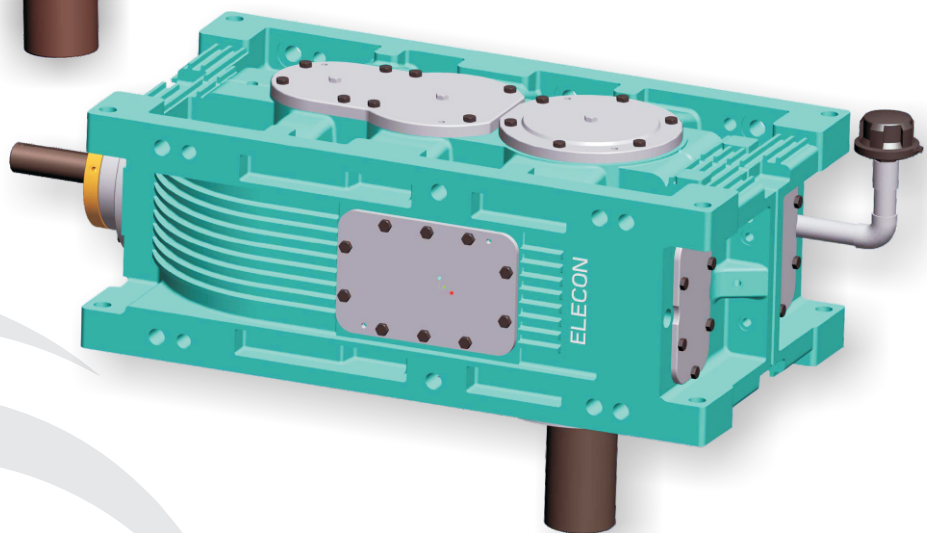
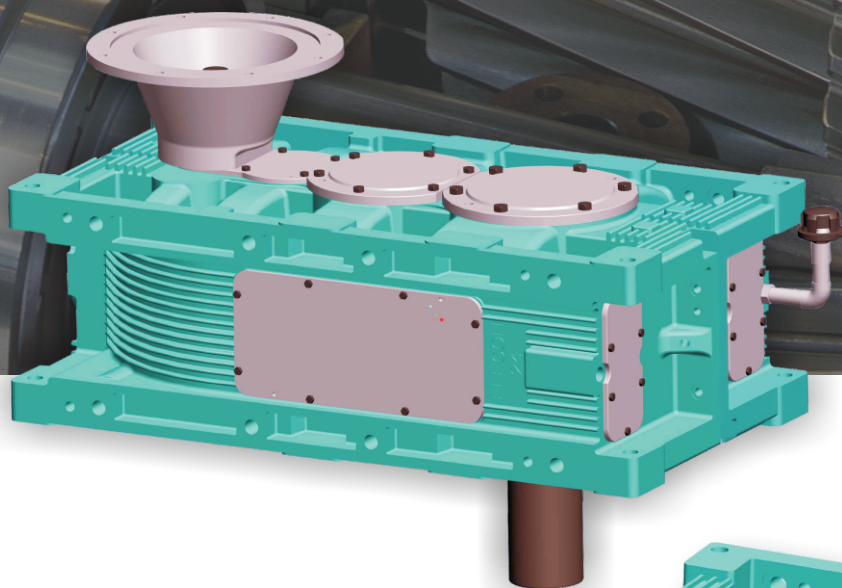
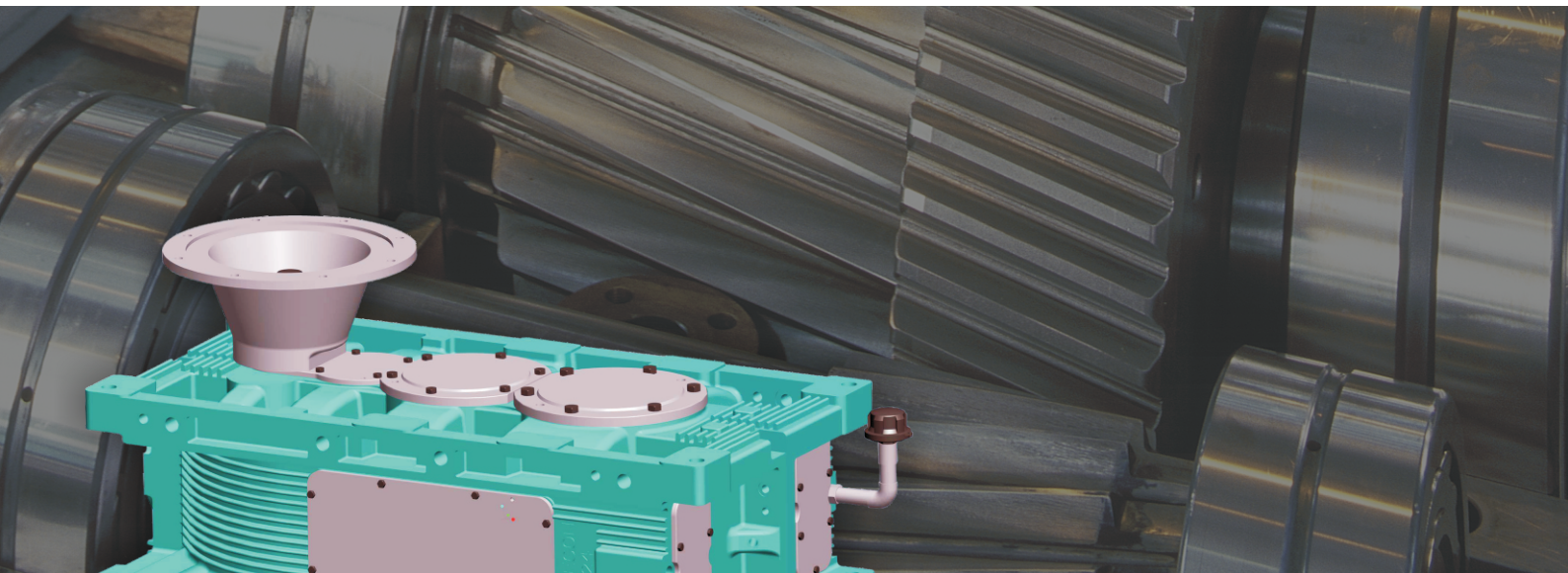


