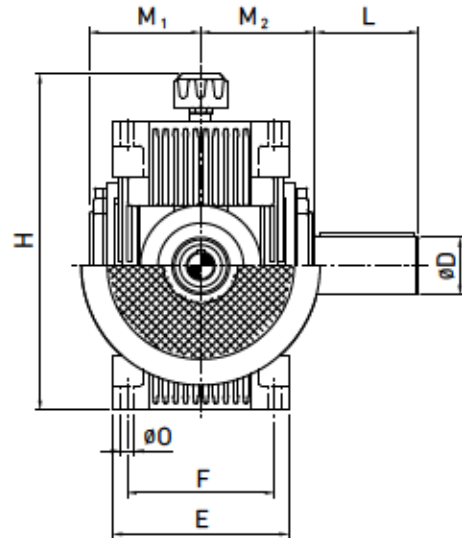
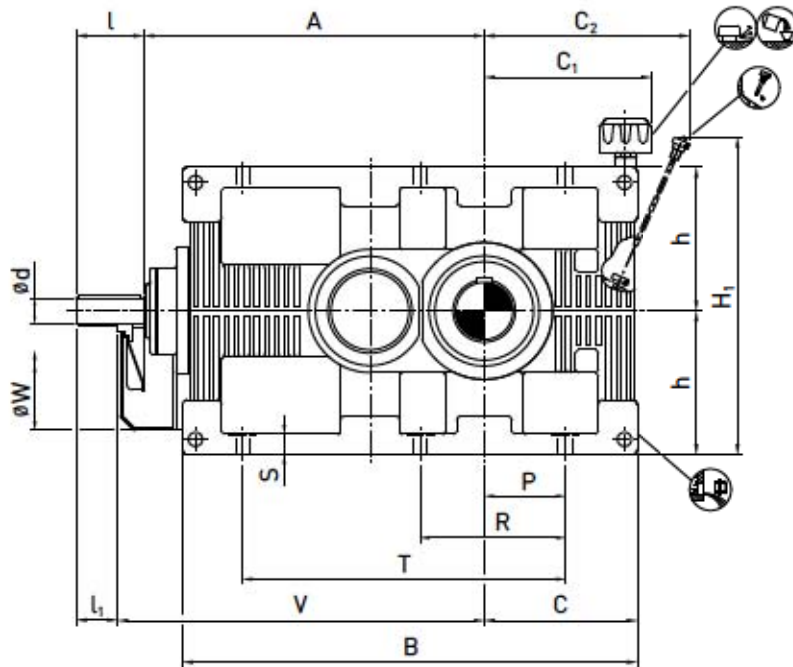


Type - B2H

Double Stage
Size 11 to 18

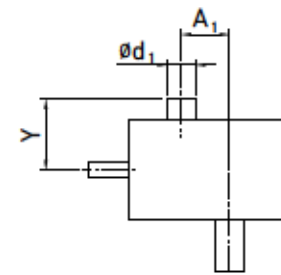
Horizontal Mounting

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft												Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [kg]
	i = 5-12.5			i = 14-18																	
	i = 5.6-14			i = 16-20																	
	i = 6.3-16			i = 18-22.4																	
d	l	l ₁	d	l	l ₁	V	W	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾							
B2..11	19	90	40	19	90	40	325	210	32	55	94	105	80	95	180	40	1.5				
B2..13	24	100	50	24	100	50	365	270	45	95	106	115	100	105	190	75	2.5				
B2..15	32	110	60	28	100	50	460	300	55	95	127	135	125	140	255	135	4				
B2..17	42	130	80	38	110	60	565	360	70	135	141	150	160	175	255	250	7				
B2..18	48	130	80	42	130	80	635	360	80	160	158	170	180	190	305	330	9				



Size	Foundation														
	A	B	C	C ₁ ²⁾	C ₂ ²⁾	E	F	h	H ₁ ¹⁾	H ₂ ²⁾	O	P	R	S	T
B2..11	275	356	140	176	171	180	150	100	248	260	14	50	95	24	215
B2..13	340	435	155	192	195	190	150	125	295	330	14	65	120	24	270
B2..15	415	520	182	218	231	228	170	160	352	400	14	95	170	24	355
B2..17	520	640	220	248	282	250	210	200	432	480	18	115	210	32	440
B2..18	585	716	246	273	311	284	230	225	475	530	18	135	240	32	505

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

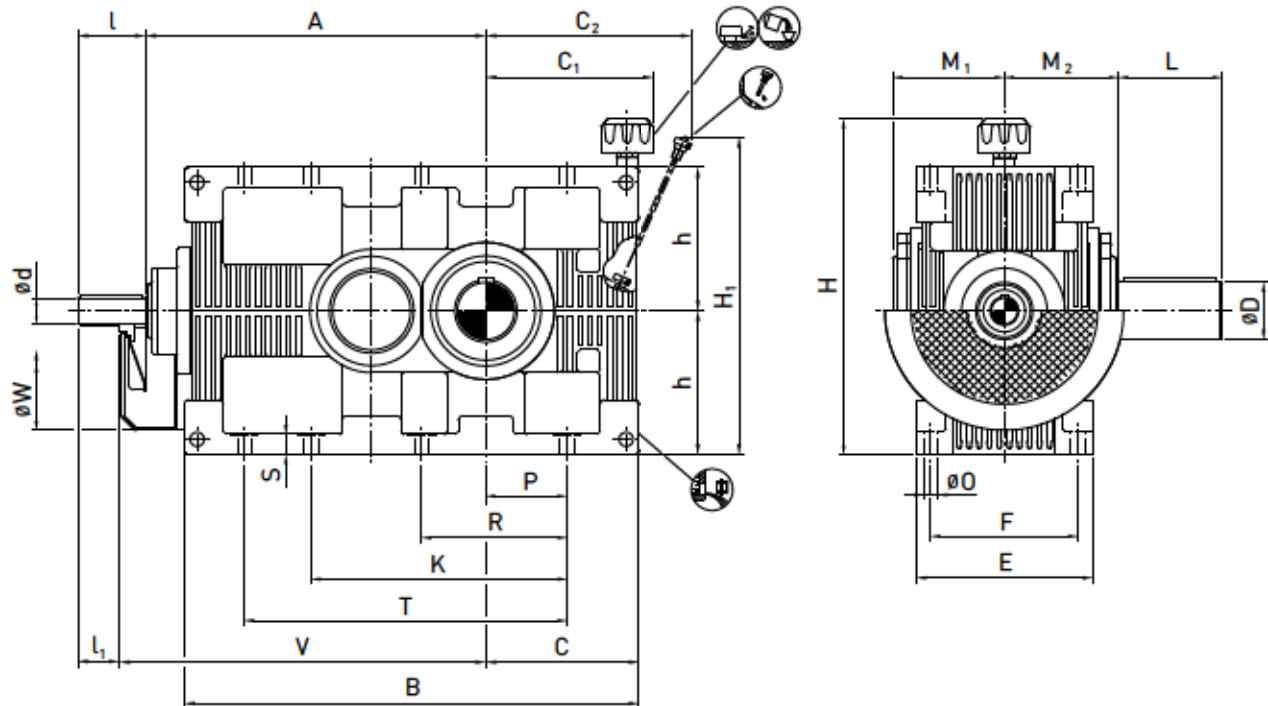
2) Approximate values; exact values acc. to order related documents

Bevel Helical Gear Unit

Horizontal Mounting

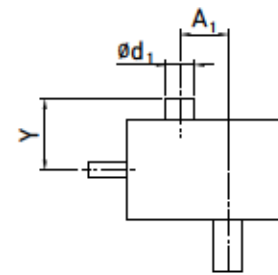
Type - B2H

Double Stage
Size 20 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft								Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [liters]
	i = 5-12.5			i = 14-18		i = 16-20											
	i = 5.6-14			i = 16-20		i = 18-22.4											
	d	l	l ₁	d	l	l ₁	V	W	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾		
B2..20	58	135	85	52	135	85	780	460	100	200	176	200	225	210	305	595	18
B2..21	65	155	105	65	155	105	860	530	110	200	210	220	250	245	390	795	25
B2..22	70	155	105	70	155	105	950	550	120	210	220	230	280	290	390	1080	36
B2..23	85	180	130	80	180	130	1050	550	140	250	234	260	315	290	390	1455	51
B2..24	90	180	130	90	180	130	1170	650	160	290	283	295	355	310	470	1960	69
B2..25	100	220	170	100	220	170	1300	700	170	300	293	305	400	310	470	2650	95
B2..26	110	220	170	110	220	170	1450	700	190	350	306	345	450	400	470	3570	130



Size	Foundation															
	A	B	C	C ₁ ²⁾	C ₂ ²⁾	E	F	h	H ₁ ¹⁾	H ₂ ²⁾	K	O	P	R	S	T
B2..20	720	893	303	319	387	314	270	280	588	640		23	165	290	36	635
B2..21	790	995	335	374	435	385	310	315	664	720		27	180	315	45	705
B2..22	875	1095	370	405	474	400	340	355	741	800		27	200	355	45	785
B2..23	975	1250	425	442	537	450	380	400	831	890		33	220	405	55	875
B2..24	1085	1365	465	482	598	515	410	450	908	990		33	245	450	55	975
B2..25	1215	1505	510	528	670	535	460	500	1013	1090		33	280	510	55	1105
B2..26	1365	1710	580	593	753	600	510	560	1137	1210	940	39	315	575	65	1245

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

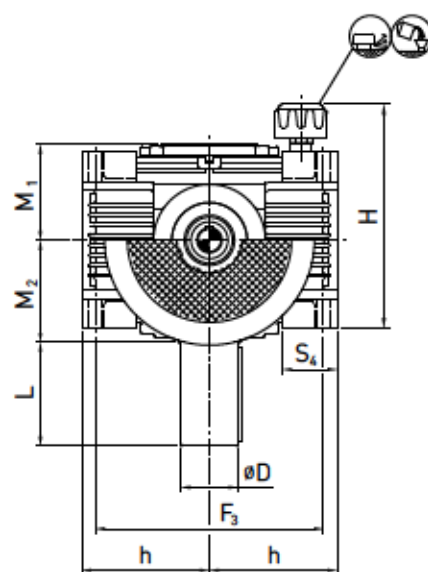
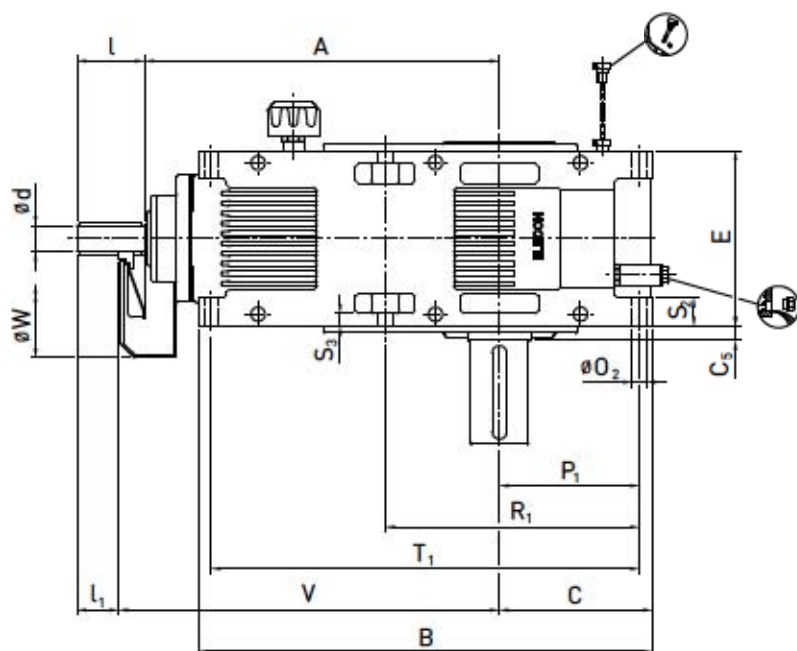
2) Approximate values; exact values acc. to order related documents

Type - B2V

Double Stage
Size 11 to 18

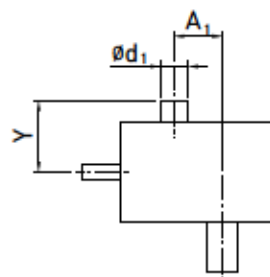
Vertical Mounting

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft								Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [l, litres]
	i = 5-12.5			i = 14-18													
	i = 5.6-14			i = 16-20													
	i = 6.3-16			i = 18-22.4													
d	l	l ₁	d	l	l ₁	V	W	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
B2..11	19	90	40	19	90	40	325	210	32	55	94	105	80	95	180	40	-
B2..13	24	100	50	24	100	50	365	270	45	95	106	115	100	105	190	75	-
B2..15	32	110	60	28	100	50	460	300	55	95	127	135	125	140	255	135	-
B2..17	42	130	80	38	110	60	565	360	70	135	141	150	160	175	255	250	-
B2..18	48	130	80	42	130	80	635	360	80	160	158	170	180	190	305	330	-



	Foundation														
Size	A	B	C	C ₅	E	F ₃	h	H ²⁾	O ₂	P ₁	R ₁	S ₂	S ₃	S ₄	T ₁
B2..11	275	356	140	22.5	180	160	100	225	14	124			14	66	324
B2..13	340	435	155	20	190	210	125	270	14	140			15	66	406
B2..15	415	520	182	21	228	270	160	308	14	165	290	45	15	70	486
B2..17	520	640	220	25	250	350	200	330	18	202	362	40	20	90	604
B2..18	585	716	246	28	284	400	225	364	18	224	404	45	20	90	672

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

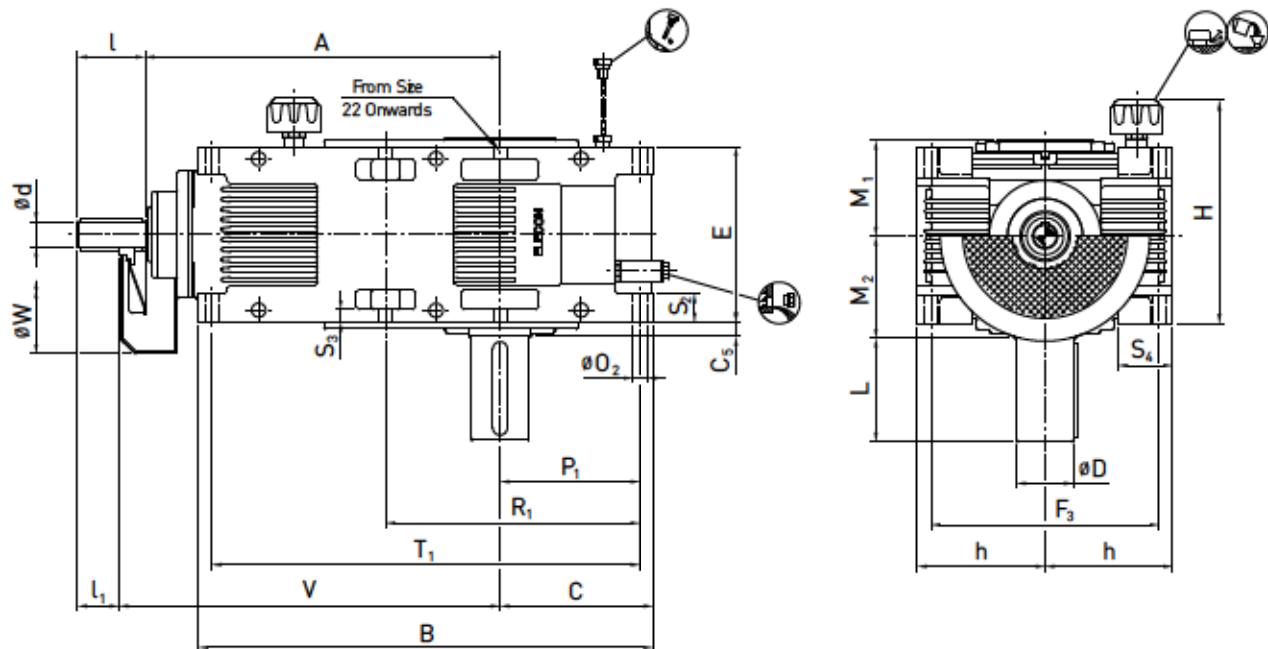
2) Approximate values; exact values acc. to order related documents

Bevel Helical Gear Unit

Vertical Mounting

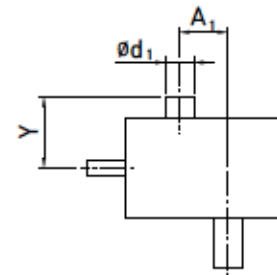
Type - B2V

Double Stage
Size 20 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft												Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [litres]
	i = 5-12.5			i = 14-18																	
	i = 5.6-14			i = 16-20																	
	i = 6.3-16			i = 18-22.4																	
d	l	l ₁	d	l	l ₁	V	W	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾							
B2..20	58	135	85	52	135	85	780	460	100	200	176	200	225	210	305	595	-				
B2..21	65	155	105	65	155	105	860	530	110	200	210	220	250	245	390	795	-				
B2..22	70	155	105	70	155	105	950	550	120	210	220	230	280	290	390	1080	-				
B2..23	85	180	130	80	180	130	1050	550	140	250	234	260	315	290	390	1455	-				
B2..24	90	180	130	90	180	130	1170	650	160	290	283	295	355	310	470	1960	-				
B2..25	100	220	170	100	220	170	1300	700	170	300	293	305	400	310	470	2650	-				
B2..26	110	220	170	110	220	170	1450	700	190	350	306	345	450	400	470	3570	-				



Size	Foundation														
	A	B	C	C ₅	E	F ₃	h	H ³	O ₂	P ₁	R ₁	S ₂	S ₃	S ₄	T ₁
B2..20	720	893	303	43	314	500	280	394	23	276	501	45	24	105	839
B2..21	790	995	335	27.5	385	570	315	475	27	305	555	65	28	120	935
B2..22	875	1095	370	30	400	640	355	490	27	339	619	60	28	120	1033
B2..23	975	1250	425	35	450	720	400	540	33	386	701	70	35	150	1173
B2..24	1085	1365	465	37.5	515	800	450	605	33	426	781	87.5	35	150	1287
B2..25	1215	1505	510	37.5	535	900	500	625	33	474	874	80	35	150	1432
B2..26	1365	1710	580	45	600	1010	560	700	39	532	982	100	45	175	1614

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

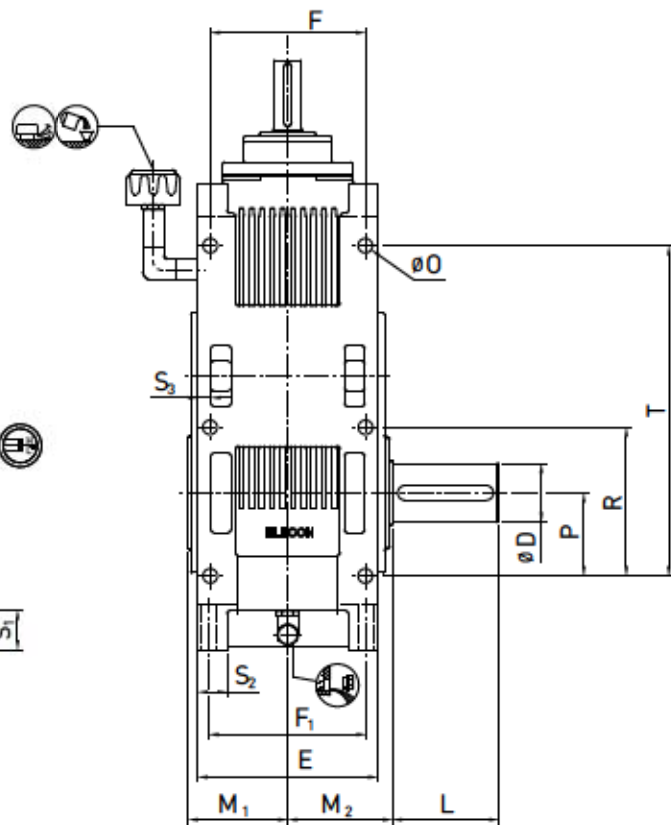
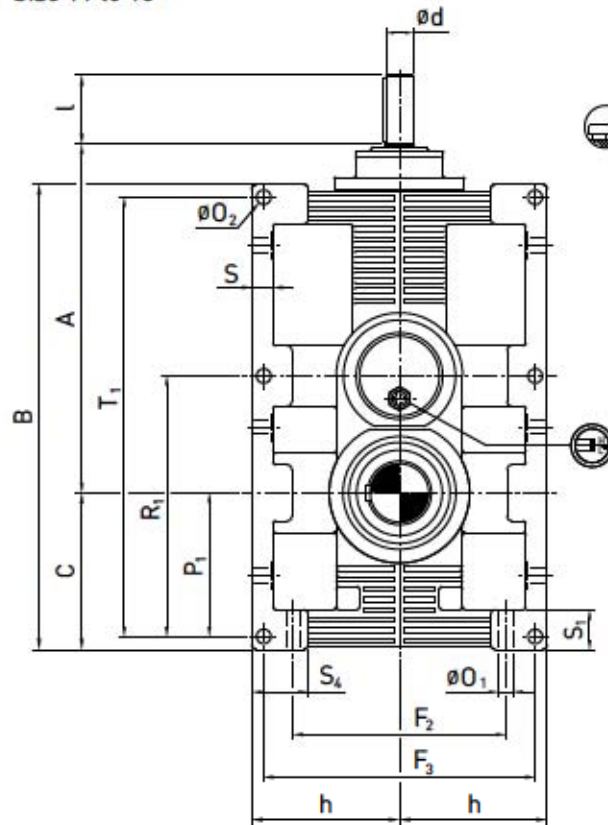
2) Approximate values; exact values acc. to order related documents

Type - B20

Double Stage
Size 11 to 18

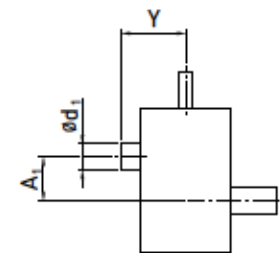
Over Driven

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [Litres]
	i = 5-12.5		i = 14-18										
	i = 5.6-14		i = 16-20										
	i = 6.3-16		i = 18-22.4										
d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
B2..11	19	90	19	90	32	55	94	105	80	95	180	40	-
B2..13	24	100	24	100	45	95	106	115	100	105	190	75	-
B2..15	32	110	28	100	55	95	127	135	125	140	255	135	-
B2..17	42	130	38	110	70	135	141	150	160	175	255	250	-
B2..18	48	130	42	130	80	160	158	170	180	190	305	330	-



Size	Foundation																						
	A	B	C	E	F	F ₁	F ₂	F ₃	h	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
B2..11	275	356	140	180	150	105	100	160	100	14	14	14	50	124	95		24	50		14	66	215	324
B2..13	340	435	155	190	150	130	150	210	125	14	14	14	65	140	120		24	50		15	66	270	406
B2..15	415	520	182	228	170	170	210	270	160	14	14	14	95	165	170	290	24	52	45	15	70	355	486
B2..17	520	640	220	250	210	210	260	350	200	18	18	18	115	202	210	362	32	60	40	20	90	440	604
B2..18	585	716	246	284	230	230	310	400	225	18	18	18	135	224	240	404	32	66	45	20	90	505	672

