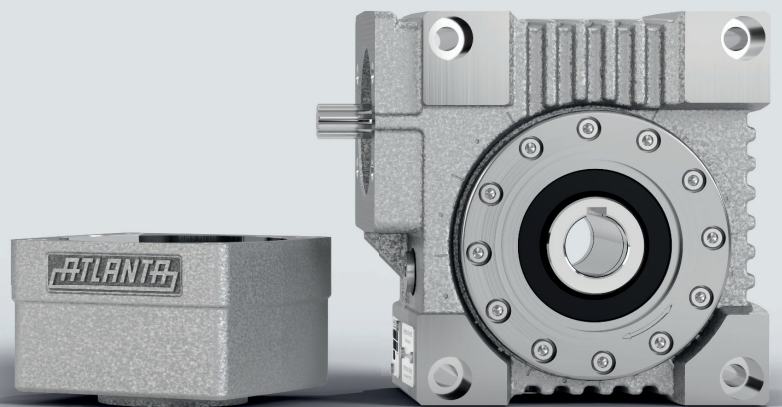
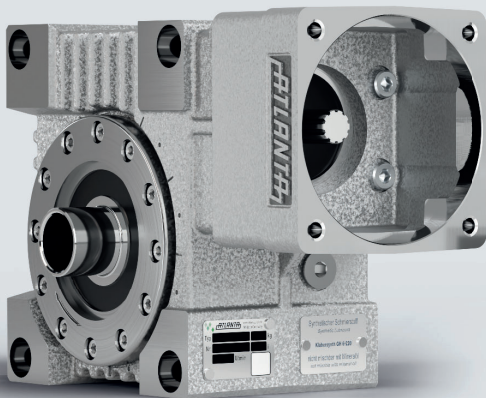
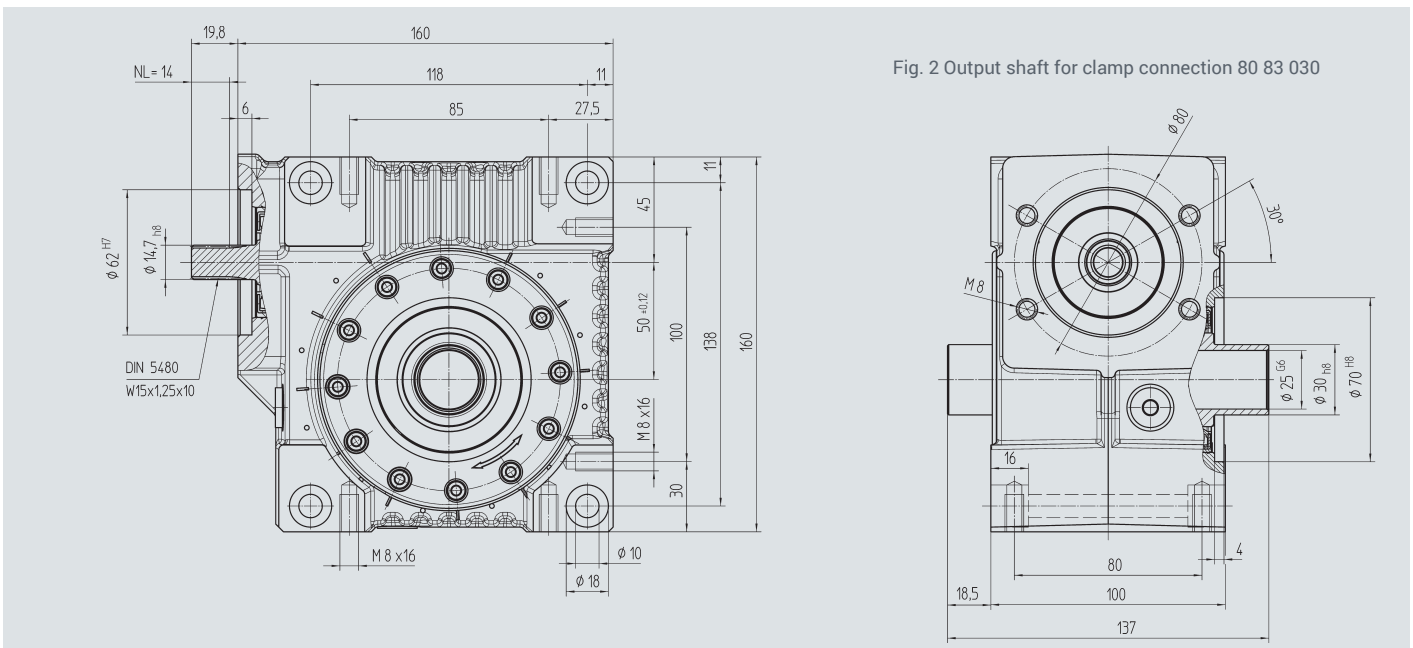
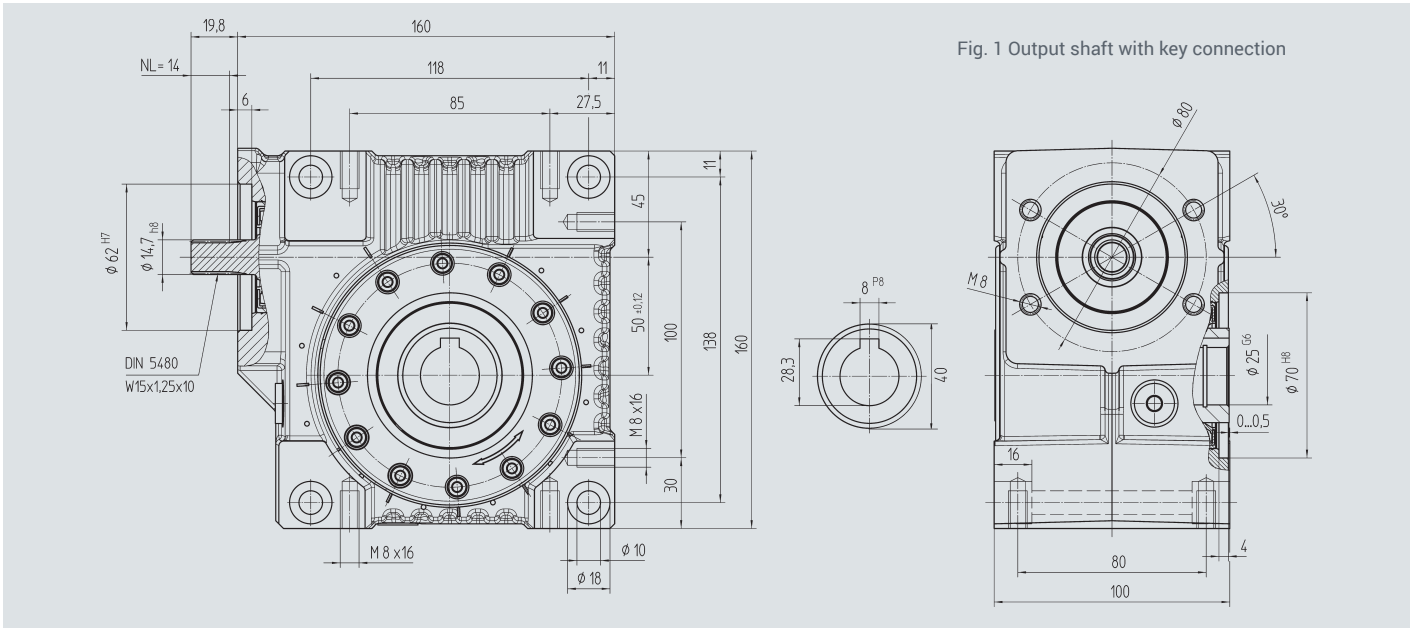


	Page
Center Distance 50 mm	B-24 – B-25
Center Distance 63 mm	B-26 – B-27
Center Distance 80 mm	B-28 – B-29
Center Distance 100 mm	B-30 – B-31
Center Distance 125 mm	B-32 – B-33
Selection And Ratings	B-34 – B-36