ELECON Vertical Gear Box



Elecon Vertical Gearboxes for Agitator, Mixer, Aerator Drives :

ELECON “AH3” and “AB3” Series Gearboxes are of triple reduction Helical Parallel Shaft and Bevel Helical Right Angle Shaft with special design features suitable for all Vertical Applications. The series covering sizes from 19 to 26 with ratio range of 20 : 1 to 100 : 1. Gearboxes are designed specially suitable for Vertical Drives with essential features like **dry well arrangement, extra heavy capacity output shaft bearings to take care of external load etc.** Helical Gearbox are supplied with suitable motor mounting adaptors, flexible coupling on input and rigid coupling on output (optional) corresponding to specific requirements.

ELECON Gear units for Agitators / Mixers / Aerators :

Description

Agitators/Mixers are used in chemical, pharmaceutical, cosmetic, and food processing applications. The diversity of the application requirements and the media employed necessitate customized plant designs.

The gear unit is normally vertically mounted to the agitator/mixer tank. In addition to transmitting torque, it also absorbs the axial and radial loads that occur as a result of the application's specification. ELECON gear units for agitator/mixer drives have a standard/reinforced output shaft and rolling-contact bearings for this purpose.

For heavy-duty agitator/mixer, the axial loads are very heavy, in this case, ELECON can supply vertical gear unit solutions with an additional thrust bearing.

Technical data

Types	Helical and bevel helical gear unit
Sizes	19 to 26
Gear stages	3-stages
Power ratings	up to 700 kW
Transmission ratios	$i = 20$ to 112
Nominal torques	up to 111,000 Nm
Mounting positions	Vertical

Advantages :

- High operational reliability
- Standard / Reinforced bearings
- Optional, for heavy duty application with additional thrust bearing
- Customized versions possible, special flange on the output side for mounting to the agitator
- Extra-strong output shaft
- Output bearing arrangement with additional, bidirectional thrust bearings

Applications :

Chemical, pharmaceutical, cosmetic, and food processing industries

SALIENT FEATURE

Case :

Split grey cast iron casing is of rigid construction with necessary reinforcements.

Helical / Bevel Gears :

Helical and Spiral Bevel gears are manufactured from high quality alloy case- hardening steel. Helical gears are grounded on CNC Profile Grinding Machine to precision grade accuracy. Spiral Bevel Gears are of Hard Cut type suitable for low noise operations. All Gears are of Case Carburised and Hardened with surface hardness of RC 60 +/- 2.

Output Shaft :

High Strength Carbon Steel material is used for output shaft. The cylindrical seats for bearings, wheel, seal, coupling are finished by precision grinding. These are also designed to accommodate external overhung loads and stresses, as appropriate. Single lip oil seals are provided on plunge ground surfaces to arrest oil leakage and dust entry. Specific requirement towards flange fitment dimensions must be addressed during placement of order.

Lubrication :

For lubrication of Top Bearings and Gear meshing, various options are available such as Oil Expansion Tank, Shaft Mounted Pump or Motor Driven Pump. The bottom output bearing placed within the drywell and grease lubricated. Other bottom bearings and gear meshing are immersed in sump oil.

Optional Feature :

Rigid coupling on output extension may be provided with suitable flange dimensions as per customer's specific requirement.

External load Capacity (Table 1)

Bending Moment Capacity (kNm) Allowable Bending Moment at Output Shaft lower bearing limited by BEARING LIFE (10,000 Hrs L10)								
Heavy Duty Stirrer Drives								
Output RPM	AB3..19	AB3..20	AB3..21	AB3..22	AB3..23	AB3..24	AB3..25	AB3..26
315	9.6	11.3	14	14.1	26	42.3	41.5	72
200	12.8	16	19.6	21.5	36.5	58.2	60	102
125	16.5	21.5	26	30.8	48.5	77	84	135
80	20.2	27.6	33.5	40	62.1	97.5	110	174
50	25	34	42.5	51	78.5	120.1	138	220
<=31.5	30	42	52.5	65	97	148.5	171	275