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

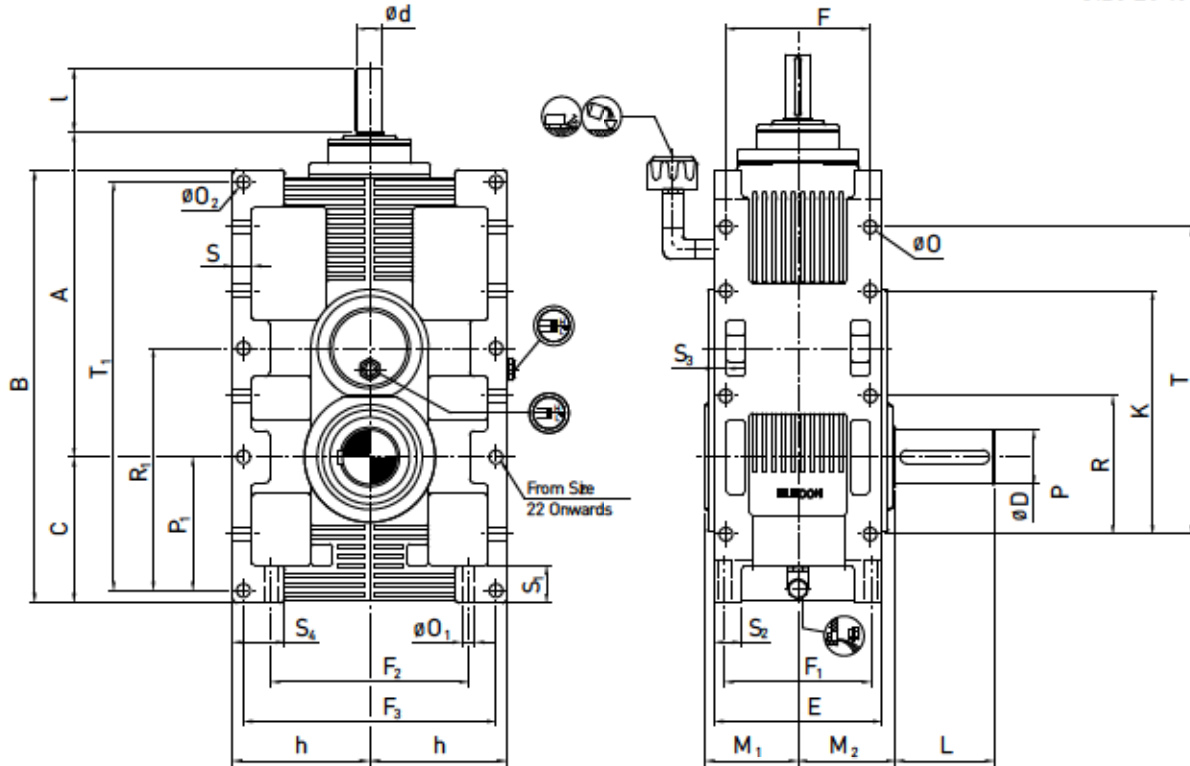
2) Approximate values; exact values acc. to order related documents

Bevel Helical Gear Unit

Over Driven

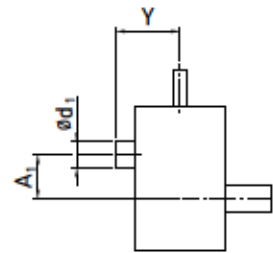
Type - B20

Double Stage
Size 20 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [Litres]
	i = 5-12.5		i = 14-18										
	i = 5.6-14		i = 16-20										
	i = 6.3-16		i = 18-22.4										
d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ²⁾			
B2..20	58	135	52	135	100	200	176	200	225	210	305	595	-
B2..21	65	155	65	155	110	200	210	220	250	245	390	795	-
B2..22	70	155	70	155	120	210	220	230	280	290	390	1080	-
B2..23	85	180	80	180	140	250	234	260	315	290	390	1455	-
B2..24	90	180	90	180	160	290	283	295	355	310	470	1960	-
B2..25	100	220	100	220	170	300	293	305	400	310	470	2650	-
B2..26	110	220	110	220	190	350	306	345	450	400	470	3570	-



Size	Foundation																							
	A	B	C	E	F	F ₁	F ₂	F ₃	h	K	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
B2..20	720	893	303	314	270	270	400	500	280		23	23	23	165	276	290	501	36	78	45	24	105	635	839
B2..21	790	995	335	385	310	310	440	570	315		27	27	27	180	305	315	555	45	85	65	28	120	705	935
B2..22	875	1095	370	400	340	340	520	640	355		27	27	27	200	339	355	619	45	90	60	28	120	785	1033
B2..23	975	1250	425	450	380	380	570	720	400		33	33	33	220	386	405	701	55	110	70	35	150	875	1173
B2..24	1085	1365	465	515	410	410	670	800	450		33	33	33	245	426	450	781	55	110	87.5	35	150	975	1287
B2..25	1215	1505	510	535	460	460	770	900	500		33	33	33	280	474	510	874	55	110	80	35	150	1105	1432
B2..26	1365	1710	580	600	510	510	850	1010	560	940	39	39	39	315	532	575	982	65	130	100	45	175	1245	1614

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

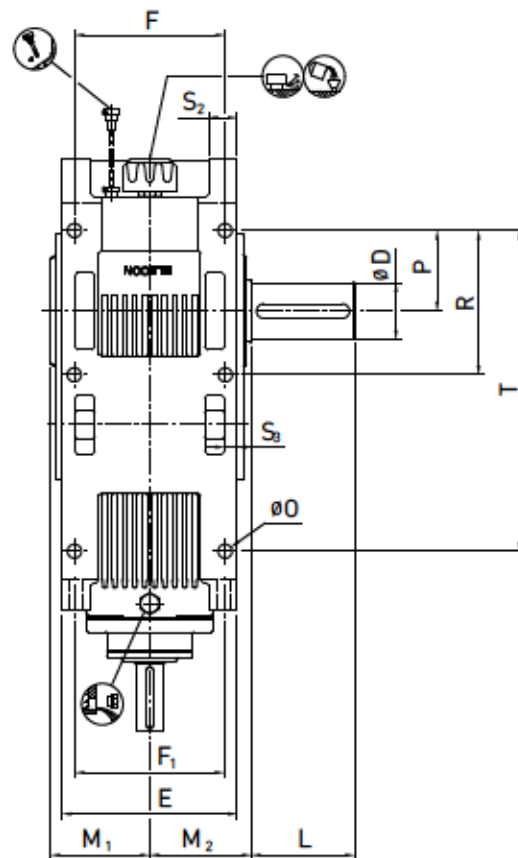
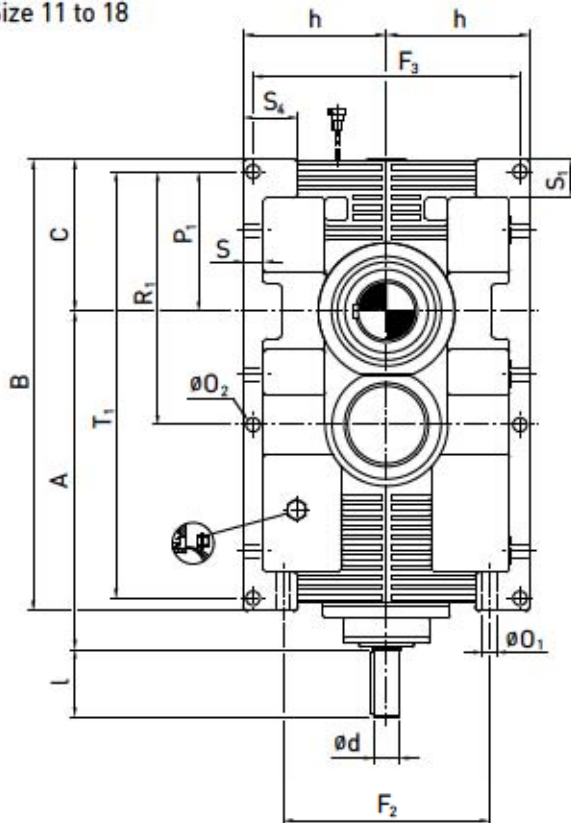
2) Approximate values; exact values acc. to order related documents

Type - B2U

Double Stage
Size 11 to 18

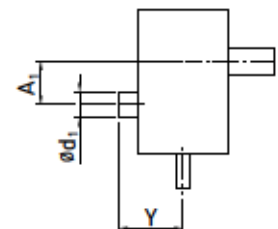
Under Driven

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop				Average Weight [kg]	Oil Quantity [Liters]
	i = 5-12.5		i = 14-18											
	i = 5.6-14		i = 16-20											
	i = 6.3-16		i = 18-22.4											
d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾				
B2..11	19	90	19	90	32	55	94	105	80	95	180	40	-	
B2..13	24	100	24	100	45	95	106	115	100	105	190	75	-	
B2..15	32	110	28	100	55	95	127	135	125	140	255	135	-	
B2..17	42	130	38	110	70	135	141	150	160	175	255	250	-	
B2..18	48	130	42	130	80	160	158	170	180	190	305	330	-	



Size	Foundation																						
	A	B	C	E	F	F ₁	F ₂	F ₃	h	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
B2..11	275	356	140	180	150	105	100	160	100	14	14	14	50	124	95		24	50		14	66	215	324
B2..13	340	435	155	190	150	130	150	210	125	14	14	14	65	140	120		24	50		15	66	270	406
B2..15	415	520	182	228	170	170	210	270	160	14	14	14	95	165	170	290	24	52	45	15	70	355	486
B2..17	520	640	220	250	210	210	260	350	200	18	18	18	115	202	210	362	32	60	40	20	90	440	604
B2..18	585	716	246	284	230	230	310	400	225	18	18	18	135	224	240	404	32	66	45	20	90	505	672

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

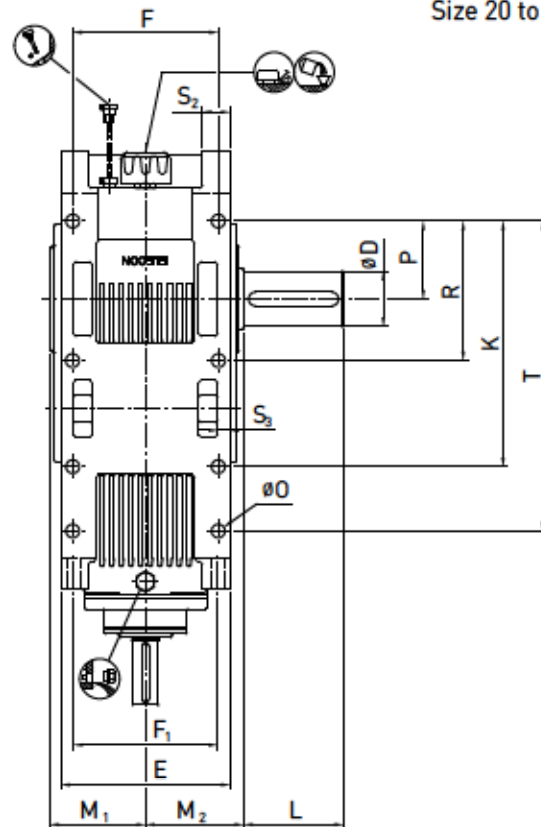
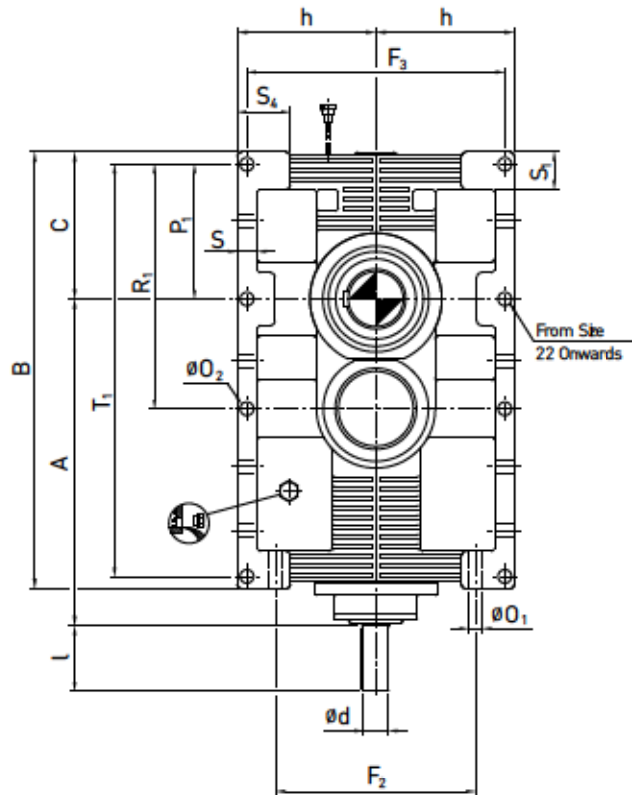
2) Approximate values; exact values acc. to order related documents

Bevel Helical Gear Unit

Under Driven

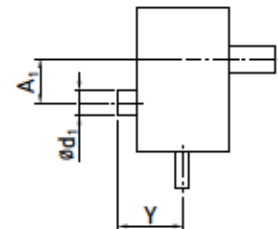
Type - B2U

Double Stage
Size 20 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [litres]
	i = 5-12.5		i = 14-18										
	i = 5.6-14		i = 16-20		D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾		
	i = 6.3-16		i = 18-22.4										
B2..20	58	135	52	135	100	200	176	200	225	210	305	595	-
B2..21	65	155	65	155	110	200	210	220	250	245	390	795	-
B2..22	70	155	70	155	120	210	220	230	280	290	390	1080	-
B2..23	85	180	80	180	140	250	234	260	315	290	390	1455	-
B2..24	90	180	90	180	160	290	283	295	355	310	470	1960	-
B2..25	100	220	100	220	170	300	293	305	400	310	470	2650	-
B2..26	110	220	110	220	190	350	306	345	450	400	470	3570	-



Size	Foundation																							
	A	B	C	E	F	F ₁	F ₂	F ₃	h	K	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
B2..20	720	893	303	314	270	270	400	500	280		23	23	23	165	276	290	501	36	78	45	24	105	635	839
B2..21	790	995	335	385	310	310	440	570	315		27	27	27	180	305	315	555	45	85	65	28	120	705	935
B2..22	875	1095	370	400	340	340	520	640	355		27	27	27	200	339	355	619	45	90	60	28	120	785	1033
B2..23	975	1250	425	450	380	380	570	720	400		33	33	33	220	386	405	701	55	110	70	35	150	875	1173
B2..24	1085	1365	465	515	410	410	670	800	450		33	33	33	245	426	450	781	55	110	87.5	35	150	975	1287
B2..25	1215	1505	510	535	460	460	770	900	500		33	33	33	280	474	510	874	55	110	80	35	150	1105	1432
B2..26	1365	1710	580	600	510	510	850	1010	560	940	39	39	39	315	532	575	982	65	130	100	45	175	1245	1614

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

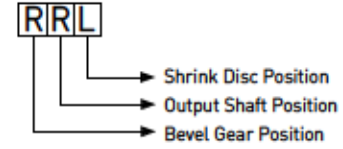
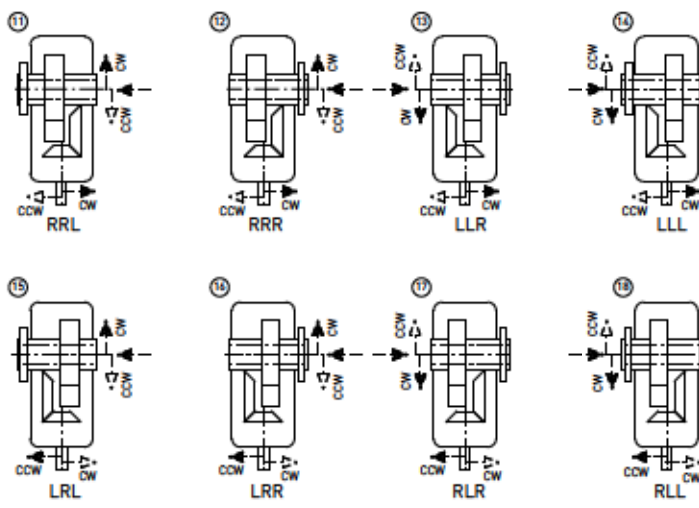
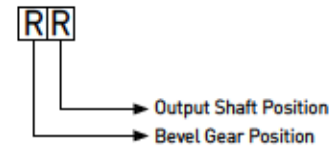
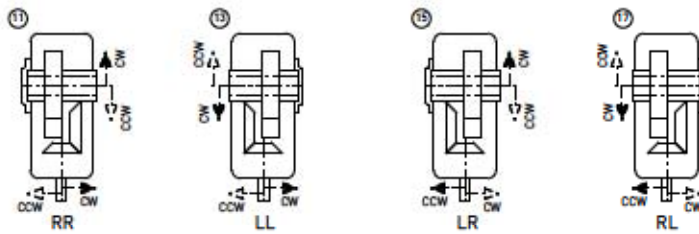
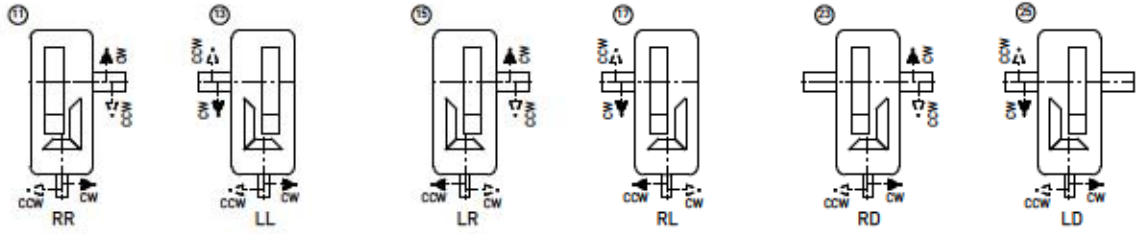
1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

Type - B2 Double Stage

Shaft Arrangement

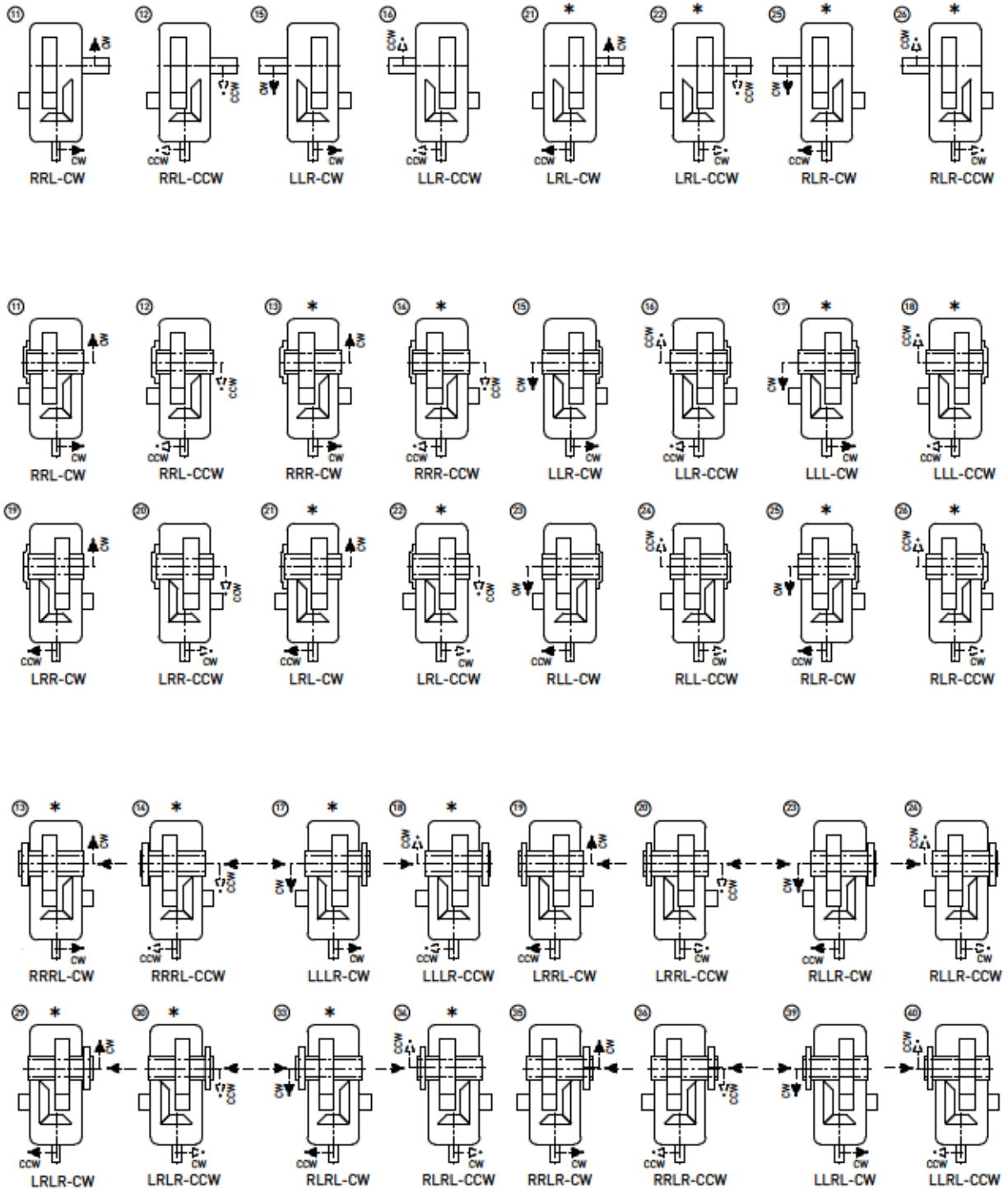
Bevel Helical Gear Unit



Bevel Helical Gear Unit

Shaft Arrangement - Hold Back

Type - B2 Double Stage



RRRL

- Hold Back Position
- Output Shaft Position
- Bevel Gear Position

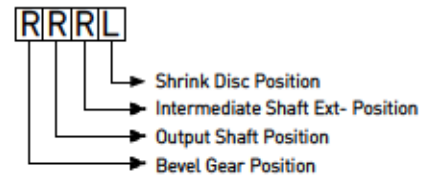
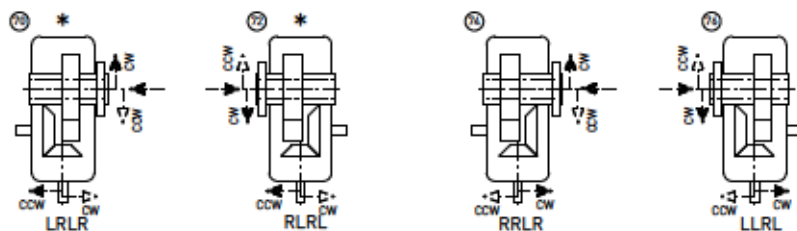
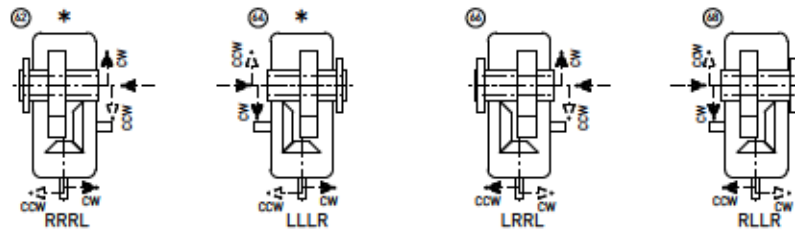
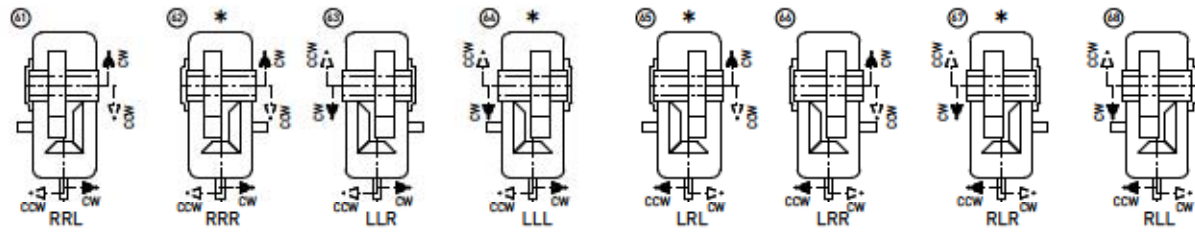
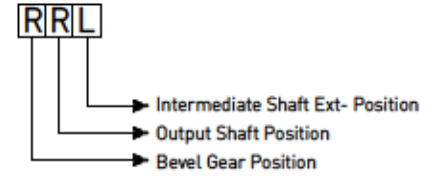
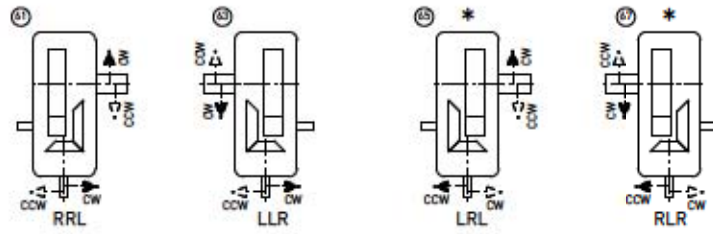
RRRL

- Shrink Disc Position
- Hold Back Position
- Output Shaft Position
- Bevel Gear Position