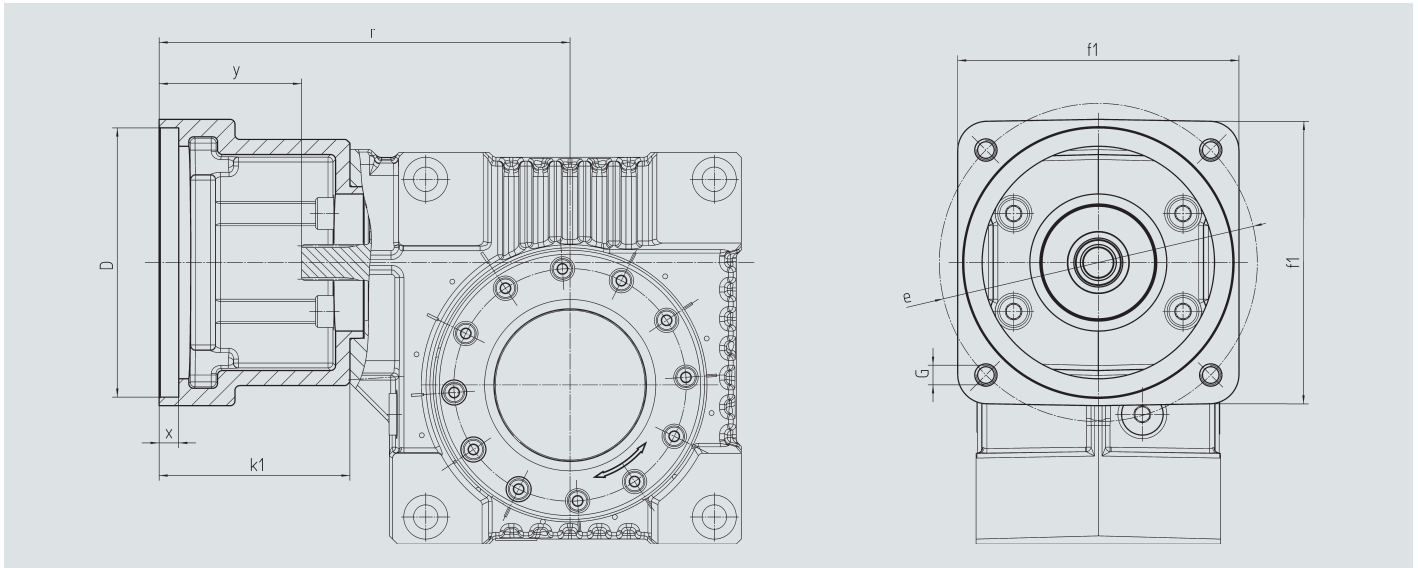
Center Distance $a_o = 50$ mm



Order Code Fig. 1	Fig. 2	Ratio i	kg	$J_{red} 10^{-4} \text{ kg m}^2$
58 03 005	58 13 005	4.75	7.0	0.8280
58 03 007	58 13 007	6.75	7.0	0.4140
58 03 009	58 13 009	9.25	7.0	0.3490
58 03 015	58 13 015	14.50	7.0	0.2800
58 03 020	58 13 020	19.50	7.0	0.1960
58 03 029	58 13 029	29.00	7.0	0.2694
58 03 039	58 13 039	39.00	7.0	0.2310
58 03 050	58 13 050	50.00	7.0	0.2140

With food grade oil: Order Code 58 03 1xx / 58 13 1xx
 In ATEX with food grade oil: Order Code 58 03 2xx / 58 13 2xx

Motor Flange

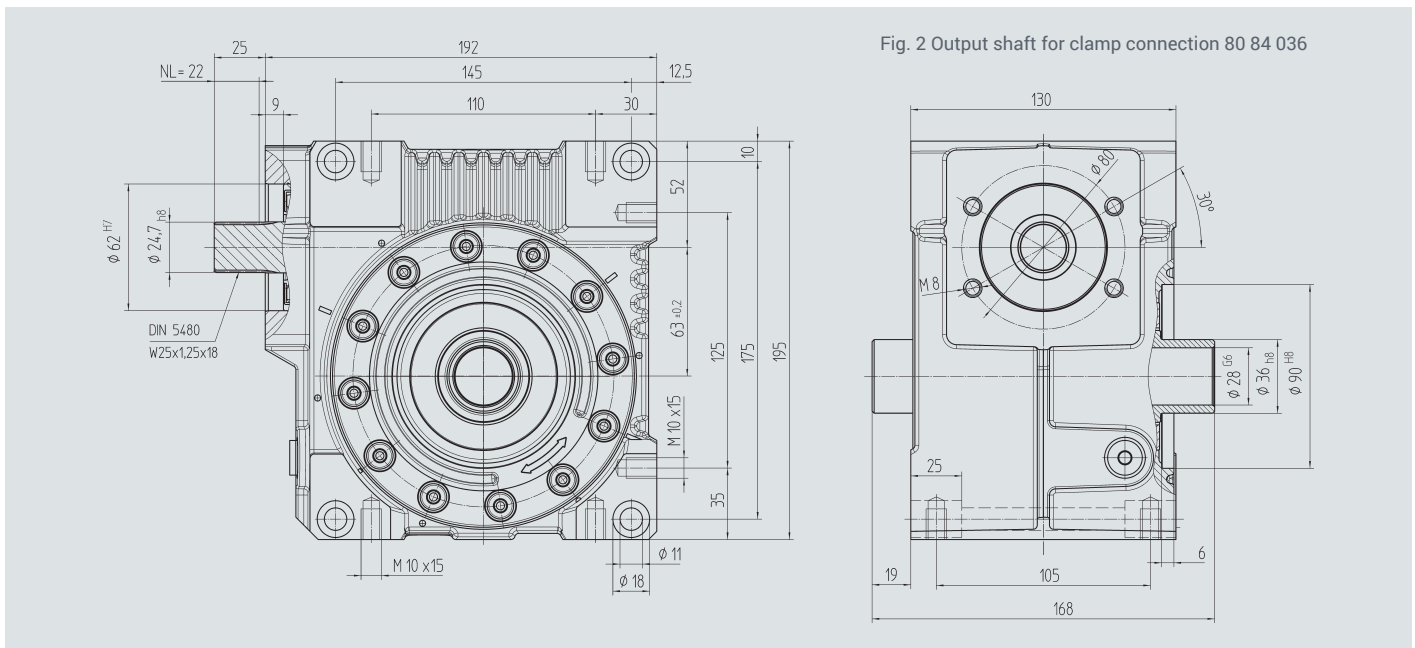
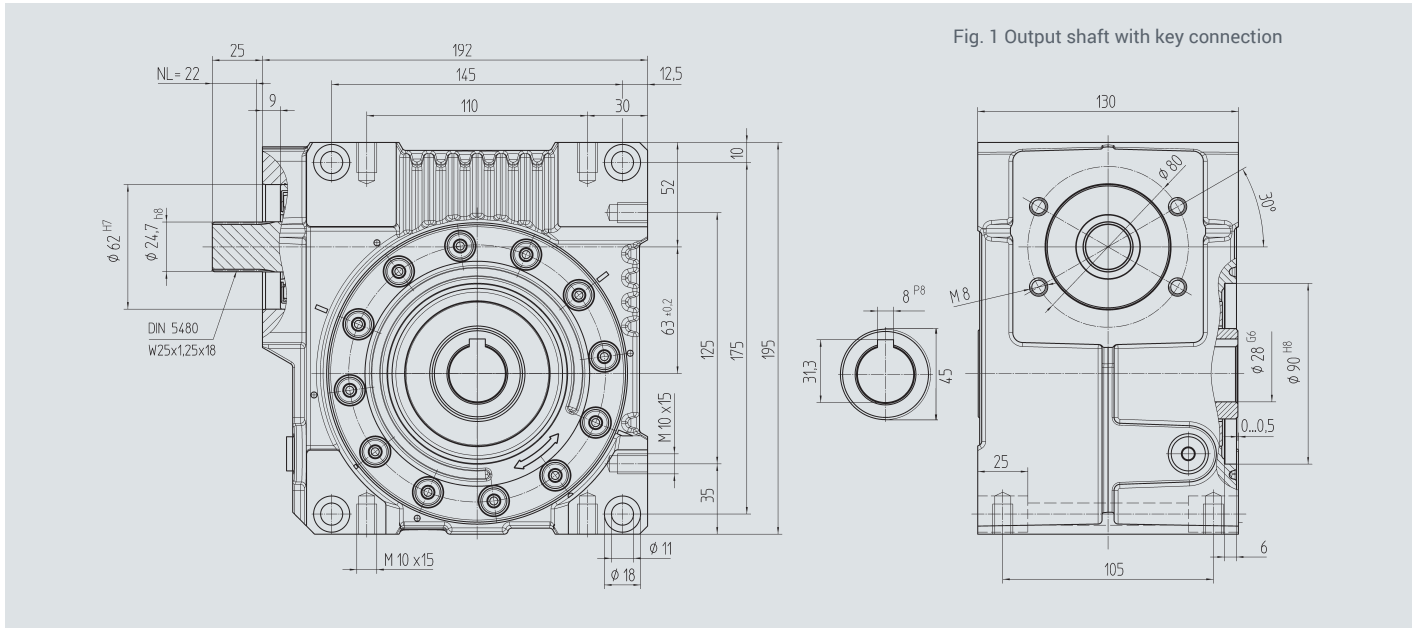


