1410	52.44	13000	0.85	83	DV112M4	92
	31	1230	46.21	14300	1.00	83	DV112M4	92
	36	1060	39.95	15400	1.15			
	41	960	35.08	15900	1.25			
	49	780	28.77	15400	1.55			
	58	660	24.52	14800	1.80			
	45	850	31.78	15800	1.20	82	DV112M4	90
	50	765	28.38	15400	1.25	82	DV112M4	90
	56	680	25.49	15000	1.60			
	63	605	22.65	14500	1.80			
	72	530	19.64	14000	2.10			
	81	470	17.43	13600	2.35			
97	395	14.69	12900	2.80				
54	705	26.06	9870	0.85	73	DV112M4	64	
64	595	22.08	9580	1.00	73	DV112M4	68	



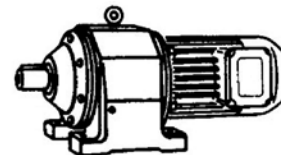
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

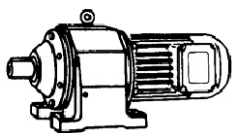
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> kw	n <sub>a</sub> r/min	M <sub>a</sub> N·m	i	FR <sub>a</sub> N	f <sub>B</sub>	Size		kg
<b>4</b>	70	545	20.16	5540	1.05	72	DV112M4	63
	79	485	17.88	6120	1.15	72	DV112M4	66
	89	430	15.98	6630	1.30			
	101	380	14.08	7020	1.45			
	117	325	12.17	7450	1.70			
	129	295	11.00	7210	1.85			
	147	260	9.69	7400	1.90			
	169	225	8.38	7570	2.45			
	193	198	7.36	7370	2.25			
	235	163	6.04	6980	2.75			
	102	375	13.91	2030	0.90	62	DV112M4	51
	116	330	12.25	2790	1.00	62	DV112M4	52
	131	290	10.82	3300	1.15			
	151	255	9.43	3250	1.30			
	178	215	7.99	3200	1.55			
	211	181	6.72	3130	1.80			
	233	164	6.09	3080	1.50			
	275	139	5.16	2990	1.80			
	327	117	4.34	2890	1.90			
<b>5.5</b>	11	4780	127.74	24100	0.85	103	DV132S4	196
	13	4040	112.31	28700	1.00	103	DV132S4	185
	14	3750	100.36	30100	1.05			
	17	3090	84.00	31500	1.30			
	20	2630	70.51	32200	1.50			
	23	2280	62.18	31800	1.75			
	27	1950	52.11	30500	2.05			
	30	1750	48.51	29700	2.30			
	35	1500	40.59	28600	2.65			
	20	2630	69.94	21600	0.85	93	DV132S4	142
	23	2280	60.96	23500	1.00	93	DV132S4	139
	25	2100	58.06	24000	1.10			
	28	1880	51.60	23400	1.20			
	32	1640	44.74	22700	1.40			
	36	1460	39.70	22100	1.60			
	43	1220	33.47	21100	1.90			
	52	1010	27.33	20100	2.30			
	60	880	23.82	19400	2.60			
	48	1090	29.66	20600	1.40	92	DV132S4	137
	54	970	26.49	20000	1.45	92	DV132S4	134
	62	850	23.25	19200	2.45			
	69	760	20.77	18700	2.75			
	36	1460	39.95	14200	0.80	83	DV132S4	98
	41	1280	35.08	15200	0.95	83	DV132S4	98
	50	1050	28.77	14600	1.15			
	58	910	24.52	14100	1.30			
	56	940	25.49	13600	1.15	82	DV132S4	96
	63	830	22.65	14000	1.35	82	DV132S4	96
	73	720	19.64	13500	1.55			
	82	640	17.43	13100	1.70			
	97	540	13.69	12600	2.05			
	124	425	11.51	11700	2.60			
140	375	10.22	11300	0.95				
166	315	8.61	10800	2.70				
203	260	7.03	10200	2.70				



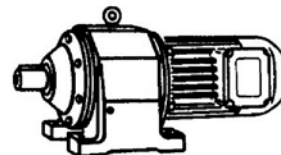
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

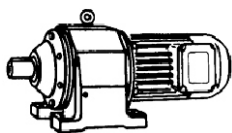
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> kw	n <sub>a</sub> r/min	M <sub>a</sub> N·m	i	F <sub>Ra</sub> N	f <sub>B</sub>	Size	kg
<b>5.5</b>	89	590	15.98	8420	0.95	72 DV132S4	70
	102	515	14.08	8210	1.10	72 DV132S4	73
	118	445	12.17	7980	1.25		
	130	405	11.00	7750	1.35		
	148	355	9.69	7540	1.40		
	171	305	8.38	7310	1.80		
	194	270	7.36	6020	1.65		
	237	220	6.04	6350	2.05		
	278	189	5.15	6450	2.40		
	152	345	9.43	1290	0.95	62 DV132S4	56
	179	295	7.99	2140	1.10	62 DV132S4	57
	213	245	6.72	2810	1.35		
	235	225	6.09	2530	1.10		
	277	190	5.16	2740	1.30		
	329	160	4.34	2680	1.40		
	305	172	9.43	2710	1.90	62 DV132S2	56
	360	146	7.99	2650	2.25	62 DV132S2	57
	429	122	6.72	2570	2.70		
473	111	6.09	2520	2.25			
558	94	5.16	2440	2.65			
664	79	4.34	2350	2.80			
<b>7.5</b>	15	4780	100.36	24100	0.85	103 DV132M4	216
	17	4210	84.00	27700	0.95	103 DV132M4	205
	21	3410	70.51	30700	1.15		
	23	3110	62.18	30200	1.30		
	28	2560	52.11	29000	1.55		
	30	2390	48.51	28500	1.65		
	36	1990	40.59	27300	2.00		
	43	1670	34.07	26200	2.40		
	48	1490	30.05	25400	2.70		
	51	1400	28.49	25100	2.35	102 DV132M4	209
	58	1230	25.09	24200	2.45	102 DV132M4	197
	25	2870	58.06	19900	0.80	93 DV132M4	162
	28	2560	51.60	21900	0.90	93 DV132M4	159
	32	2240	44.74	21400	1.05		
	37	1940	39.70	20800	1.20		
	43	1670	33.47	20200	1.40		
	53	1350	27.33	19300	1.70		
	61	1170	23.82	18600	1.95		
	74	970	19.57	17800	2.35		
	49	1460	29.66	19700	1.05	92 DV132M4	157
	55	1300	26.49	19100	1.10	92 DV132M4	154
	62	1160	23.25	18600	1.80		
	70	1020	20.77	18000	2.05		
	82	870	17.58	17300	2.40		
	98	730	14.75	16500	2.90		
	50	1430	28.77	13600	0.85	83 DV132M4	120
	59	1210	24.52	13200	1.00	83 DV132M4	120