Type - B2 Double Stage

Shaft Arrangement - Int Ext

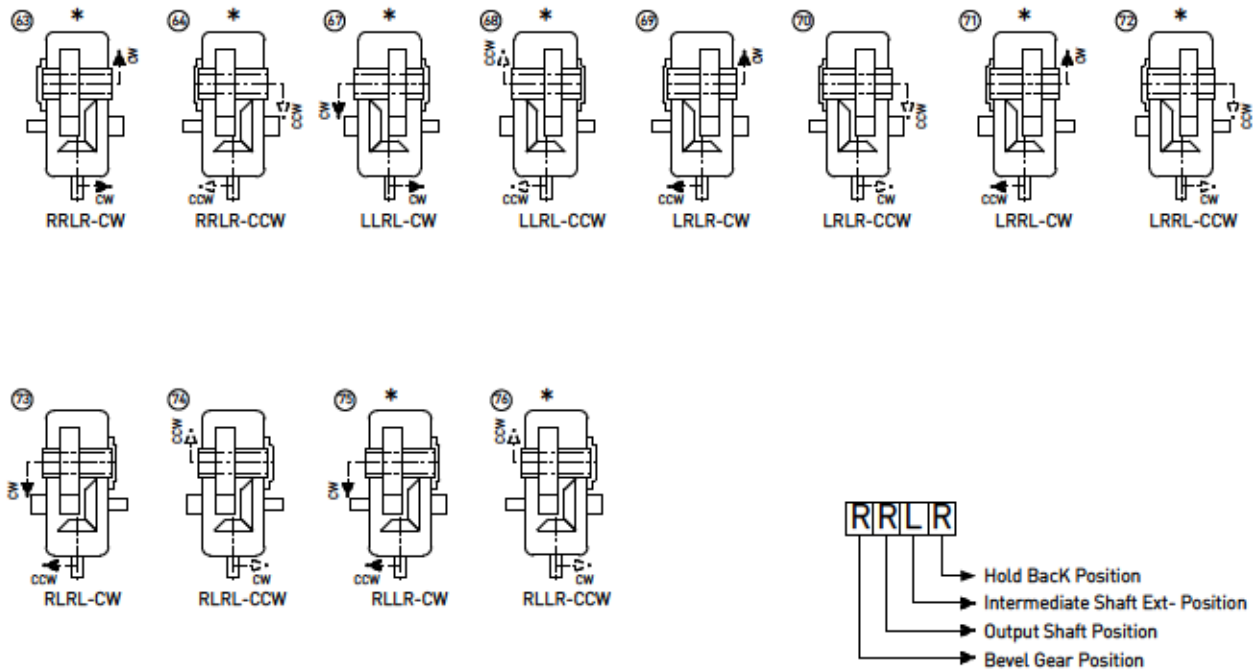
Bevel Helical Gear Unit



Bevel Helical Gear Unit

Shaft Arrangement - Int Ext & Hold Back

Type - B2 Double Stage

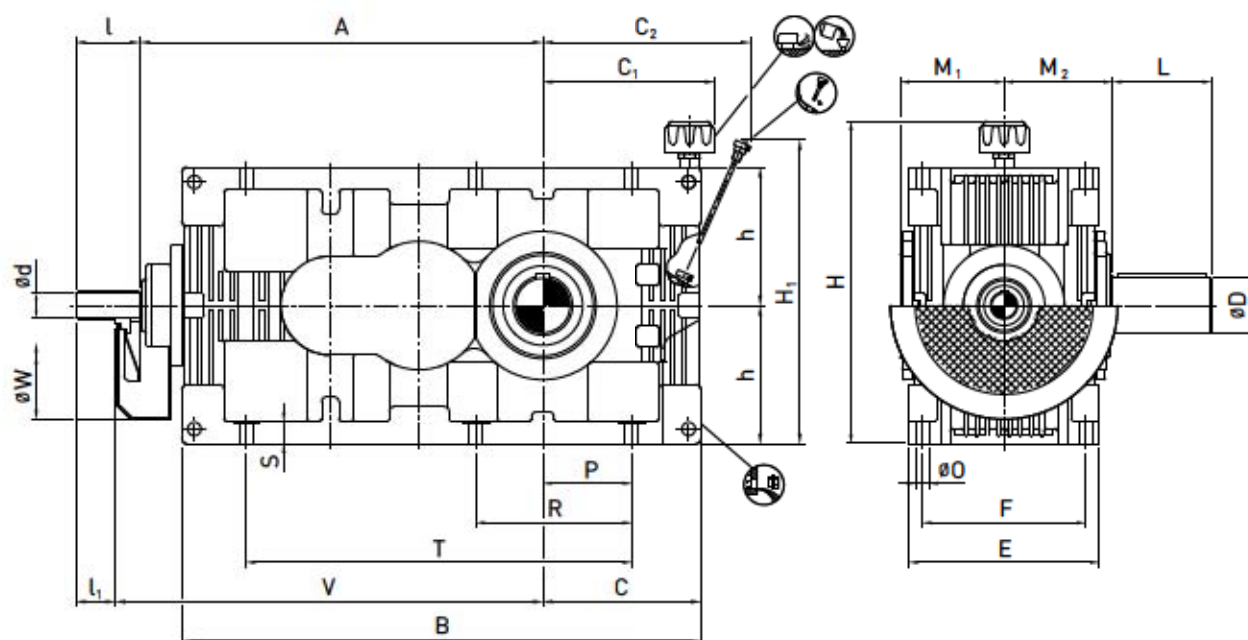


Type - B3H

Triple Stage
Size 14 to 18

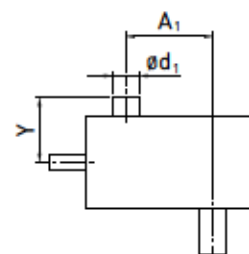
Horizontal Mounting

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft							Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [l, mmol]	
	i = 20-50			i = 56-71													
	i = 22.4-63			i = 71-90													
	i = 25-71			i = 80-100													
d	l	l ₁	d	l	l ₁	V	W	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
B3...14	19	90	40	19	90	40	435	240	48	95	106	125	190	90	180	105	3.5
B3...15	24	100	50	24	100	50	475	270	55	95	127	135	215	95	215	145	4.5
B3...16	24	100	50	24	100	50	525	300	60	130	133	145	240	95	215	195	6.5
B3...17	28	100	50	24	100	50	575	340	70	135	141	150	270	95	215	265	9
B3...18	32	110	60	28	100	50	640	360	80	160	158	170	305	140	265	355	13



Size	Foundation													
	A	B	C	C ₁ ²⁾	C ₂ ²⁾	E	F	h	H ₁ ²⁾	H ₂ ²⁾	O	P	R	T
B3..14	385	488	162	198	194	190	150	125	278	330	14	80	140	345
B3..15	420	548	177	213	215	228	170	140	306	360	14	95	170	395
B3..16	480	615	195	228	231	233	190	160	327	400	14	110	195	450
B3..17	530	684	210	238	257	250	210	180	378	440	18	115	210	495
B3..18	595	764	236	263	281	284	230	200	404	480	18	135	240	565

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to $\phi 50$ k6; over $\phi 50$ m6.

1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

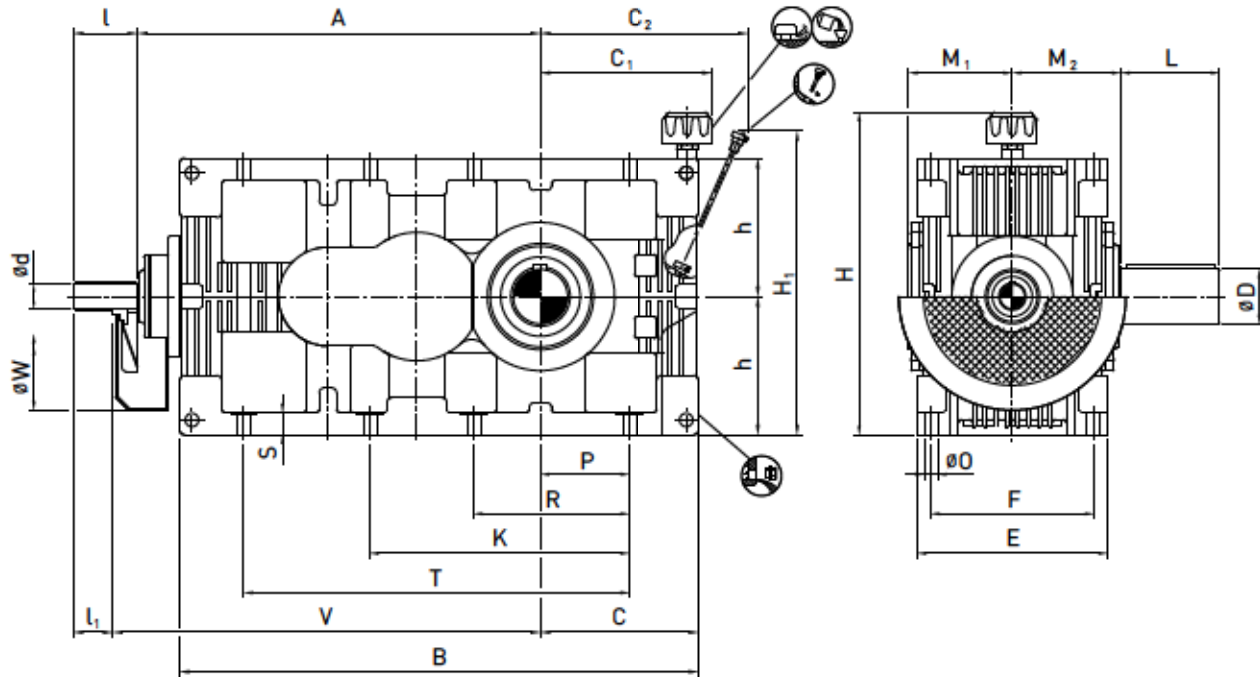
Bevel Helical Gear Unit

Horizontal Mounting

Type - B3H

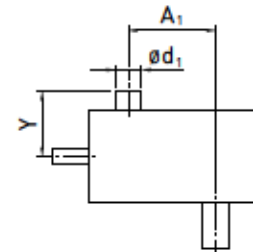
Triple Stage

Size 19 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft												Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [Litres]
	i = 20-50 i = 22.4-63 i = 25-71			i = 56-71 i = 71-90 i = 80-100																	
	d	l	l ₁	d	l	l ₁	V	W	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾						
B3..19	38	110	60	32	110	60	705	360	90	165	171	180	340	150	265	480	18				
B3..20	42	130	80	38	110	60	790	400	100	200	176	200	385	150	265	645	26				
B3..21	48	130	80	42	130	80	885	460	110	200	210	220	430	190	340	870	33				
B3..22	52	130	80	48	130	80	970	530	120	210	220	230	480	190	340	1170	46				
B3..23	58	135	85	52	130	80	1095	550	140	250	234	260	540	190	340	1590	65				
B3..24	65	155	105	65	155	105	1215	600	160	290	283	295	605	245	440	2145	90				
B3..25	70	155	105	70	155	105	1350	650	170	300	293	305	680	245	440	2895	125				
B3..26	85	180	130	80	180	130	1500	700	190	350	306	345	765	245	440	3885	180				



Size	Foundation														
	A	B	C	C ₁ ²⁾	C ₂ ¹⁾	E	F	h	H ₁ ¹⁾	H ₂ ²⁾	K	O	P	R	T
B3..19	660	850	265	283	315	303	250	225	455	530		23	145	255	615
B3..20	745	945	288	304	345	314	270	250	496	580		23	165	290	705
B3..21	835	1050	320	359	394	385	310	280	572	650		27	180	315	780
B3..22	920	1170	355	390	429	400	340	315	635	720		27	200	355	880
B3..23	1035	1335	405	422	481	450	380	355	705	800	655	33	220	405	985
B3..24	1145	1465	435	452	541	515	410	400	795	890	740	33	245	450	1110
B3..25	1275	1605	475	493	591	535	460	450	865	990	840	33	280	510	1245
B3..26	1425	1820	540	553	659	600	510	500	954	1090	940	39	315	575	1400

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

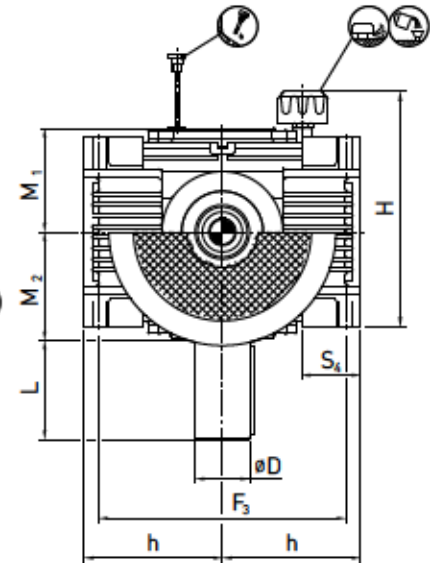
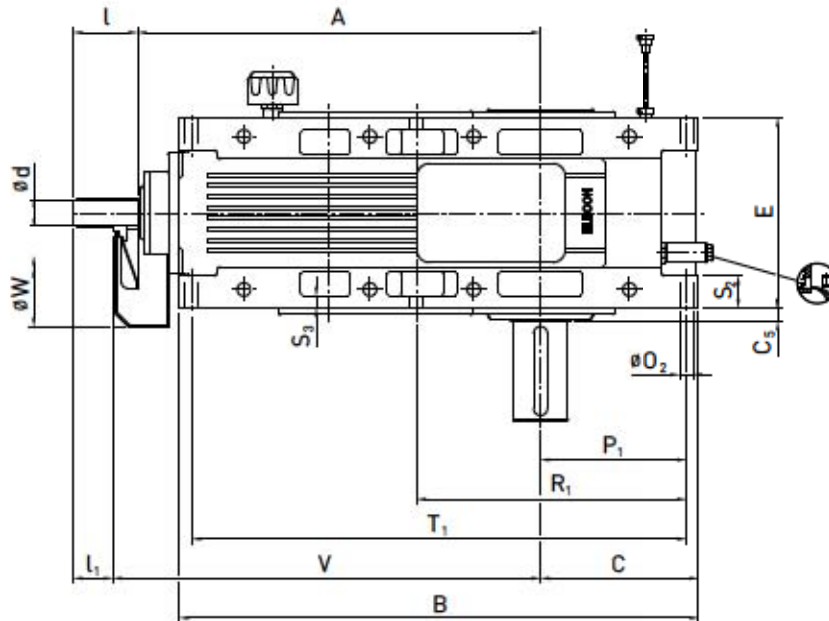
2) Approximate values; exact values acc. to order related documents

Type - B3V

Triple Stage
Size 14 to 18

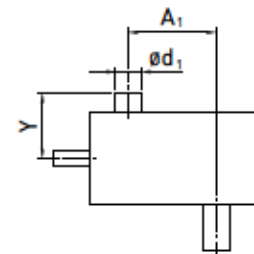
Vertical Mounting

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft								Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [l]
	i = 20-50			i = 56-71			V	W									
	i = 22.4-63			i = 71-90													
	d	l	l ₁	d	l	l ₁											
B3..14	19	90	40	19	90	40	435	240	48	95	106	125	190	90	180	105	-
B3..15	24	100	50	24	100	50	475	270	55	95	127	135	215	95	215	145	-
B3..16	24	100	50	24	100	50	525	300	60	130	133	145	240	95	215	195	-
B3..17	28	100	50	24	100	50	575	340	70	135	141	150	270	95	215	265	-
B3..18	32	110	60	28	100	50	640	360	80	160	158	170	305	140	265	355	-



Size	Foundation														
	A	B	C	C ₅	E	F ₃	h	H ²⁾	O ₂	P ₁	R ₁	S ₂	S ₃	S ₄	T ₁
B3..14	385	488	162	30	190	200	125	270	14	146	292	36	-	70	456
B3..15	420	548	177	21	228	230	140	308	14	160	285	45	15	70	515
B3..16	480	615	195	28.5	233	270	160	313	14	176	316	38	15	70	578
B3..17	530	684	210	25	250	310	180	330	18	190	350	40	20	95	645
B3..18	595	764	236	28	284	350	200	364	18	215	395	45	20	90	722

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to $\phi 50$ k6; over $\phi 50$ m6.

1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

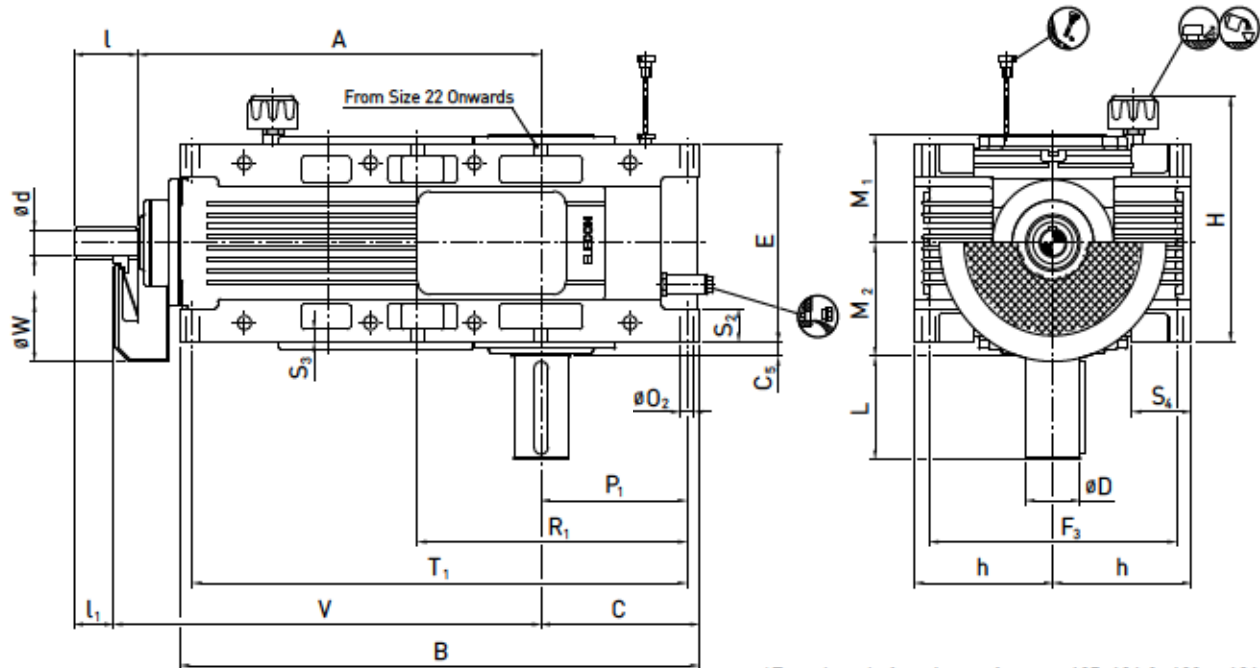
Bevel Helical Gear Unit

Vertical Mounting

Type - B3V

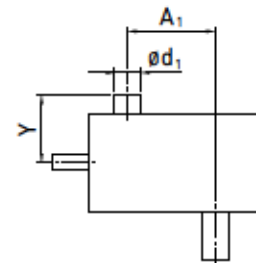
Triple Stage

Size 19 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft						Output Shaft						Backstop			Average Weight [kg]	Oil Quantity
	i = 20-50			i = 56-71													
	i = 22.4-63			i = 71-90													
	i = 25-71			i = 80-100													
d	l	l ₁	d	l	l ₁	V	W	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
B3..19	38	110	60	32	110	60	705	360	90	165	171	180	340	150	265	480	-
B3..20	42	130	80	38	110	60	790	400	100	200	176	200	385	150	265	645	-
B3..21	48	130	80	42	130	80	885	460	110	200	210	220	430	190	340	870	-
B3..22	52	130	80	48	130	80	970	530	120	210	220	230	480	190	340	1170	-
B3..23	58	135	85	52	130	80	1095	550	140	250	234	260	540	190	340	1590	-
B3..24	65	155	105	65	155	105	1215	600	160	290	283	295	605	245	440	2145	-
B3..25	70	155	105	70	155	105	1350	650	170	300	293	305	680	245	440	2895	-
B3..26	85	180	130	80	180	130	1500	700	190	350	306	345	765	245	440	3885	-



Size	Foundation														
	A	B	C	C ₅	E	F ₃	h	H ²⁾	O ₂	P ₁	R ₁	S ₂	S ₃	S ₄	T ₁
B3..19	660	850	265	28.5	303	400	225	383	23	240	440	48.5	22	105	800
B3..20	745	945	288	43	314	440	250	394	23	262	487	45	24	105	893
B3..21	835	1050	320	27.5	385	500	280	475	27	295	545	65	28	120	1000
B3..22	920	1170	355	30	400	560	315	490	27	325	605	60	28	120	1110
B3..23	1035	1335	405	35	450	630	355	540	33	370	685	70	35	150	1265
B3..24	1145	1465	435	37.5	515	700	400	605	33	398	753	87.5	35	150	1391
B3..25	1275	1605	475	37.5	535	800	450	625	33	436	836	80	35	150	1528
B3..26	1425	1820	540	45	600	890	500	700	39	495	945	100	45	175	1730

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

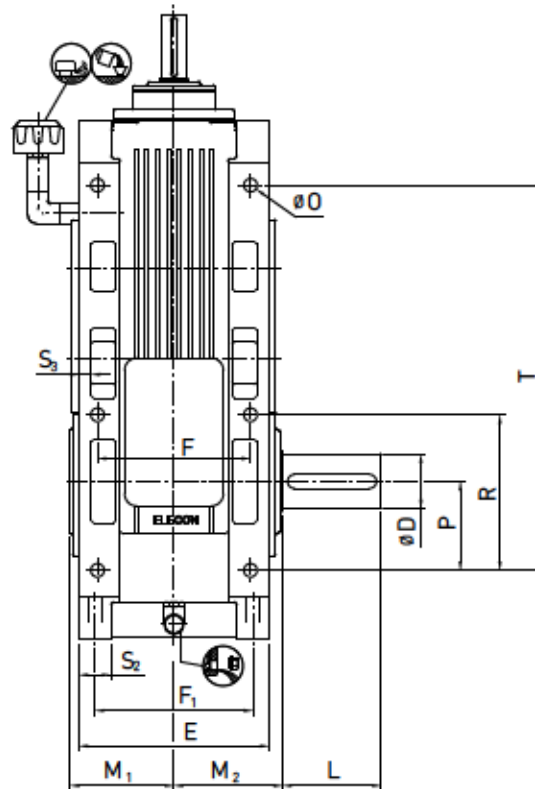
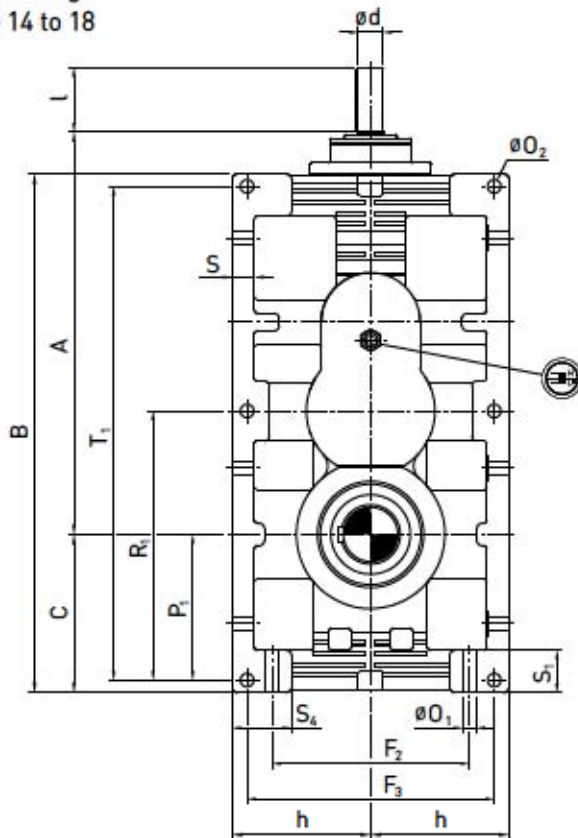
2) Approximate values; exact values acc. to order related documents

Type - B30

Triple Stage
Size 14 to 18

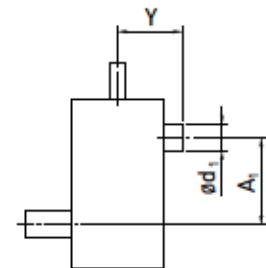
Over Driven

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [Litres]
	i = 20-50		i = 56-71										
	i = 22.4-63		i = 71-90										
	i = 25-71		i = 80-100										
d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
B3..14	19	90	19	90	48	95	106	125	190	90	180	105	-
B3..15	24	100	24	100	55	95	127	135	215	95	215	145	-
B3..16	24	100	24	100	60	130	133	145	240	95	215	195	-
B3..17	28	100	24	100	70	135	141	150	270	95	215	265	-
B3..18	32	110	28	100	80	160	158	170	305	140	265	355	-



Size	Foundation																						
	A	B	C	E	F	F ₁	F ₂	F ₃	h	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
B3..14	385	488	162	190	150	150	140	200	125	14	14	14	80	146	140	292	24	52	36	15	70	345	456
B3..15	420	548	177	228	170	170	170	230	140	14	14	14	95	160	170	285	24	52	45	15	70	395	515
B3..16	480	615	195	233	190	190	210	270	160	14	14	14	110	176	195	316	24	55	38	15	70	450	578
B3..17	530	684	210	250	210	210	220	310	180	18	18	18	115	190	210	350	32	60	40	20	95	495	645
B3..18	595	764	236	284	230	230	260	350	200	18	18	18	135	215	240	395	32	66	45	20	90	565	722

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape D5 (with thread)

Tolerance field for Shaft ends ISO fit, up to $\phi 50$ k6; over $\phi 50$ m6.