Center Distance $a_0 = 50$ mm

Order Code	D ^{G7}	k ₁	r	x	y	f ₁	e	G	kg
65 59 301	95.0	62	152	12.5	42	100	115	M8	0.60
65 59 302	50.0	62	152	10.0	42	100	70; 95; 115	M4; M6; M8	0.70
65 59 303	80.0	62	152	10.0	42	100	100	M6	0.65
65 59 304	95.0	78	168	10.0	58	115	130	M8	0.80
65 59 306	60.0	74	164	21.0	54	100	75; 90; 115	M5; M5; M8	0.90
65 59 307	70.0	70	160	21.0	50	100	90; 115	M6; M8	0.80
65 59 401	95.0	73	163	8.0	53	100	115	M8	0.75
65 59 402	110.0	78	168	8.0	58	115	130	M8	0.80
65 59 403	95.0	73	163	12.0	53	115	130	M8	0.75
65 59 404	110.0	73	163	12.0	53	115	130	M8	0.70
65 59 405	95.0	78	168	11.0	58	140	165	M10	1.20
65 59 406	110.0	78	168	11.0	58	140	165	M10	1.15
65 59 407	130.0	78	168	11.0	58	140	165	M10	1.00
65 59 409	130.0	98	188	14.0	78	140	165	M10	1.10
65 59 410	110.0	74	164	8.0	54	120	145	M8	1.00
65 59 411	110.0	84	174	8.0	64	120	145	M8	1.20
65 59 412	114.3	105	195	8.0	85	180	200	M12	3.70
65 59 413	114.3	139	229	8.0	119	180	200	M12	3.35
65 59 414	114.3	91	181	8.0	71	180	200	M12	2.65
65 59 415	110.0	89	179	8.0	69	120	145	M8	1.30

An order should contain gearbox 58 03 0xx / 58 13 0xx and flange 65 59 3xx or 4xx.

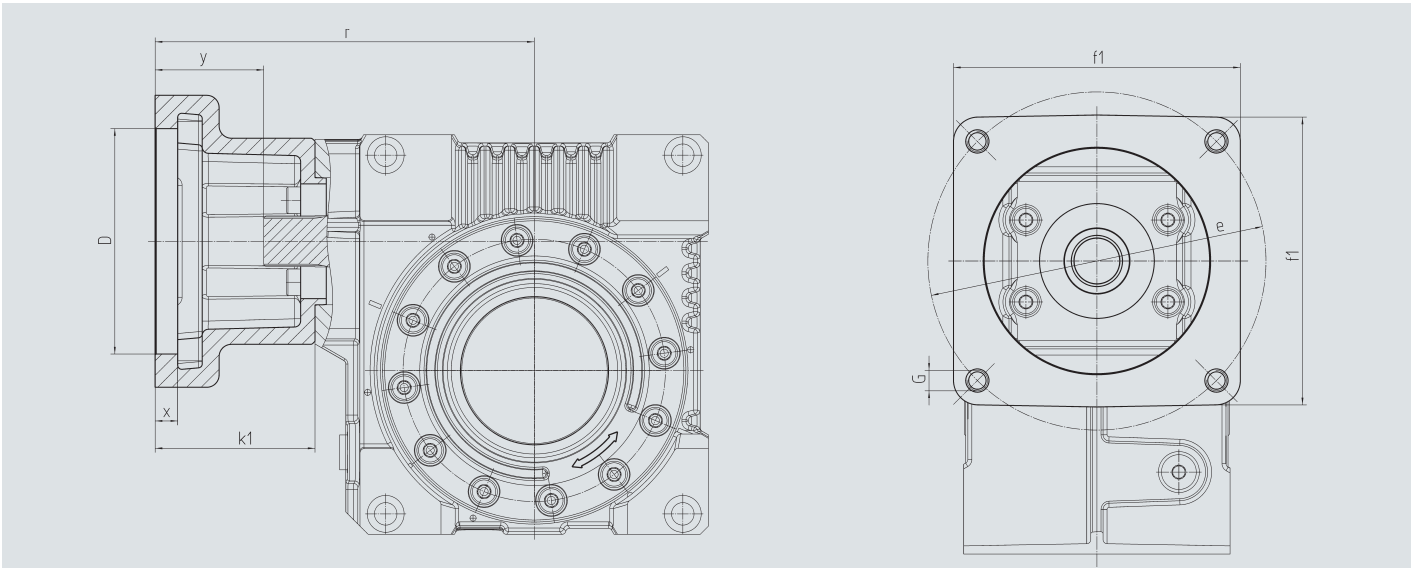
Center Distance $a_o = 63 \text{ mm}$



Order Code Fig. 1	Fig. 2	Ratio i	J_{red} kg	$J_{\text{red}} 10^{-4} \text{ kg m}^2$
58 04 005	58 14 005	4.75	11.5	2.5350
58 04 007	58 14 007	6.75	11.5	1.3720
58 04 009	58 14 009	9.25	11.5	0.9825
58 04 015	58 14 015	14.50	11.5	0.9590
58 04 020	58 14 020	19.50	11.5	0.6940
58 04 029	58 14 029	29.00	11.5	0.9966
58 04 039	58 14 039	39.00	11.5	1.0100
58 04 052	58 14 052	52.00	11.5	0.5305

With food grade oil: Order Code 58 04 1xx / 58 14 1xx
 In ATEX with food grade oil: Order Code 58 04 2xx / 58 14 2xx

Motor Flange

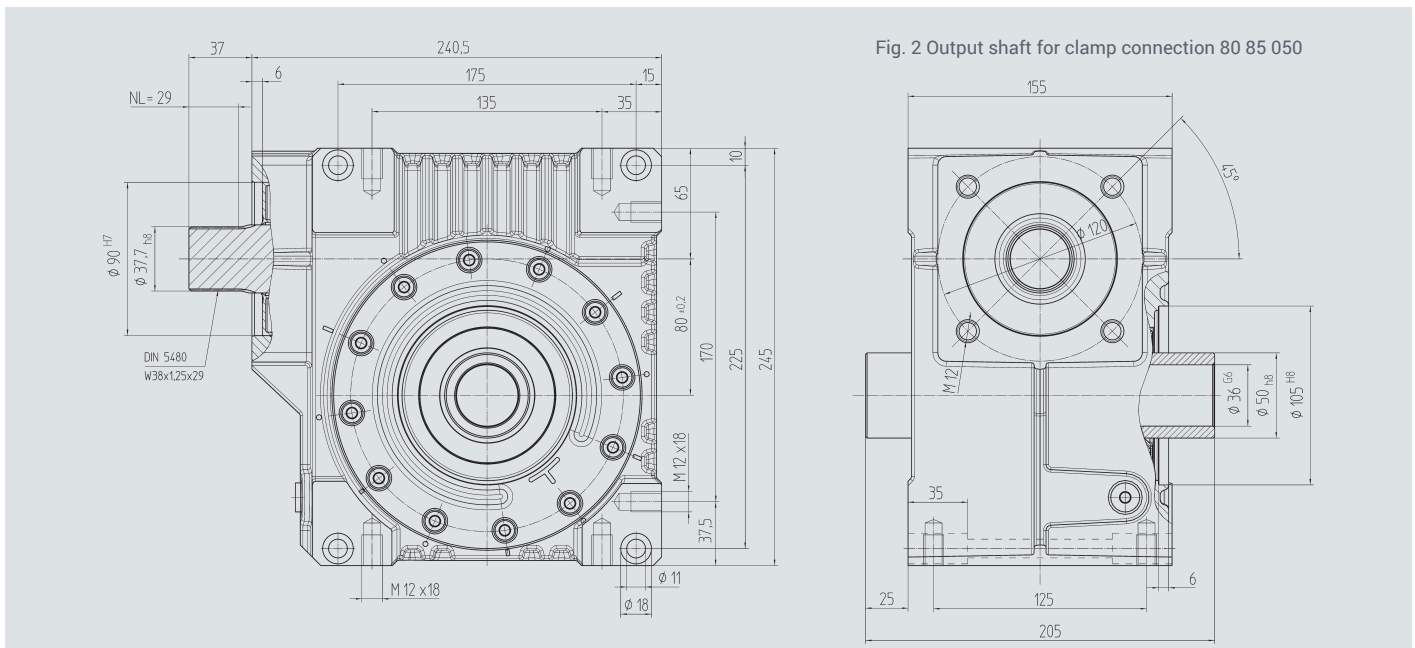
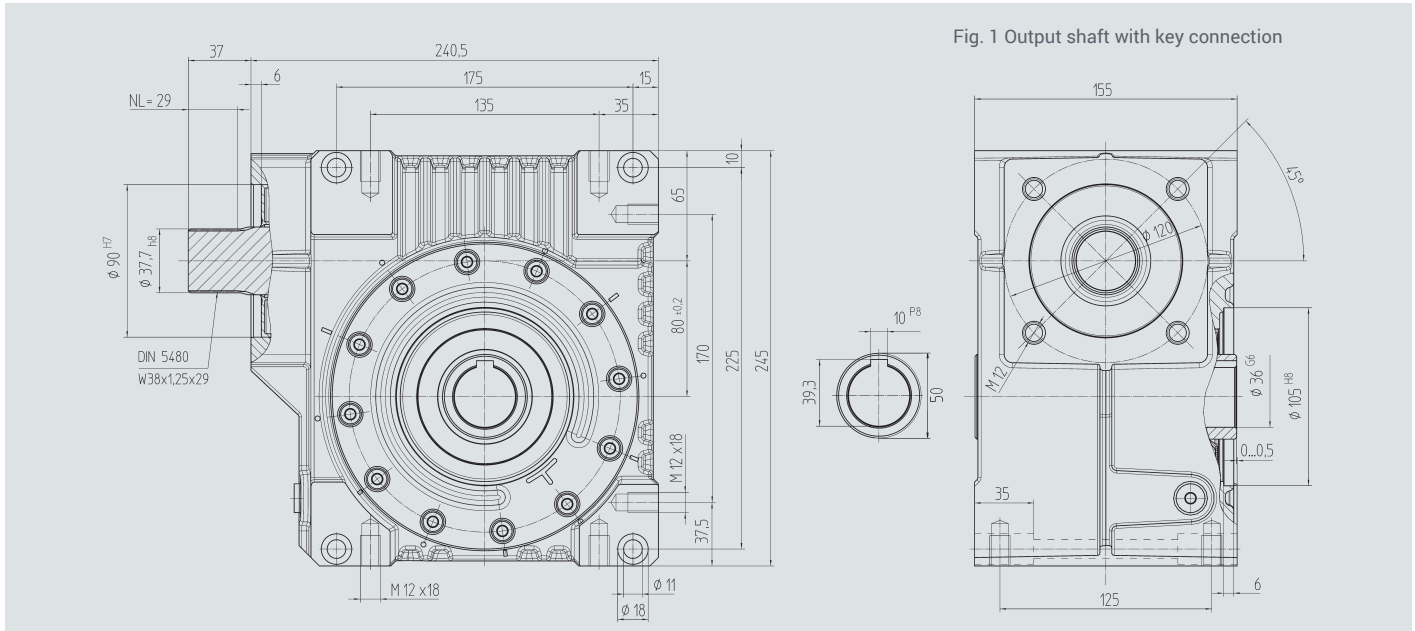