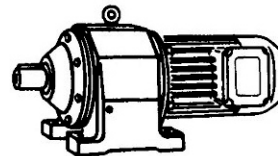
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

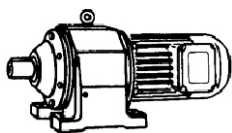
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> kw	n <sub>a</sub> r/min	M <sub>a</sub> N·m	i	F <sub>Ra</sub> N	f <sub>B</sub>	Size	kg	
<b>7.5</b>	57	1260	25.49	8410	0.85	82 DV132M4	118	
	64	1120	22.65	9530	1.00	82 DV132M4	118	
	74	970	19.64	10600	1.15			
	83	860	17.43	11400	1.30			
	99	725	14.69	12000	1.50			
	126	570	11.51	11200	1.95			
	142	505	10.22	10900	2.20			
	168	425	8.61	10400	2.00			
	206	350	7.03	9860	2.00			
	237	300	6.13	9510	2.35			
	288	250	5.04	8990	2.40			
		103	695	14.08	7560	0.80	72 DV132M4	
		119	600	12.17	7420	0.95	72 DV132M4	
	132	545	11.00	7190	1.00			
	150	480	9.69	7040	1.05			
	173	415	8.38	6870	1.35			
	197	365	7.36	3860	1.25			
	240	300	6.04	4530	1.50			
	282	255	5.15	4940	1.75			
<b>9.2</b>	20	4390	70.51	26700	0.90	103 DV132ML4	225	
	23	3820	62.18	28800	1.05	103 DV132ML4	214	
	28	3140	52.11	27800	1.25			
	30	2930	48.51	27500	1.35			
	35	2510	40.59	26600	1.60			
	42	2090	34.07	25600	1.90			
	48	1830	30.05	24800	2.20			
	57	1540	25.18	23800	2.60			
		51	1720	28.49	24500	1.90	102 DV132ML4	218
		57	1540	25.09	23800	1.95	102 DV132ML4	206
		68	1960	21.11	22700	2.70		
		32	2750	44.74	20300	0.85	93 DV132ML4	172
		36	2440	39.70	20000	0.95	93 DV132ML4	169
		43	2040	33.47	19400	1.15		
		53	1660	27.33	18600	1.40		
		60	1460	23.82	18100	1.60		
		74	1190	19.57	17300	1.95		
		62	1420	23.25	18000	1.50	92 DV132ML4	167
		69	1270	20.77	17600	1.65	92 DV132ML4	164
		82	1070	17.58	16900	1.95		
		98	900	14.75	16200	2.35		
		111	790	13.01	15700	2.65		
		73	1200	19.64	12300	0.90	82 DV132ML4	127
		83	1060	17.43	12000	1.05	82 DV132ML4	127
		98	900	14.69	11600	1.20		
		125	705	11.51	10800	1.55		
		141	625	10.22	10600	1.75		
		167	525	8.61	10200	1.60		
		205	430	7.03	9660	1.65		
		235	375	6.13	9330	1.85		
		286	305	5.04	8860	1.95		
		172	510	8.38	6540	1.10	72 DV132ML4	100
		196	450	7.36	6400	1.00	72 DV132ML4	103
	238	370	6.04	6190	1.20			
	280	315	5.15	5990	1.45			



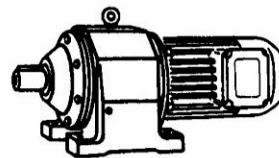
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

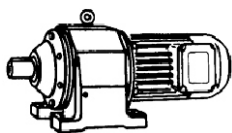
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm



P <sub>m</sub> kw	n <sub>a</sub> r/min	M <sub>a</sub> N·m	i	F <sub>Ra</sub> N	f <sub>B</sub>	Size	kg
<b>11</b>	23	4570	62.18	25600	0.90	103 DV160M4	229
	28	3750	52.11	26700	1.05	103 DV160M4	218
	30	3500	48.51	26400	1.15		
	35	3000	40.59	25700	1.35		
	42	2500	34.07	24800	1.60		
	48	2190	30.05	24100	1.85		
	57	1840	25.18	23200	2.15		
	69	1520	20.78	22200	2.65		
	51	2060	28.49	23800	1.60	102 DV160M4	222
	57	1840	25.09	23200	1.65	102 DV160M4	210
68	1540	21.11	22300	2.25			
80	1310	17.93	21400	2.65			
90	1170	16.08	20700	3.00			
43	2440	33.47	18600	0.95	93 DV160M4	176	
53	1980	27.33	17900	1.15	93 DV160M4	173	
60	1750	23.82	17500	1.30			
74	1420	19.57	16800	1.60			
62	1690	23.25	17500	1.25	92 DV160M4	171	
69	1520	20.77	17100	1.40	92 DV160M4	168	
82	1280	17.58	16500	1.65			
98	1070	14.75	15800	1.95			
111	950	13.01	15300	2.20			
132	795	10.90	14700	2.65			
154	680	9.37	14000	2.35			
183	575	7.87	13400	2.80			
207	505	6.94	12900	2.95			
83	1270	17.43	11400	0.85	82 DV160M4	131	
98	1070	14.69	11200	1.05	82 DV160M4	131	
125	840	11.51	10500	1.30			
141	745	10.22	10200	1.50			
167	630	8.61	9880	1.35			
205	510	7.03	9440	1.35			
235	445	6.13	9140	1.55			
286	365	5.04	8700	1.65			
<b>15</b>	30	4780	48.51	23900	0.85	103 DV160L4	294
	36	3980	40.59	23500	1.00	103 DV160L4	283
	43	3330	34.07	22900	1.20		
	49	2920	30.05	22500	1.35		
	58	2470	25.18	21800	1.60		
	70	2050	20.78	21000	1.95		
	51	2810	28.49	22400	1.15	102 DV160L4	287
	58	2470	25.09	21900	1.20	102 DV160L4	275
	69	2080	21.11	21100	1.70		
	81	1770	17.93	20400	2.00		
91	1570	16.08	19900	2.25			
104	1380	14.02	19200	2.55			
113	1270	12.92	18900	2.75			
53	2700	27.33	16400	0.85	93 DV160L4	241	
61	2350	23.82	16100	1.00	93 DV160L4	238	
75	1910	19.57	15700	1.20			
63	2270	23.25	16100	0.95	92 DV160L4	236	
70	2050	20.77	15900	1.00	92 DV160L4	233	
83	1730	17.58	15400	1.20			
99	1450	14.75	14900	1.45			
112	1280	13.01	14600	1.65			