Permissible Overhung Loads on Low Speed Shafts (KN) For heavy Duty Stirrer Drives for 10,000 hrs bearing life.								
Out put Speed in RPM	AB3..19	AB3..20	AB3..21	AB3..22	AB3..23	AB3..24	AB3..25	AB3..26
315	27.9	29.2	33.3	30	50	75.4	65	101
200	36.2	40	46.2	45	69.5	101	93	138
125	45	51.5	59	61	88	128	126	188
80	55.5	65	76	80	113	162	164	238
50	69.3	82.2	97	105	144	203	213	305
<=31.5	87.5	104	124.5	131	180	253	268	376

Bearing Life factors					
	Required Life (Hours)				
	5000	10000	25000	50000	100000
Factor	1.21	1	0.75	0.6	0.5

Vertical Gearbox SELECTION PROCEDURE

1.0 Selection from mechanical rating :

1.1 Gearbox ratio = $\frac{\text{Input speed}}{\text{output speed}}$

1.2 Model ratings as listed in rating chart correspond to maximum mechanical capacities at 1500 rpm / 1000 rpm input against respective ratios.

1.3 Service power rating = $\frac{\text{Mechanical Rating (from table)}}{\text{service factor *}}$

(* minimum service factor of 2.0 is recommended)

2.0 Check for thermal rating :

2.1 Thermal ratings are given for gearboxes without additional cooling and with additional cooling such as Fan and Cooling coil.

2.2 Determine the thermal service factor from Table 2.

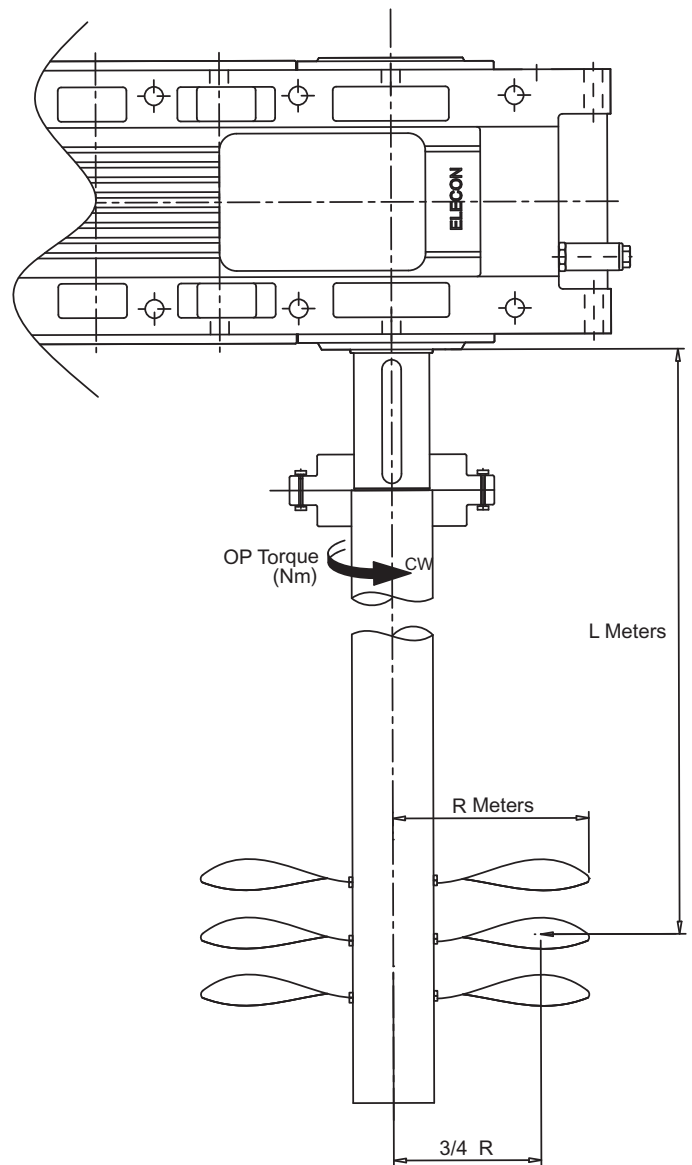
2.3 Calculate the required thermal power capacity (Pt), when Pt = $\frac{\text{absorbed power}}{\text{thermal service factor}}$

2.4 Check the model selected mechanically under clause 1.0 which should have a thermal rating (as tabled) equaling/exceeding the required capacity Pt. If not, go for the next higher size.

3.0 Check for bending moment :

3.1 Calculate the actual bending moment experienced by the gearbox output shaft where, Bending moment (kNm) = $\frac{\text{absorbed power (kW)} \times 9.5 \times L \text{ (m)}}{\text{shaft speed} \times 0.75 R \text{ (m)}}$

3.2 Check the bending moment value calculated under clause 3.1 against the capacity limited by shaft stress (ref. Table 1). The actual value should be within the table figure to make the unit suitable for supporting a paddle directly coupled to the gearbox output shaft and for accepting the bending moment generated thereby.