Center Distance $a_0 = 63 \text{ mm}$

Order Code	D ^{G7}	k ₁	r	x	y	f ₁	e	G	kg
65 59 301	95.0	62	169	12.5	37	100	115	M8	0.60
65 59 302	50.0	62	169	10.0	37	100	70; 95; 115	M4; M6; M8	0.70
65 59 303	80.0	62	169	10.0	37	100	100	M6	0.65
65 59 304	95.0	78	185	10.0	53	115	130	M8	0.80
65 59 306	60.0	74	181	21.0	49	100	75; 90; 115	M5; M5; M8	0.90
65 59 307	70.0	70	177	21.0	45	100	90; 115	M6; M8	0.80
65 59 401	95.0	73	180	8.0	48	100	115	M8	0.75
65 59 402	110.0	78	185	8.0	53	115	130	M8	0.80
65 59 403	95.0	73	180	12.0	48	115	130	M8	0.75
65 59 404	110.0	73	180	12.0	48	115	130	M8	0.70
65 59 405	95.0	78	185	11.0	53	140	165	M10	1.20
65 59 406	110.0	78	185	11.0	53	140	165	M10	1.15
65 59 407	130.0	78	185	11.0	53	140	165	M10	1.00
65 59 409	130.0	98	205	14.0	73	140	165	M10	1.10
65 59 410	110.0	74	181	8.0	49	120	145	M8	1.00
65 59 411	110.0	84	191	8.0	59	120	145	M8	1.20
65 59 412	114.3	105	212	8.0	80	180	200	M12	3.70
65 59 413	114.3	139	246	8.0	114	180	200	M12	3.35
65 59 414	114.3	91	198	8.0	66	180	200	M12	2.65
65 59 415	110.0	89	196	8.0	64	120	145	M8	1.30

An order should contain gearbox 58 04 0xx / 58 14 0xx and flange 65 59 3xx or 4xx.

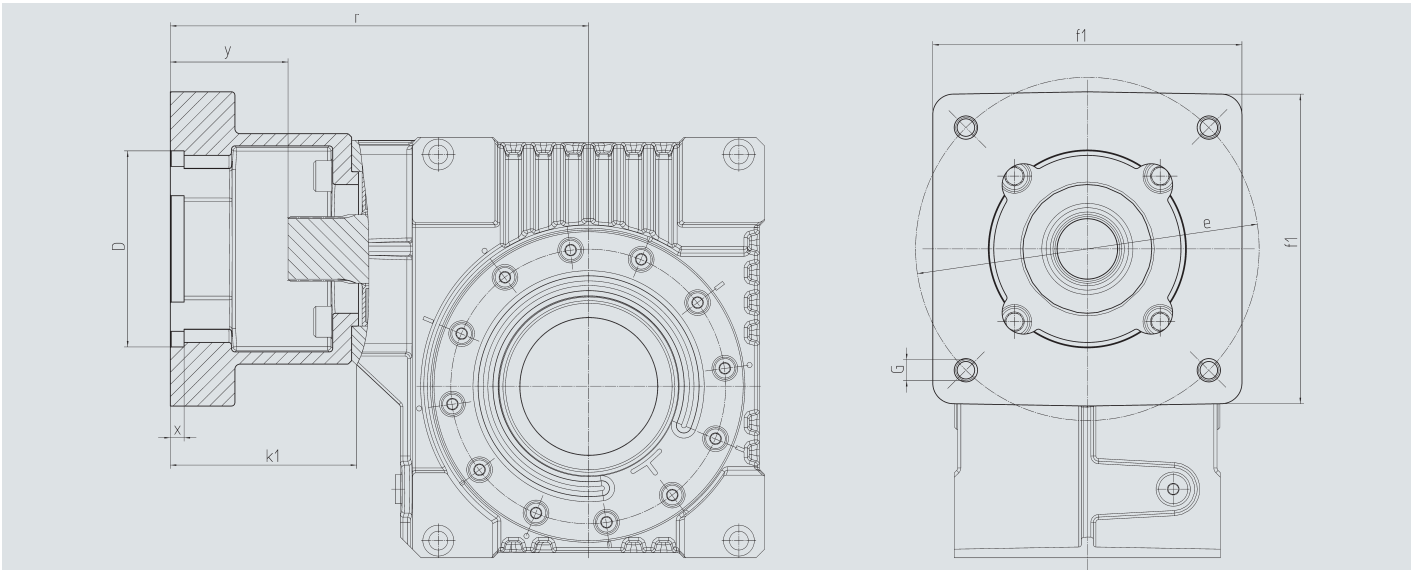
Center Distance $a_0 = 80 \text{ mm}$



Order Code Fig. 1	Fig. 2	Ratio i	J_{red} kg	$J_{\text{red}} 10^{-4} \text{ kg m}^2$
58 05 005	58 15 005	4.75	22.0	9.6180
58 05 007	58 15 007	6.75	22.0	6.0910
58 05 009	58 15 009	9.25	22.0	4.7650
58 05 015	58 15 015	14.50	22.0	5.3080
58 05 020	58 15 020	19.50	22.0	3.9350
58 05 029	58 15 029	29.00	22.0	4.0500
58 05 039	58 15 039	39.00	22.0	4.1800
58 05 052	58 15 052	52.00	22.0	3.7140

With food grade oil: Order Code 58 05 1xx / 58 15 1xx
 In ATEX with food grade oil: Order Code 58 05 2xx / 58 15 2xx