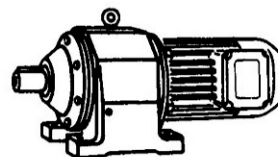
## BH SERIES SELECTION & PERFORMANCE TABLE

**Code:**

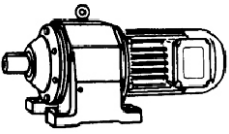
f<sub>B</sub> - service factor

i - gear ratio

n<sub>a</sub> - output rpm

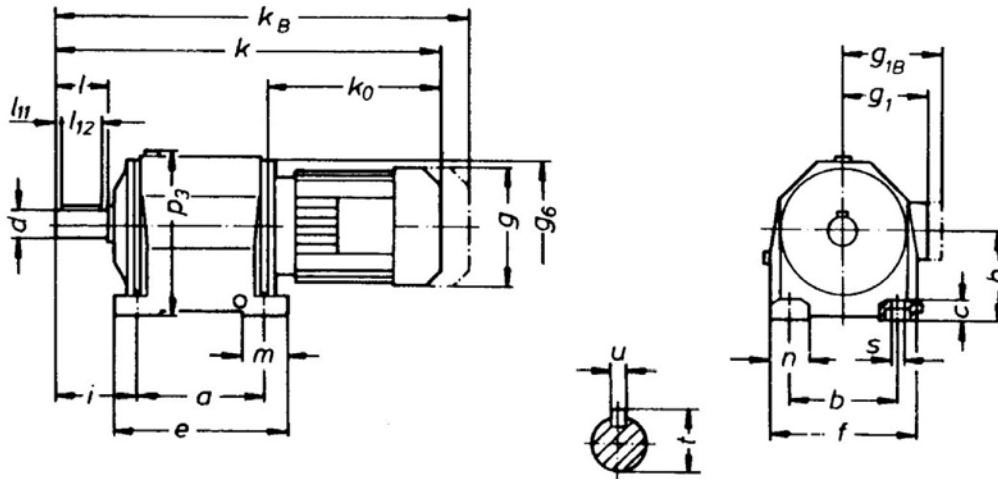


P <sub>m</sub> kw	n <sub>a</sub> r/min	M <sub>a</sub> N·m	i	FR <sub>a</sub> N	f <sub>B</sub>	Size	kg		
<b>15</b>	134	1070	10.90	14000	1.95	92	DV160L4	236	
	156	920	9.37	13400	1.75	92	DV160L4	233	
	186	770	7.87	12900	2.10				
	210	680	6.94	12500	2.20				
	251	570	5.82	11900	2.65				
		127	1130	11.51	9610	0.95	82	DV160L4	194
		143	1000	10.22	9470	1.10	82	DV160L4	194
		170	840	8.61	9230	1.00			
		208	690	7.03	8890	1.00			
		238	600	6.13	8660	1.15			
		290	495	5.04	8300	1.20			
	<b>18.5</b>	36	4910	40.59	21700	0.80	103	DV180M4	320
		43	4110	34.07	21400	0.95	103	DV180M4	309
		49	3610	30.05	21200	1.10			
58		3050	25.18	20700	1.30				
71		2490	20.78	20000	1.60				
		69	2560	21.11	20200	1.35	102	DV180M4	313
		82	2150	17.93	19600	1.65	102	DV180M4	301
		91	1940	16.08	19200	1.80			
		104	1700	14.02	18600	2.05			
		113	1560	12.92	18300	2.25			
		131	1350	11.17	17700	2.60			
		162	1090	9.05	16900	2.45			
		185	960	7.90	16300	2.65			
		202	870	7.27	16000	2.75			
		233	760	6.29	15300	2.75			
		75	2360	19.57	14700	0.95	93	DV180M4	267
							93	DV180M4	264
		83	2130	17.58	14600	1.00	92	DV180M4	262
		99	1780	14.75	14200	1.20	92	DV180M4	259
		113	1560	13.01	13900	1.35			
		134	1320	10.90	13500	1.60			
		156	1130	9.37	12900	1.40			
		186	950	7.87	12500	1.70			
		211	840	6.94	12100	1.80			
	252	700	5.82	11600	2.15				
	305	580	4.80	11100	2.35				
<b>22</b>	43	4890	34.07	19900	0.80	103	DV180L4	334	
	49	4290	30.05	19800	0.95	103	DV180L4	323	
	58	3620	25.18	19600	1.10				
	71	2960	20.78	19100	1.35				
		69	3040	21.11	19300	1.15	102	DV180L4	327
		82	2560	17.93	18800	1.35	102	DV180L4	315
		91	2310	16.08	18500	1.50			
		104	2020	14.02	18000	1.75			
		113	1860	12.92	17700	1.90			
		131	1600	11.17	17200	2.20			
		162	1300	9.05	16500	2.05			
		185	1140	7.90	16000	2.25			
		202	1040	7.27	15600	2.30			
		233	900	6.29	15100	2.35			
		83	2530	17.58	13800	0.85	92	DV180L4	276
		99	2120	14.75	13500	1.00	92	DV180L4	273
		113	1860	13.01	13000	1.15			
		134	1570	10.90	13000	1.35			