1) Max. dimensions; details acc. to order related documents

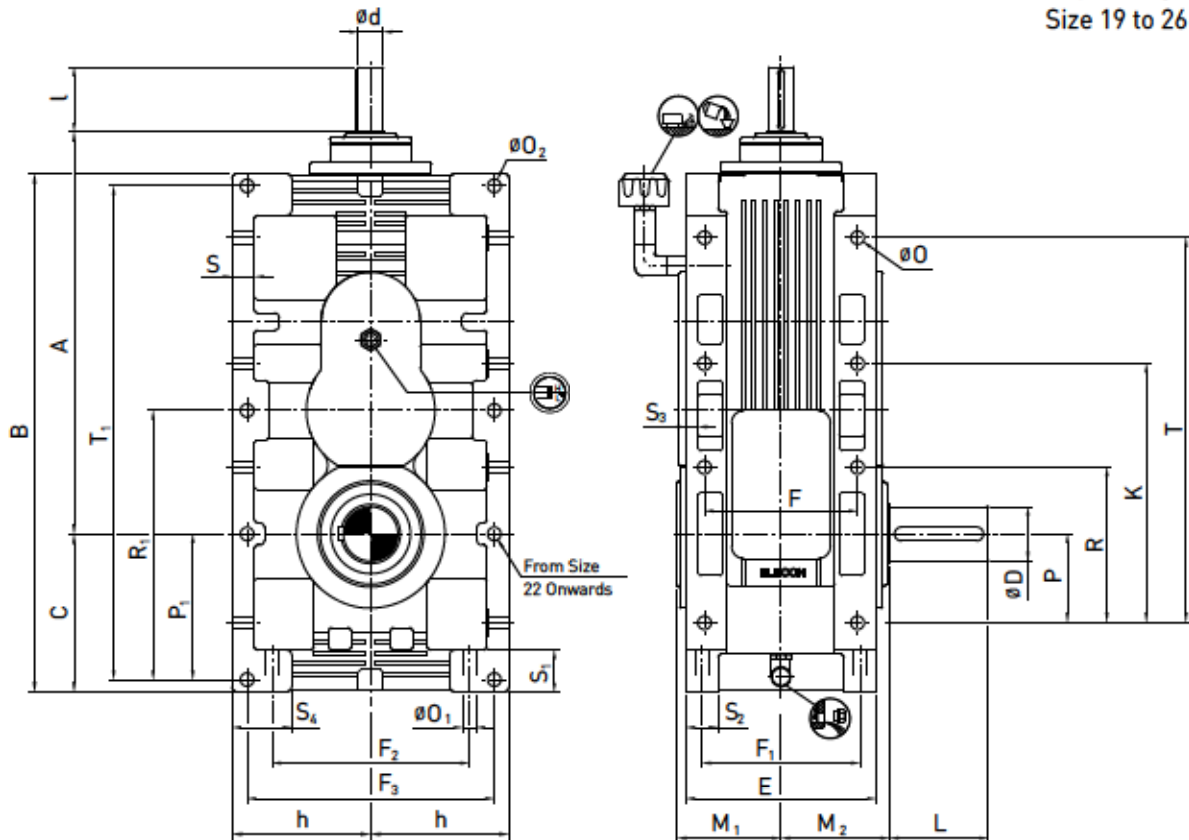
2) Approximate values; exact values acc. to order related documents

Bevel Helical Gear Unit

Over Driven

Type - B30

Triple Stage
Size 19 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [Litres]
	i = 22.4-63 i = 25-71		i = 71-90 i = 80-100										
	d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾		
B3..19	38	110	32	110	90	165	171	180	340	150	265	480	-
B3..20	42	130	38	110	100	200	176	200	385	150	265	645	-
B3..21	48	130	42	130	110	200	210	220	430	190	340	870	-
B3..22	52	130	48	130	120	210	220	230	480	190	340	1170	-
B3..23	58	135	52	130	140	250	234	260	540	190	340	1590	-
B3..24	65	155	65	155	160	290	283	295	605	245	440	2145	-
B3..25	70	155	70	155	170	300	293	305	680	245	440	2895	-
B3..26	85	180	80	180	190	350	306	345	765	245	440	3885	-

Size	Foundation																							
	A	B	C	E	F	F ₁	F ₂	F ₃	h	K	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
B3..19	660	850	265	303	250	250	290	400	225		23	23	23	145	240	255	440	36	75	48.5	22	105	615	800
B3..20	745	945	288	314	270	270	340	440	250		23	23	23	165	262	290	487	36	78	45	24	105	705	893
B3..21	835	1050	320	385	310	310	370	500	280		27	27	27	180	295	315	545	45	85	65	28	120	780	1000
B3..22	920	1170	355	400	340	340	440	560	315		27	27	27	200	325	355	605	45	90	60	28	120	880	1110
B3..23	1035	1335	405	450	380	380	480	630	355	655	33	33	33	220	370	405	685	55	110	70	35	150	985	1265
B3..24	1145	1465	435	515	410	410	570	700	400	740	33	33	33	245	398	450	753	55	110	87.5	35	150	1110	1391
B3..25	1275	1605	475	535	460	460	670	800	450	840	33	33	33	280	436	510	836	55	110	80	35	150	1245	1528
B3..26	1425	1820	540	600	510	510	730	890	500	940	39	39	39	315	495	575	945	65	130	100	45	175	1400	1730

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

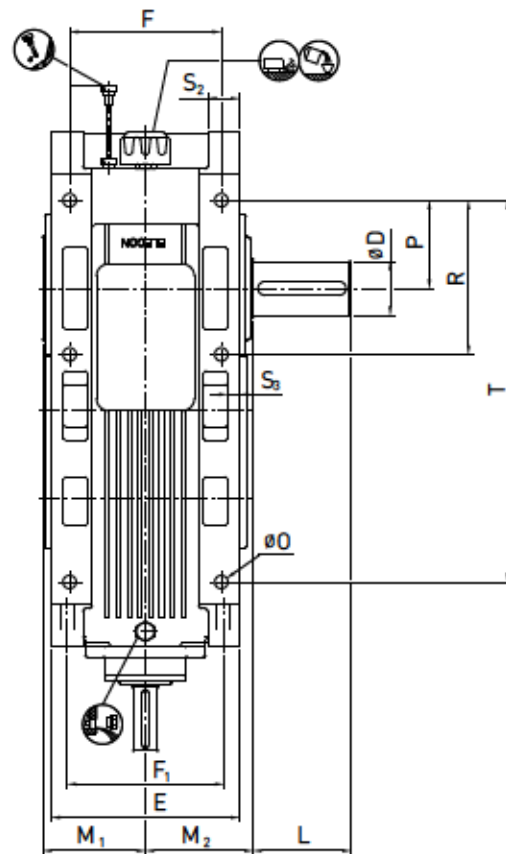
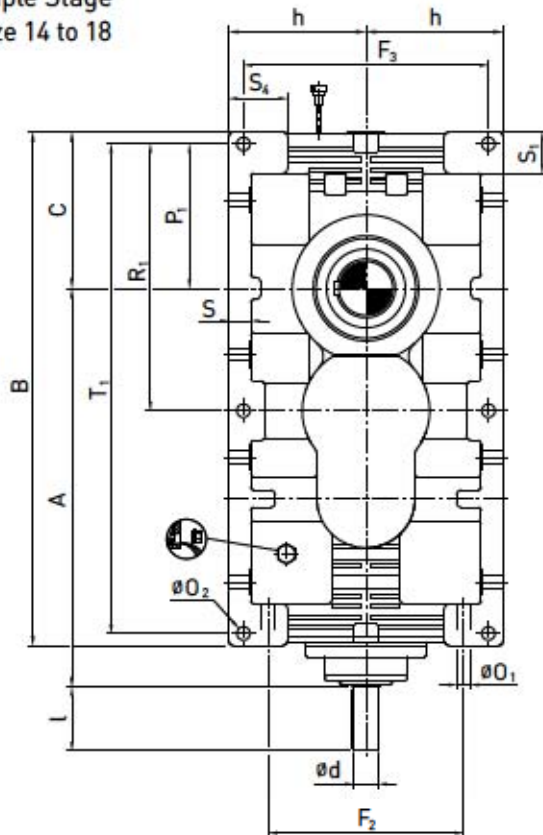
2) Approximate values; exact values acc. to order related documents

Type - B3U

Triple Stage
Size 14 to 18

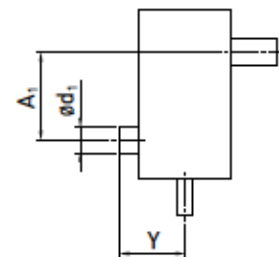
Under Driven

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [litres]
	i = 20-50		i = 56-71										
	i = 22.4-63		i = 71-90										
	i = 25-71		i = 80-100										
d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
B3..14	19	90	19	90	48	95	106	125	190	90	180	105	-
B3..15	24	100	24	100	55	95	127	135	215	95	215	145	-
B3..16	24	100	24	100	60	130	133	145	240	95	215	195	-
B3..17	28	100	24	100	70	135	141	150	270	95	215	265	-
B3..18	32	110	28	100	80	160	158	170	305	140	265	355	-



Size	Foundation																						
	A	B	C	E	F	F ₁	F ₂	F ₃	h	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
B3..14	385	488	162	190	150	150	140	200	125	14	14	14	80	146	140	292	24	52	36	15	70	345	456
B3..15	420	548	177	228	170	170	170	230	140	14	14	14	95	160	170	285	24	52	45	15	70	395	515
B3..16	480	615	195	233	190	190	210	270	160	14	14	14	110	176	195	316	24	55	38	15	70	450	578
B3..17	530	684	210	250	210	210	220	310	180	18	18	18	115	190	210	350	32	60	40	20	95	495	645
B3..18	595	764	236	284	230	230	260	350	200	18	18	18	135	215	240	395	32	66	45	20	90	565	722

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

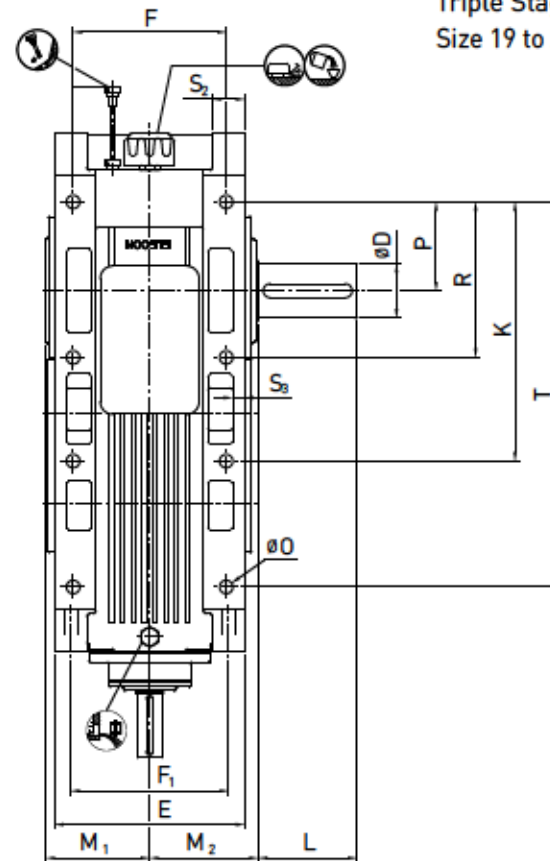
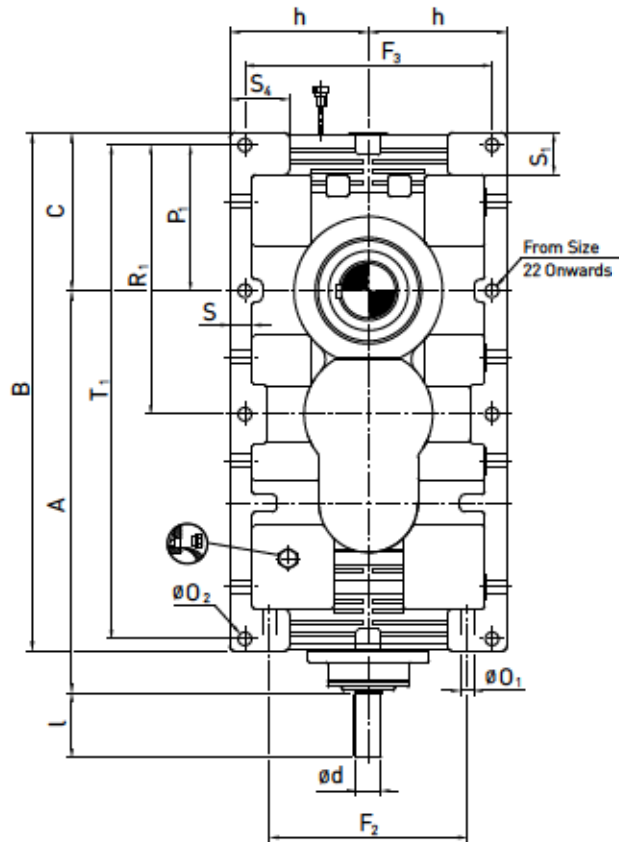
2) Approximate values; exact values acc. to order related documents

Bevel Helical Gear Unit

Under Driven

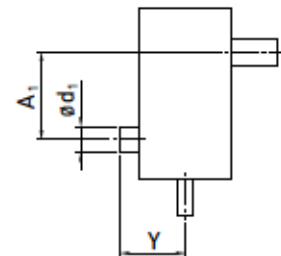
Type - B3U

Triple Stage
Size 19 to 26



Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [Litres]
	i = 22.4-63 i = 25-71		i = 71-90 i = 80-100										
	d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾		
B3..19	38	110	32	110	90	165	171	180	340	150	265	480	-
B3..20	42	130	38	110	100	200	176	200	385	150	265	645	-
B3..21	48	130	42	130	110	200	210	220	430	190	340	870	-
B3..22	52	130	48	130	120	210	220	230	480	190	340	1170	-
B3..23	58	135	52	130	140	250	234	260	540	190	340	1590	-
B3..24	65	155	65	155	160	290	283	295	605	245	440	2145	-
B3..25	70	155	70	155	170	300	293	305	680	245	440	2895	-
B3..26	85	180	80	180	190	350	306	345	765	245	440	3885	-

*For other shaft options refer page 125, 126 & 129 to 131



Size	Foundation																							
	A	B	C	E	F	F ₁	F ₂	F ₃	h	K	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
B3..19	660	850	265	303	250	250	290	400	225	23	23	23	23	145	240	255	440	36	75	48.5	22	105	615	800
B3..20	745	945	288	314	270	270	340	440	250	23	23	23	23	165	262	290	487	36	78	45	24	105	705	893
B3..21	835	1050	320	385	310	310	370	500	280	27	27	27	27	180	295	315	545	45	85	65	28	120	780	1000
B3..22	920	1170	355	400	340	340	440	560	315	27	27	27	27	200	325	355	605	45	90	60	28	120	880	1110
B3..23	1035	1335	405	450	380	380	480	630	355	33	33	33	33	220	370	405	685	55	110	70	35	150	985	1265
B3..24	1145	1465	435	515	410	410	570	700	400	33	33	33	33	245	398	450	753	55	110	87.5	35	150	1110	1391
B3..25	1275	1605	475	535	460	460	670	800	450	33	33	33	33	280	436	510	836	55	110	80	35	150	1245	1528
B3..26	1425	1820	540	600	510	510	730	890	500	39	39	39	39	315	495	575	945	65	130	100	45	175	1400	1730

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

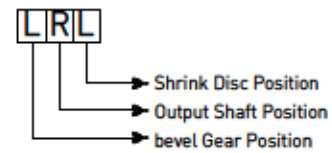
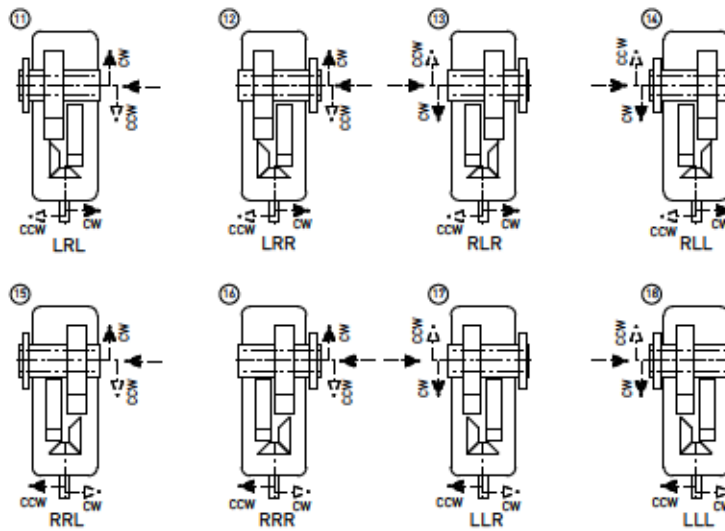
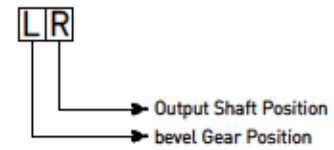
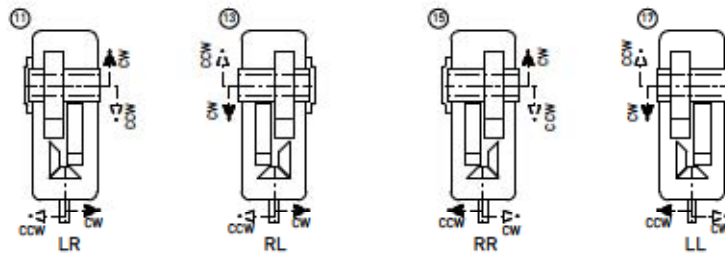
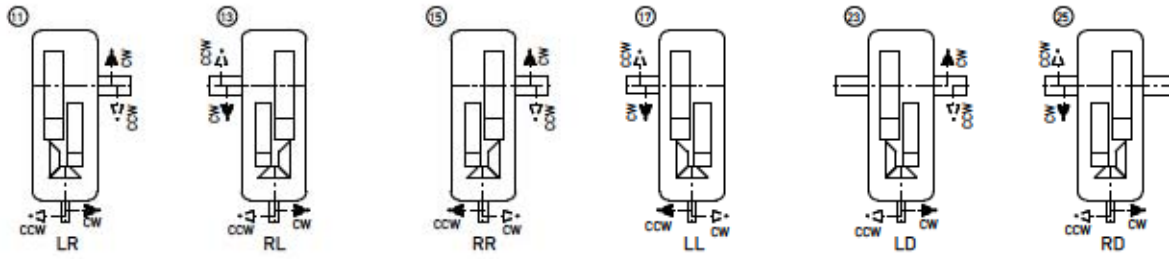
1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

Type - B3 Triple Stage

Shaft Arrangement

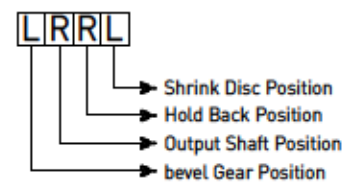
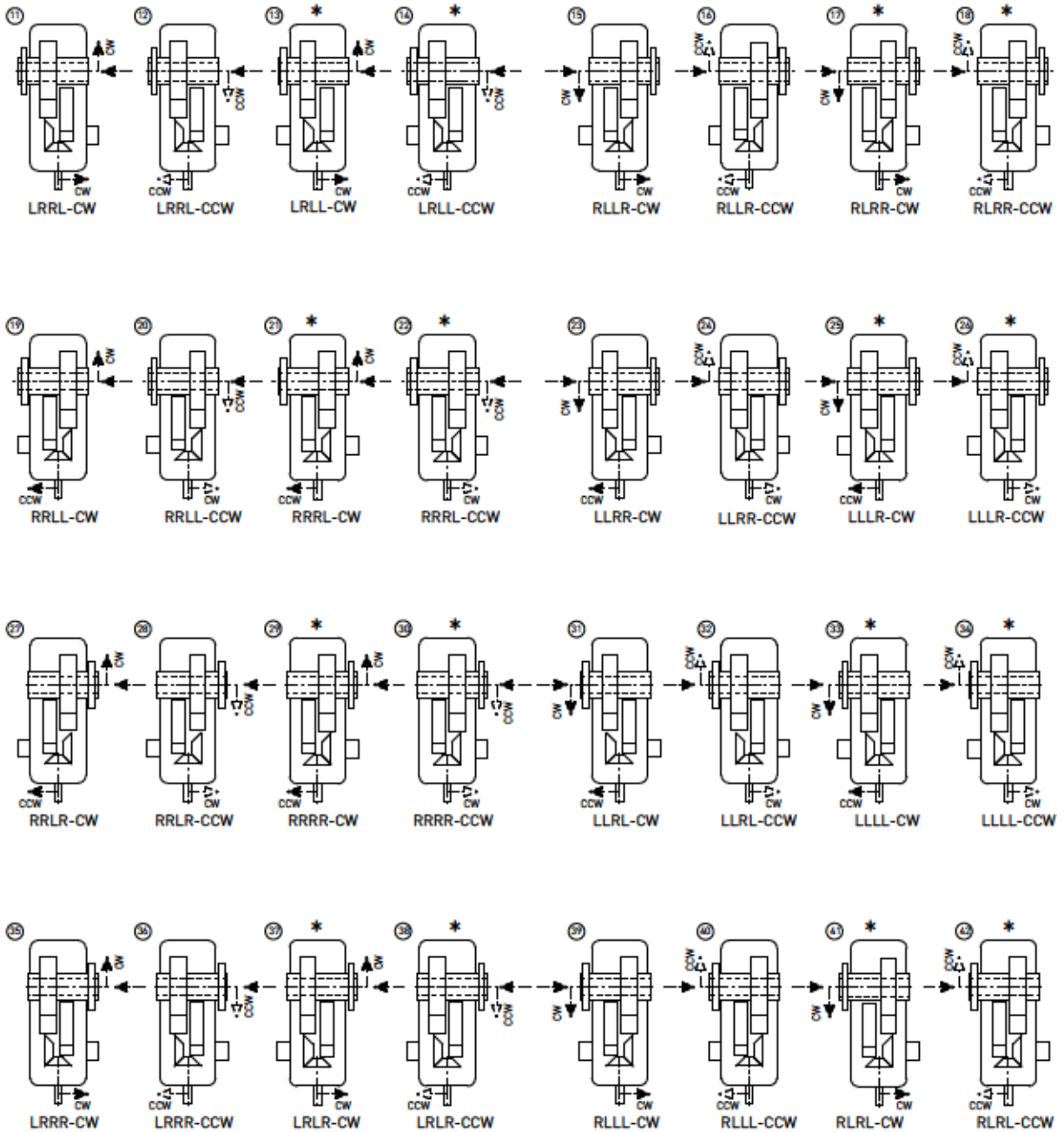
Bevel Helical Gear Unit