Motor Flange

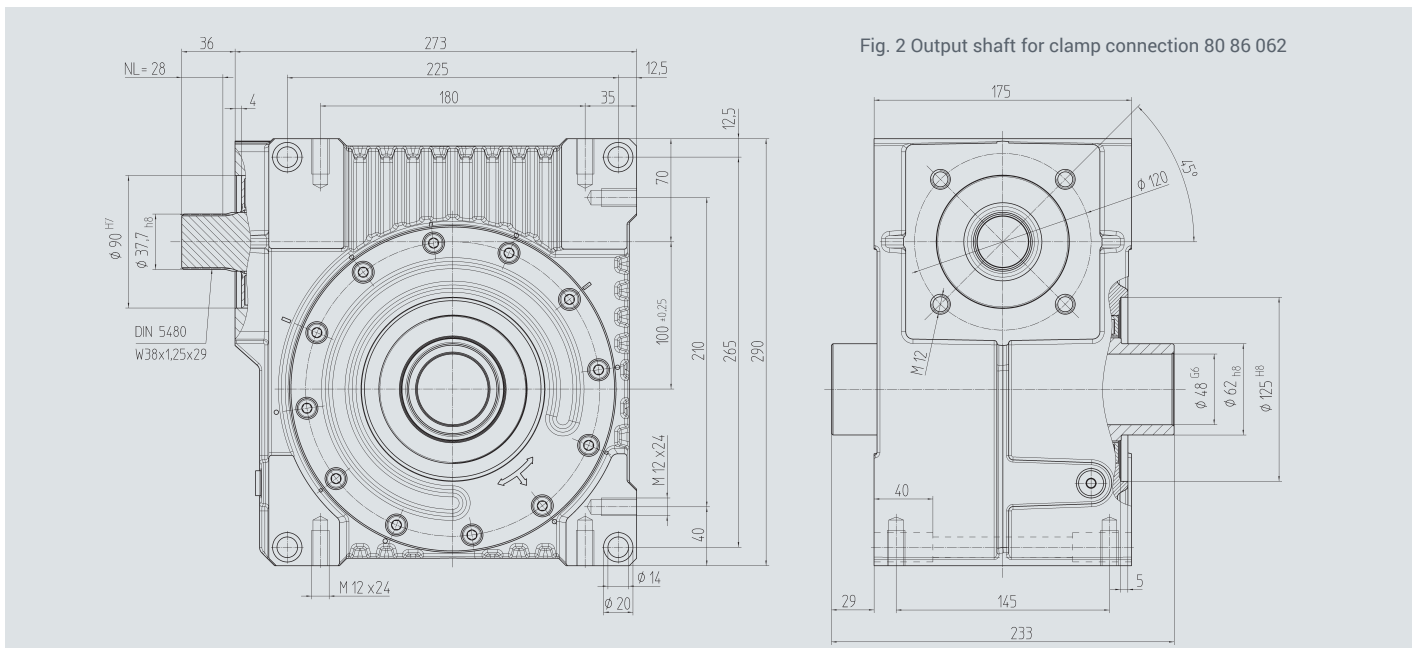
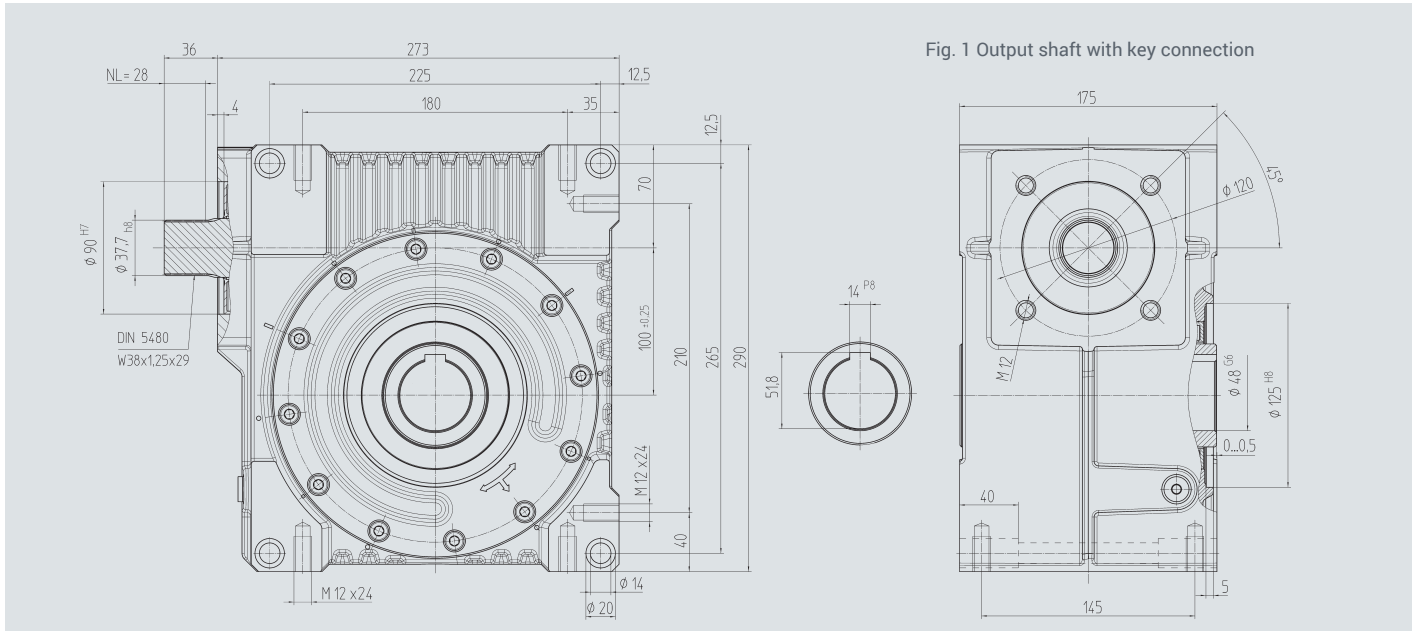


Center Distance $a_0 = 80$ mm

Order Code	D ⁶⁷	k ₁	r	x	y	f ₁	e	G	kg
65 59 501	110.0	92.0	230.0	8.0	55.0	140	165	M10	2.00
65 59 502	130.0	92.0	230.0	8.0	55.0	140	165	M10	1.90
65 59 503	180.0	122.0	260.0	8.0	85.0	192	215	M12	3.40
65 59 504	180.0	127.0	265.0	8.0	90.0	192	215	M12	3.80
65 59 505	180.0	112.0	250.0	10.0	75.0	192	215	M12	2.70
65 59 506	130.0	112.0	250.0	10.0	75.0	192	215	M12	3.00
65 59 507	130.0	112.0	250.0	10.0	75.0	140	165	M10	2.50
65 59 508	110.0	90.0	228.0	8.0	53.0	140	145	M8	2.00
65 59 509	110.0	108.5	246.5	8.0	71.5	140	145	M8	2.50
65 59 510	114.3	129.5	267.5	8.0	92.5	180	200	M12	5.00
65 59 511	114.3	163.5	301.5	8.0	126.5	180	200	M12	4.20
65 59 512	114.3	105.5	243.5	8.0	68.5	180	200	M12	3.50
65 59 513	110.0	113.5	251.5	8.0	76.5	140	145	M8	2.70

An order should contain gearbox 58 05 0xx / 58 15 0xx and flange 65 59 5xx

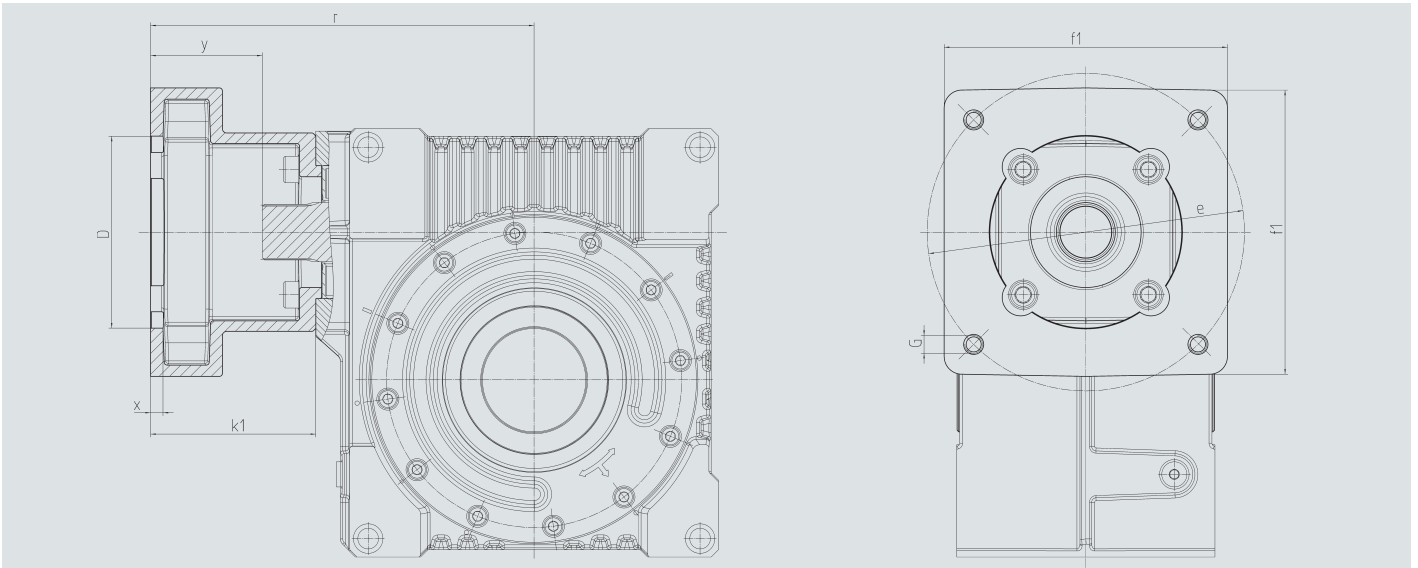
Center Distance $a_0 = 100$ mm



Order Code Fig. 1	Order Code Fig. 2	Ratio i	J_{red} kg	$J_{red} 10^{-4} \text{ kg m}^2$
58 06 005	58 16 005	4.75	37.0	22.9320
58 06 007	58 16 007	6.75	37.0	12.8835
58 06 009	58 16 009	9.25	37.0	8.0975
58 06 015	58 16 015	14.50	37.0	7.2190
58 06 020	58 16 020	19.50	37.0	5.4030
58 06 029	58 16 029	29.00	37.0	4.7207
58 06 039	58 16 039	39.00	37.0	8.4300
58 06 052	58 16 052	52.00	37.0	9.7400