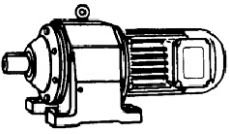
## BH SERIES INSTALLATION DIMENSIONS

Foot mounted helical gear box with motor mounting flange



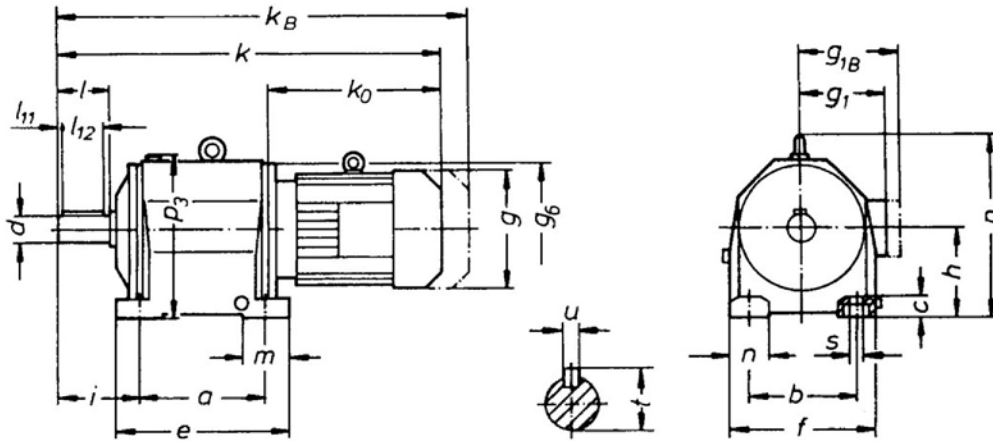
Size	a	b	c	e	f	g	g <sub>1</sub>	g <sub>1B</sub>	g <sub>6</sub>	h	i	k	k <sub>B</sub>	k <sub>0</sub>	m	n	p <sub>3</sub>	s	d	l <sub>11</sub>	t	
																			l	l <sub>12</sub>	u	
32	D63..					127	95	95				306	338	154					20	4	22.5	
	DT71D	85	110	12	110	135	145	121	127	134	75 <sup>-0.5</sup>	58	316	380	164	-	25	141	10			
	DT80..						145	121	127				366	430	214				40	32	6	
42	D63..					127	95	95				398	430	196					25	7	28	
	DT71D					145	121	127				407	471	205								
	DT80..	130	110	20	160	145	145	121	127	120	90 <sup>-0.5</sup>	75	457	521	255	40	35	165	9			
43	DT90..					197	155	161				477	562	275					50	40	8	
	DT100..						163	169				530	615	328					30	7	33	
	D63..					127	95	95				439	471	190								
62	DT71D					145	121	127				448	512	199								
	DT80..					197	155	161				498	562	249								
	DT90..	165	135	25	200	190	197	155	161	160	115 <sup>-0.5</sup>	90	518	603	269	60	55	206	14			
63	DT100..						163	169				568	653	319								
	DV112M					221	176	182				603	683	354					60	50	8	
	DV132S											651	731	402								

Check dimension g/2 in comparison to h  
 Dimensions k<sub>B</sub> refer to DC motors  
 Dimensions g<sub>1B</sub> refer to "Increased Safety" motors



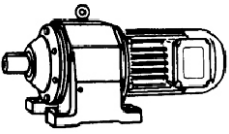
## BH SERIES INSTALLATION DIMENSIONS

Foot mounted helical gear box with motor mounting flange



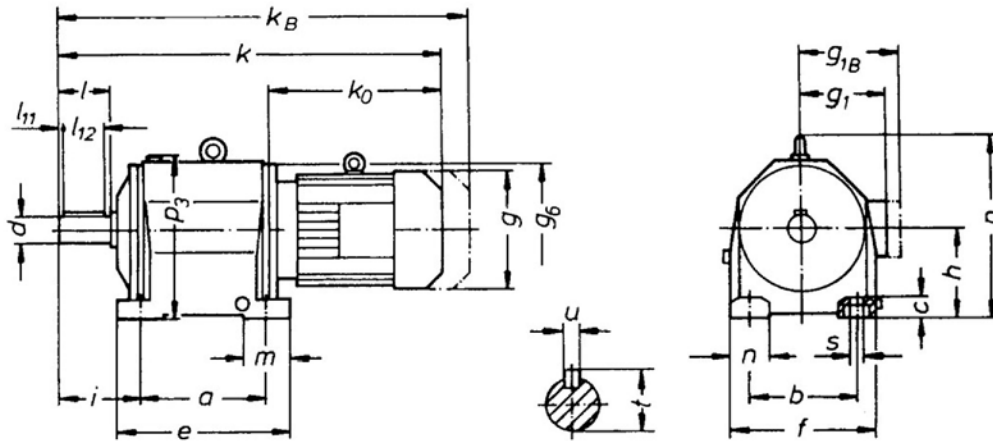
Size	a	b	c	e	f	g	g <sub>1</sub>	g <sub>1B</sub>	g <sub>6</sub>	h	i	k	k <sub>B</sub>	k <sub>0</sub>	m	n	p	s	d	l	l <sub>11</sub>	t	
																	p <sub>3</sub>				l <sub>12</sub>	u	
73	D63..					127	95	95				484	516	184			287		40	5	43		
	DT71D											493	557	193									
	DT80..					145	121	127				543	607	243									
	DT90..						155	161				561	646	261									
	DT100..						197	163	169			611	696	311									
	DV112M	205	170	30	245	230				200	140	115	647	727	347	70	60		18				
	DV132S						221	176	182				692	772	392								
DV132M												712	824	412									
DV132ML						275	230	230				772	884	472			251		80	70	12		
82	DT80..					145	121	127				613	677	238			361		50	10	53.5		
	DT90..						155	161				632	717	257									
	DT100..						197	163	169			682	767	307									
	DV112M											717	797	342									
	DV132S	260	215	45	310	290	221	176	182	250	180	140	762	842	387	90	75		18				
	DV132M												782	894	407								
	DV132ML						275	230	230				842	954	467								
DV160M												890	1046	515			316		100	80	14		
DV160L						331	253	253															

Check dimension g/2 in comparison to h  
 Dimensions k<sub>B</sub> refer to DC motors  
 Dimensions g<sub>1B</sub> refer to "Increased Safety" motors