Bevel Helical Gear Unit

Shaft Arrangement Hold Back

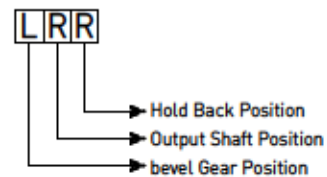
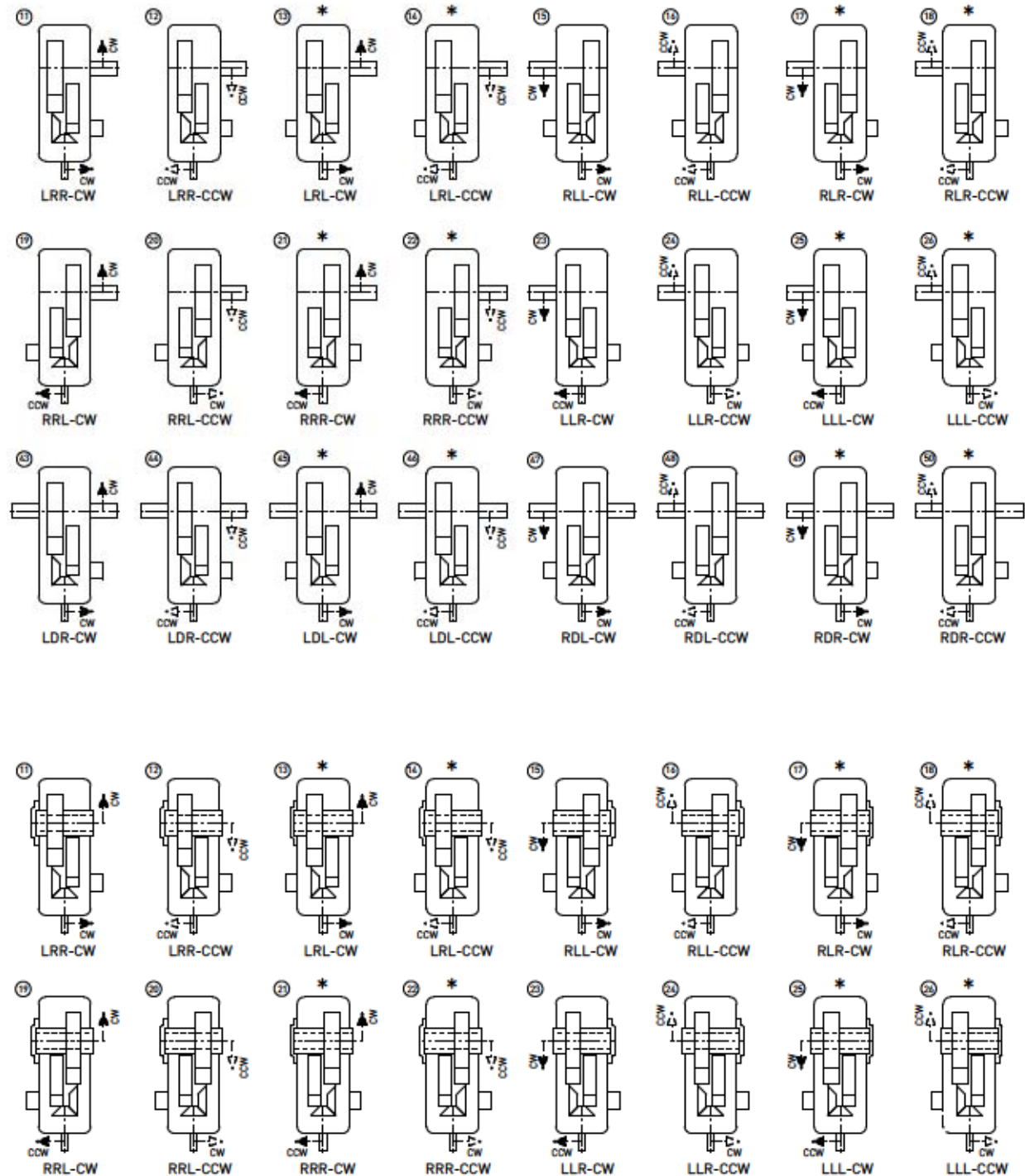
Type - B3
Triple Stage



Type - B3
Triple Stage

Shaft Arrangement - Hold Back

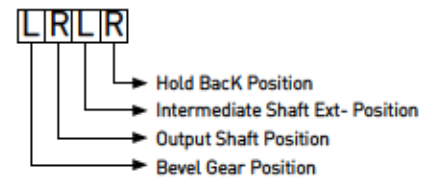
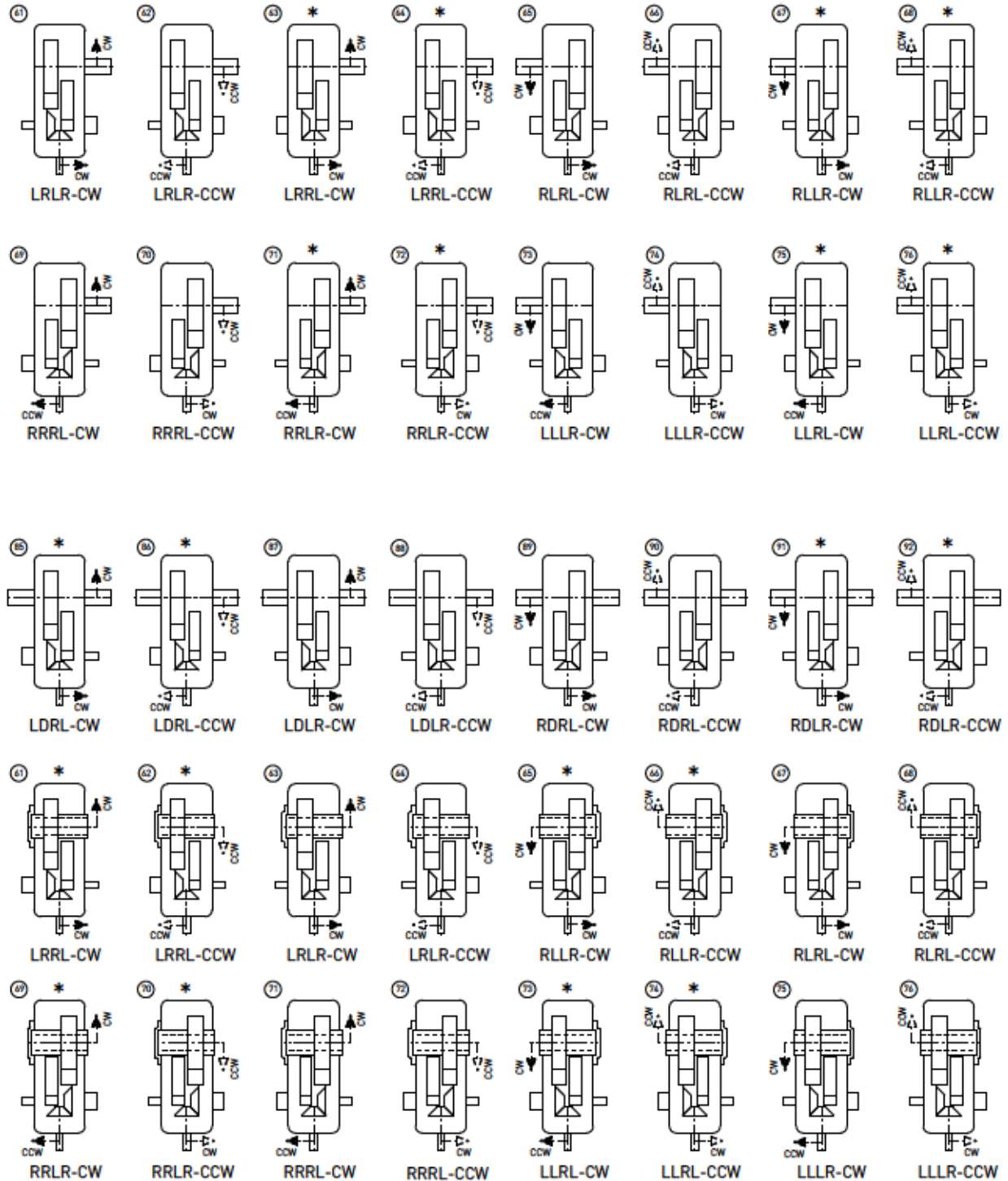
Bevel Helical Gear Unit



Bevel Helical Gear Unit

Shaft Arrangement - Int Ext & Hold Back

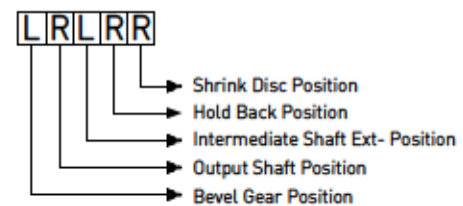
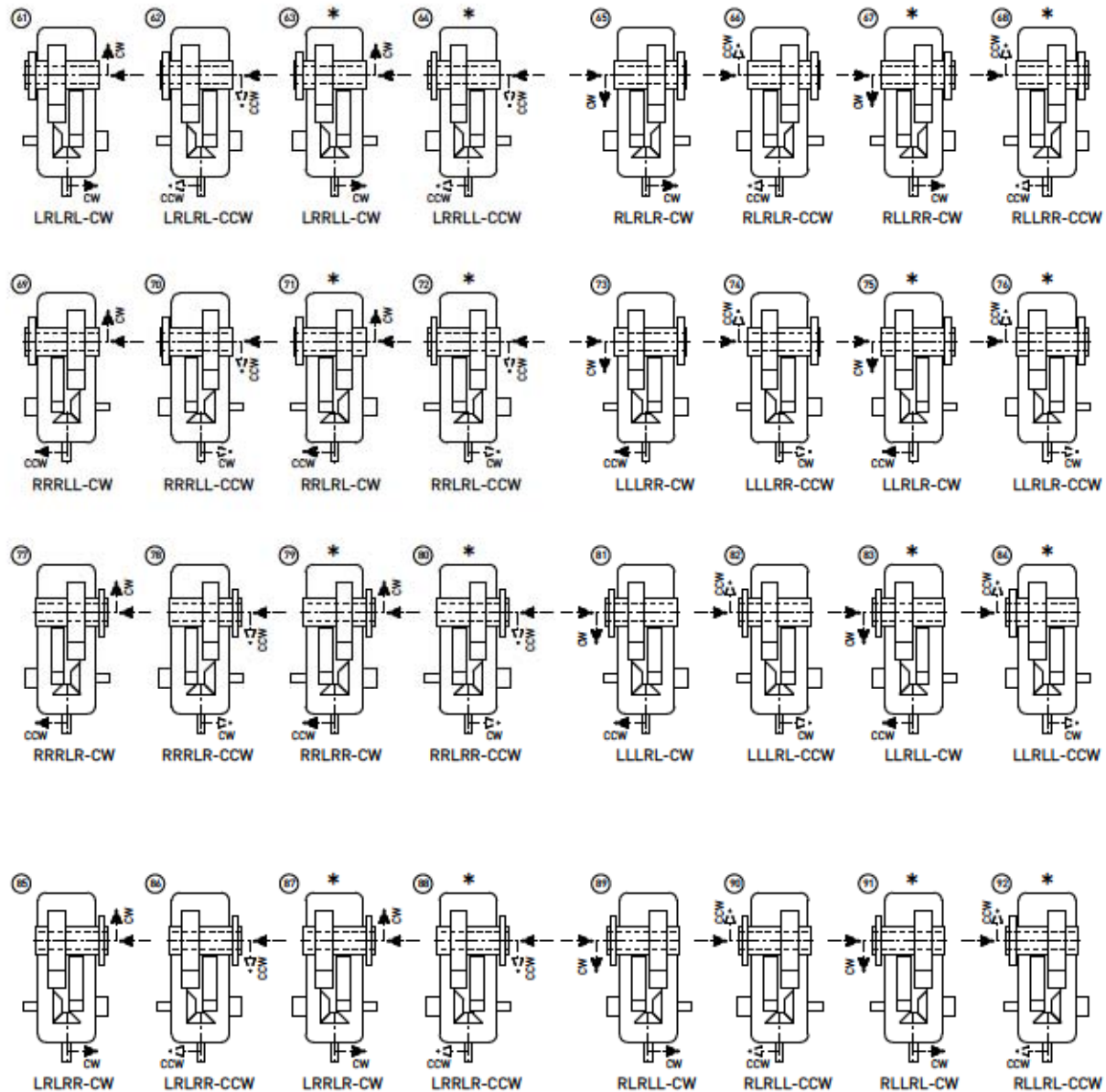
Type - B3
Triple Stage



Type - B3 Triple Stage

Shaft Arrangement - Int Ext & Hold Back

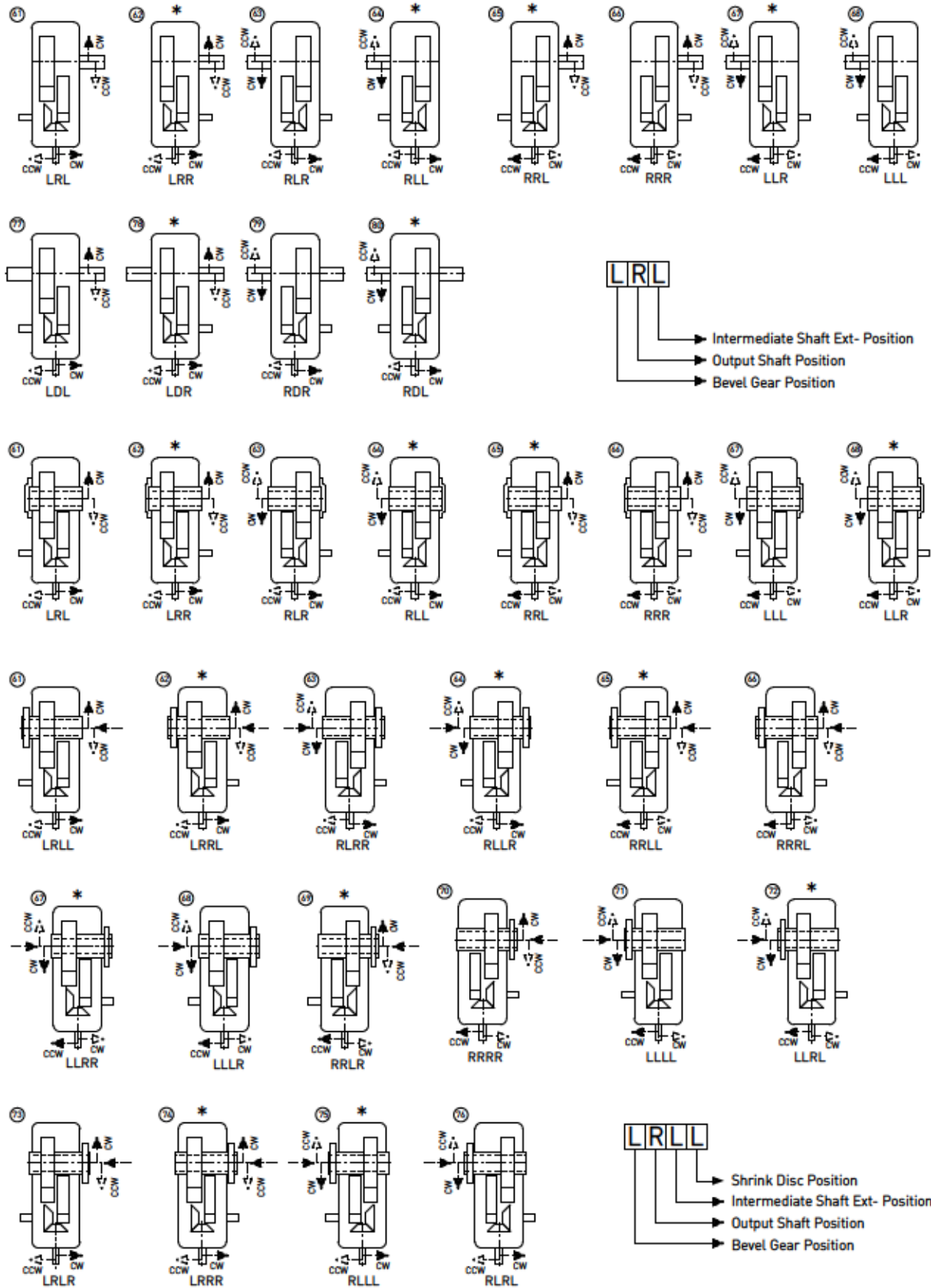
Bevel Helical Gear Unit



Bevel Helical Gear Unit

Shaft Arrangement - Int Ext

Type - B3 Triple Stage

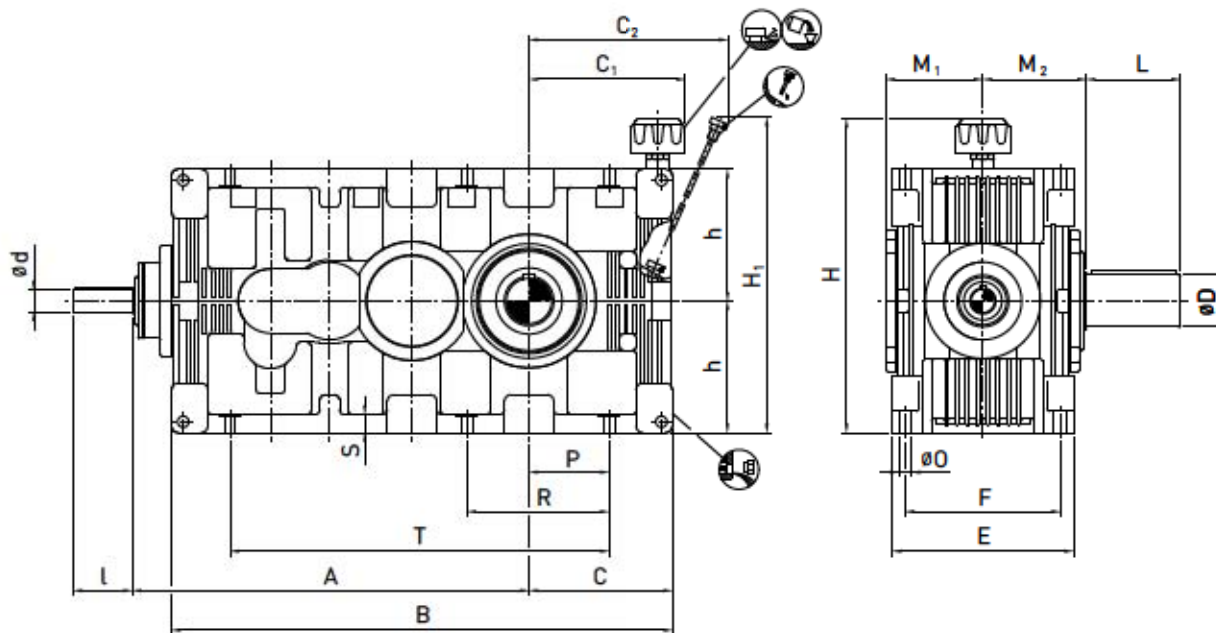


Type - B4H

Quadruple Stage
Size 17 to 18

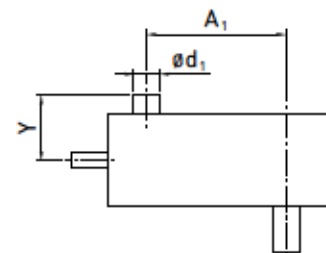
Horizontal Mounting

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [Litres]
	$i = 80-225$		$i = 250-400$										
	$i = 100-315$		$i = 355-560$										
	$i = 112-400$		$i = 450-560$										
d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
B4..17	19	90	19	90	70	135	141	150	350	85	210	265	9
B4..18	24	100	24	100	80	160	158	170	395	95	255	355	13



Size	Foundation													
	A	B	C	C_1	C_2	E	F	h	H_1	H_2	O	P	R	T
B4..17	545	696	210	238	257	250	210	180	378	440	18	115	210	495
B4..18	600	787	236	263	281	284	230	200	404	480	18	135	240	565

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to $\phi 50$ k6; over $\phi 50$ m6.

1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

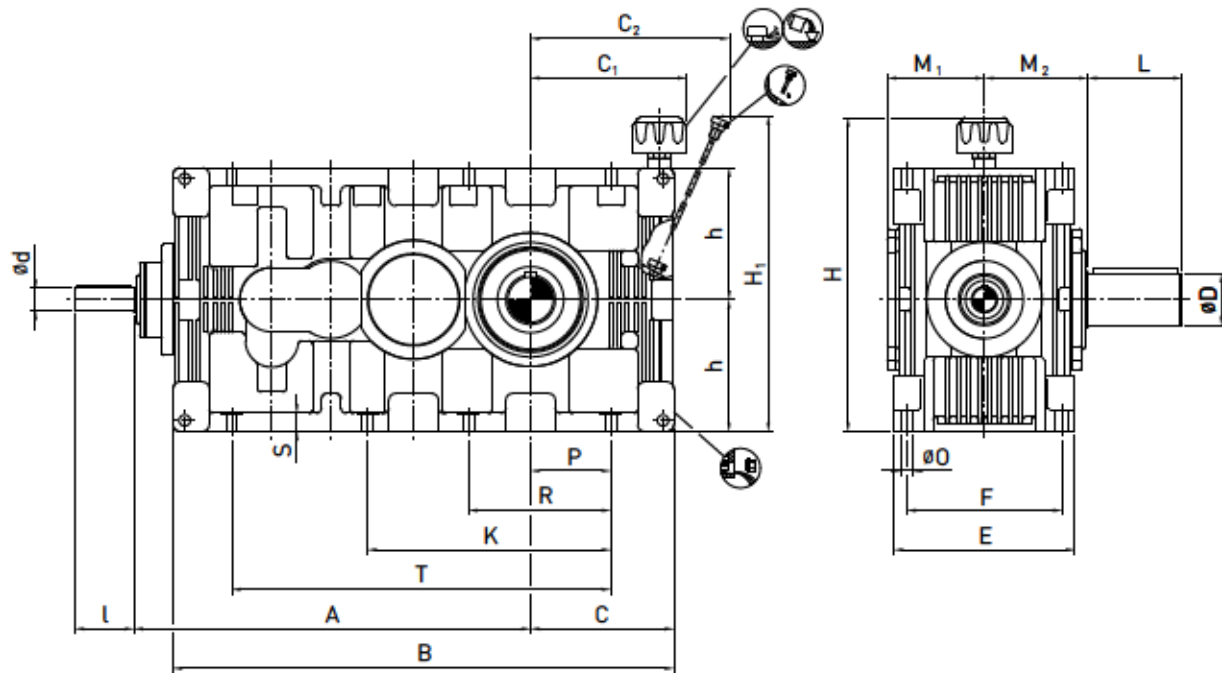
Bevel Helical Gear Unit

Horizontal Mounting

Type - B4H

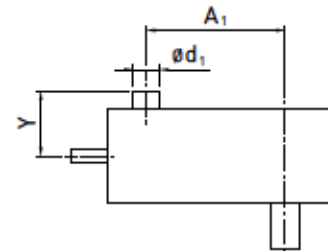
Quadruple Stage

Size 19 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [Litres]
	i = 80-225		i = 250-400										
	i = 100-315		i = 355-560										
	i = 112-400		i = 450-560										
d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
B4...19	24	100	24	100	90	165	171	180	440	95	255	480	18
B4...20	28	100	24	100	100	200	176	200	495	95	255	645	26
B4...21	32	110	28	100	110	200	210	220	555	135	310	870	33
B4...22	38	110	32	110	120	210	220	230	620	135	310	1170	46
B4...23	42	130	38	110	140	250	234	260	700	140	310	1590	65
B4...24	48	130	42	130	160	290	283	295	785	175	415	2145	90
B4...25	52	130	48	130	170	300	293	305	880	175	415	2895	125
B4...26	58	135	52	130	190	350	306	345	990	190	415	3885	180



Size	Foundation															
	A	B	C	C ₁ ²⁾	C ₂ ¹⁾	E	F	h	H ₁ ¹⁾	H ₂ ²⁾	K	O	P	R	S	T
B4..19	680	885	265	283	315	303	250	225	455	530		23	145	255	36	615
B4..20	755	987	288	304	345	314	270	250	496	580		23	165	290	36	705
B4..21	845	1098	320	359	394	385	310	280	572	650		27	180	315	45	780
B4..22	940	1220	355	390	429	400	340	315	635	720		27	200	355	45	880
B4..23	1060	1377	405	422	481	450	380	355	705	800	655	33	220	405	55	985
B4..24	1190	1520	435	452	541	515	410	400	795	890	740	33	245	450	55	1110
B4..25	1320	1690	475	493	591	535	460	450	865	990	840	33	280	510	55	1245
B4..26	1485	1920	540	553	659	600	510	500	954	1090	940	39	315	575	65	1400