With food grade oil: Order Code 58 06 1xx / 58 16 1xx
 In ATEX with food grade oil: Order Code 58 06 2xx / 58 16 2xx

Motor Flange

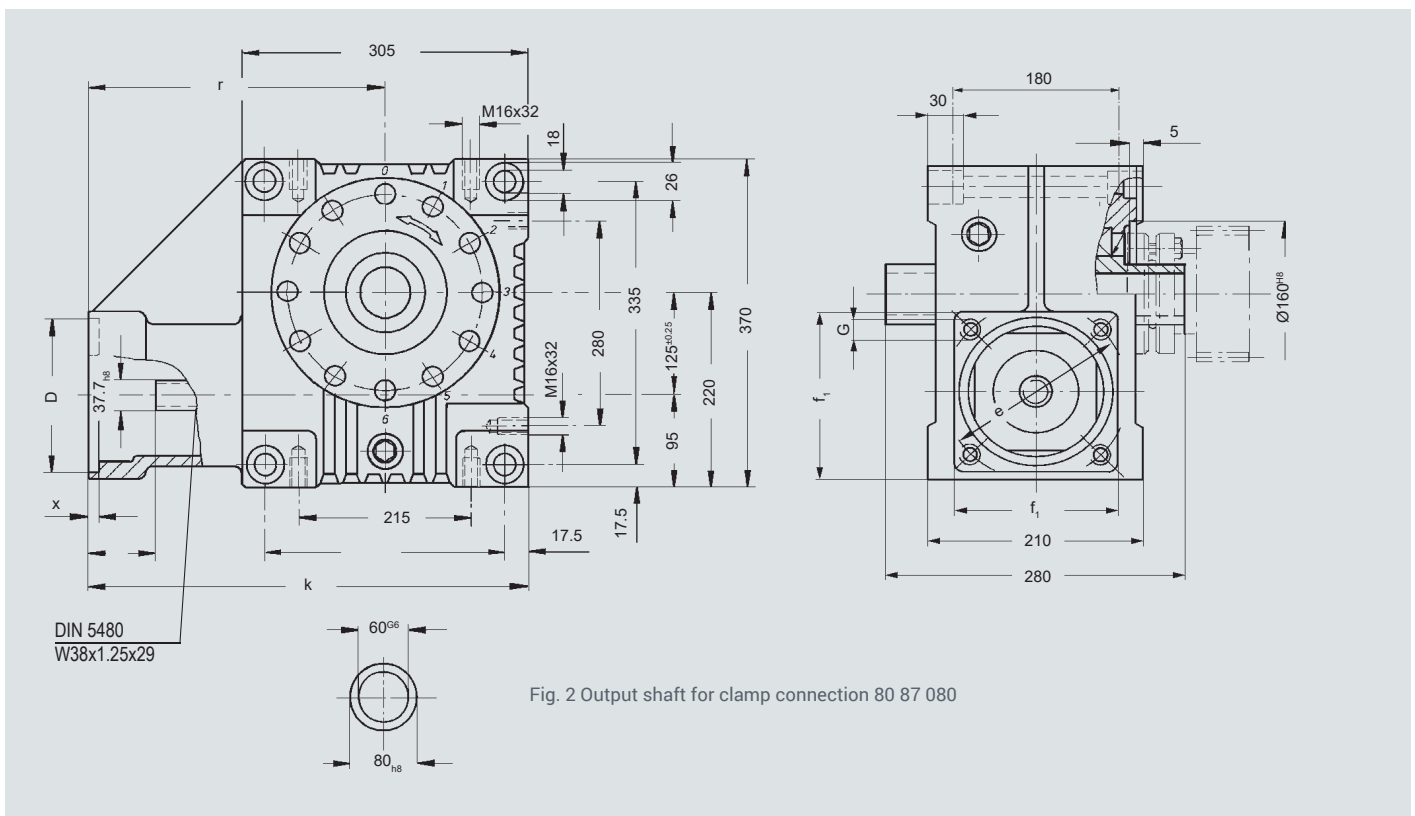
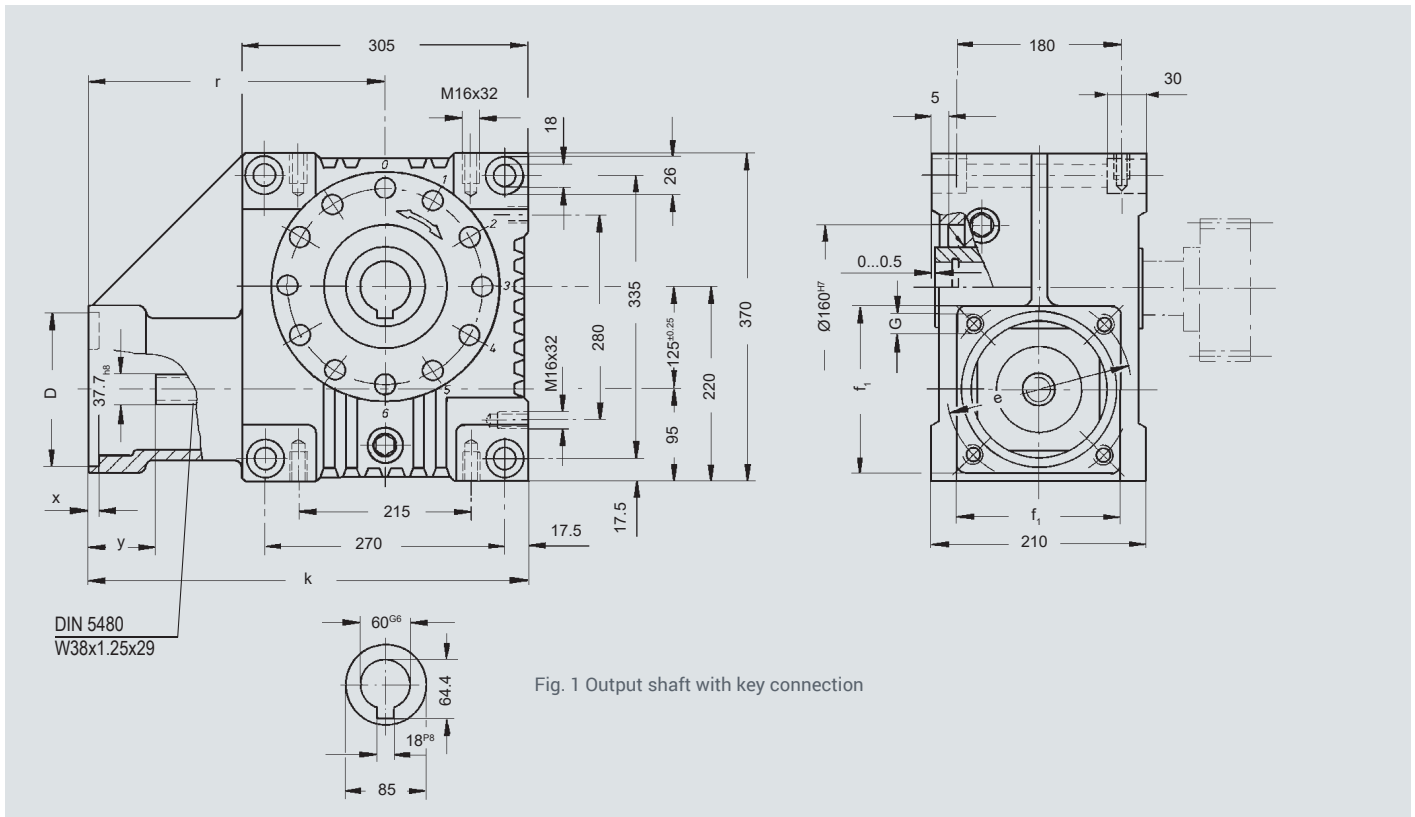