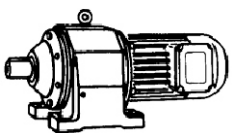
## BH SERIES INSTALLATION DIMENSIONS

Foot mounted helical gear box with motor mounting flange



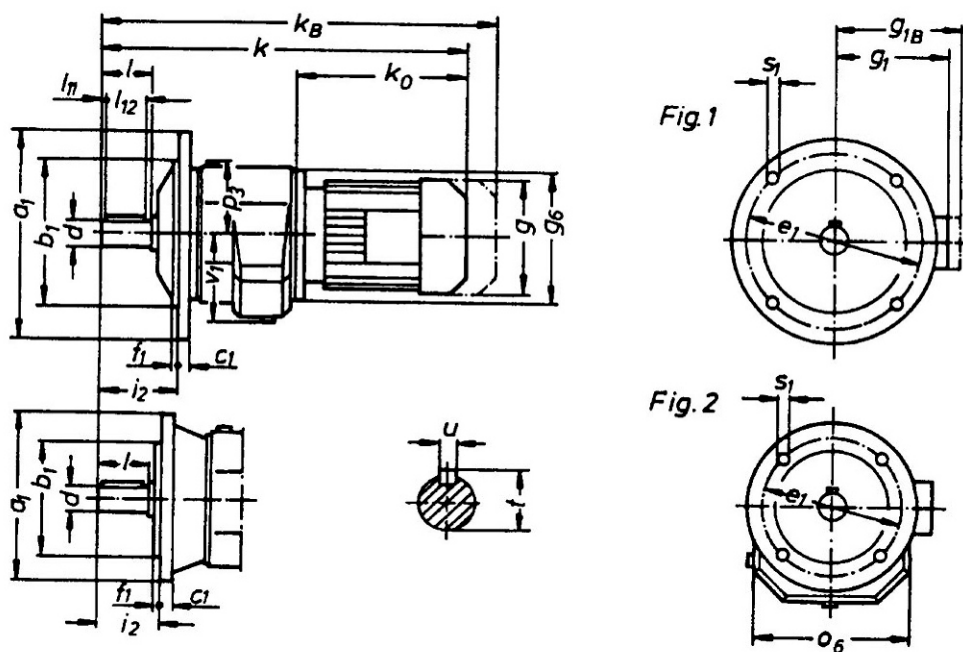
Size	a	b	c	e	f	g	g <sub>1</sub>	g <sub>1B</sub>	g <sub>6</sub>	h	i	k	k <sub>B</sub>	k <sub>0</sub>	m	n	p <sub>3</sub>	s	d	l	l <sub>11</sub>	l <sub>12</sub>	t	u	
92 93	DT80..	310				145	121	127				671	735	231			431		60		10		64		
	DT90..							155	161				691	776	251										
	DT100..							163	169				742	827	302										
	DV112M					221	176	182				777	857	337											
	DV132M											822	902	382											
	DV132M	55	365	340						300	225	160	842	954	402	100	90		22						
	DV132ML						275	230	230																
	DV160M												902	1014	462										
	DV160L						331	253	253				950	1106	510										
	DV180..												1022	1178	582										
DV200..	250					394	285	285				1069	1225	629			386		120		100			18	
102 103	DT100..	370				197	163	169				807	892	295			500		70		15		74.5		
	DV112M												843	923	331										
	DV132S						221	176	182				888	968	376										
	DV132M											908	1020	396											
	DV132ML	65	440	400		275	230	230	350	250	185	968	1080	456	125	110		26							
	DV160M																								
	DV160L						331	253	253			1016	1172	504											
	DV180..											1088	1244	576											
	DV200..						394	285	285			1135	1291	623			437		140		110			20	
	DV225..	290						289	289				1217	1373	705										

Check dimension  $g/2$  in comparison to  $h$   
 Dimensions  $k_B$  refer to DC motors  
 Dimensions  $g_{1B}$  refer to "Increased Safety" motors



## BH SERIES INSTALLATION DIMENSIONS

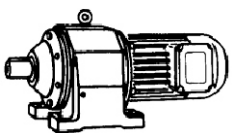
Flange mounted helical gear box with motor mounting flange



Size	a <sub>1</sub>	Fig.	b <sub>1</sub>	c <sub>1</sub>	e <sub>1</sub>	f <sub>1</sub>	g	g <sub>1</sub>	g <sub>1B</sub>	g <sub>6</sub>	i <sub>2</sub>	Fig.	k	k <sub>B</sub>	k <sub>0</sub>	o <sub>6</sub> p <sub>3</sub>	s <sub>1</sub>	v <sub>1</sub>	d l	l <sub>11</sub> l <sub>12</sub>	t u									
32	DT63..	120	2	80	8	100	3	127	95	95	134	44	-	324	356	154	135	6.6	73	20	4	22.5								
	DT71D							145	121	127				334	398	164														
	DT80..							145	121	127				384	448	214							66	40	32	6				
42	D63..	120	2	80	8	100	3	127	95	95	55	-	-	-	-	-	-	-	-	-	-	-								
	DT71D							145	121	127													418	450	196	145	6.6	25	7	28
	DT80..							145	121	127													427	491	205	66	9	91		
43	DT80..	160	2	110	10	130	3.5	145	121	127	120	55	-	-	-	-	-	-	-	-	-	-								
	DT90..							197	155	161													477	541	255	9	91			
	DT100..							197	155	161													497	582	275	11	50	40	8	
62	D63..	160	2	110	10	130	3.5	127	95	95	65	2	462	494	190	190	9	-	30	7	33									
	DT71D							145	121	127			1	439	471							199								
	DT80..							145	121	127			2	471	535							249								
	DT90..							197	155	161			2	521	585							249								
	DT100..							197	155	161			1	498	562							269								
	DV112M							221	176	182			2	541	626							269	11	118						
63	DT90..	200	2	130	10	165	3.5	155	161	160	65	2	541	626	269	-	-	-	-	-	-									
	DT100..							197	155	161			1	518	603							319								
	DV112M							221	176	182			2	591	676							354								
DV132S	250	1	180	15	215	4	-	-	-	-	80	2	674	754	402	91	14	-	60	50	8									
													DV132S	1	651							731	402	91	14	60	50	8		

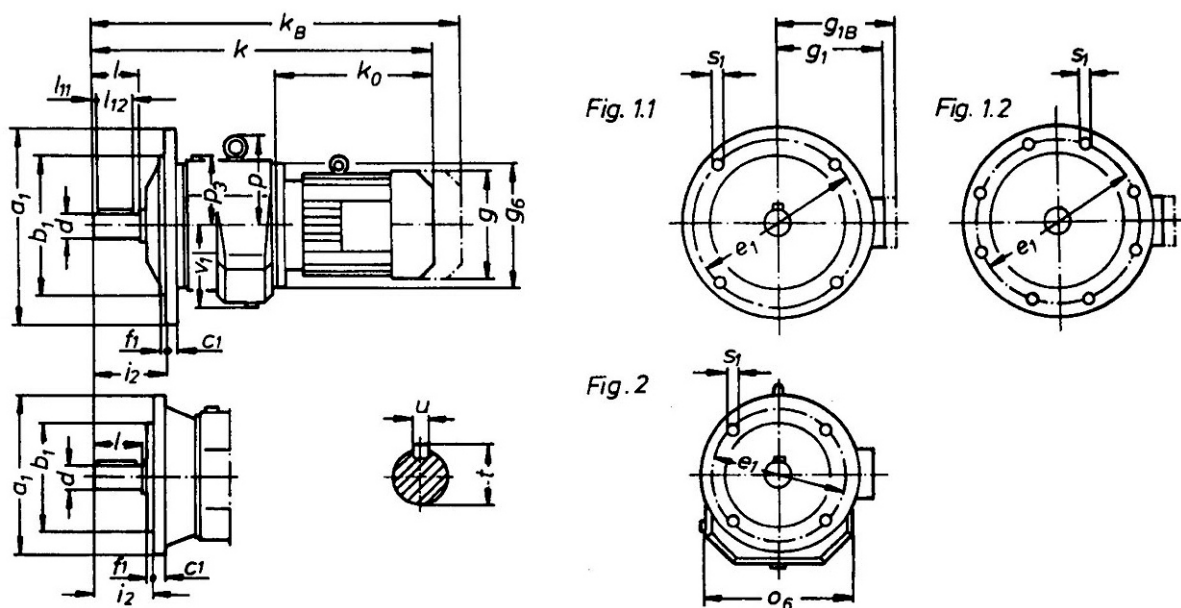
Dimensions k<sub>B</sub> refer to DC motors