Thermal Service Factor (Table 2)
(Gearboxes Without Additional Cooling)

Ambient Temperature oC	Running Time in Any Hour				
	100%	80%	60%	40%	20%
10	1.12	1.34	1.57	1.79	2.05
20	1	1.2	1.4	1.6	1.8
30	0.88	1.06	1.23	1.41	1.58
40	0.75	0.9	1.05	1.2	1.35
50	0.63	0.76	0.88	1.01	1.13

Approximate Weight & oil Capacity (Helical Gear Box)		
Unit Size	Net Wt. (Kg.)	Oil Qty. (litre)
AH3..19	480	-
AH3..20	655	-
AH3..21	870	-
AH3..22	1160	-
AH3..23	1565	-
AH3..24	2095	-
AH3..25	2855	-
AH3..26	3790	-

Approximate Weight & oil Capacity (Bevel Helical Gear Box)		
Unit Size	Net Wt. (Kg.)	Oil Qty. (litre)
AB3..19	515	-
AB3..20	690	-
AB3..21	930	-
AB3..22	1250	-
AB3..23	1695	-
AB3..24	2285	-
AB3..25	3085	-
AB3..26	4140	-

RECOMMENDED LUBRICANT ISO VG 320	
Brand	Grade
Balmer Lawrie	Protomac SP
Bharat Petroleum	Amocam 320
Castrol	Alpha SP
Gulf	Harmony HD
Hindustan	Parthan 320
Petroleum	Servomesh
Veedol	Apreslube

AH series vertical Gear Boxes Triple Reduction helical Gear Box

MECHANICAL RATINGS (kW)

Nominal Ratio	Inout speed rpm	Nominal Output rpm	Gear Unit Size (Helical Gear Box)							
			AH3..19	AH3..20	AH3..21	AH3..22	AH3..23	AH3..24	AH3..25	AH3..26
20	1500	75			181			481		
	1000	50			123			363		
22.4	1500	67			163			438		
	1000	44.6			114			331		
25	1500	60	78	104	150	208	257	413	563	754*
	1000	40	53	71	104	143	171	319	394	506
28	1500	53.6	70	94	131	181	231	388	506	680*
	1000	35.7	48	68	90	128	154	288	356	454
31.5	1500	47.6	60	89	119	163	205	363	481	601*
	1000	31.7	41	59	79	109	137	250	319	401
35.5	1500	43.3	58	77	109	154	185	350	431	543
	1000	28.2	38	52	73	103	124	231	288	362
40	1500	37.5	54	70	98	136	166	300	388	484
	1000	25	35	47	65	91	111	206	256	323
45	1500	33.3	45	63	86	122	149	275	344	436
	1000	22.2	31	42	58	82	100	188	225	291
50	1500	30	40	56	78	112	130	250	306	380
	1000	20	28	37	54	75	87	169	206	254
56	1500	26.8	35	49	69	99	117	219	275	339
	1000	17.9	24	34	48	66	78	150	181	226
63	750	13.4	19	26	35	50	59	114	138	169
	1500	23.8	30	44	59	82	105	188	244	306
71	1000	15.9	20	30	39	54	70	131	163	204
	1500	21.1	26	40	52	73	99	169	219	270
80	1000	14.1	18	27	35	49	66	115	144	180
	1500	18.8	24	36	45	69	88	150	194	258
90	1000	12.5	16	24	30	43	59	103	125	172
	1500	16.7	21	32		58	79		175	230
100	1000	11.1	14	22		39	53		115	153
	1500	15	21	28		55	71		168	207
112	1000	10	14	19		37	47		112	138
	1500	13.4	19	26		48	62		144	183
112	1000	8.9	12	17		32	41		94	122

* Requires forced feed lubrication.

THERMAL RATINGS (kW)

Nominal Ratio	Input Speed	Gear Unit Size (Helical Gear Box)							
		AH3..19	AH3..20	AH3..21	AH3..22	AH3..23	AH3..24	AH3..25	AH3..26
		Thermal Capacity P1 (kW) for gear unit WithOut Cooling							
20 to 35.5	1500	99	112	141	187	248	248	285	340
	1000	88	104	137	177	231	244	265	320
40 to 112	1500	94	109	128	175	229	300	328	335
	1000	83	99	127	168	208	307	310	327
		Thermal Capacity P2 (kW) for gear unit With Fan Cooling							
20 to 35.5	1500	161	183	230	279	393	369	440	540
	1000	143	170	225	264	366	363	418	478
40 to 112	1500	162	182	215	275	367	402	425	506
	1000	151	173	221	265	330	385	405	481
		Thermal Capacity P3 (kW) for gear unit With Cooling Coil							
20 to 112	1500	187	208	266	313	422	402	450	550
	1000	167	193	260	297	393	396	435	540
		Thermal Capacity P4 (kW) for gear unit With Fan and Cooling Coil							
20 to 112	1500	278	312	395	483	659	631	700	834
	1000	247	289	386	458	614	622	650	815