Center Distance $a_0 = 100$ mm


Order Code	D ^{G7}	k ₁	r	x	y	f ₁	e	G	kg
65 59 501	110.0	92.0	240.0	8.0	55.0	140	165	M10	2.00
65 59 502	130.0	92.0	240.0	8.0	55.0	140	165	M10	1.90
65 59 503	180.0	122.0	270.0	8.0	85.0	192	215	M12	3.40
65 59 504	180.0	127.0	275.0	8.0	90.0	192	215	M12	3.80
65 59 505	180.0	112.0	260.0	10.0	75.0	192	215	M12	2.70
65 59 506	130.0	112.0	260.0	10.0	75.0	192	215	M12	3.00
65 59 507	130.0	112.0	260.0	10.0	75.0	140	165	M10	2.50
65 59 508	110.0	90.0	238.0	8.0	53.0	140	145	M8	2.00
65 59 509	110.0	108.5	256.5	8.0	71.5	140	145	M8	2.50
65 59 510	114.3	129.5	277.5	8.0	92.5	180	200	M12	5.00
65 59 511	114.3	163.5	311.5	8.0	126.5	180	200	M12	4.20
65 59 512	114.3	105.5	253.5	8.0	68.5	180	200	M12	3.50
65 59 513	110.0	113.5	261.5	8.0	76.5	140	145	M8	2.70

An order should contain gearbox 58 06 0xx / 58 16 0xx and flange 65 59 5xx

Center Distance $a_0 = 125 \text{ mm}$



Center Distance $a_0 = 125$ mm

Order Code Fig.1	Fig. 2	Ratio i	D^{67}	k	r	x	y	f_1	e	G		$J_{rod} 10^{-4} \text{ kg m}^2$
58 47 007	58 87 007	6.75										35.9192
58 47 009	58 87 009	9.25										23.3256
58 47 015	58 87 015	14.50										25.5742
58 47 020	58 87 020	19.50	180	468	315.5	6	75	200	215	M12	68	16.4748
58 47 029	58 87 029	29.00										23.4384
58 47 039	58 87 039	39.00										15.3588
58 47 052	58 87 052	52.00										11.2943
58 47 107	58 87 107	6.75										35.9192
58 47 109	58 87 109	9.25										23.3256
58 47 115	58 87 115	14.50										25.5742
58 47 120	58 87 120	19.50	180	484	331.5	6	91	200	215	M12	68	16.4748
58 47 129	58 87 129	29.00										23.4384
58 47 139	58 87 139	39.00										15.3588
58 47 152	58 87 152	52.00										11.2943

Other center distances and ratios available on request

The values in the tables are based upon wear or maximum flank load at 12,000 hours full load and on servo-operation. Please see here for also our manual on our webpage www.atlantadrives.com. With continuous full-load operation it may be necessary to consider temperature limits! Please ask us if in doubt.

T_{2max} = static torque to avoid tooth fracture, T_1 = input torque in Nm, T_2 = output torque in Nm.

Order Code	a_0 (mm)	i	T_{2max}	Input Speed n_1 (rpm)												
				250		500		750		1000		1500		2000		
				T_1 (Nm)	T_2 (Nm)	T_1 (Nm)	T_2 (Nm)	T_1 (Nm)	T_2 (Nm)	T_1 (Nm)	T_2 (Nm)	T_1 (Nm)	T_2 (Nm)	T_1 (Nm)	T_2 (Nm)	
58 03 003 58 13 003	50	3.00*														
58 03 005 58 13 005		4.75	550	11.6	48	15.1	65	15.1	65	16.3	70	16.4	70	16.5	70	
58 03 007 58 13 007		6.75	400	7.2	42	9.4	56	9.9	59	10.5	63	11.4	69	11.4	69	
58 03 009 58 13 009		9.25	275	4.8	35	6.3	48	6.5	51	6.9	54	7.4	58	7.9	62	
58 03 015 58 13 015		14.50	350	3.7	42	4.8	57	5.0	60	5.3	65	5.8	70	5.9	72	
58 03 020 58 13 020		19.50	250	2.4	33	3.1	45	3.3	48	3.4	50	3.7	55	3.9	58	
58 03 029 58 13 029		29.00	300	1.9	36	2.4	48	2.6	52	2.7	55	2.9	60	3.1	63	
58 03 039 58 13 039		39.00	200	1.8	39	2.3	52	2.4	56	2.5	60	2.7	65	2.8	68	
58 03 050 58 13 050		50.00	150	1.5	31	1.9	42	1.9	44	2.0	47	2.1	50	2.2	53	
58 04 003 58 14 003		63	3.00*													
58 04 005 58 14 005	4.75		1000	37.6	163	38.9	170	41.2	180	41.3	180	39.2	170	37.4	162	
58 04 007 58 14 007	6.75		750	21.5	129	27.9	170	29.4	180	29.4	180	27.9	170	26.6	162	
58 04 009 58 14 009	9.25		500	10.8	85	14.2	115	15.3	125	15.9	130	16.4	135	16.4	135	
58 04 015 58 14 015	14.50		600	11.1	132	13.6	165	14.7	180	14.7	180	14.7	180	14.5	177	
58 04 020 58 14 020	19.50		500	5.6	87	7.2	115	7.7	125	8.0	130	8.3	135	9.0	145	
58 04 029 58 14 029	29.00		650	6.9	137	8.4	175	9.1	190	9.7	205	10.5	220	10.1	212	
58 04 039 58 14 039	39.00		450	4.2	106	5.2	140	5.5	150	5.8	160	6.4	175	6.6	180	
58 04 052 58 14 052	52.00		300	2.4	71	3.0	95	3.3	105	3.5	115	3.8	125	4.0	133	
58 05 003 58 15 003	80		3.00*													
58 05 005 58 15 005		4.75	2000	102.9	453	94.9	420	85.9	380	81.5	360	75.0	330	71.5	313	
58 05 007 58 15 007		6.75	1400	65.2	402	67.6	420	61.1	380	57.8	360	53.2	330	50.7	313	
58 05 009 58 15 009		9.25	1100	37.5	310	44.2	370	44.1	370	42.9	360	39.3	330	37.5	313	
58 05 015 58 15 015		14.50	1300	34.9	431	35.9	450	35.8	450	33.4	420	29.4	370	27.5	345	
58 05 020 58 15 020		19.50	1000	21.9	353	22.5	370	24.2	400	24.1	400	21.7	360	20.9	347	
58 05 029 58 15 029		29.00	1200	22.9	498	23.3	520	24.5	550	23.6	530	21.8	490	20.8	467	
58 05 039 58 15 039		39.00	850	15.0	412	15.1	430	16.0	460	17.0	490	16.7	480	15.9	457	
58 05 052 58 15 052		52.00	600	6.3	216	6.6	240	7.1	260	7.5	275	8.2	300	8.5	310	
58 06 005 58 16 005		100	4.75	3300	234.2	1043	197.3	880	179.6	800	169.1	750	154.3	685	147.1	650
58 06 007 58 16 007	6.75		2300	127.2	797	131.8	830	119.1	750	114.8	720	105.3	660	101.3	633	
58 06 009 58 16 009	9.25		1900	94.3	794	97.6	830	88.1	750	84.8	720	77.7	660	74.8	633	
58 06 015 58 16 015	14.50		2050	70.0	892	72.2	930	68.2	880	62.9	810	55.9	720	53.5	687	
58 06 020 58 16 020	19.50		1800	51.8	861	53.3	900	51.3	870	47.8	810	42.5	720	40.6	687	
58 06 029 58 16 029	29.00		2300	48.7	1103	49.9	1150	46.1	1070	43.7	1010	36.8	850	36.2	833	
58 06 039 58 16 039	39.00		1650	35.2	1034	35.8	1080	34.0	1030	33.0	1000	29.7	900	28.5	860	
58 06 052 58 16 052	52.00		1100	20.7	759	20.0	760	21.5	820	22.3	850	20.6	785	19.7	750	
58 47 _07 58 87 _07	125		4.75	6450	287.3	1815	260.3	1650	236.7	1500	221.1	1400	206.0	1300	198.7	1250
58 47 _09 58 87 _09			9.25	4400	179.3	1534	186.0	1600	168.4	1450	156.9	1350	139.8	1200	134.3	1150
58 47 _15 58 87 _15		14.50	5850	145.3	1874	138.7	1800	127.0	1650	134.8	1750	115.8	1500	111.1	1433	
58 47 _20 58 87 _20		19.50	3900	106.5	1825	101.1	1750	92.2	1600	86.3	1500	80.8	1400	77.1	1333	
58 47 _29 58 87 _29		29.00	5700	98.0	2290	93.0	2200	86.4	2050	82.2	1950	76.3	1800	73.0	1717	
58 47 _39 58 87 _39		39.00	3800	71.6	2190	67.5	2100	62.4	1950	59.2	1850	54.6	1700	52.7	1633	
58 47 _52 58 87 _52		52.00	2500	46.2	1801	45.0	1800	42.3	1700	39.8	1600	37.4	1500	35.8	1433	

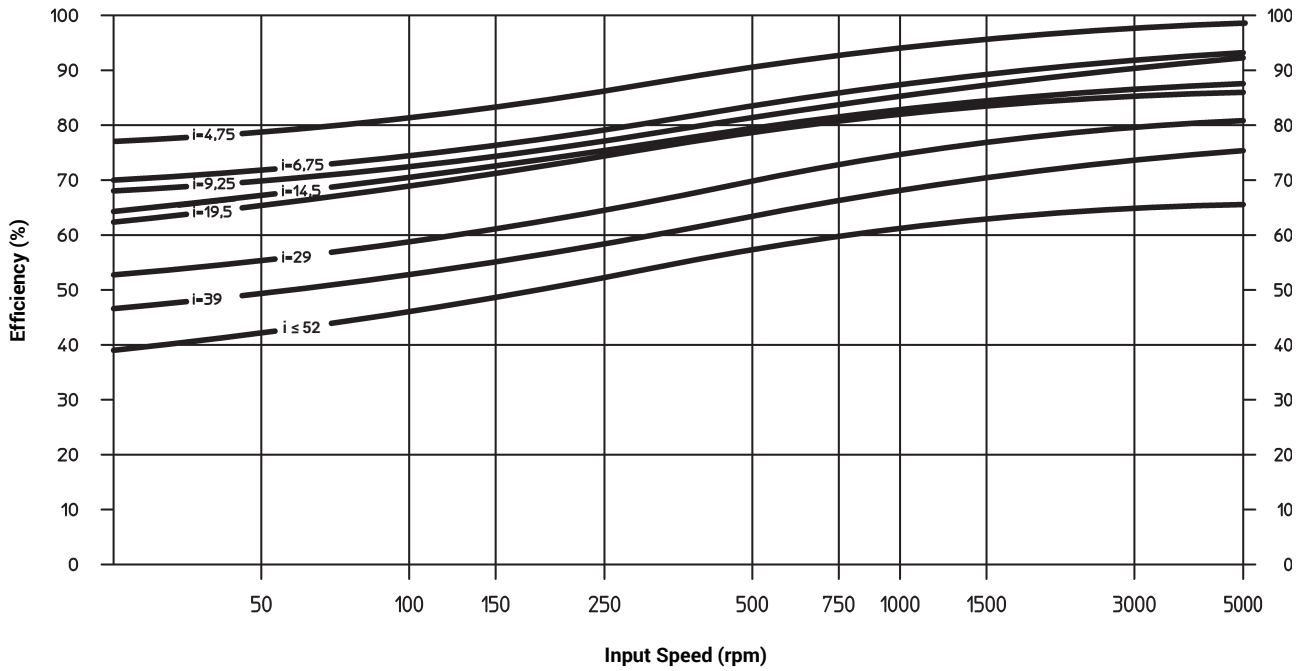
* on request



Selection & Ratings For HP High-Performance Servo-Worm Gearboxes

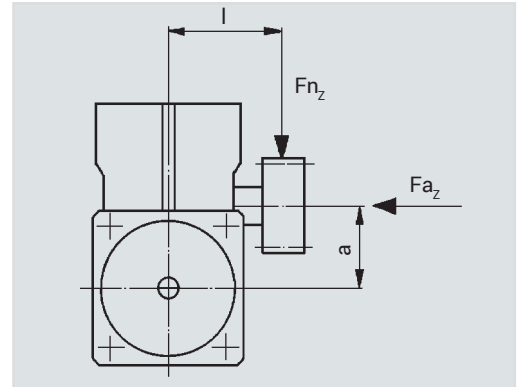
Input Speed n _i (rpm)															
2500		3000		3500		4000		4500		5000		5500		6000	
T ₁ (Nm)	T ₂ (Nm)	T ₁ (Nm)	T ₂ (Nm)	T ₁ (Nm)	T ₂ (Nm)	T ₁ (Nm)	T ₂ (Nm)	T ₁ (Nm)	T ₂ (Nm)	T ₁ (Nm)	T ₂ (Nm)	T ₁ (Nm)	T ₂ (Nm)	T ₁ (Nm)	T ₂ (Nm)
25.0	70	16.8	70	16.3	67	15.8	65	15.5	63	15.1	61	14.3	57	13.6	53
17.2	69	11.6	69	11.3	67	11.0	65	10.7	63	10.5	61	9.9	57	9.4	54
12.6	66	8.9	70	8.9	70	8.9	70	8.7	67	8.4	65	8.0	61	7.6	58
9.1	73	6.2	75	6.2	75	6.3	75	6.3	75	6.4	75	6.1	70	5.8	67
6.1	61	4.3	65	4.3	65	4.3	65	4.3	65	4.4	65	4.2	61	4.0	58
4.9	67	3.5	70	3.5	70	3.5	70	3.4	67	3.3	65	3.2	61	3.0	57
4.4	71	3.1	75	3.1	75	3.1	75	3.1	75	3.1	75	3.0	70	2.9	66
3.4	57	2.4	60	2.4	60	2.4	60	2.4	60	2.4	60	2.5	62	2.5	64
53.4	153	34.0	145	32.9	140	31.9	135	29.6	124	27.5	115				
38.1	153	24.1	145	23.4	140	22.7	135	21.1	125	19.8	116	18.6	109		
24.6	135	16.5	135	16.0	130	15.6	126	14.6	117	13.8	110	13.0	104	12.4	98
21.4	173	14.1	170	13.7	165	13.4	160	12.5	148	11.7	138	11.1	130		
14.4	155	10.3	165	9.9	160	9.7	155	9.1	144	8.6	136	8.2	128	7.8	121
14.6	203	9.4	195	9.3	190	9.1	185	8.5	171	8.0	159	7.6	149		
10.2	185	7.0	190	7.0	190	7.1	190	6.7	177	6.3	166	6.0	156	5.7	148
6.5	142	4.6	150	4.8	155	5.0	160	4.8	155	4.6	145	4.4	137	4.2	129
102.2	297	64.6	280	58.9	254	53.2	228								
72.4	297	45.7	280	42.0	256	38.2	232	35.3	213	32.9	198				
53.5	297	33.8	280	31.2	257	28.5	234	26.6	217	24.8	202	23.3	189		
38.5	320	23.8	295	21.9	270	20.0	245	18.5	226	17.3	210				
30.3	333	19.5	320	18.0	295	16.6	269	15.4	250	14.5	233	13.6	218		
29.9	443	19.0	420	17.5	384	16.0	348	14.9	322						
22.8	433	14.5	410	13.4	377	12.4	345	11.5	319	10.8	297	10.2	278		
13.2	320	9.1	330	9.1	330	9.2	330	8.6	308	8.2	288	7.8	271		
209.5	615	132.3	580												
146.1	607	93.5	580	84.3	521	69.2	426								
107.9	607	69.0	580	62.9	526	52.2	436	53.2	442	49.6	410				
76.6	653	48.6	620	44.0	559	40.2	509								
58.2	653	37.0	620	33.7	564	31.1	516	28.8	477	26.8	442				
53.6	817	35.2	800	31.9	721										
41.0	820	26.1	780	23.9	708	19.9	587	20.4	597						
28.2	715	18.0	680	16.5	621	15.3	570	14.3	528	12.6	461				
191.2	1200	183.8	1150												
128.8	1100	123.4	1050	112.5	955	101.3	856								
106.3	1367	101.4	1300												
73.5	1267	69.8	1200	63.1	1081	57.6	985								
69.9	1633	66.6	1550												
50.8	1567	48.9	1500	44.2	1349										
34.2	1367	32.7	1300	29.9	1182	27.4	1081								

Gearing efficiency of servo worm gearboxes with driving worm and under full load.



Additional Loads On Gearbox Output

The data given are reference values. You should consider the values arising from the choice of the tooth system. It is assumed that the point of action of the force is the center of the shaft. In cases where additional axial forces occur, over and above high transverse forces, please ask for advice.



Center Distance	a (mm)	50		63		80		100		125	
Dimension from center of housing to center of teeth											
l (mm)		90	140	110	160	125	175	140	190	175	220
Max. Additional Load:											
Radial F_{n_z}	[N]	3600	2300	5000	3500	8400	6000	10000	7500	21000	16000
Axial F_{a_z}	[N]	1800	1800	2500	2500	4000	4000	5000	5000	10000	10000
Only Axial Load ($F_n=0$)	F_{a_z} [N]	3000		5000		12000		15000		25000	