Dimensions g<sub>1B</sub> refer to "Increased Safety" motors



## BH SERIES INSTALLATION DIMENSIONS

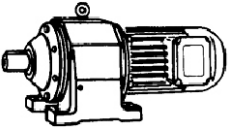
Flange mounted helical gear box with motor mounting flange



Size	a <sub>1</sub>	Fig.	b <sub>1</sub>	c <sub>1</sub>	e <sub>1</sub>	f <sub>1</sub>	g	g <sub>1</sub>	g <sub>1B</sub>	g <sub>6</sub>	i <sub>2</sub>	k	k <sub>B</sub>	k <sub>0</sub>	o <sub>6</sub>	p	p <sub>3</sub>	s <sub>1</sub>	v <sub>1</sub>	d	l <sub>11</sub>	l <sub>12</sub>	t	u		
72	D63..	250	2	180	15	215	127	95	95		86	502	534	184		147	14			40	5		43			
	DT71D						145	121	127			511	575	193												
	DT80..											561	625	243												
	DT90..					4	197	155	161			579	664	261					142							
	DT100..							163	169	200		629	714	311												
	DV112M							221	176	182			665	745	347											
	DV132S												710	790	392											
73	DV132M	300	1.1	230	16	265	275	230	230		130	730	842	412							80	70		12		
	DV132ML											790	902	472			111	14								
	DT80..	300	2	230	16	265	4	145	121	127		110	633	697	238						50	10		53.5		
	DT90..							155	161				652	737	257			181	14							
	DT100..							197	163	169			702	787	307											
	DV112M							221	176	182			737	817	342											
	DV132S										250		782	862	387	290				183						
82	DV132M											802	914	407												
	DV132ML						275	230	230																	
	DV160M	350	1.1	250	18	300	5	331	253	253		160	910	1066	515			137	18		100	80		14		
	DV160L																									
	DT80..	350	2	250	18	300		145	121	127		130	693	757	231						60	10		64		
	DT90..							197	155	161			713	798	251			206	18							
	DT100..								163	169			764	849	302											
92	DV112M							221	176	182			799	879	337											
	DV132S												844	924	382											
	DV132M					5					300	864	976	402	340				225							
	DV132ML							275	230	230																
	DV160M												924	1036	462											
	DV160L																									
	DV180..	450	1.2	350	20	400		331	253	253		180	1044	1200	582						120	100		18		
DV200..							394	285	285				1091	1247	629			161	18							

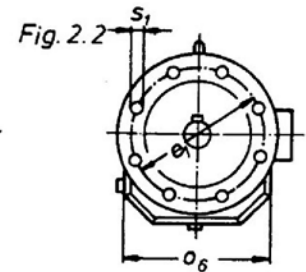
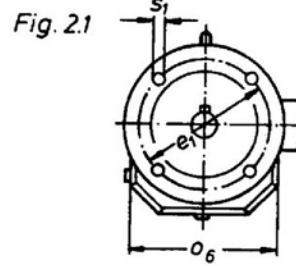
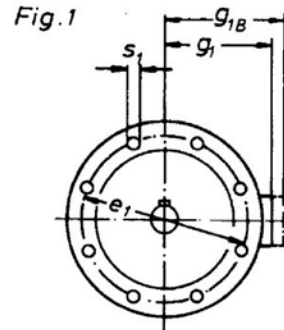
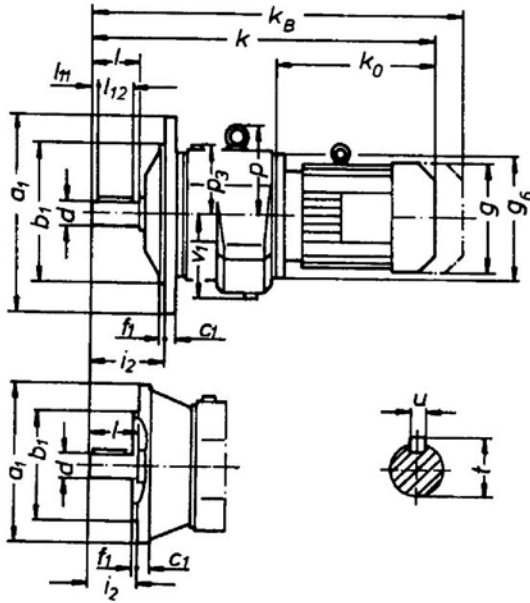
Dimensions  $k_B$  refer to DC motors