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

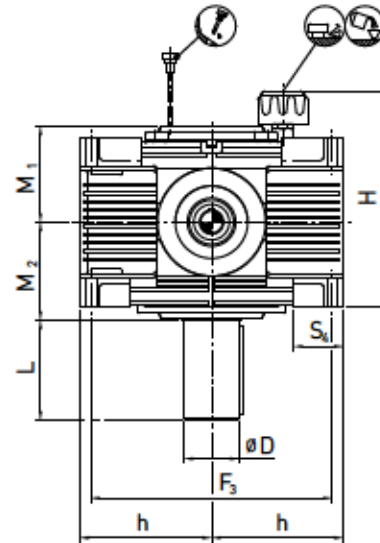
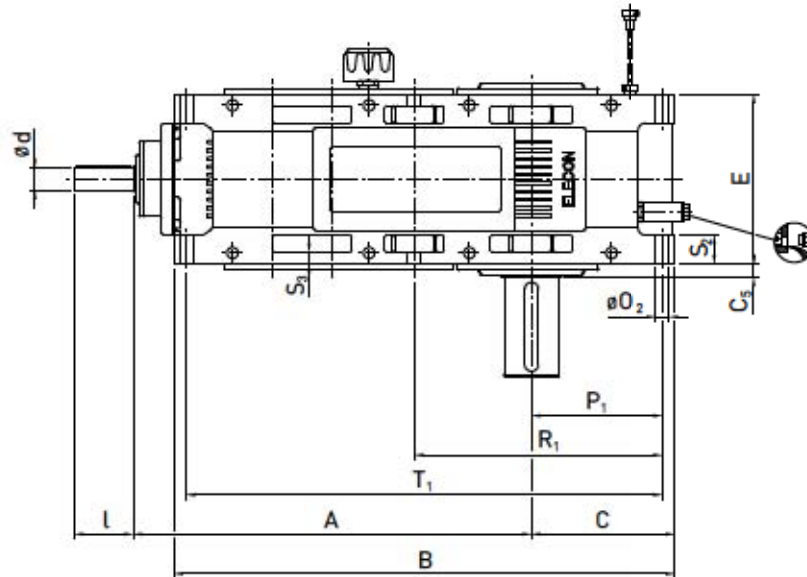
2) Approximate values; exact values acc. to order related documents

Type - B4V

Quadruple Stage
Size 17 to 18

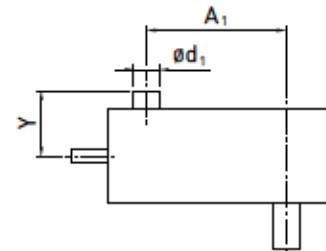
Vertical Mounting

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [L/litre]
	i = 80-225		i = 250-400										
	d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾		
B4..18	19	90	19	90	70	135	141	150	350	85	210	265	-
B4..18	24	100	24	100	80	160	158	170	395	95	255	355	-



Size	Foundation														
	A	B	C	C ₅	E	F ₃	h	H ²⁾	O ₂	P ₁	R ₁	S ₂	S ₃	S ₄	T ₁
B4..17	545	696	210	25	250	310	180	330	18	190	350	40	20	90	655
B4..18	600	787	236	28	284	350	200	364	18	215	395	45	20	90	744

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

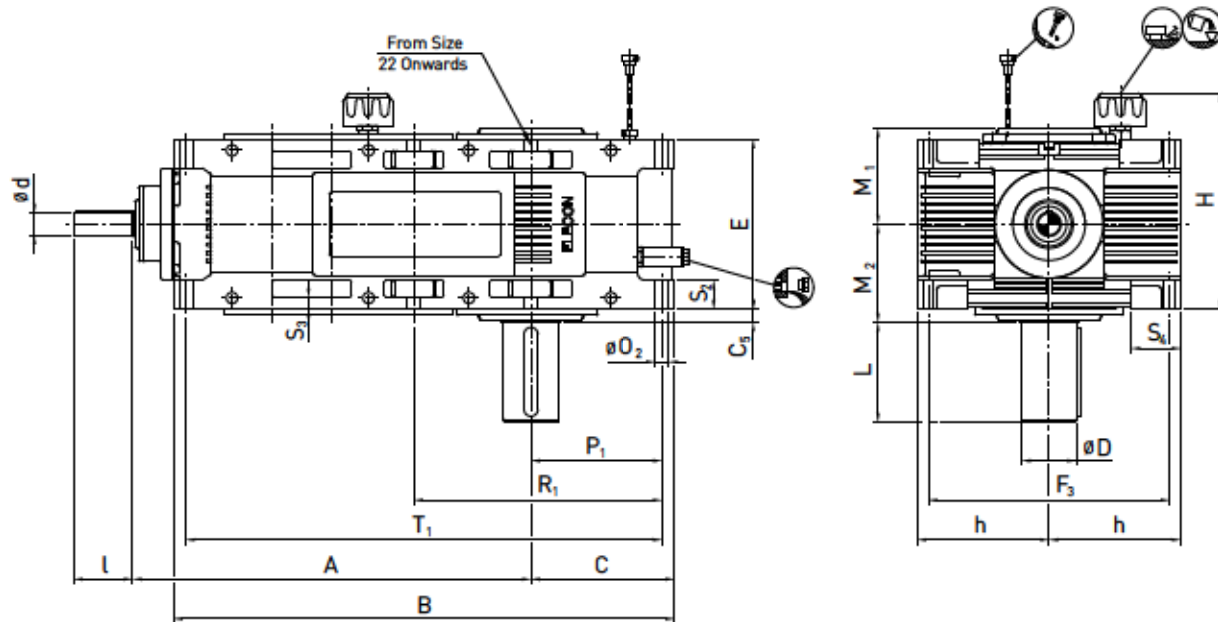
Bevel Helical Gear Unit

Vertical Mounting

Type - B4V

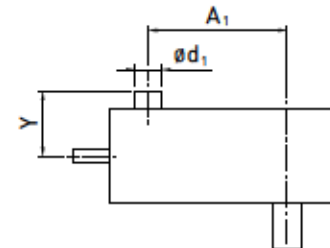
Quadruple Stage

Size 19 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight kg	Oil Quantity Litres
	d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾		
B4..19	24	100	24	100	90	165	171	180	440	95	255	480	-
B4..20	28	100	24	100	100	200	176	200	495	95	255	645	-
B4..21	32	110	28	100	110	200	210	220	555	135	310	870	-
B4..22	38	110	32	110	120	210	220	230	620	135	310	1170	-
B4..23	42	130	38	110	140	250	234	260	700	140	310	1590	-
B4..24	48	130	42	130	160	290	283	295	785	175	415	2145	-
B4..25	52	130	48	130	170	300	293	305	880	175	415	2895	-
B4..26	58	135	52	130	190	350	306	345	990	190	415	3885	-



Size	Foundation														
	A	B	C	C ₅	E	F ₃	h	H ²⁾	O ₂	P ₁	R ₁	S ₂	S ₃	S ₄	T ₁
B4..19	680	885	265	28.5	303	400	225	383	23	240	440	48.5	22	105	836
B4..20	755	987	288	43	314	440	250	394	23	262	487	45	24	105	935
B4..21	845	1098	320	27.5	385	500	280	475	27	295	545	65	28	120	1045
B4..22	940	1220	355	30	400	560	315	490	27	325	605	60	28	120	1160
B4..23	1060	1377	405	35	450	630	355	540	33	370	685	70	35	150	1305
B4..24	1190	1520	435	37.5	515	700	400	605	33	398	753	87.5	35	150	1443
B4..25	1320	1690	475	37.5	535	800	450	625	33	436	836	80	35	150	1612
B4..26	1485	1920	540	45	600	890	500	700	39	495	945	100	45	175	1830

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

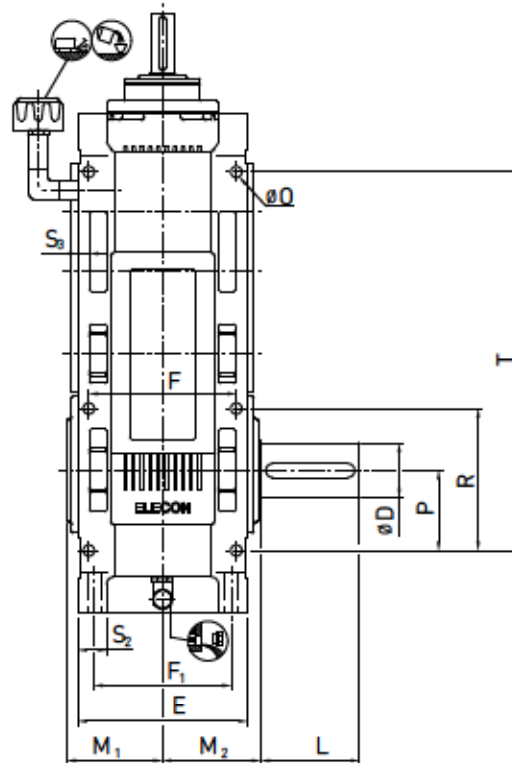
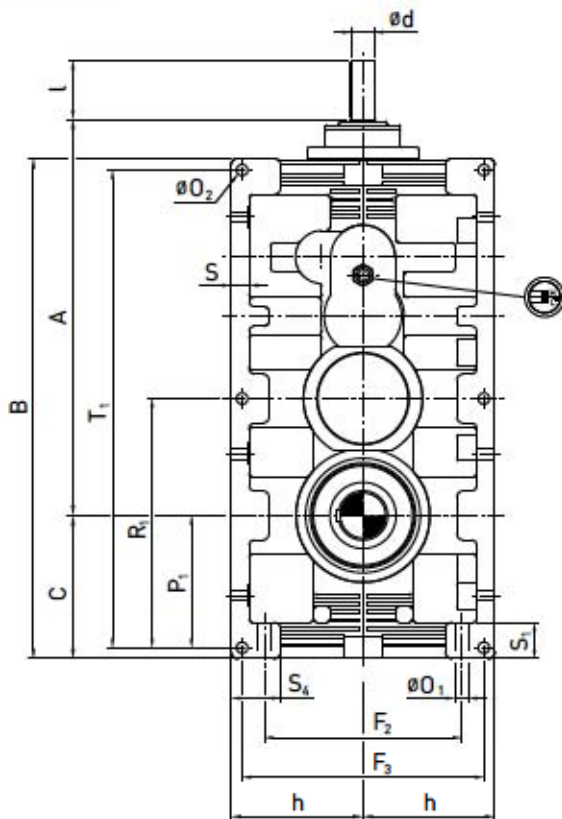
2) Approximate values; exact values acc. to order related documents

Type - B40

Quadruple Stage
Size 17 to 18

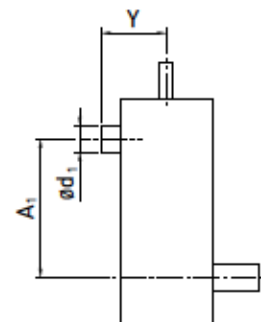
Over Driven

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [Litres]
	d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾		
B4...17	19	90	19	90	70	135	141	150	350	85	210	265	-
B4...18	24	100	24	100	80	160	158	170	395	95	255	355	-



Size	Foundation																						
	A	B	C	E	F	F ₁	F ₂	F ₃	h	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
B4...17	545	696	210	250	210	210	220	310	180	18	18	18	115	190	210	350	32	60	40	20	90	495	655
B4...18	600	787	236	284	230	230	260	350	200	18	18	18	135	215	240	395	32	66	45	20	90	565	744

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

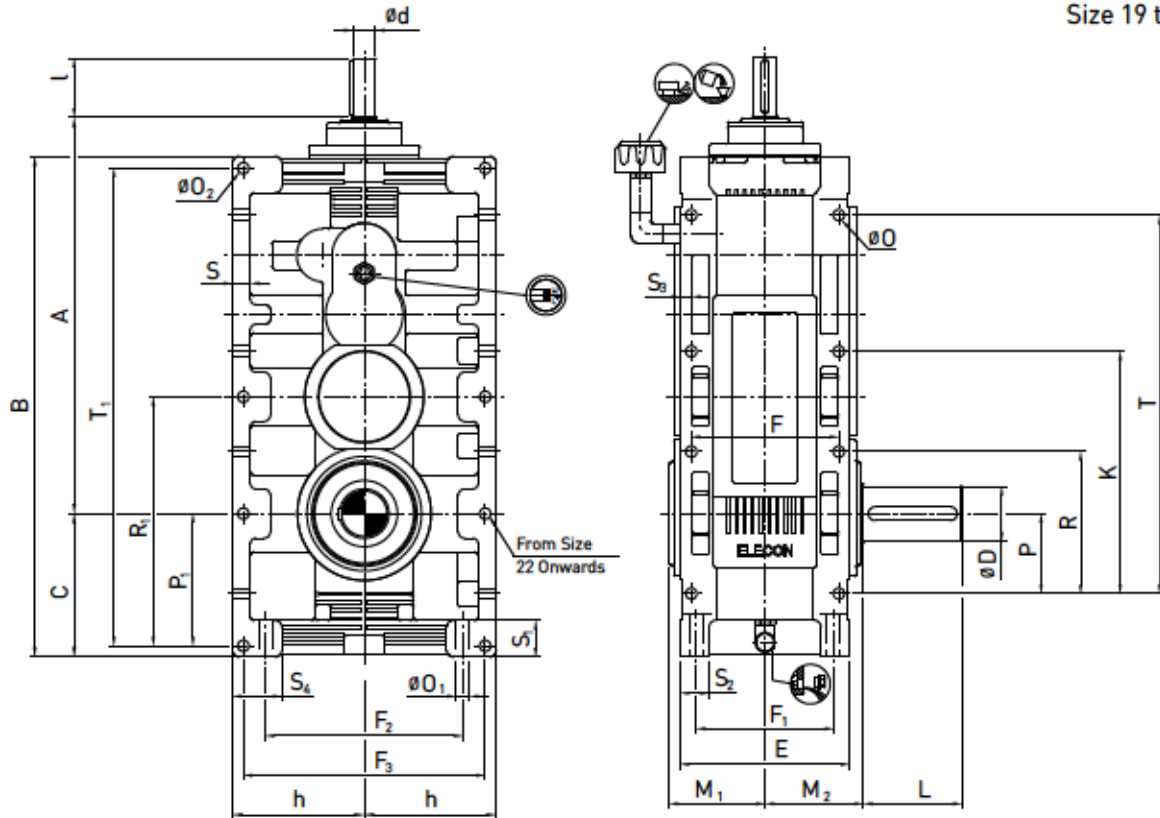
Bevel Helical Gear Unit

Over Driven

Type - B40

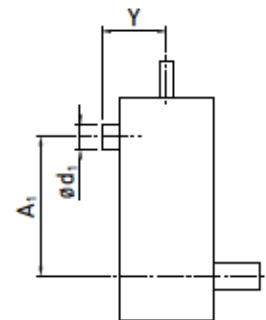
Quadruple Stage

Size 19 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [Liters]
	i = 80-225	i = 250-400											
	i = 100-315	i = 355-560											
	i = 112-400	i = 450-560											
d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
B4..19	24	100	24	100	90	165	171	180	440	95	255	480	-
B4..20	28	100	24	100	100	200	176	200	495	95	255	645	-
B4..21	32	110	28	100	110	200	210	220	555	135	310	870	-
B4..22	38	110	32	110	120	210	220	230	620	135	310	1170	-
B4..23	42	130	38	110	140	250	234	260	700	140	310	1590	-
B4..24	48	130	42	130	160	290	283	295	785	175	415	2145	-
B4..25	52	130	48	130	170	300	293	305	880	175	415	2895	-
B4..26	58	135	52	130	190	350	306	345	990	190	415	3885	-



Size	Foundation																							
	A	B	C	E	F	F ₁	F ₂	F ₃	h	K	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
B4..19	680	885	265	303	250	250	290	400	225	23	23	23	23	145	240	255	440	36	75	48.5	22	105	615	836
B4..20	755	987	288	314	270	270	340	440	250	23	23	23	23	165	262	290	487	36	78	45	24	105	705	935
B4..21	845	1098	320	385	310	310	370	500	280	27	27	27	27	180	295	315	545	45	85	65	28	120	780	1045
B4..22	940	1220	355	400	340	340	440	560	315	27	27	27	27	200	325	355	605	45	90	60	28	120	880	1160
B4..23	1060	1377	405	450	380	380	480	630	355	33	33	33	33	220	370	405	685	55	110	70	35	150	985	1305
B4..24	1190	1520	435	515	410	410	570	700	400	740	33	33	33	245	398	450	753	55	110	87.5	35	150	1110	1443
B4..25	1320	1690	475	535	460	460	670	800	450	840	33	33	33	280	436	510	836	55	110	80	35	150	1245	1612
B4..26	1485	1920	540	600	510	510	730	890	500	940	39	39	39	315	495	575	945	65	130	100	45	175	1400	1830

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

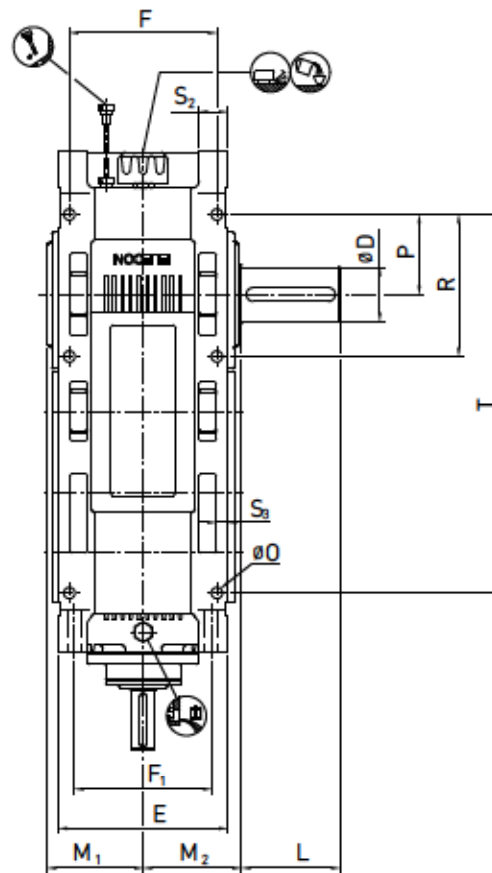
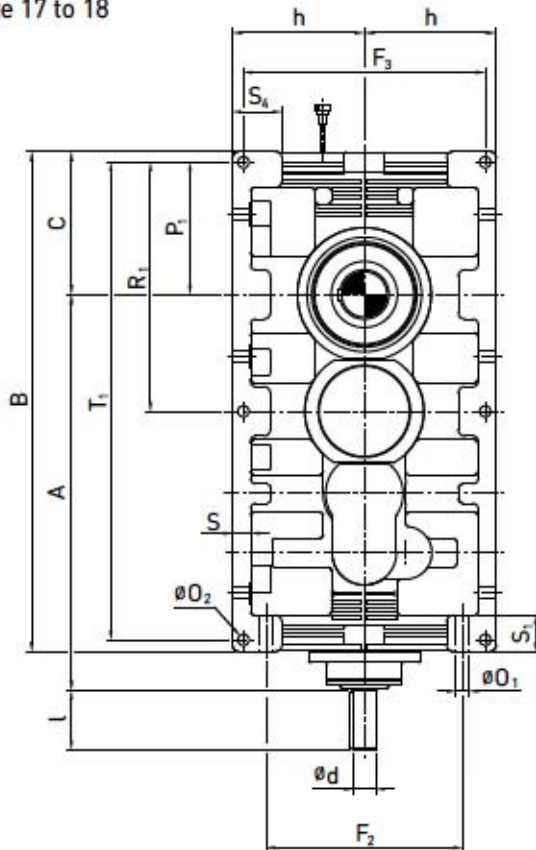
2) Approximate values; exact values acc. to order related documents

Type - B4U

Quadruple Stage
Size 17 to 18

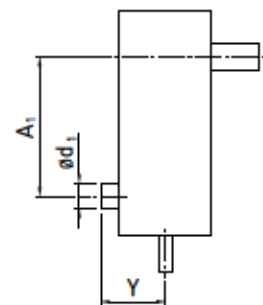
Under Driven

Bevel Helical Gear Unit



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft												Average Weight [kg]	Oil Quantity [Litres]
	i = 80-225		i = 250-400											
	i = 100-315		i = 355-560		Output Shaft				Backstop					
	d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
B4..17	19	90	19	90	70	135	141	150	350	85	210	265	-	
B4..18	24	100	24	100	80	160	158	170	395	95	255	355	-	



Size	Foundation																			
	A	B	C	E	F	F ₁	F ₂	F ₃	h	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃
B4..17	545	696	210	250	210	210	220	310	180	18	18	18	115	190	210	350	32	60	40	20
B4..18	600	787	236	284	230	230	260	350	200	18	18	18	135	215	240	395	32	66	45	20

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

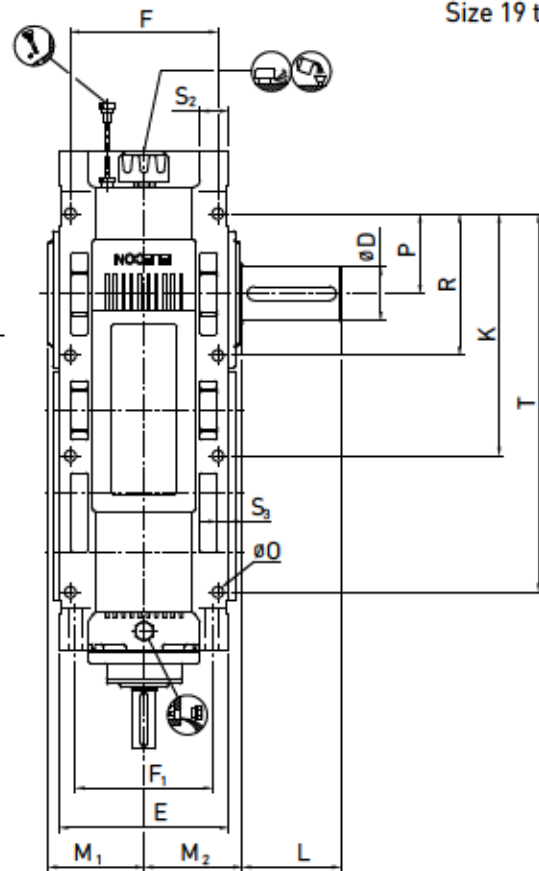
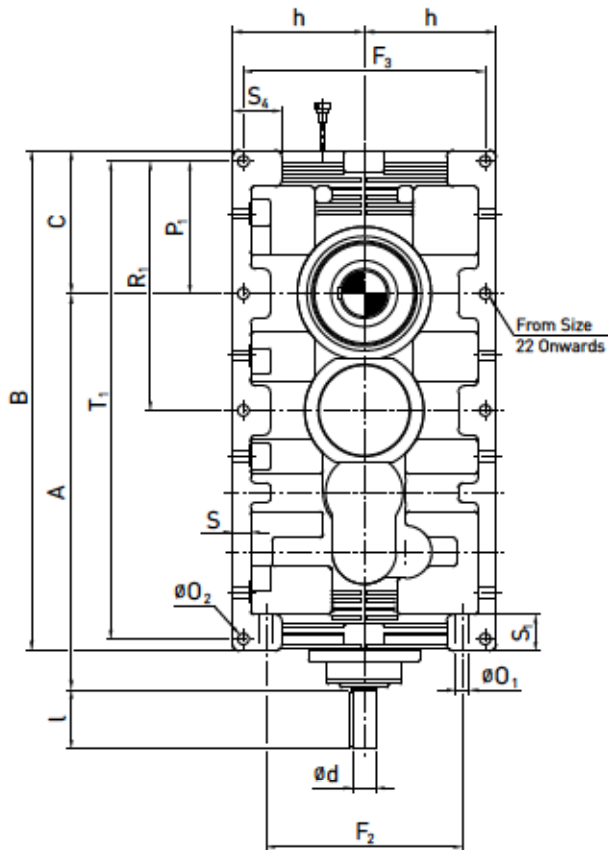
1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

Bevel Helical Gear Unit

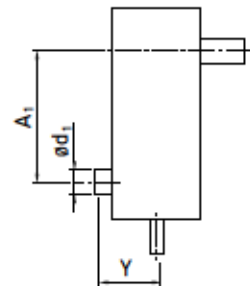
Under Driven

Type - B4U Quadruple Stage Size 19 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				Output Shaft				Backstop			Average Weight kg	Oil Quantity [Litres]
	i = 80-225		i = 250-400										
	i = 100-315		i = 355-560										
	i = 112-400		i = 450-560										
d	l	d	l	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
B4..19	24	100	24	100	90	165	171	180	440	95	255	480	-
B4..20	28	100	24	100	100	200	176	200	495	95	255	645	-
B4..21	32	110	28	100	110	200	210	220	555	135	310	870	-
B4..22	38	110	32	110	120	210	220	230	620	135	310	1170	-
B4..23	42	130	38	110	140	250	234	260	700	140	310	1590	-
B4..24	48	130	42	130	160	290	283	295	785	175	415	2145	-
B4..25	52	130	48	130	170	300	293	305	880	175	415	2895	-
B4..26	58	135	52	130	190	350	306	345	990	190	415	3885	-



Size	Foundation																							
	A	B	C	E	F	F ₁	F ₂	F ₃	h	K	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
B4..19	680	885	265	303	250	250	290	400	225		23	23	23	145	240	255	440	36	75	48.5	22	105	615	836
B4..20	755	987	288	314	270	270	340	440	250		23	23	23	165	262	290	487	36	78	45	24	105	705	935
B4..21	845	1098	320	385	310	310	370	500	280		27	27	27	180	295	315	545	45	85	65	28	120	780	1045
B4..22	940	1220	355	400	340	340	440	560	315		27	27	27	200	325	355	605	45	90	60	28	120	880	1160
B4..23	1060	1377	405	450	380	380	480	630	355	655	33	33	33	220	370	405	685	55	110	70	35	150	985	1305
B4..24	1190	1520	435	515	410	410	570	700	400	740	33	33	33	245	398	450	753	55	110	87.5	35	150	1110	1443
B4..25	1320	1690	475	535	460	460	670	800	450	840	33	33	33	280	436	510	836	55	110	80	35	150	1245	1612
B4..26	1485	1920	540	600	510	510	730	890	500	940	39	39	39	315	495	575	945	65	130	100	45	175	1400	1830

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

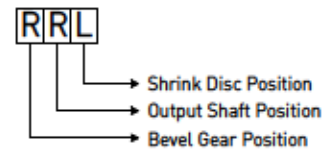
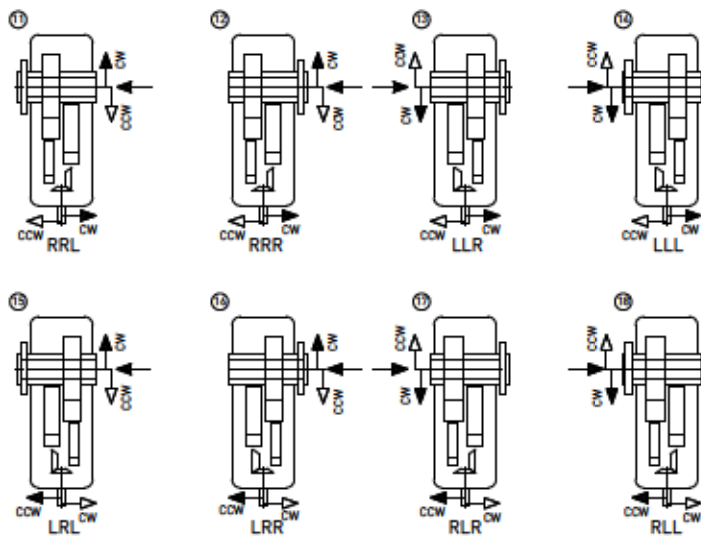
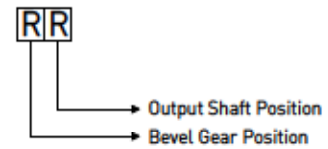
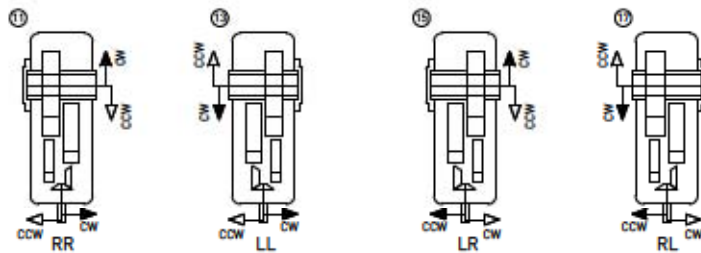
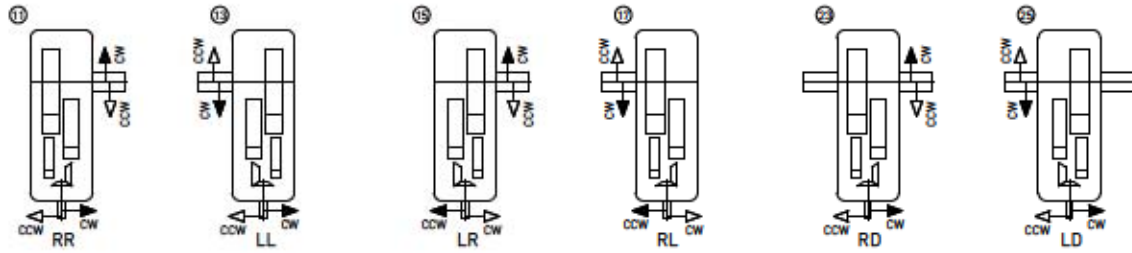
1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

Type - B4 Quadruple Stage

Shaft Arrangement

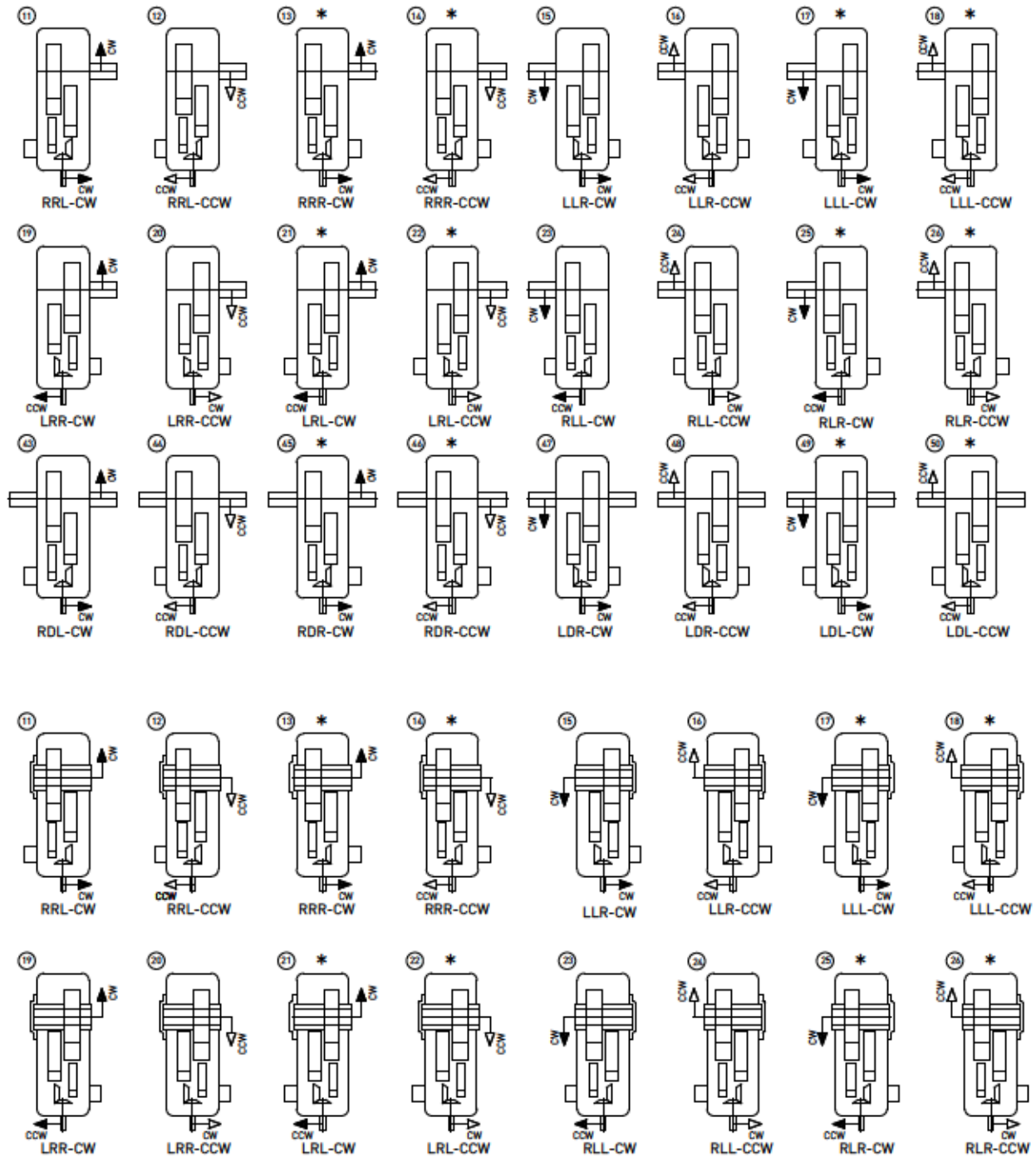
Bevel Helical Gear Unit



Bevel Helical Gear Unit

Shaft Arrangement - Hold Back

Type - B4
Quadruple Stage



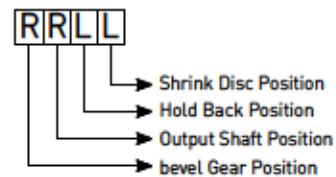
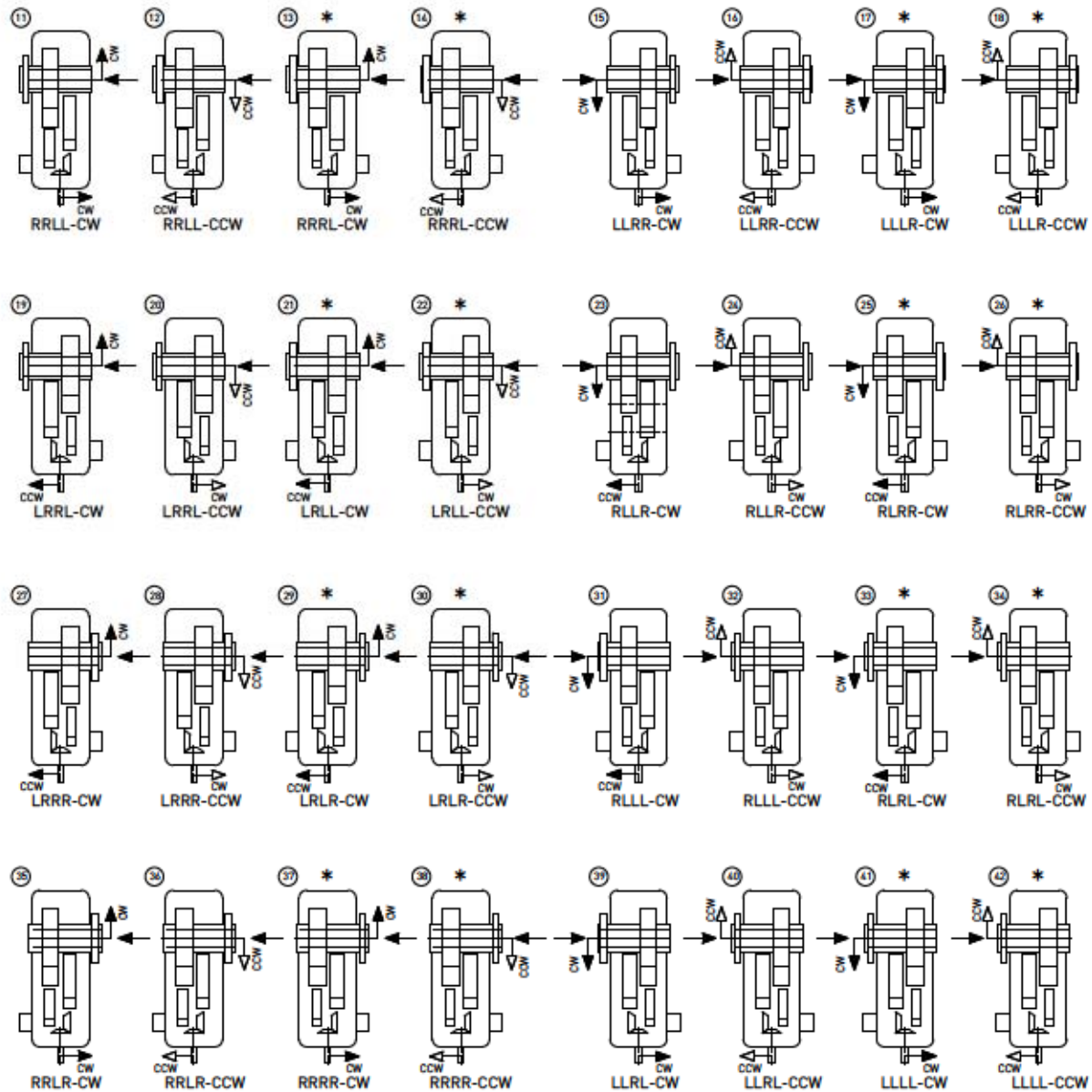
LRR

- Hold Back Position
- Output Shaft Position
- bevel Gear Position

Type - B4
Quadruple Stage

Shaft Arrangement - Hold Back

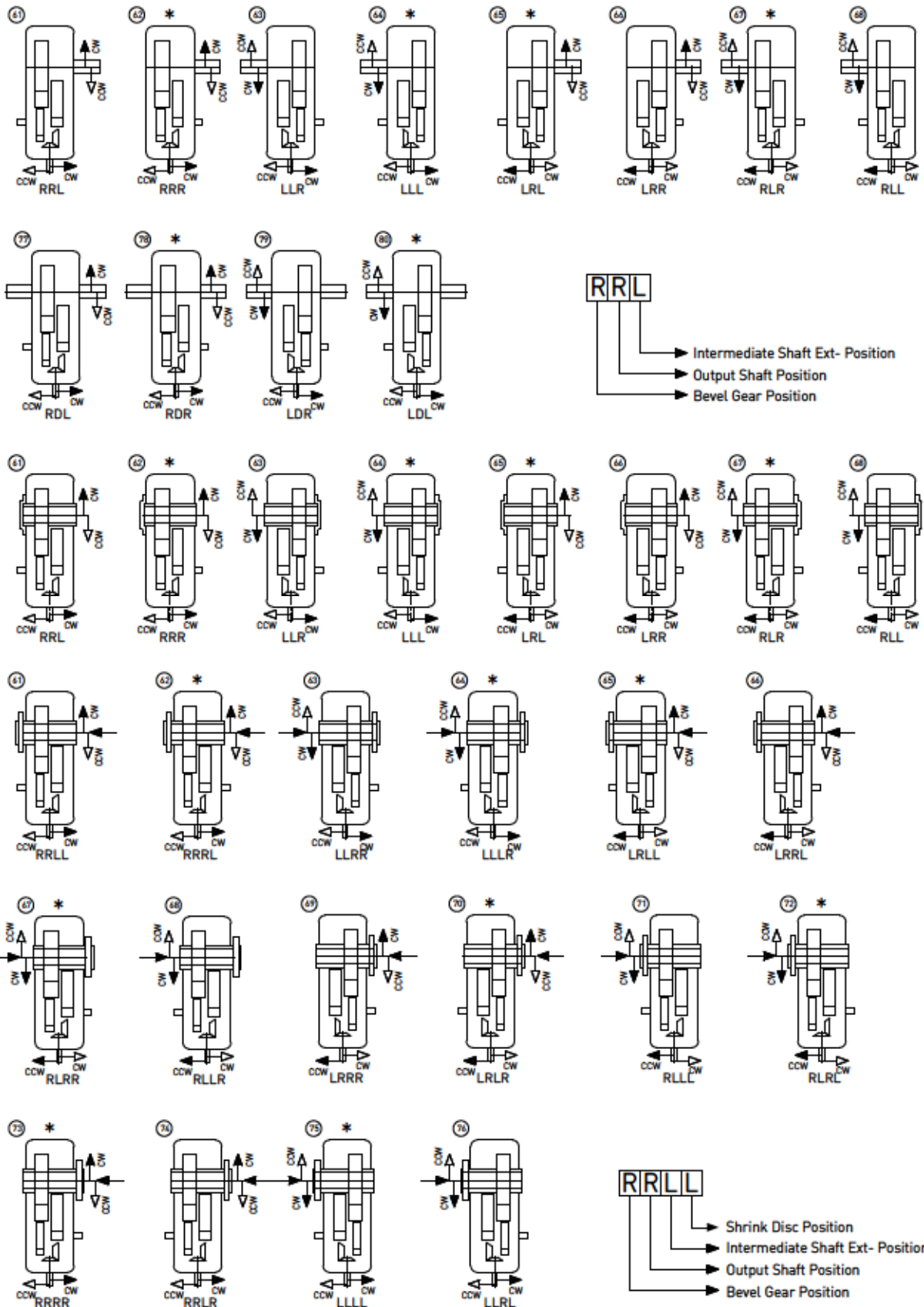
Bevel Helical Gear Unit



Bevel Helical Gear Unit

Shaft Arrangement - Int Ext

Type - B4 Quadruple Stage

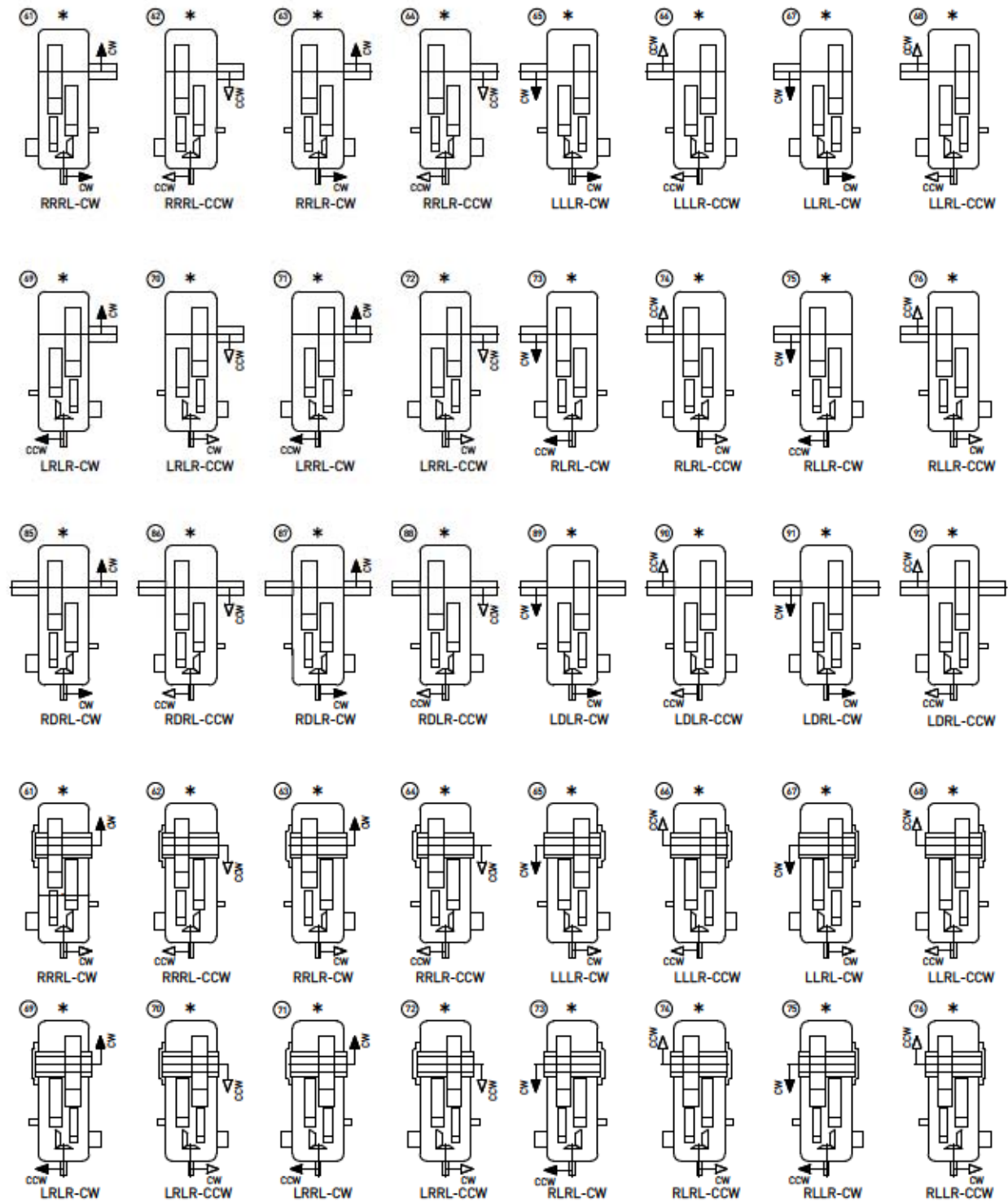


Type - B4

Quadruple Stage

Shaft Arrangement - Int Ext & Hold Back

Bevel Helical Gear Unit



LRLR

- Hold Back Position
- Intermediate Shaft Ext- Position
- Output Shaft Position
- Bevel Gear Position

Bevel Helical Gear Unit

Shaft Arrangement - Int Ext & Hold Back

Type - B4 Quadruple Stage



LRLRR

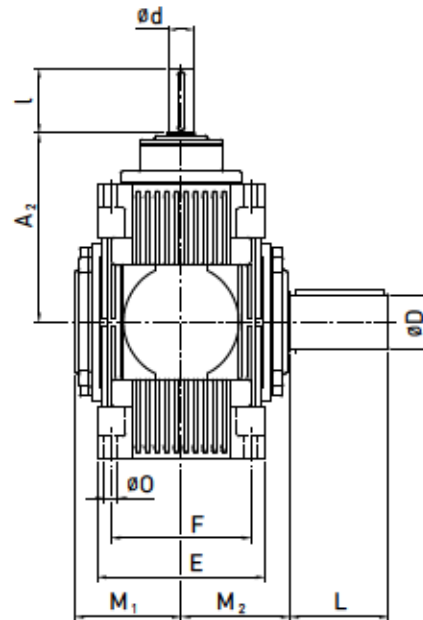
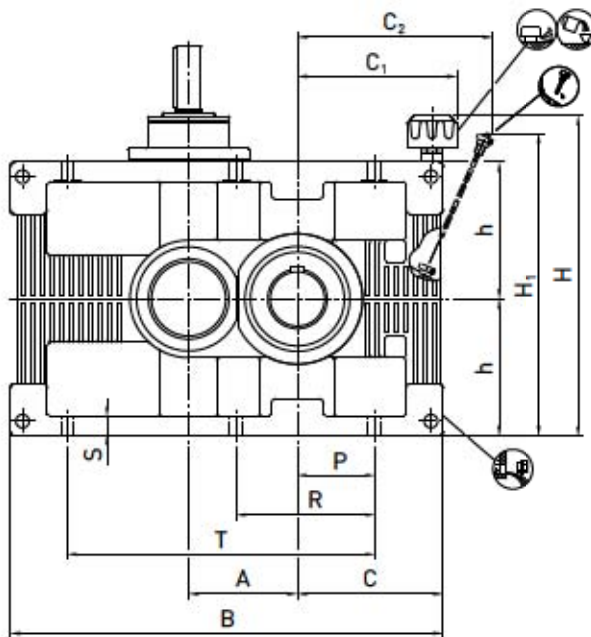
- Shrink Disc Position
- Hold Back Position
- Intermediate Shaft Ext- Position
- Output Shaft Position
- Bevel Gear Position

Type - C2H

Double Stage
Size 11 to 18

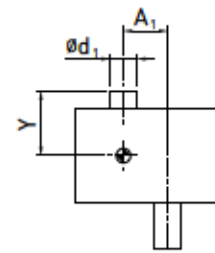
Horizontal Mounting

Compact Drive Gear Units



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				A ₂	Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [Litres]
	d	l	d	l		D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾		
C2..11	19	90	19	90	On Request	32	55	94	105	80	95	180	40	1.5
C2..13	24	100	24	100		45	95	106	115	100	105	190	75	2.5
C2..15	32	110	28	100		55	95	127	135	125	140	255	135	4
C2..17	42	130	38	110		70	135	141	150	160	175	255	250	7
C2..18	48	130	42	130		80	160	158	170	180	190	305	330	9



Size	Foundation														
	A	B	C	C ₁ ²⁾	C ₂ ¹⁾	E	F	h	H ₁ ¹⁾	H ₂ ²⁾	O	P	R	S	T
C2..11	80	356	140	176	171	180	150	100	248	260	14	50	95	24	215
C2..13	100	435	155	192	195	190	150	125	295	330	14	65	120	24	270
C2..15	125	520	182	218	231	228	170	160	352	400	14	95	170	24	355
C2..17	160	640	220	248	282	250	210	200	432	480	18	115	210	32	440
C2..18	180	716	246	273	311	284	230	225	475	530	18	135	240	32	505

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

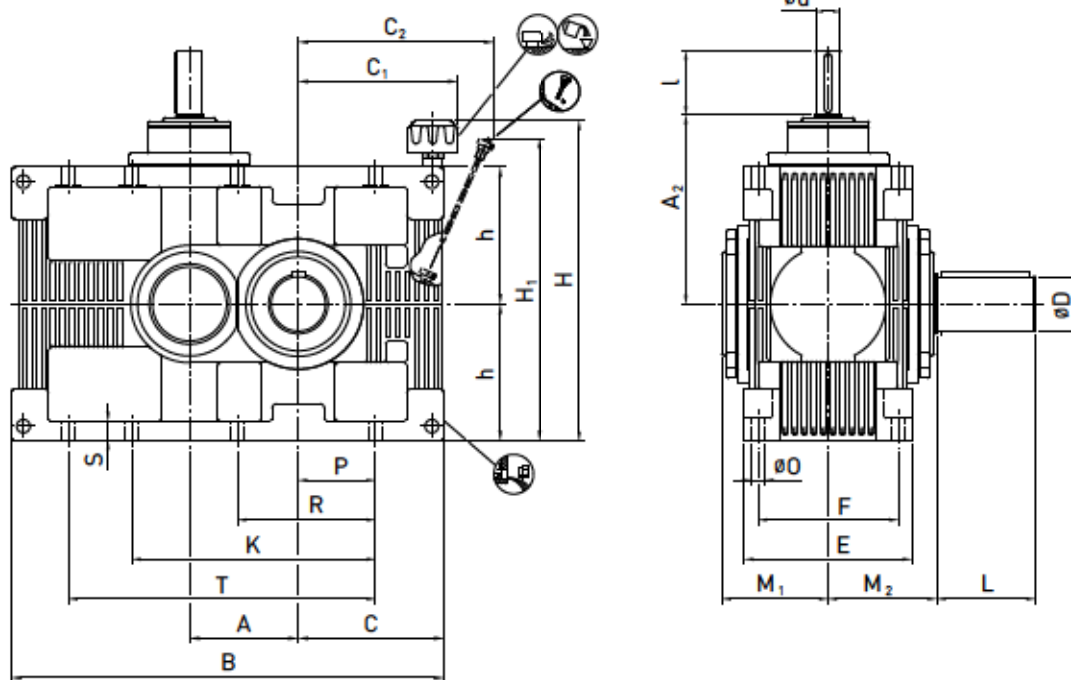
1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

Compact Drive Gear Units
Horizontal Mounting
Type - C2H

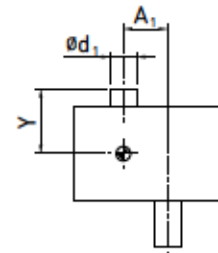
Double Stage

Size 20 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft				A_2	Output Shaft				Backstop			Average Weight [kg]	Oil Quantity [litres]
	d	l	d	l		D	L	M_1	M_2	A_1	$d_1^{1)}$	$Y^{1)}$		
C2..20	58	135	52	135	On Request	100	200	176	200	225	210	305	595	18
C2..21	65	155	65	155		110	200	210	220	250	245	390	795	25
C2..22	70	155	70	155		120	210	220	230	280	290	390	1080	36
C2..23	85	180	80	180		140	250	234	260	315	290	390	1455	51
C2..24	90	180	90	180		160	290	283	295	355	310	470	1960	69
C2..25	100	220	100	220		170	300	293	305	400	310	470	2650	95
C2..26	110	220	110	220		190	350	306	345	450	400	470	3570	130



Size	Foundation													
	A	B	C	$C_1^{2)}$	$C_2^{1)}$	E	F	h	$H_1^{1)}$	$H^{2)}$	K	O	P	R
C2..20	225	893	303	319	387	314	270	280	588	640		23	165	290
C2..21	250	995	335	374	435	385	310	315	664	720		27	180	315
C2..22	280	1095	370	405	474	400	340	355	741	800		27	200	355
C2..23	315	1250	425	442	537	450	380	400	831	890		33	220	405
C2..24	355	1365	465	482	598	515	410	450	908	990		33	245	450
C2..25	400	1505	510	528	670	535	460	500	1013	1090		33	280	510
C2..26	450	1710	580	593	753	600	510	560	1137	1210	940	39	315	575

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

 Tolerance field for Shaft ends ISO fit, up to $\phi 50$ k6; over $\phi 50$ m6.

1) Max. dimensions; details acc. to order related documents

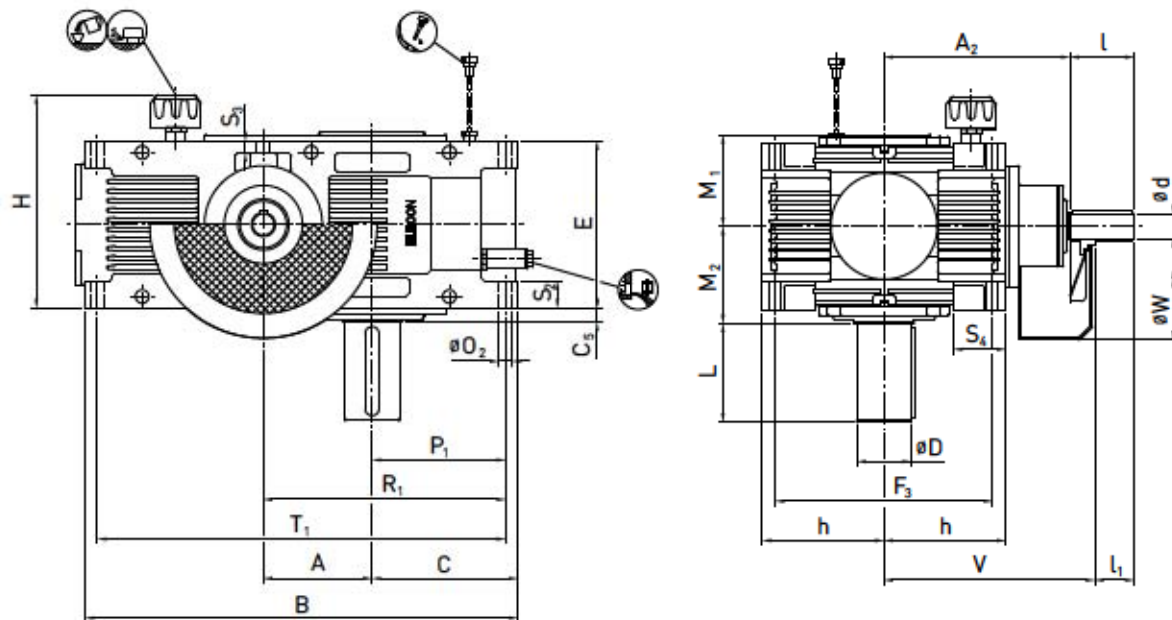
2) Approximate values; exact values acc. to order related documents

Type - C2V

Double Stage
Size 11 to 18

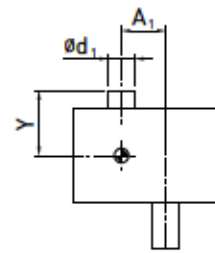
Vertical Mounting

Compact Drive Gear Units



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft						Output Shaft						Backstop				Average Weight [kg]	Oil Quantity [l./bars]
	i = 5-12.5 i = 5.6-14 i = 6.3-16			i = 14-18 i = 16-20 i = 18-22.4														
	d	l	l ₁	d	l	l ₁	A ₂	V	W	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾		
	On Request																	
C2..11	19	90	40	19	90	40	On Request		210	32	55	94	105	80	95	180	40	-
C2..13	24	100	50	24	100	50			270	45	95	106	115	100	105	190	75	-
C2..15	32	110	60	28	100	50			300	55	95	127	135	125	140	255	135	-
C2..17	42	130	80	38	110	60			360	70	135	141	150	160	175	255	250	-
C2..18	48	130	80	42	130	80			360	80	160	158	170	180	190	305	330	-



Size	Foundation														T ₁
	A	B	C	C ₅	E	F ₃	h	H ²⁾	O ₂	P ₁	R ₁	S ₂	S ₃	S ₄	
C2..11	80	356	176	20	180	160	100	225	14	124			14	66	324
C2..13	100	435	192	20	190	210	125	270	14	140			15	66	406
C2..15	125	520	218	21	228	270	160	308	14	165	290	45	15	70	486
C2..17	160	640	248	25	250	350	200	330	18	202	362	40	20	90	604
C2..18	180	716	273	28	284	400	225	364	18	224	404	45	20	90	672

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

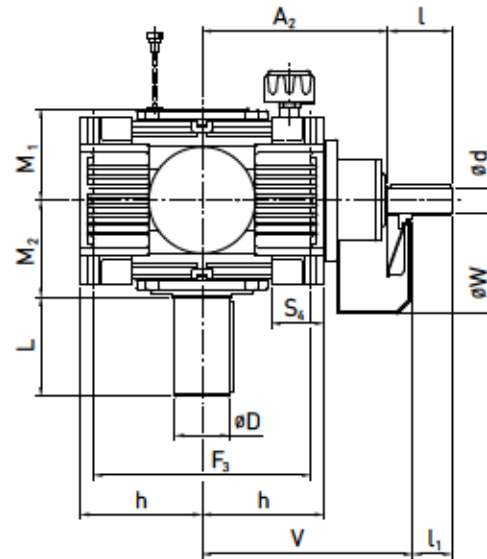
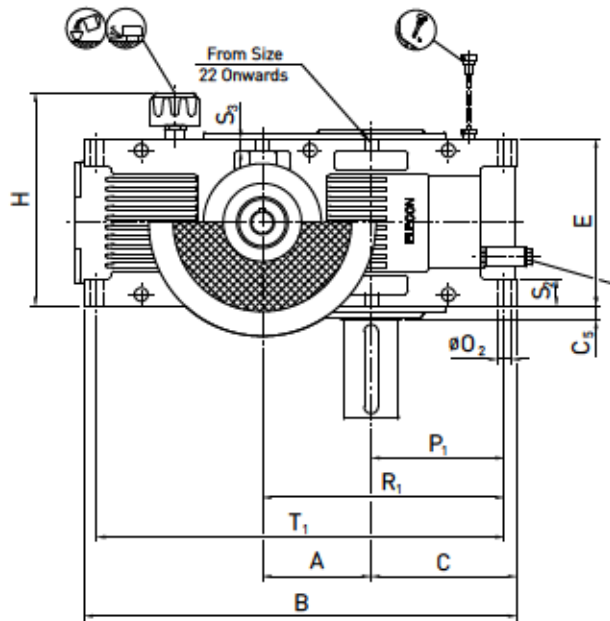
Compact Drive Gear Units

Vertical Mounting

Type - C2V

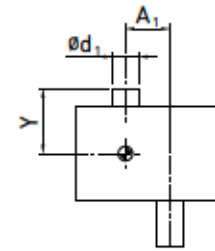
Double Stage

Size 20 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft						Output Shaft								Backstop			Average Weight [kg]	Oil Quantity
	i = 5-12.5			i = 14-18															
	i = 5.6-14			i = 16-20															
	i = 6.3-16			i = 18-22.4															
d	l	l ₁	d	l	l ₁	A ₂	V	W	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾				
C2.20	58	135	85	52	135	85	On Request	460	100	200	176	200	225	210	305	595	-		
C2.21	65	155	105	65	155	105		530	110	200	210	220	250	245	390	795	-		
C2.22	70	155	105	70	155	105		550	120	210	220	230	280	290	390	1080	-		
C2.23	85	180	130	80	180	130		550	140	250	234	260	315	290	390	1455	-		
C2.24	90	180	130	90	180	130		650	160	290	283	295	355	310	470	1960	-		
C2.25	100	220	170	100	220	170		700	170	300	293	305	400	310	470	2650	-		
C2.26	110	220	170	110	220	170		700	190	350	306	345	450	400	470	3570	-		



Size	Foundation														
	A	B	C	C ₅	E	F ₃	h	H ²⁾	O ₂	P ₁	R ₁	S ₂	S ₃	S ₄	T ₁
C2.20	225	893	303	43	314	500	280	394	23	276	501	45	24	105	839
C2.21	250	995	335	27.5	385	570	315	475	27	305	555	65	28	120	935
C2.22	280	1095	370	30	400	640	355	490	27	339	619	60	28	120	1033
C2.23	315	1250	425	35	450	720	400	540	33	386	701	70	35	150	1173
C2.24	355	1365	465	37.5	515	800	450	605	33	426	781	87.5	35	150	1287
C2.25	400	1505	510	37.5	535	900	500	625	33	474	874	80	35	150	1432
C2.26	450	1710	580	45	600	1010	560	700	39	532	982	100	45	175	1614

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

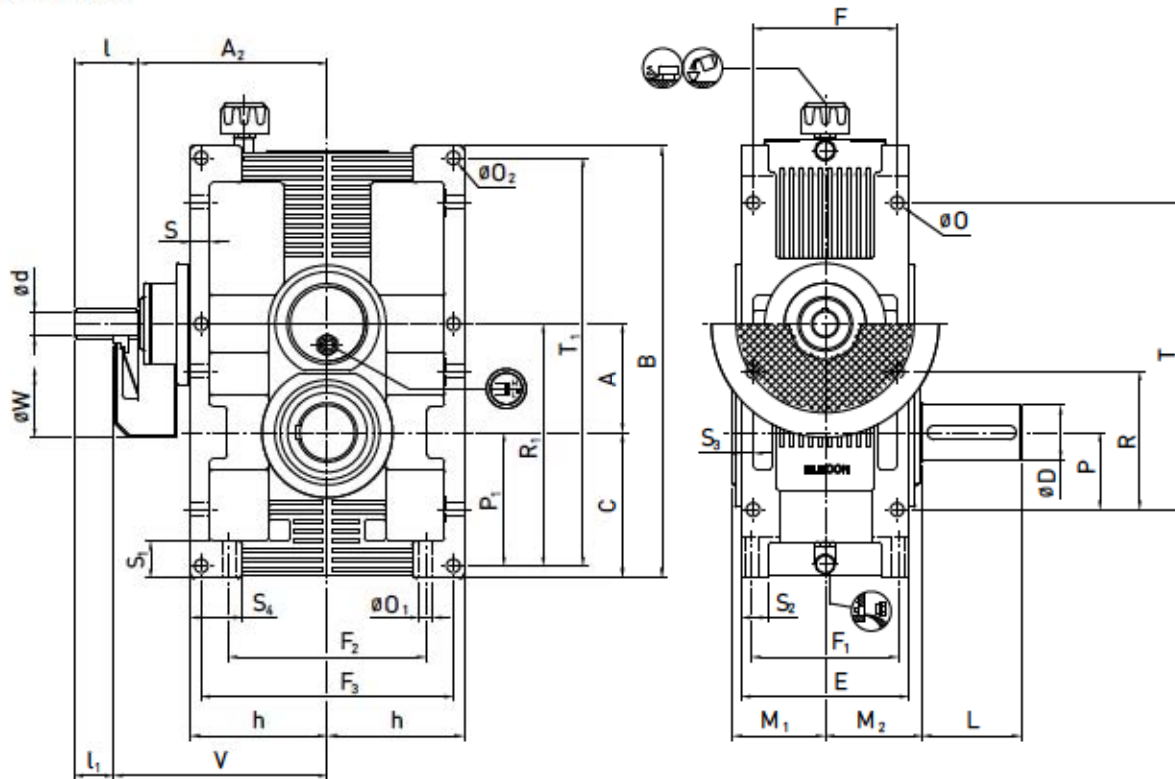
2) Approximate values; exact values acc. to order related documents

Type - C20

Double Stage
Size 11 to 18

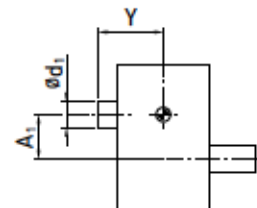
Over Driven

Compact Drive Gear Units



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft						Output Shaft								Backstop			Average Weight [kg]	Oil Quantity [liters]
	i = 5-12.5			i = 14-18															
	i = 5.6-14			i = 16-20															
	i = 6.3-16			i = 18-22.4															
d	l	l ₁	d	l	l ₁	A ₂	V	W	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾				
C2..11	19	90	40	19	90	40	On Request	210	32	55	94	105	80	95	180	40	-		
C2..13	24	100	50	24	100	50		270	45	95	106	115	100	105	190	75	-		
C2..15	32	110	60	28	100	50		300	55	95	127	135	125	140	255	135	-		
C2..17	42	130	80	38	110	60		360	70	135	141	150	160	175	255	250	-		
C2..18	48	130	80	42	130	80		360	80	160	158	170	180	190	305	330	-		



	Foundation																						
Size	A	B	C	E	F	F ₁	F ₂	F ₃	h	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
C2..11	80	356	140	180	150	105	100	160	100	14	14	14	50	124	95		24	50		14	66	215	324
C2..13	100	435	155	190	150	130	150	210	125	14	14	14	65	140	120		24	50		15	66	270	406
C2..15	125	520	182	228	170	170	210	270	160	14	14	14	95	165	170	290	24	52	45	15	70	355	486
C2..17	160	640	220	250	210	210	260	350	200	18	18	18	115	202	210	362	32	60	40	20	90	440	604
C2..18	180	716	246	284	230	230	310	400	225	18	18	18	135	224	240	404	32	66	45	20	90	505	672

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents

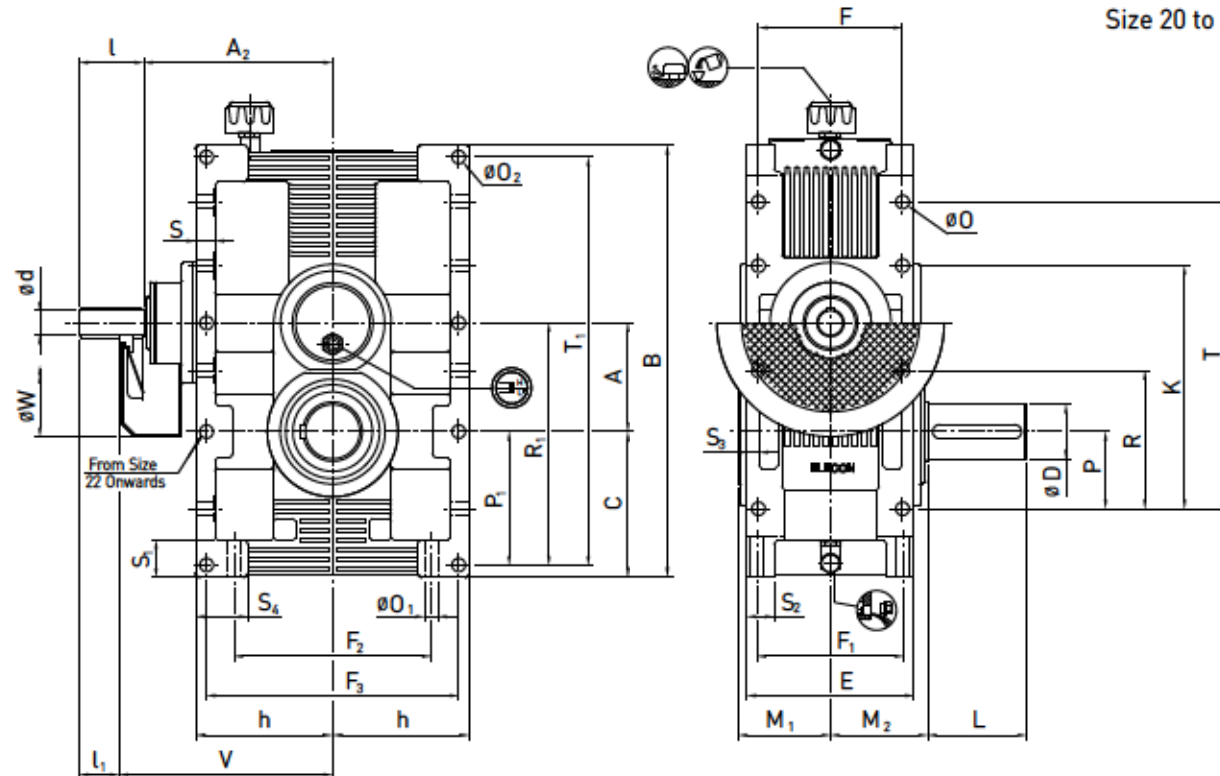
Compact Drive Gear Units

Over Driven

Type - C20

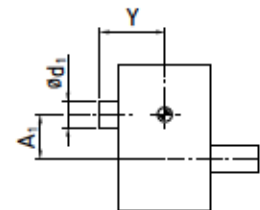
Double Stage

Size 20 to 26



*For other shaft options refer page 125, 126 & 129 to 131

Size	Input Shaft						Output Shaft							Backstop			Average Weight [kg]	Oil Quantity [l./min.]
	i = 5-12.5			i = 14-18														
	i = 5.6-14			i = 16-20														
	i = 6.3-16			i = 18-22.4														
d	l	l ₁	d	l	l ₁	A ₂	V	W	D	L	M ₁	M ₂	A ₁	d ₁ ¹⁾	Y ¹⁾			
C2..20	58	135	85	52	135	85	On Request	460	100	200	176	200	225	210	305	595	-	
C2..21	65	155	105	65	155	105		530	110	200	210	220	250	245	390	795	-	
C2..22	70	155	105	70	155	105		550	120	210	220	230	280	290	390	1080	-	
C2..23	85	180	130	80	180	130		550	140	250	234	260	315	290	390	1455	-	
C2..24	90	180	130	90	180	130		650	160	290	283	295	355	310	470	1960	-	
C2..25	100	220	170	100	220	170		700	170	300	293	305	400	310	470	2650	-	
C2..26	110	220	170	110	220	170		700	190	350	306	345	450	400	470	3570	-	



Size	Foundation																							
	A	B	C	E	F	F ₁	F ₂	F ₃	h	K	O	O ₁	O ₂	P	P ₁	R	R ₁	S	S ₁	S ₂	S ₃	S ₄	T	T ₁
C2..20	225	893	303	314	270	270	400	500	280		23	23	23	165	276	290	501	36	78	45	24	105	635	839
C2..21	250	995	335	385	310	310	440	570	315		27	27	27	180	305	315	555	45	85	65	28	120	705	935
C2..22	280	1095	370	400	340	340	520	640	355		27	27	27	200	339	355	619	45	90	60	28	120	785	1033
C2..23	315	1250	425	450	380	380	570	720	400		33	33	33	220	386	405	701	55	110	70	35	150	875	1173
C2..24	355	1365	465	515	410	410	670	800	450		33	33	33	245	426	450	781	55	110	87.5	35	150	975	1287
C2..25	400	1505	510	535	460	460	770	900	500		33	33	33	280	474	510	874	55	110	80	35	150	1105	1432
C2..26	450	1710	580	600	510	510	850	1010	560	940	39	39	39	315	532	575	982	65	130	100	45	175	1245	1614

Modification of dimensions reserved.

Shaft ends with keys according to DIN 6885, Part 1, Shape A.

Shaft centering according to DIN 332, Shape DS (with thread)

Tolerance field for Shaft ends ISO fit, up to Ø50 k6; over Ø50 m6.

1) Max. dimensions; details acc. to order related documents

2) Approximate values; exact values acc. to order related documents