AB series vertical Gear Boxes Triple Reduction Bevel Helical Gear Box

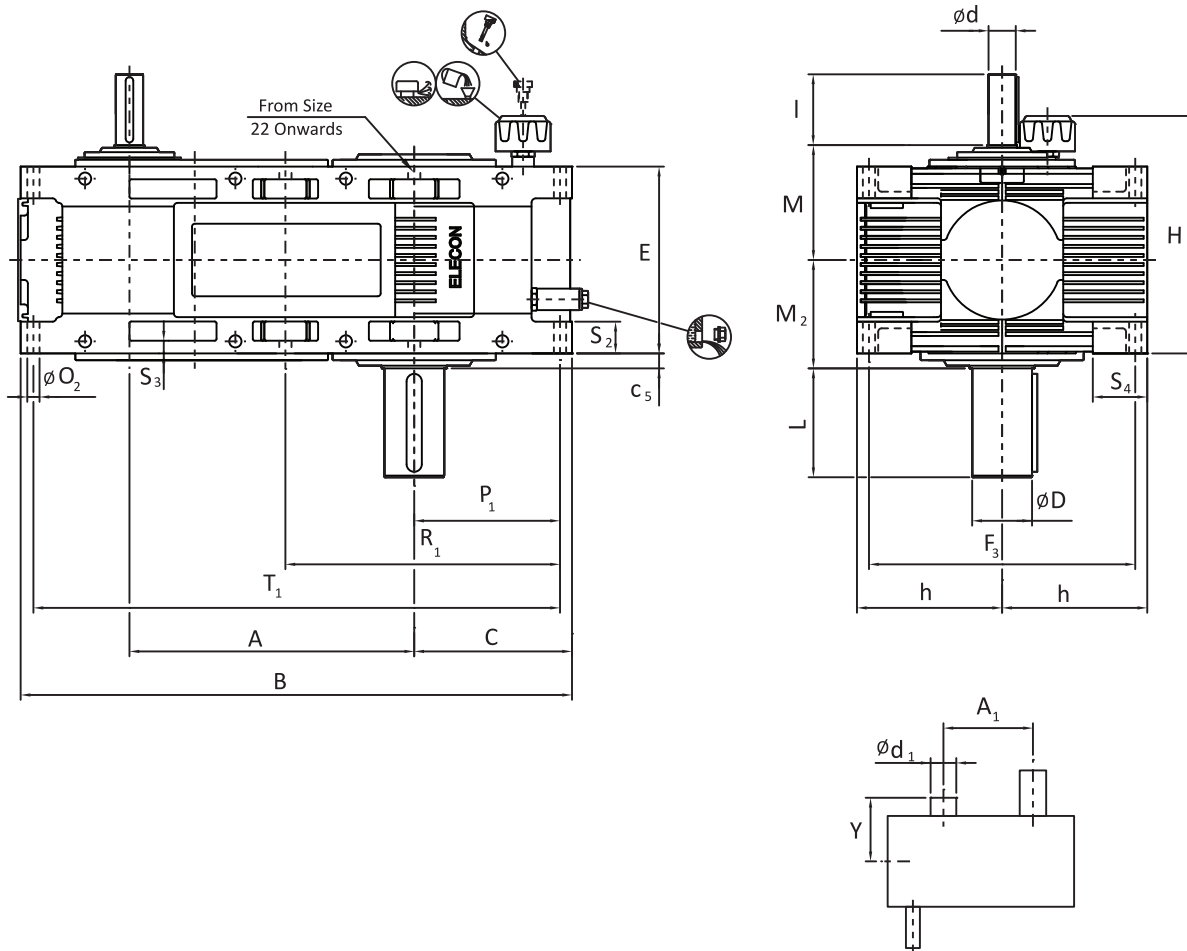
MACHANICAL RATINGS (kW)

Nominal Ration	Inout speed rpm	Nominal Output rpm	Gear Unit Size (Bevel Helical Gear Box)							
			AB3..19	AB3..20	AB3..21	AB3..22	AB3..23	AB3..24	AB3..25	AB3..26
20	1500	75			169			538*		
	1000	50			119			394		
22.4	1500	66.96	81		163	219*		500*	638*	
	1000	44.64	60		113	163		363	450	
25	1500	60	78	104	144	200*	259*	438*	563	701
	1000	40	53	69	100	138	173	319	394	468*
28	1500	53.57	60	93	115	175*	233*	400	506*	625*
	1000	35.71	43	62	83	118	115	281	356	420*
31.5	1500	47.62	55	86	106	150*	209*	363	481*	564*
	1000	31.75	39	58	74	104	140	250	319	277*
35.5	1500	43.25	50	74	96	138	186*	325	431	500*
	1000	28.17	35	49	66	94	124	225	288	340*
40	1500	37.5	45	65	86	123	162	294	388	450*
	1000	25	31	43	59	84	120	200	269	330
45	1500	33.33	41	63	80	113	146	269	344	400*
	1000	22.22	28	41	53	75	97	181	225	265
50	1500	30	38	53	71	100	130	244	306	360*
	1000	20	25	36	48	68	87	163	206	240
56	1500	26.79	33	47	63	89	117	219	275	320
	1000	17.86	23	31	43	61	78	144	181	215
63	1500	23.81	29	44	55	79	105	188	244	285
	1000	15.87	21	30	38	54	70	131	163	190
71	1500	21.13	26	37	50	70	93	169	219	250
	1000	14.08	18	25	34	46	62	101	144	166
80	1500	18.75	24	32		69	81		200	218
	1000	12.5	17	22		46	54		135	146
90	1500	16.67	22	33		58	73		176	197
	1000	11.11	15	21		36	49		117	131
100	1500	15		26			63			174
	1000	10		16			39			106

* Requires forced feed lubrication.

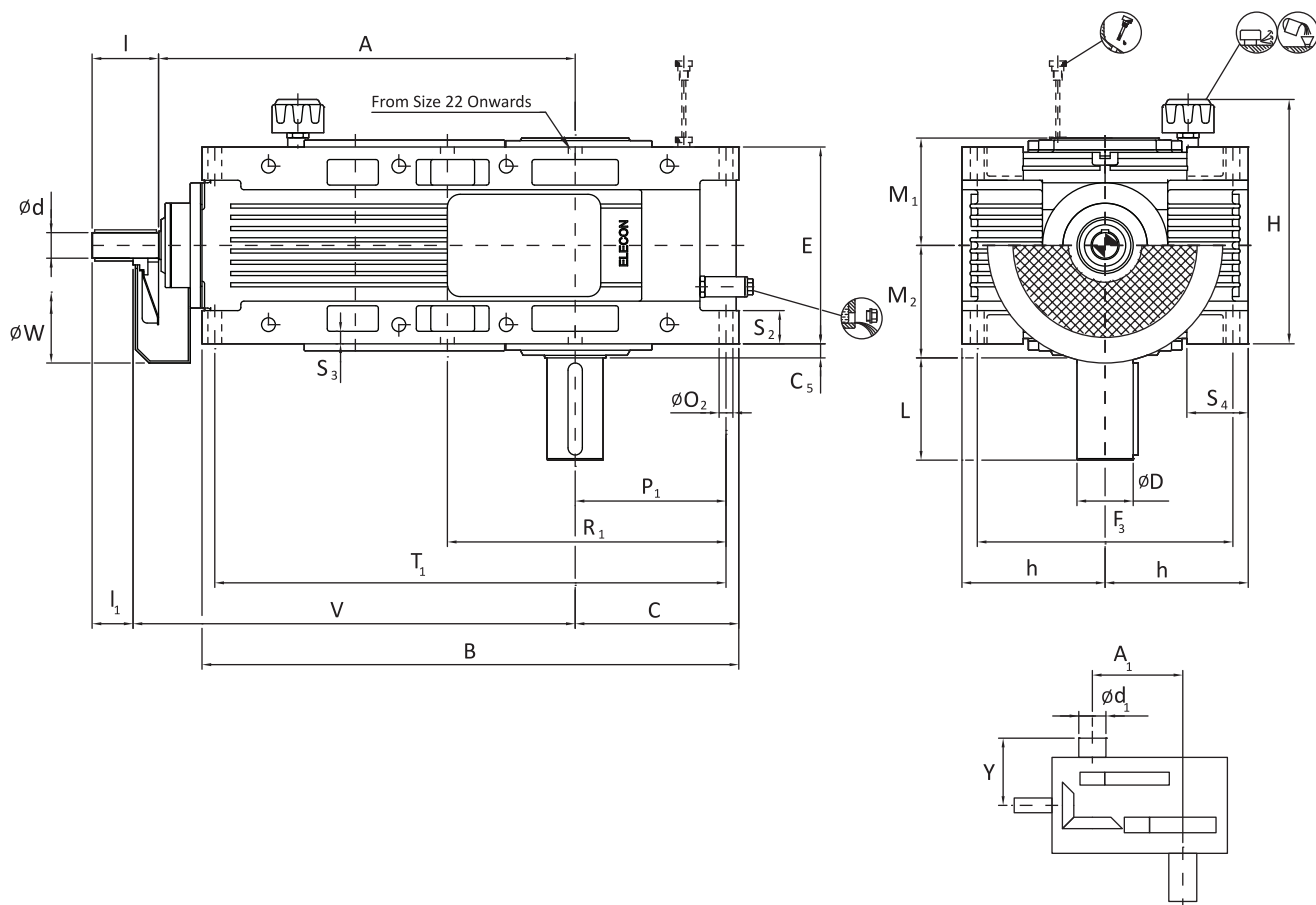
THERMAL RATINGS (Kw)

Nominal Ratio	Input Speed	Gear Unit Size [Bevel Helical Gear Box]							
		AB3..19	AB3..20	AB3..21	AB3..22	AB3..23	AB3..24	AB3..25	AB3..26
		Thermal Capacity P1 (kW) for gear unit WithOut Cooling							
20 to 35.5	1500	81	106	128	166	195	254	315	330
	1000	75	95	125	150	166	239	280	295
40 to 100	1500	75	87	120	154	159	239	285	300
	1000	71	78	118	144	150	226	260	277
		Thermal Capacity P2 (kW) for gear unit With Fan Cooling							
20 to 35.5	1500	183	237	269	360	425	542	617	672
	1000	169	213	263	325	363	510	586	601
40 to 100	1500	175	208	265	319	325	488	600	620
	1000	163	174	244	300	290	438	538	580
		Thermal Capacity P3 (kW) for gear unit With Cooling Coil							
20 to 100	1500	207	261	310	391	368	461	500	584
	1000	200	235	300	375	324	445	475	522
		Thermal Capacity P4 (kW) for gear unit With Fan and Cooling Coil							
20 to 100	1500	339	435	509	660	711	905	1111	1141
	1000	320	391	495	611	614	860	1055	1021



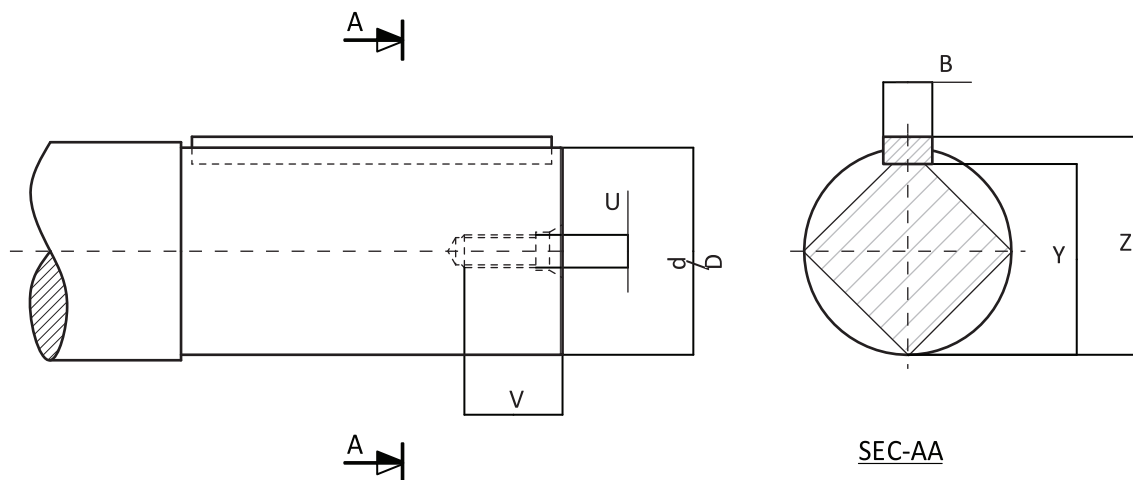
SIZE	Input Shaft						M	Output Shaft			Backstop		
	i = 25-50		i = 56-80										
	i = 25-63		i = 71-100		i-112								
	i = 25-71		i = 80-100										
	d	l	d	l	d	l		D	L	M2	A1	d1	Y
AH3..19	35	110	30	110	25	100	190	90	165	205	340	150	265
AH3..20	45	130	35	110	25	100	195	100	200	230	385	150	265
AH3..21	50	130	40	130			240	110	200	250	430	190	340
AH3..22	55	135	45	130	35	110	250	120	210	265	480	190	340
AH3..23	60	155	50	130	40	130	270	140	250	300	540	190	340
AH3..24	70	155	55	135			325	160	290	340	605	245	440
AH3..25	75	155	60	155	50	130	335	170	300	355	680	245	440
AH3..26	85	180	70	155	70	155	350	190	350	400	765	245	440

SIZE	Foundation														
	A	B	C	C5	E	F3	h	H	O2	P1	R1	S2	S3	S4	T1
AH3..19	440	885	265	28.5	303	400	225	383	23	240	440	48.5	22	105	836
AH3..20	495	987	288	43	314	440	250	394	23	262	487	45	24	105	935
AH3..21	555	1098	320	27.5	385	500	280	475	27	295	545	65	28	120	1045
AH3..22	620	1220	355	30	400	560	315	490	27	325	605	60	28	120	1160
AH3..23	700	1377	405	35	450	630	355	540	33	370	685	70	35	150	1305
AH3..24	785	1520	435	37.5	515	700	400	605	33	398	753	87.5	35	150	1443
AH3..25	880	1690	475	37.5	535	800	450	625	33	436	836	80	35	150	1612
AH3..26	990	1920	540	45	600	890	500	700	39	495	945	100	45	175	1830



SIZE	Input Shaft														
	i = 20-50			i = 56-71											
	i = 22.4-63			i = 71-90											
	i = 25-71			i = 80-100											
d	l	l1	d	l	l1	V	W	D	L	M1	M2	A1	d1	Y	
AB3..19	38	110	60	32	110	60	705	360	90	165	171	205	340	150	265
AB3..20	42	130	80	38	110	60	790	400	100	200	176	230	385	150	265
AB3..21	48	130	80	42	130	80	885	460	110	200	210	250	430	190	340
AB3..22	52	130	80	48	130	80	970	530	120	210	220	265	480	190	340
AB3..23	58	135	85	52	130	80	1095	550	140	250	234	300	540	190	340
AB3..24	65	155	105	65	155	105	1215	600	160	290	283	340	605	245	440
AB3..25	70	155	105	70	155	105	1350	650	170	300	293	355	680	245	440
AB3..26	85	180	130	80	180	130	1500	700	190	350	306	400	765	245	440

SIZE	Foundation														
	A	B	C	C5	E	F3	h	H	O2	P1	R1	S2	S3	S4	T1
AB3..19	660	850	265	28.5	303	400	225	383	23	240	440	48.5	22	105	800
AB3..20	745	945	288	43	314	440	250	394	23	262	487	45	24	105	893
AB3..21	835	1050	320	27.5	385	500	280	475	27	295	545	65	28	120	1000
AB3..22	920	1170	355	30	400	560	315	490	27	325	605	60	28	120	1110
AB3..23	1035	1335	405	35	450	630	355	540	33	370	685	70	35	150	1265
AB3..24	1145	1465	435	37.5	515	700	400	605	33	398	753	87.5	35	150	1391
AB3..25	1275	1605	475	37.5	535	800	450	625	33	436	836	80	35	150	1528
AB3..26	1425	1820	540	45	600	890	500	700	39	495	945	100	45	175	1730



d / D	B	Y	Z	tol. On Z	U	V
19	6	15.5	21.5	-0.1	M6	16
20	6	16.5	22.5		M6	16
24	8	20	27		M8	19
25	8	21	28		M10	22
28	8	24	31		M10	22
30	8	26	33		M10	22
32	10	27	35		M12	28
35	10	30	38		M12	28
38	10	33	41		M12	28
40	12	35	43		M16	36
42	12	37	45		M16	36
45	14	39.5	48.5		M16	36
48	14	42.5	51.5		M16	36
50	14	44.5	53.5		M16	36
52	16	46	56		M20	42
55	16	49	59		M20	42
58	16	52	62	-0.2	M20	42
60	18	53	64		M20	42
65	18	58	69		M20	42
70	20	62.5	74.5		M20	42
75	20	67.5	79.5		M20	42
80	22	71	85		M20	42
85	22	76	90		M20	42
90	25	81	95		M24	50
95	25	86	100		M24	50
100	28	90	106		M24	50
105	28	95	111		M24	50
110	28	100	116		M24	50
115	32	104	122		M24	50
120	32	109	127		M24	50
130	32	119	137		M24	50
140	36	128	148	-0.3	M30	60
145	36	133	153		M30	60
160	40	147	169		M30	60
170	40	157	179		M36	80
190	45	175	200		M36	80

d / D	tol. field	tol.
19 - 30	k6	+0.015
		+0.002
32 - 50	k6	+0.018
		+0.002
52 - 80	m6	+0.030
		+0.011
85 - 120	m6	+0.035
		+0.013
140 - 180	m6	+0.040
		+0.015
190 - 250	m6	+0.046
		+0.017

B	tol. field	tol.
3 - 6	h9	0
		-0.030
8 - 10		0
		-0.036
12 - 18		0
		-0.043
20 - 28		0
		-0.052
32 - 50		0
		-0.062

Exact Ratio

Type	Nominal Ratio	Units Size (Helical Gear Box)							
		AH3..19	AH3..20	AH3..21	AH3..22	AB3..23	AB3..24	AB3..25	AB3..26
AH3	25	25.32	24.14	24.87	25.26	26.13	24.64	25.17	26.13
	28	29.18	27.03	27.79	28.63	29.41	27.45	28.52	28.96
	31.5	32.82	30.94	30.63	31.81	33.09	30.59	31.73	32.82
	35.5	34.71	35.42	35.44	35.71	36.62	34.42	36.08	36.36
	40	40	38.9	37.79	40.47	40.81	38.51	40.89	40.81
	45	45	43.56	47.64	44.97	45.46	42.91	45.49	45.24
	50	49	48.75	48.18	49	52.11	48.29	49.83	51.95
	56	46.47	40.83	54.9	55.53	58.06	52.71	56.47	58.31
	63	63.53	59.94	60.49	61.7	64.68	60.31	62.82	64.63
	71	70.59	68.82	70	69.41	68.41	67.2	70.59	73.24
	80	80	75.57	75.95	80	77.24	75.63	80	76.68
	90	90	84.63	-	88.89	86.07	-	89	86.07
	100	100	96.86	-	100	95.88	-	100	95.41
	112	110.59	105.94	-	113.75	110.32	-	110.59	108.1

Exact Ratio

Type	Nominal Ratio	Units Size (Bevel Helical Gear Box)							
		AB3..19	AB3..20	AB3..21	AB3..22	AB3..23	AB3..24	AB3..25	AB3..26
AB3	25	25.07	26.31	23.8	24.76	26.13	24.58	24.79	25.94
	28	27.86	29.47	27.22	27.86	29.11	27.53	27.86	29.11
	31.5	31.69	33.73	31.5	30.81	32.43	30.98	32.04	32.27
	35.5	36	36.92	34.18	35.56	36.49	35.29	35.6	36.57
	40	40	42.31	37.92	40	41.8	38.34	40	41.8
	45	45.5	48.43	43.88	44.24	46.57	43.15	46	46.34
	50	50.14	53.02	47.6	49.52	52.39	49.16	49.59	52.51
	56	55.71	58.94	54.44	55.71	58.23	55.06	55.71	58.23
	63	63.38	67.46	63	61.61	64.86	61.96	64.07	64.55
	71	72	73.85	68.35	71.11	72.97	70.59	71.2	73.14
	80	80	84.63	-	80.22	83.61	-	80	83.61
	90	91	96.86	-	88.47	93.14	-	92	92.68
	100	-	106.04	-	-	104.78	-	-	105.02

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