Dimensions  $g_{1B}$  refer to "Increased Safety" motors



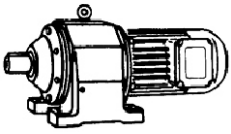
## BH SERIES INSTALLATION DIMENSIONS

Flange mounted helical gear box with motor mounting flange



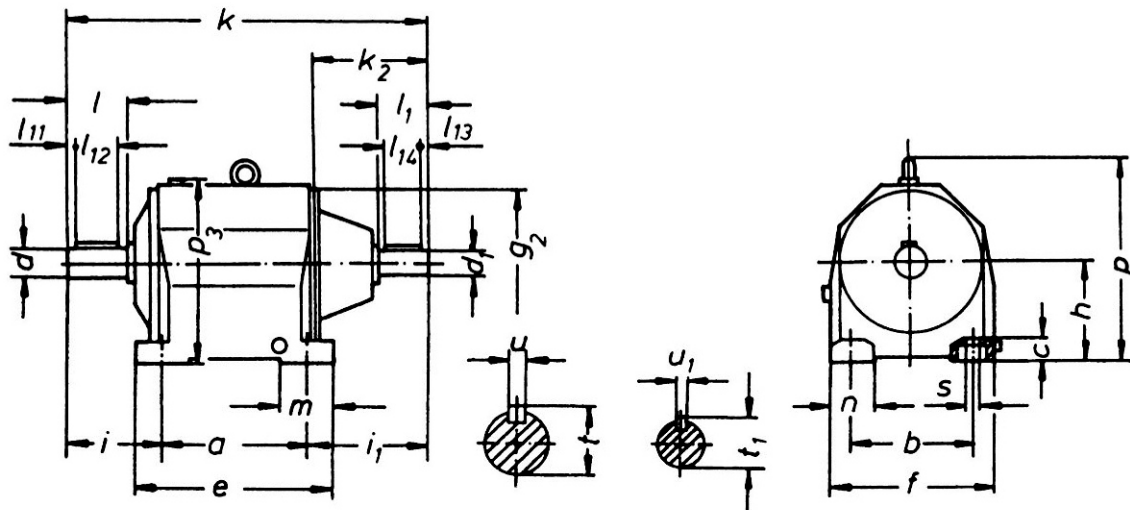
Size	a <sub>1</sub>	Fig.	b <sub>1</sub>	c <sub>1</sub>	e <sub>1</sub>	f <sub>1</sub>	g	g <sub>1</sub>	g <sub>1B</sub>	g <sub>6</sub>	i <sub>2</sub>	k	k <sub>B</sub>	k <sub>0</sub>	o <sub>6</sub>	P p <sub>3</sub>	s <sub>1</sub>	v <sub>1</sub>	d l	l <sub>11</sub> l <sub>12</sub>	t u
DT100..	350	2.1	250	18	300		197	163	169		135	807	892	295	250	18		70	15	74.5	
DV112M							221	176	782			843	923	331							
DV132S							888	968	376			908	1020	396							
DV132M							908	1020	396												
102 DV132ML					5	275	230	230	350			968	1080	456	400		244				
103 DV160M												1016	1172	504							
DV160L							331	253	253			1088	1244	576							
DV180..	450	1	350	22	400		394	285	285		195	1135	1291	623	187	18		140	110	20	
DV200..							289	289	1217			1373	705								
DV225							289	289	1217			1373	705								

Dimensions k<sub>B</sub> refer to DC motors  
Dimensions g<sub>1B</sub> refer to "Increased Safety" motors

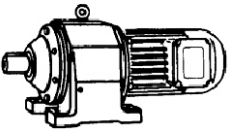


## BH SERIES INSTALLATION DIMENSIONS

Foot mounted inline helical gear box

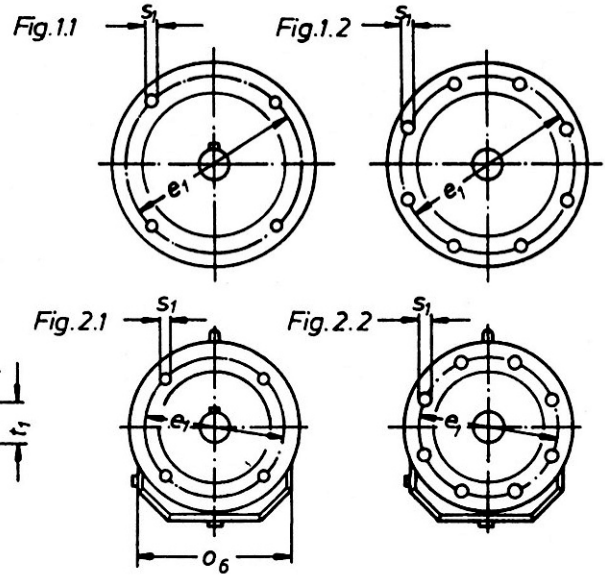
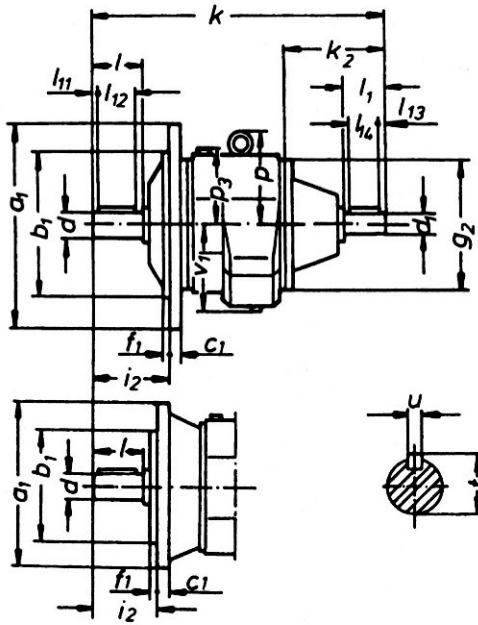


Size	a b	c	e f	g <sub>2</sub>	h	i	i <sub>1</sub>	k	k <sub>2</sub>	m n	p p <sub>3</sub>	s	d l	l <sub>11</sub> l <sub>12</sub>	t	u	d <sub>1</sub> l <sub>1</sub>	l <sub>13</sub>	l <sub>14</sub>	t <sub>1</sub>	u <sub>1</sub>	
42	130		160		90					40	-		25	7			16					
43	110	20	145	120	90 -0.5	75	112	317	115	35	165	9	50	40	28	8	40	4	32	18	5	
62	165		200		115					60	-		30	7			19					
63	135	25	190	160	115 -0.5	90	114	369	120	55	206	14	60	50	33	8	40	4	32	21.5	6	
72	205		245		140					70	287		40	5			24					
73	170	30	230	200	140 -0.5	115	120	440	140	60	251	18	80	70	43	12	50	5	40	27	8	
82	260		310		180					90	361		50	10			28					
83	215	45	290	250	180 -0.5	140	155	555	180	75	316	18	100	80	53.5	14	60	5	50	31	8	
92	310		365		225					100	431		60	10			38					
93	250	55	340	300	225 -0.5	160	190	660	220	90	386	22	120	100	64	18	80	5	70	41	10	
102	370		440		250					125	500		70	15			42					
103	290	65	400	350	250 -0.5	185	227	782	270	110	437	26	140	110	74.5	20	110	10	70	45	12	

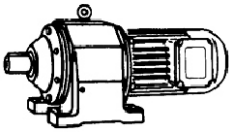


## BH SERIES INSTALLATION DIMENSIONS

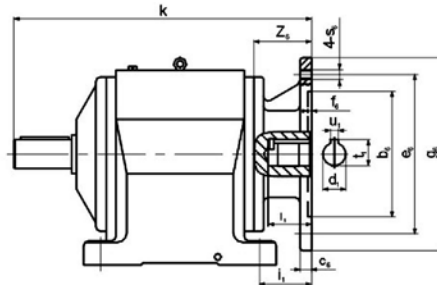
### Flange mounted inline helical gear box



Size	$a_1$	Fig.	$b_1$	$c_1$	$e_1$	$f_1$	$g_2$	$i_2$	K	$K_2$ $O_6$	P $P_3$	$s_1$	$v_1$	d l	$l_{11}$ $l_{12}$	t u	$d_i$	$l_1$	$l_{11}$	$l_{13}$	$t_1$ $u_1$
42	120	2.1	80	8	100	3		55		115	-	6.6		25	7	28					18
43	160	2.1	110	10	130	3.5	120	55	337			9	91				16	40	4	32	
	200	1.1	130	12	165	3.5		85		145	75	11		50	40	8					5
62	160	2.1	110	10	130	3.5		65	392	120	-	9		30	7	33					21.5
63	200	2.1	130	10	165	3.5	160	65	392			11	118				19	40	4	32	
	250	1.1	180	15	215	4		80	369	190	91	14		60	50	8					6
72	250	2.1	180	15	215	4	200	86	458	140	147			40	5	43					27
73	300	1.1	230	16	265			130		230	111	14	142	80	70	12	24	50	5	40	8
82	300	2.1	230	16	265	4	250	110	575	180	181	14		50	10	53.5					31
83	350	1.1	250	18	300	5		160		290	137	18	183	100	80	14	28	60	5	50	8
92	350	2.1	250	18	300	5	300	130	682	220	206	18	255	60	10	64	38	80	5	70	41
93	450	1.2	350	20	400			190		340	161			120	100	18					10
102	350	2.1	250	18	300	5	350	135	782	270	250			70	15	74.5					45
103	450	1.2	350	22	400			195		400	187	18	244	140	110	20	42	110	10	70	12



## HELICAL GEAR UNITS FITTED WITH ADAPTER FOR MOUNTING ICE MOTORS



Size	Frame	b <sub>6</sub>	c <sub>6</sub>	e <sub>6</sub>	f <sub>6</sub>	g <sub>6</sub>	i <sub>1</sub>	k	s <sub>6</sub>	z <sub>6</sub>	d <sub>1</sub>	l <sub>1</sub>	t <sub>1</sub>	u <sub>1</sub>
32	LS63	95	12	115	3.5	140	47.5	192.5	M8	45	11	27.5	12.8	4
	LS71	110	12	130	4	160	52.5	197.5		50	14	35	16.3	5
	LS80	130	12	165	4	200	62.5	207.5	M10	60	19	43	21.8	6
42	LS63	95	12	115	3.5	140	42	247	M8	45	11	27.5	12.8	4
	LS71	110	12	130	4	160	47	252		50	14	35	16.3	5
43	LS80	130	12	165	4	200	57	262	M10	60	19	43	21.8	6
	LS90										24	54	27.3	8
62	LS63	95	12	115	3.5	140	39	294	M8	45	11	27.5	12.8	4
	LS71	110	12	130	4	160	44	299		50	14	35	16.3	5
63	LS80	130	12	165	4	200	54	309	M10	60	19	43	21.8	6
	LS90										24	54	27.3	8
63	LS100	180	15	215	5	250	59	314	M12	65	28	67	31.3	8
	LS112													
72	LS63	95	12	115	3.5	140	25	345	M8	45	11	27.5	12.8	4
	LS71	110	12	130	4	160	30	350		50	14	35	16.3	5
73	LS80	130	12	165	4	200	40	360	M10	60	19	43	21.8	6
	LS90										24	54	27.3	8
73	LS100	180	15	215	5	250	45	365	M12	65	28	67	31.3	8
	LS112													
82	LS132	230	16	265	6	300	65	385	M12	85	38	83	41.3	10
	LS80	130	12	165	4	200	35	435		M10	60	19	43	21.8
LS90	24								54			27.3	8	
83	LS100	180	15	215	5	250	40	440	M12	65	28	67	31.3	8
	LS112													
83	LS132	230	16	265	6	300	60	460	M12	85	38	83	41.3	10
	LS160	250	18	300	6	350	90	490		M16	115	42	114	45.3
92	LS100	180	15	215	5	250	35	505	M12	65	28	67	31.3	8
	LS112													
93	LS132	230	16	265	6	300	55	525	M12	85	38	83	41.3	10
	LS160	250	18	300	6	350	85	555		M16	115	42	114	45.3
LS180	48								51.8			14		
102	LS100	180	15	215	5	250	22	577	M12	65	28	67	31.3	8
	LS112													
103	LS132	230	16	265	6	300	42	597	M12	85	38	83	41.3	10
	LS160	250	18	300	6	350	72	627		M16	115	42	114	45.3
LS180	48								51.8			14		

# www.bonvario.com



# BONVARIO

---

## ITALY

RIDUTTORI  
MOTORIDUTTORI  
VARIATORI CONTINUI  
MOTORI ELETTRICI A.C.

GEARBOXES  
GEARED MOTORS  
SPEED VARIATORS  
A.C. ELECTRIC MOTORS

ITALY ■ GERMANY ■ USA ■ CANADA ■ INDIA



### ITALY

Via San Francesco d'Assisi N-22A  
Torino - 10121  
ITALY  
Email: [info@bonvario.com](mailto:info@bonvario.com)



### GERMANY

Gablonzer Ring 29 / 4186  
Kaufbeuren  
Bayern - 87600  
GERMANY  
Email : [sales.germany@bonvario.com](mailto:sales.germany@bonvario.com)



### USA

4281 Express Lane  
Suite N-4164  
Sarasota, FLORIDA 34238  
UNITED STATES OF AMERICA  
Email : [sales.usa@bonvario.com](mailto:sales.usa@bonvario.com)



### CANADA

795 Lakeshore Dr, Suite-307  
Dorval, Quebec  
H9S 0A8  
CANADA  
Email : [sales.canada@bonvario.com](mailto:sales.canada@bonvario.com)



### INDIA

15/24, Main Mathura Road  
Badarpur, Near NTPC gate  
New Delhi – 110044  
INDIA  
Email: [sales.india@bonvario.com](mailto:sales.india@bonvario.com)  
Tel.: 011-29949306, 29949307

CHANNEL PARTNER: