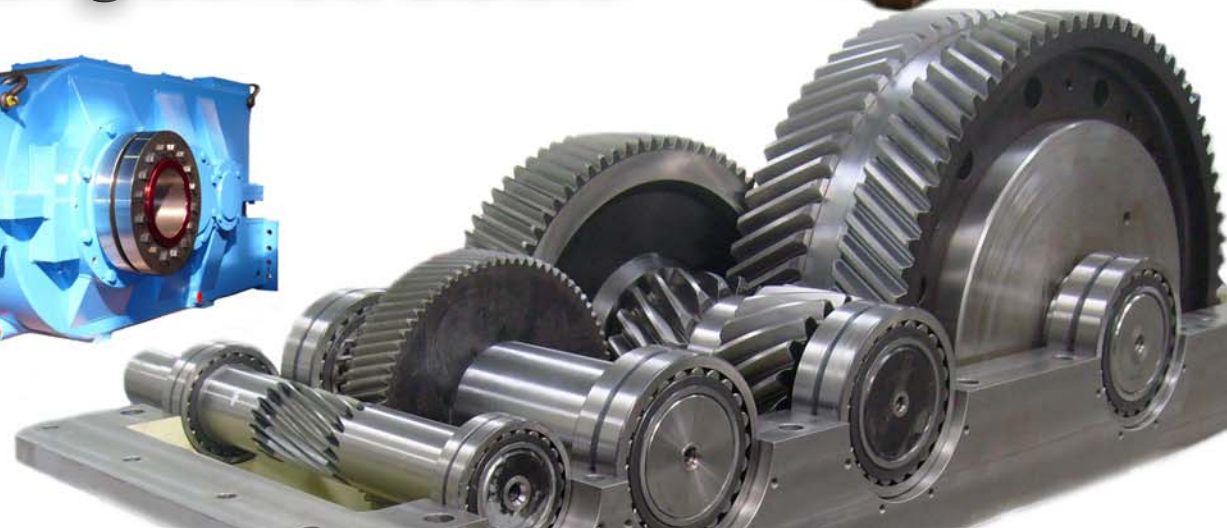
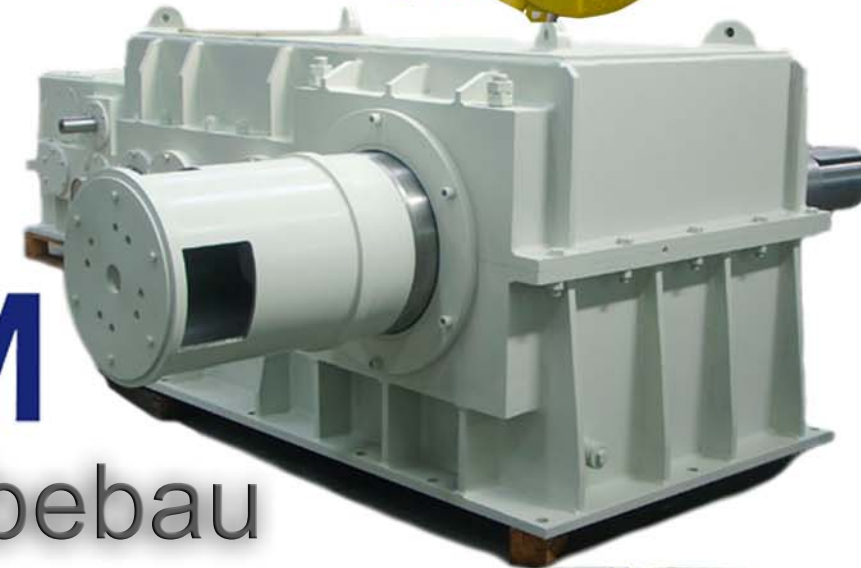
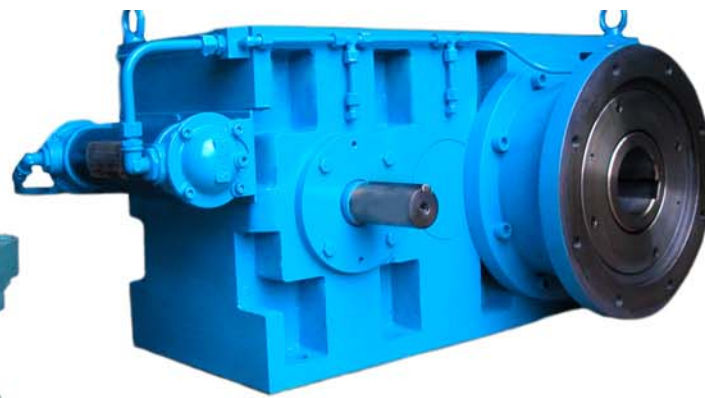




ALFORM

Sondergetriebebau

Seit 1981 produzieren und entwickeln wir auf einer Gesamtfläche von 8.500 m² das passende Getriebe für Ihre industrielle Anwendung. Wir liefern Sondergetriebe bis zu einem Drehmoment von 10.000.000 Nm. Ihre Anforderungen für Ihre Getriebe werden von unseren Ingenieuren präzise in die Tat umgesetzt. Um einen möglichst geräuscharmen Betrieb zu gewährleisten, werden die Zahnflanken mit neusten Maschinen geschliffen. Dank unserem langjährigen Know-How im Verzahnen und den neusten Zahnflankenfräs-, Schleif- und Verzahnungsmessmaschinen ist eine Verzahnungsqualität bis 4 nach DIN 3965 serienmäßig realisier- und dokumentierbar. Sämtliche Getriebeprüfungen werden durchgeführt und die Prüfbelege dem Kunden ausgehändigt. Die Gehäuse werden je nach Anforderung als Schweiß- oder Gussteil gefertigt.

Wärmebehandlung und Beschichtung:

Erforderliche Wärmebehandlungen wie Einsatzhärten, Langzeit/ Kurzzeit-Gasnitrieren, Plasmanitrieren, Teniferbehandlung, Induktivhärten oder Vergüten lassen wir von spezialisierten ISO 16949 zertifizierten Partnern ausführen. Induktivhärten erfolgt im Hause.

Getriebearten:

Stirradgetriebe mit parallelen Wellen
Leistungsbereich 1 - 5.000 KW

Windradgetriebe
Leistungsbereich 1 - 2.500 KW

Kegelradgetriebe
Leistungsbereich 1 - 5.000 KW

Planetengetriebe
Leistungsbereich 1 - 2.500 KW

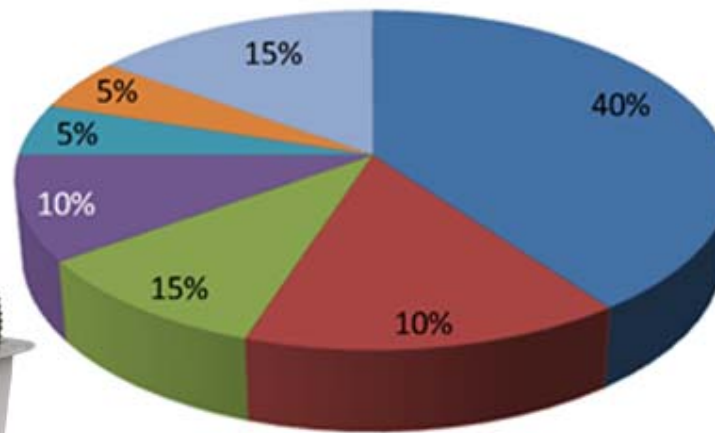
Schneckengetriebe
Leistungsbereich 0,1 - 110 KW



Zahnradproduktion:

bis Ø 2.500 mm Modul 32
Zahnbreite bis 1000 mm

Anwendungsbereiche unserer kundenspezifischen Sondergetriebe:



- EISEN-, STAHL-, ALUMINIUM-, KUPFERWALZWERKE
- KRANBAU
- ZEMENTWERKE
- PETROCHEMISCHE INDUSTRIE
- WINDENERGIE
- DÜNGEMITTELHERSTELLUNG
- ANDERE BEREICHE (SCHIFFSBAU, PAPIER, KERAMIK, VERPACKUNG)

Desweiteren bieten wir Kupplungen im Drehmomentbereich 10 bis 10.000.000 Nm und Bohrungsdurchmesser bis 1.020 mm. Wir sorgen mit unseren mechanischen ALFORM Wellenkupplungen auch für die sichere Verbindung Ihrer Maschinenwellen in nahezu allen Bereichen der Schwerindustrie. Die hochqualitativen Industriekupplungen sind für den Einsatz in vielen Applikationen u.a. für die oben genannten Anwendungsbereiche geeignet. Auch als individuell angepasste Lösung überzeugen sie durch höchste Produktqualität und höchste Lebensdauer. Mit unterschiedlichsten Bauarten, meist Maßanfertigungen, bieten wir eine große Palette für nahezu alle Anwendungen. Unseren ausführlichen Kupplungskatalog fragen Sie bitte gesondert an.



HÖFLER
RAPID 1250



ZAHNFLANKEN FRÄSEN + SCHLEIFEN

ZAHNFLANKEN FRÄSEN + SCHLEIFEN + MESSEN IN DER SELBEN MASCHINE

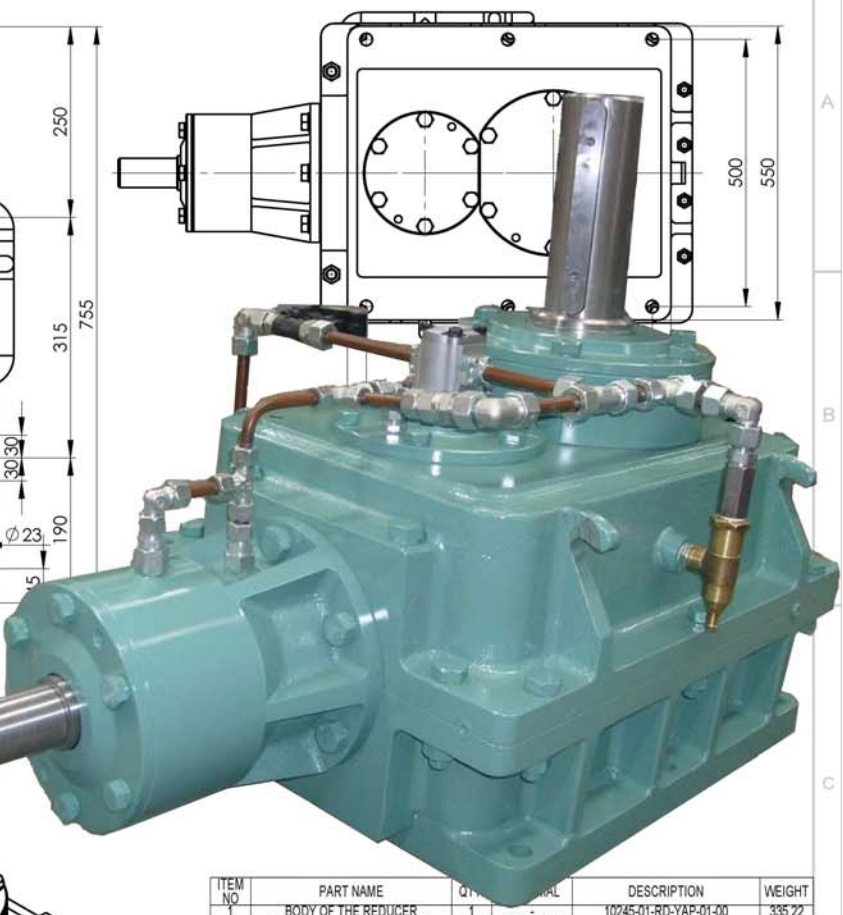
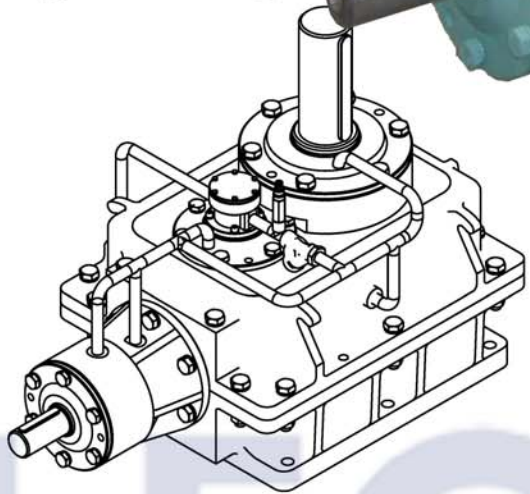
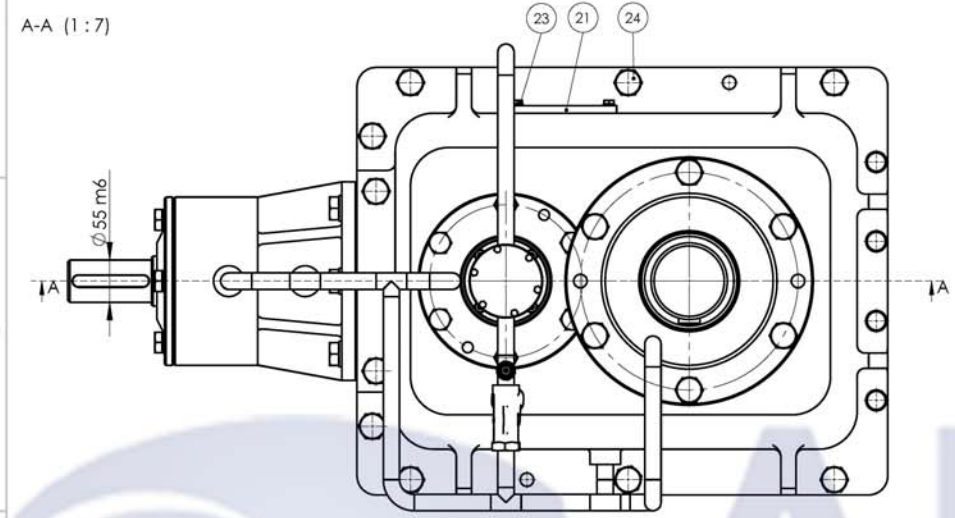
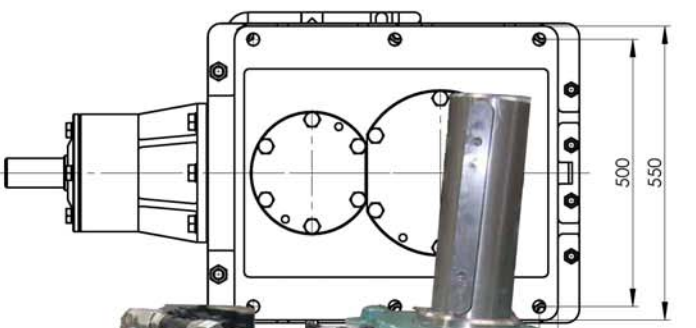
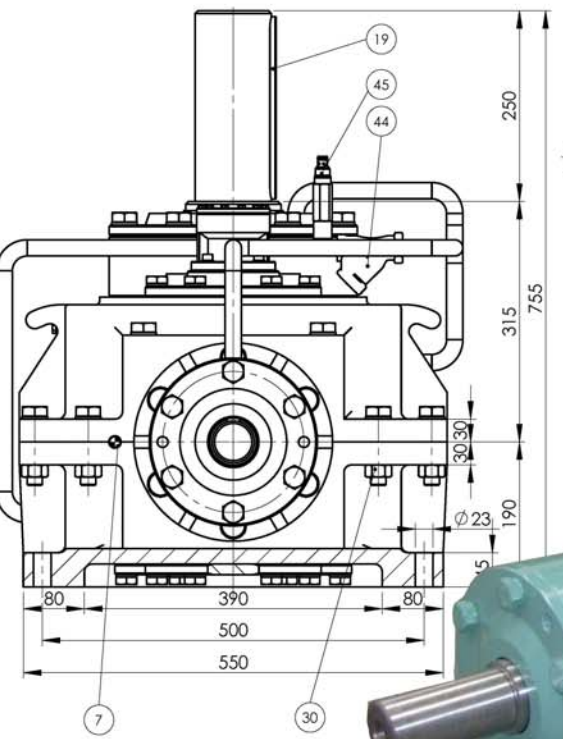
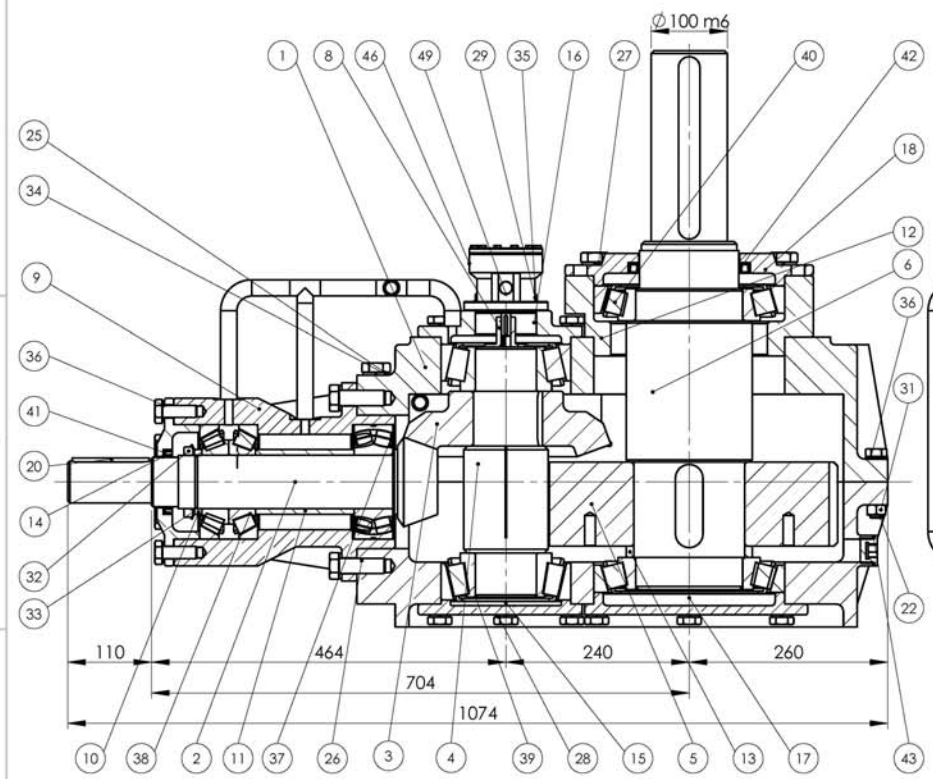
Dank der neuesten Höflermaschine Rapid 1250 ist es uns möglich, die Zahnräder nach dem Fräsen und Schleifen direkt auch zu vermessen. So erreichen wir höchste und dokumentierbare Genauigkeit und ist eine Verzahnungsqualität regelmässig 4-5 nach DIN 3965 realisierbar. Unter bestimmten Voraussetzungen können wir eine noch bessere Qualität liefern.

Desweiteren können in der selben Maschine die Innenzahnkränze schräggefärs und geschliffen werden, so dass im Innendurchmesserbereich $\varnothing$ 250 mm-1.200 mm eine Verzahnungsqualität bis 4 nach DIN 3965 erreicht wird.



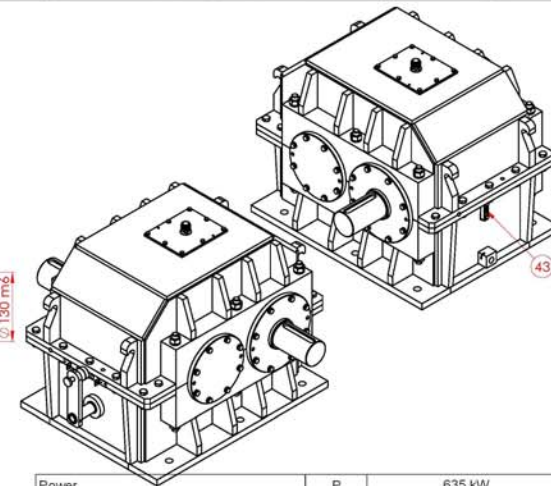
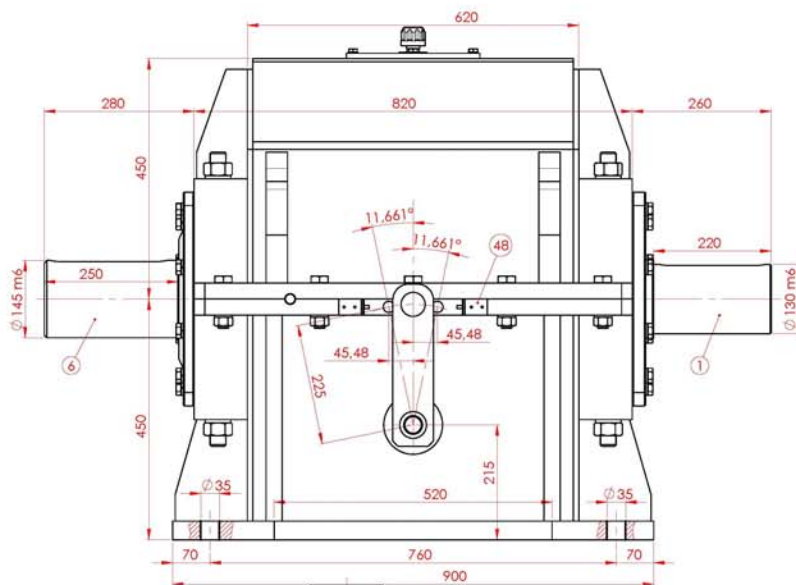
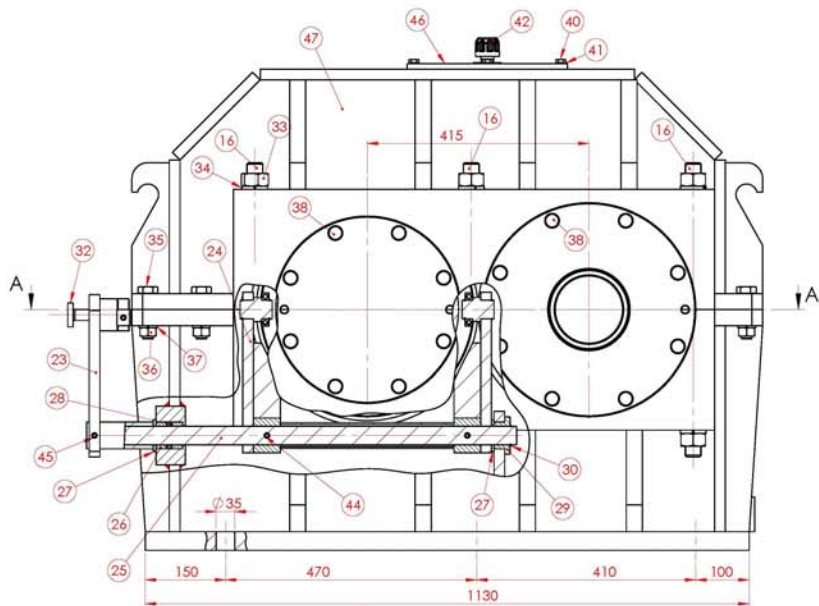
ZAHNFLANKEN MESSEN



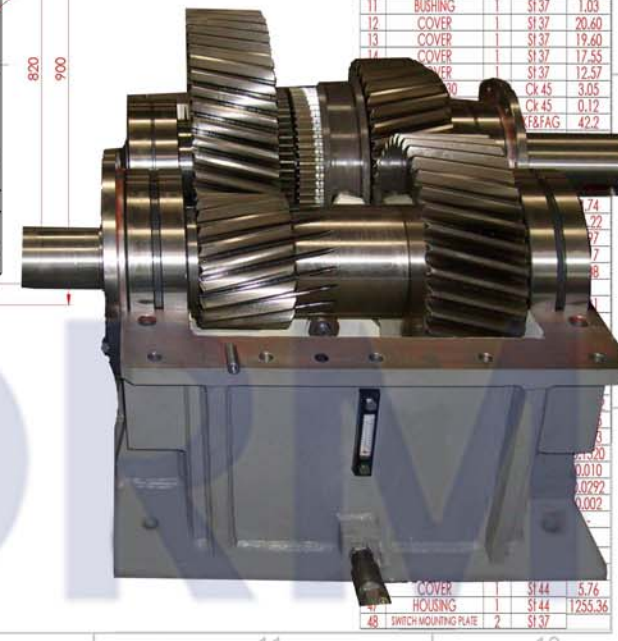
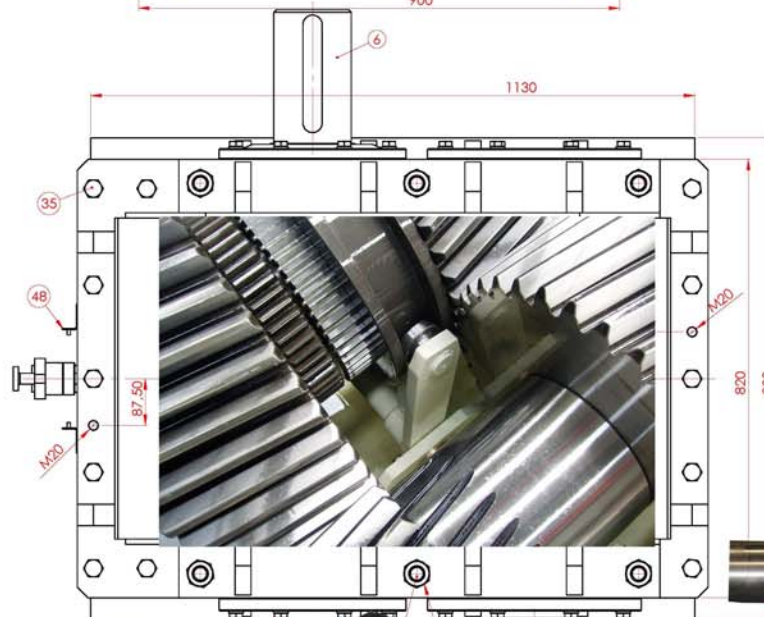
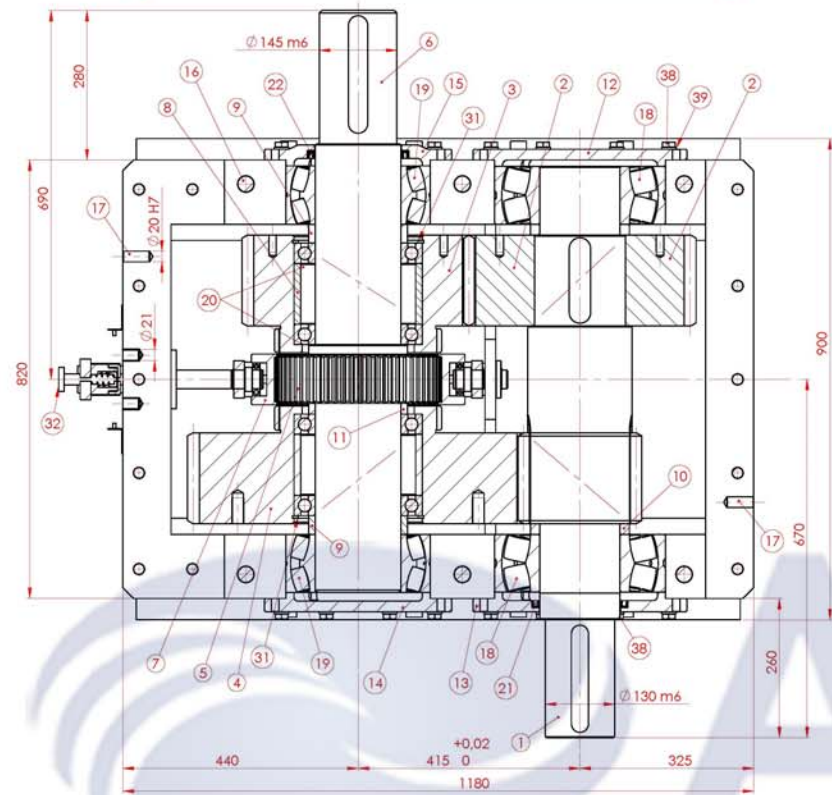


ITEM NO	PART NAME	QTY	UNIT	DESCRIPTION	WEIGHT
1	BODY OF THE REDUCER	1	170Nmm68	1045-01-80-YAP-01-00	335.22
2	SPIRAL BEVEL GEAR (PINION)	1	170Nmm68	1045-01-80-YAP-02-00	19.89
3	SPIRAL BEVEL GEAR (GEARWHEEL)	1	170Nmm68	1045-01-80-YAP-03-00	19.89
4	2-STAGE PINION	1	170Nmm68	1045-01-80-YAP-04-00	86.33
5	2-STAGE GEAR	1	170Nmm68	1045-01-80-YAP-05-00	77.76
6	OUTPUT SHAFT	1	AISI 4140	1045-01-80-YAP-06-00	0.46
7	THE PUMP COUPLING	2	OK 45	1045-01-80-YAP-07-00	38.32
8	SIDE BEARING HOUSING	2	GG-22	1045-01-80-YAP-08-00	0.14
9	BEARING HOUSING	2	OK 45	1045-01-80-YAP-09-00	21.72
10	COVER	1	FE 31/2	1045-01-80-YAP-10-00	2.43
11	COVER	1	FE 31/2	1045-01-80-YAP-11-00	2.43
12	COVER	1	FE 31/2	1045-01-80-YAP-12-00	2.43
13	COVER	1	FE 31/2	1045-01-80-YAP-13-00	2.43
14	COVER	1	FE 31/2	1045-01-80-YAP-14-00	2.43
15	COVER	1	FE 31/2	1045-01-80-YAP-15-00	2.43
16	COVER	1	FE 31/2	1045-01-80-YAP-16-00	2.43
17	COVER	1	FE 31/2	1045-01-80-YAP-17-00	2.43
18	COVER	1	FE 31/2	1045-01-80-YAP-18-00	2.43
19	KEYWAY 28x16	1	OK 45	1045-01-80-YAP-19-00	0.081
20	KEYWAY 16x10	1	OK 45	1045-01-80-YAP-20-00	0.17
21	BODY COVER	1	FE 31/2	1045-01-80-YAP-21-00	0.162
22	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-22-00	0.0002
23	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-23-00	0.0002
24	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-24-00	0.0002
25	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-25-00	0.0002
26	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-26-00	0.0002
27	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-27-00	0.0002
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29	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-29-00	0.0002
30	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-30-00	0.0002
31	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-31-00	0.0002
32	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-32-00	0.0002
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35	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-35-00	0.0002
36	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-36-00	0.0002
37	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-37-00	0.0002
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42	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-42-00	0.0002
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100	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-100-00	0.0002

POWER	215	kW
INPUT SPEED	1500	d/d
INPUT TORQUE	1369	Nm
OUTPUT SPEED	150	d/d
RATIO	1:10	-
NOM. OUTPUT TORQUE	13698	Nm
FACTOR OF SERVICE	1.5	-
MAX. OUTPUT TORQUE	20532.5	Nm
OIL TYPE	VG 320	-

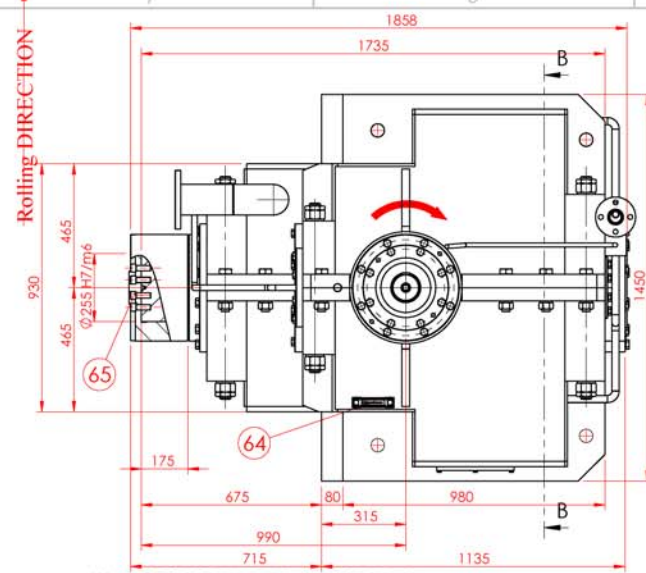
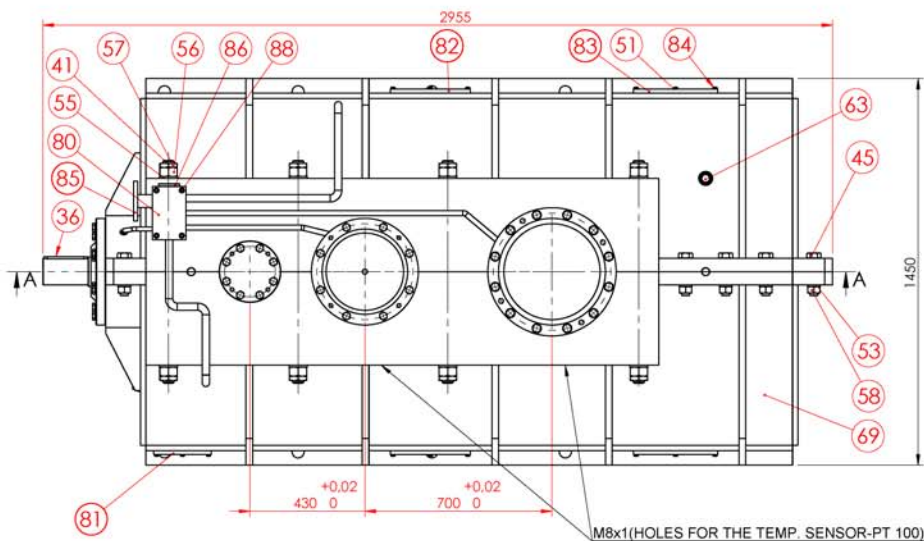


Power	P	635 kW
Input Revolution	n1	552 rpm
Output Revolution	n2	552 rpm 184 rpm
Input Torque (Nominal)	M1	10985.96 Nm
Input Torque (Max)	M1	27464.90 Nm
Output Torque per output shaft (Nominal)	M2	10985.96 Nm 32957.88 Nm
Output Torque per output shaft (Max)	M2	27464.9 Nm 82394.7 Nm
Ratio	i	1 3
Service Factor	sf	2.5
Oil Viscosity		VG 320



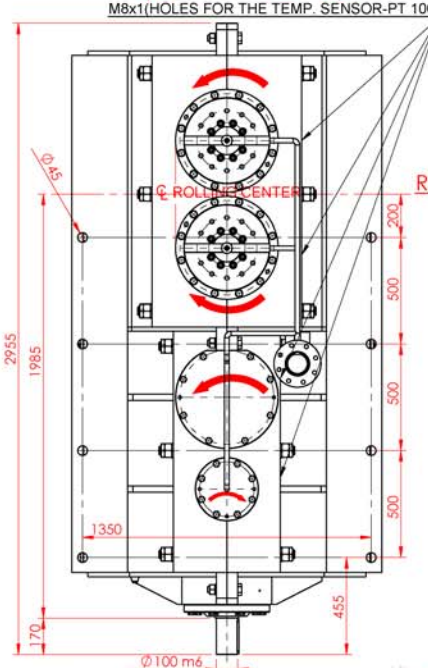
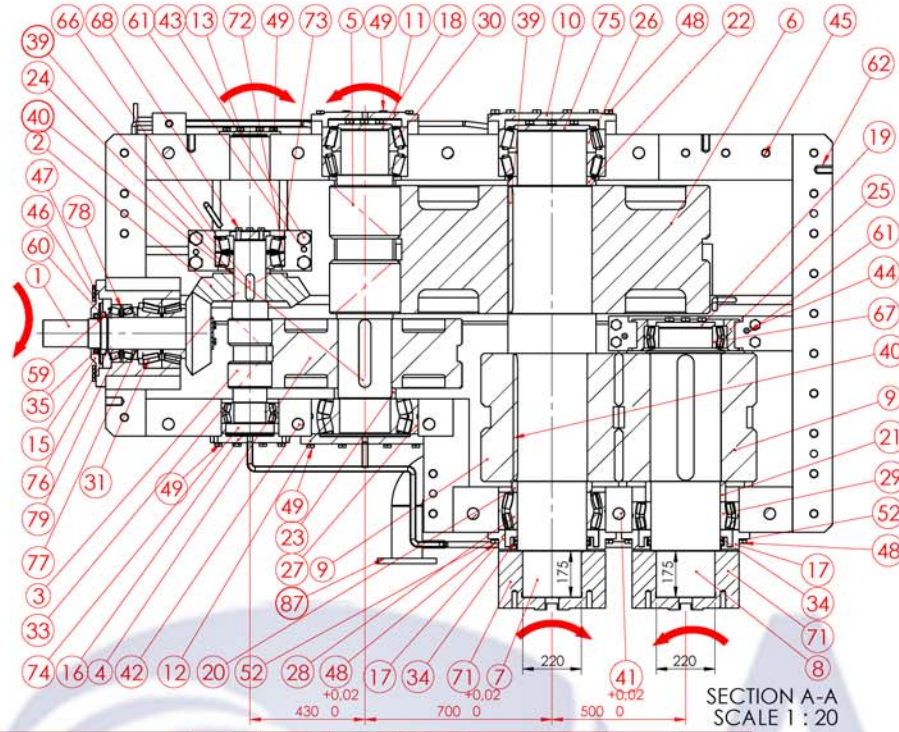
POS NO	DESCRIPTION	QTY	MATERIAL	WEIGHT
1	INPUT PINION	1	17CrNiMo6	196.143
2	1st STAGE GEAR	1	17CrNiMo6	165.40
3	2nd STAGE GEAR	1	17CrNiMo6	147.90
4	2nd STAGE GEAR	1	17CrNiMo6	374.71
5	GEAR	1	C 4140	36.52
6	OUTPUT SHAFT	1	C 4140	163.65
7	CLUTCH	1	C 4140	23.04
8	BUSHING	2	Si 37	7.87
9	BUSHING	2	Si 37	1.82
10	BUSHING	2	Si 37	1.41
11	BUSHING	2	Si 37	1.03
12	COVER	1	Si 37	20.40
13	COVER	1	Si 37	19.60
14	COVER	1	Si 37	17.55
15	COVER	1	Si 37	12.57
16	COVER	1	Si 37	12.57
17	COVER	1	Si 37	12.57
18	COVER	1	Si 37	12.57
19	COVER	1	Si 37	12.57
20	COVER	1	Si 37	12.57
21	COVER	1	Si 37	12.57
22	COVER	1	Si 37	12.57
23	COVER	1	Si 37	12.57
24	COVER	1	Si 37	12.57
25	COVER	1	Si 37	12.57
26	COVER	1	Si 37	12.57
27	COVER	1	Si 37	12.57
28	COVER	1	Si 37	12.57
29	COVER	1	Si 37	12.57
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33	COVER	1	Si 37	12.57
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41	COVER	1	Si 37	12.57
42	COVER	1	Si 37	12.57
43	COVER	1	Si 37	12.57
44	COVER	1	Si 37	12.57
45	COVER	1	Si 37	12.57
46	COVER	1	Si 37	12.57
47	COVER	1	Si 37	12.57
48	COVER	1	Si 37	12.57

SECTION A-A

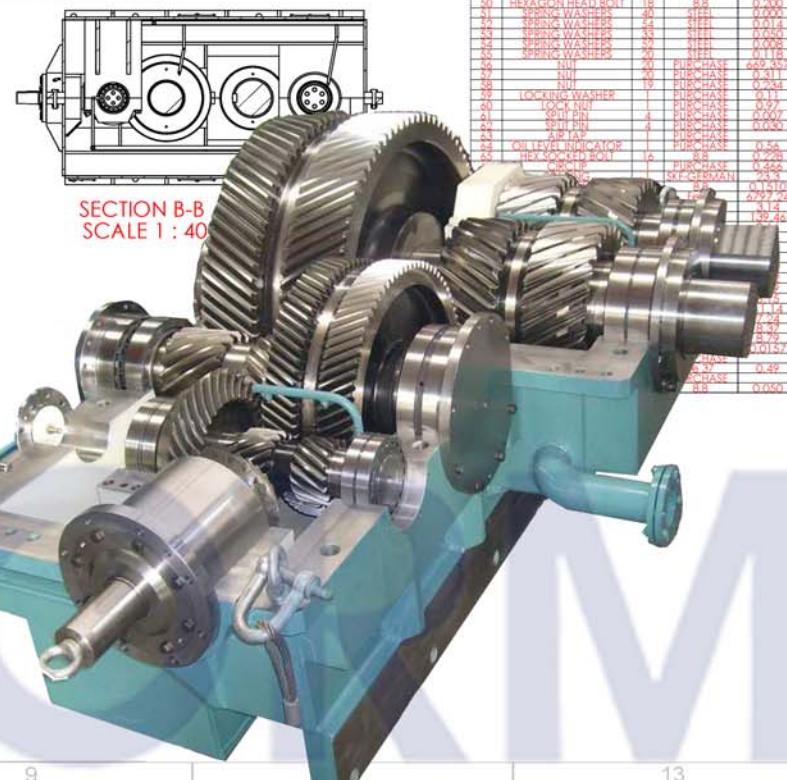


	SERVICE FAKTOR	SF 1	SH 1	SF 2	SH 2
1-STAGE	2,1	1,4	1,4	1,08	1,08
2-STAGE	2,1	1,38	1,02	1,3	1,02
3-STAGE	2,1	1,31	1,02	1,27	1,02
4-STAGE	2,1	1,28	1,04	1,28	1,04
	SF	SAFETY AGAINST FATIGUE FRACTION			
	SH	SAFETY MARGIN AGAINST PITTING			

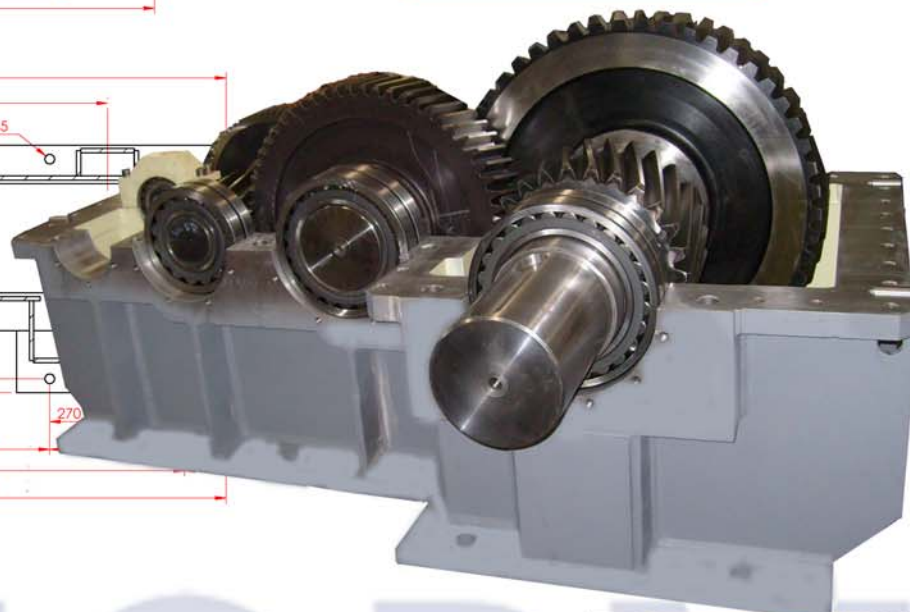
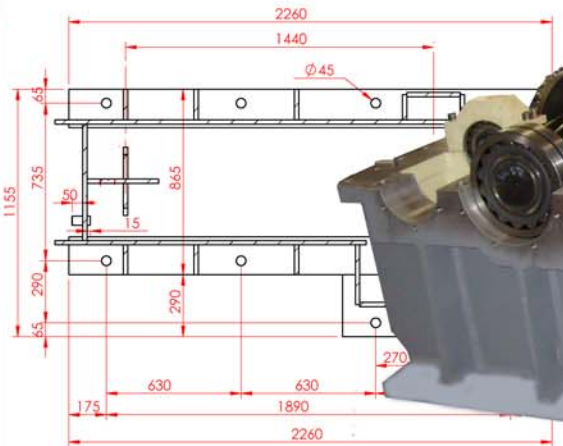
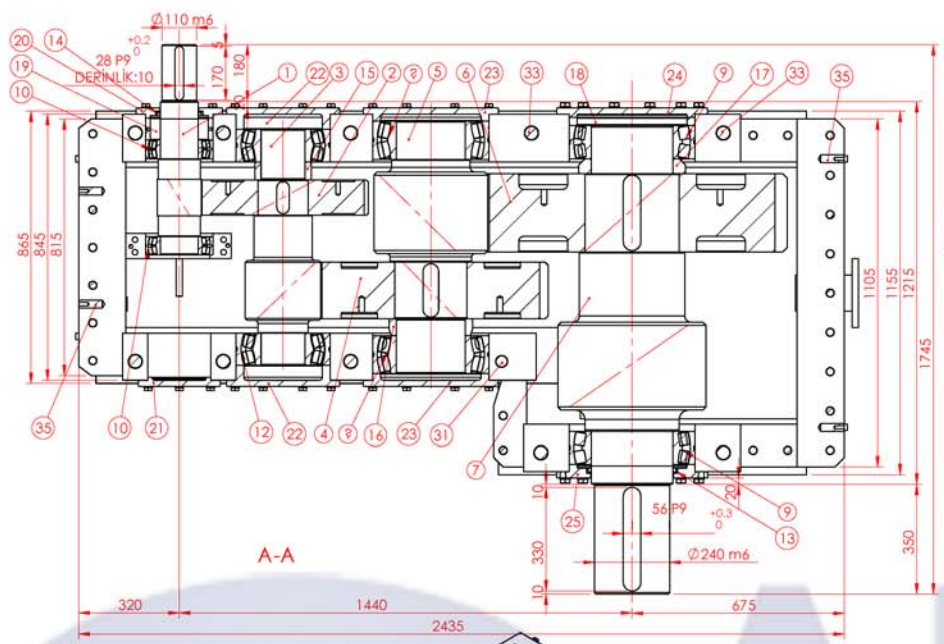
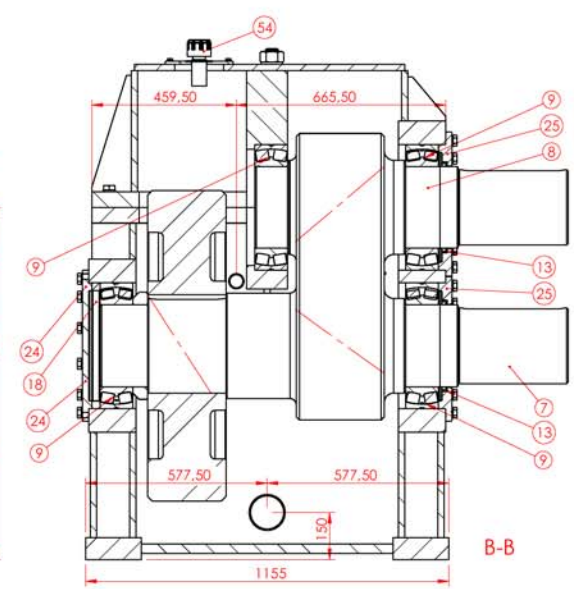
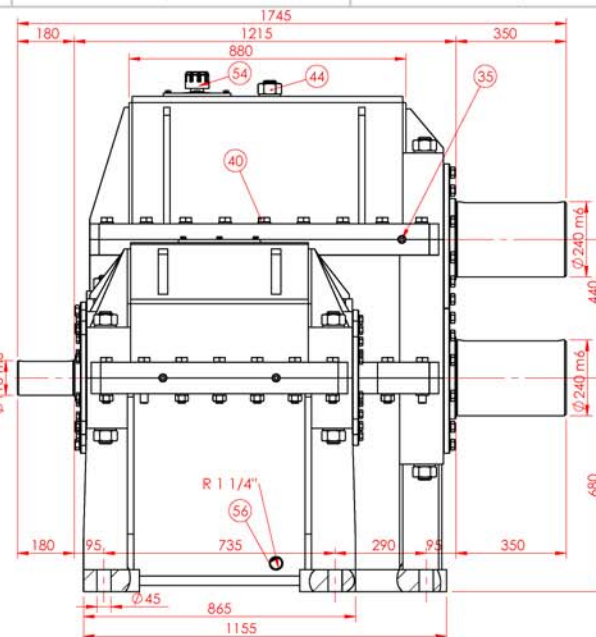
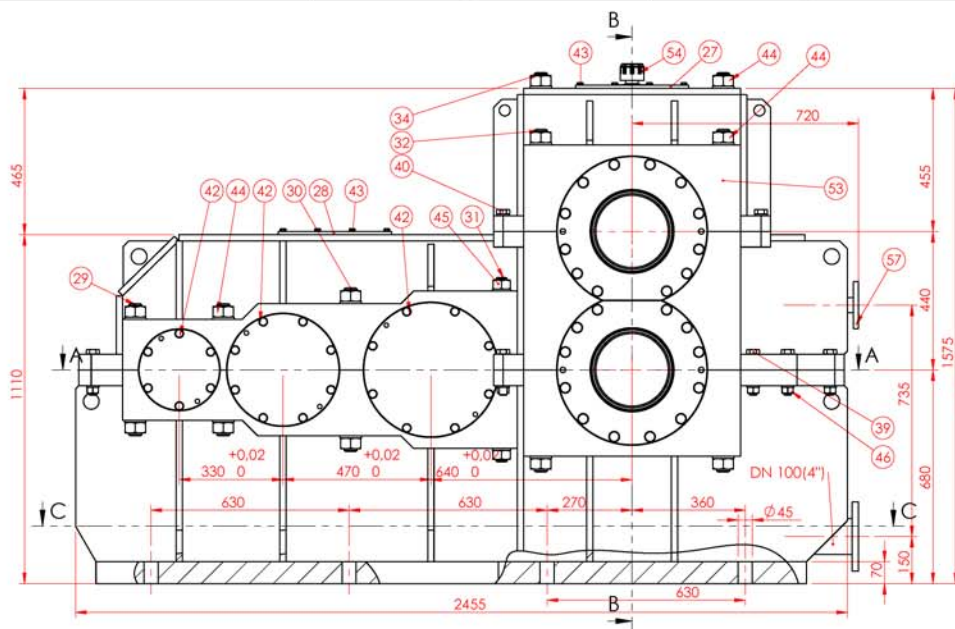
ITEM NO	PART NAME	QTY	MATERIAL	WEIGHT
	FIRST PINION BEVEL		17C-0RM066	85
1	INPUT SHAFT	1	SAF-4130	45.54
2	BEVEL GEAR	1	17C-0RM066	36.37
3	COVER	1	FE-30	0.93
4	PARALLEL KEY	1	SAF-1040	0.02
5	SPRING WASHERS	2	STEEL	
6	HEXAGON HEAD BOLT	2	FE-30	0.06
7	1st GEAR	1	17C-0RM066	29.29
8	2nd GEAR	1	17C-0RM066	38.93
9	3rd GEAR	1	17C-0RM066	34.63
10	1st PINION	1	17C-0RM066	20.06
11	2nd PINION	1	17C-0RM066	31.75
12	3rd PINION	1	17C-0RM066	20.93
13	1st OUTPUT SHAFT	1	SAF-4130	17.65
14	2nd OUTPUT SHAFT	1	SAF-4130	20.93
15	OUTPUT GEAR	1	17C-0RM066	31.75
16	COVER	1	FE-30	4.09
17	COVER	1	FE-30	4.09
18	COVER	1	FE-30	4.09
19	COVER	1	FE-30	4.09
20	SHO BEARING	1	FE-30	6.60
21	SHO BEARING	1	FE-30	6.60
22	SHO BEARING	1	FE-30	13.05
23	SHO BEARING	1	FE-30	13.05
24	SHO BEARING	1	FE-30	33.41
25	SHO BEARING	1	FE-30	33.41
26	SHO BEARING	1	FE-30	33.41
27	SHO BEARING	1	FE-30	33.41
28	SHO BEARING	1	FE-30	33.41
29	SHO BEARING	1	FE-30	33.41
30	SHO BEARING	1	FE-30	33.41
31	SHO BEARING	1	FE-30	33.41
32	SHO BEARING	1	FE-30	33.41
33	SHO BEARING	1	FE-30	33.41
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36	SHO BEARING	1	FE-30	33.41
37	SHO BEARING	1	FE-30	33.41
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85	SHO BEARING	1	FE-30	



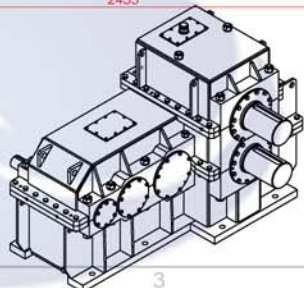
POWER	P	475 kW	
INPUT SPEED	n1	680 rpm	680 rpm
OUTPUT SPEED	n2	18.4 rpm	18.4 rpm
INPUT TORQUE	M1	6670 Nm	
OUTPUT TORQUE	M2	2x123=2460Nm	2x137.5=2750Nm
MAX. TORQUE	M _{max}		
RATIO	i	36.95	36.95
SAFETY FACTOR	sf	2.1	3.75



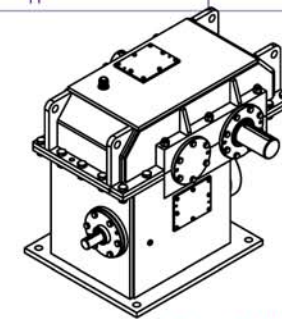
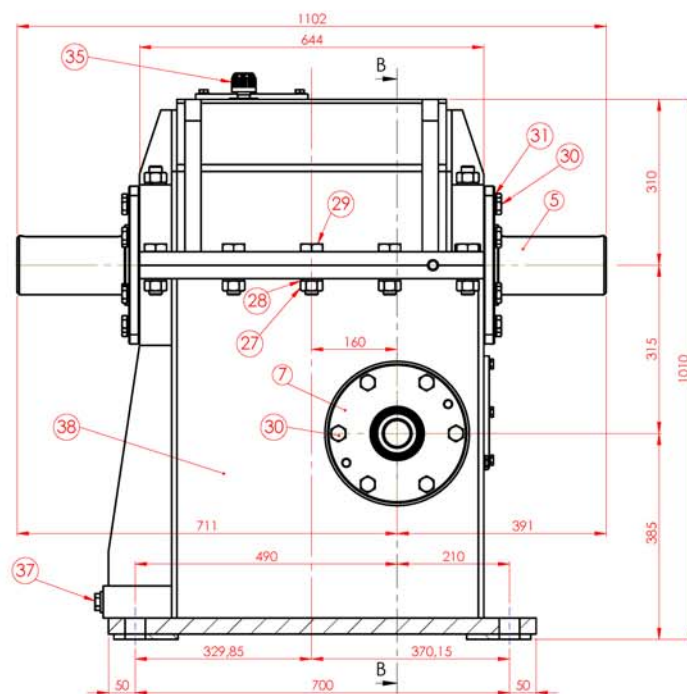
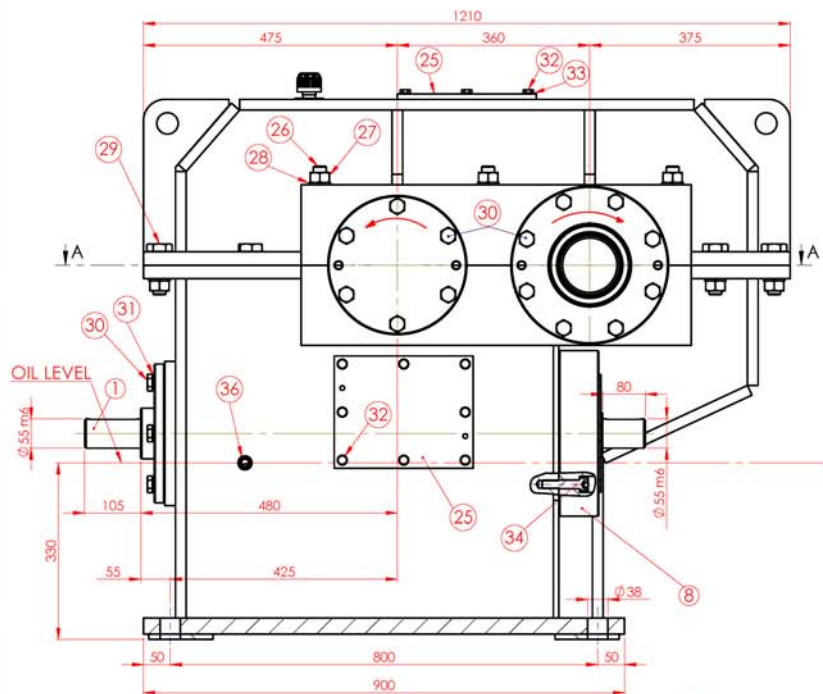
DOUBLE HELIX, BEARING	P02-1 REVEL PINION (LEFT)	P02-2 REVEL GEAR (RIGHT)	P02-3 PINION	P02-4 GEAR	P02-5 PINION	P02-6 GEAR	P02-9 PINION	P02-9 GEAR
NUMBER OF TEETH	Z ₁ 23	34	16	60	17	85	27	27
NORMAL MODULE	m _n 0		0		1			16
NORMAL PRESSURE ANGLE	20°	20°			20°			20°
HELIX ANGLE	β _n 47°52'			22°		30°		30°
HARDNESS	50-60 HRC	56-58 HRC	50-60 HRC	56-58 HRC	50-60 HRC	56-58 HRC	50-60 HRC	56-60 HRC
MATERIAL	17CrNiMo 6	17CrNiMo6	17CrNiMo 6	17CrNiMo6	17CrNiMo 6	17CrNiMo6	17CrNiMo 6	17CrNiMo6
GEAR QUALITY	7-9		7-9		7-9		7-9	
BACKLASH	0.16 0.14		0.16 0.14		0.16 0.14		0.16 0.14	



i:1/45-1/35
P:419 Kw
n1:730

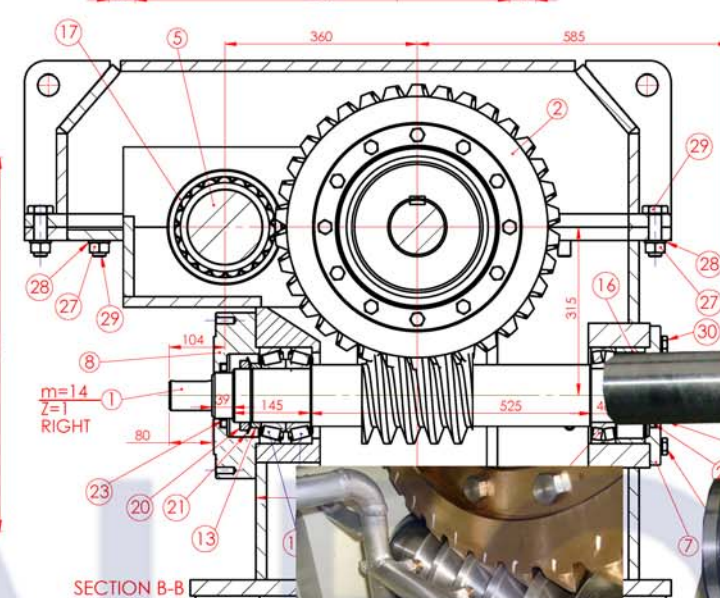
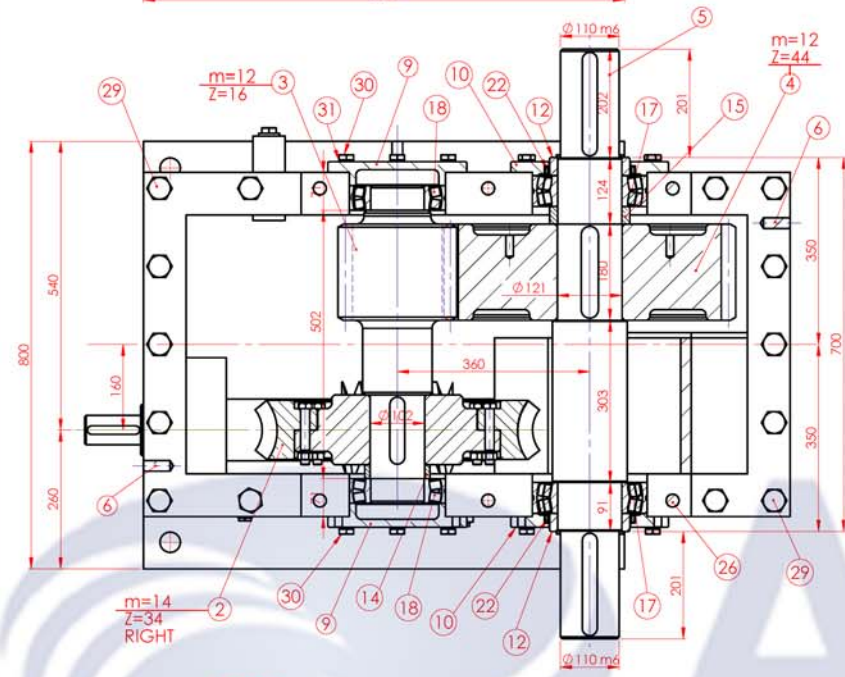


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Power	P	30 kW
Input Revolution	n1	730 rpm
Output Revolution	n2	7.81 rpm
Input Torque (Nominal)	M1	393 Nm
Input Torque (Max.)	M1	786 Nm
Number of Output Shaft		2
Output Torque per Shaft (Nominal)	M2	36695 Nm
Output Torque per Shaft (Max.)	M2	73391 Nm
Ratio	i	93,5
Service Factor	sf	2
Oil Type		VG 220

	1 STAGE WORM GEAR	2 STAGE GEAR
Z1	1	16
Z2	34	44
M	14	12
B	5.28487°	0
HELICAL POSITION	RIGHT	RIGHT
CENTER DISTANCE	315	360
RATIO	34	2.75

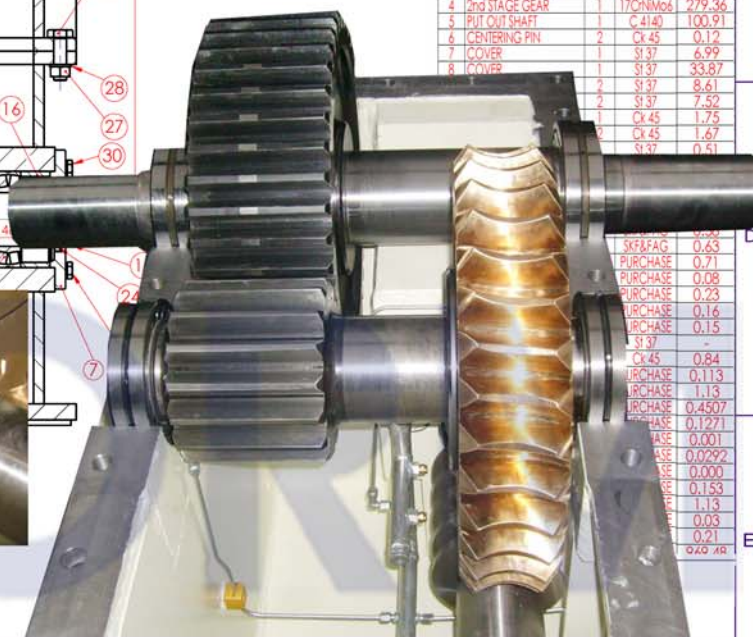


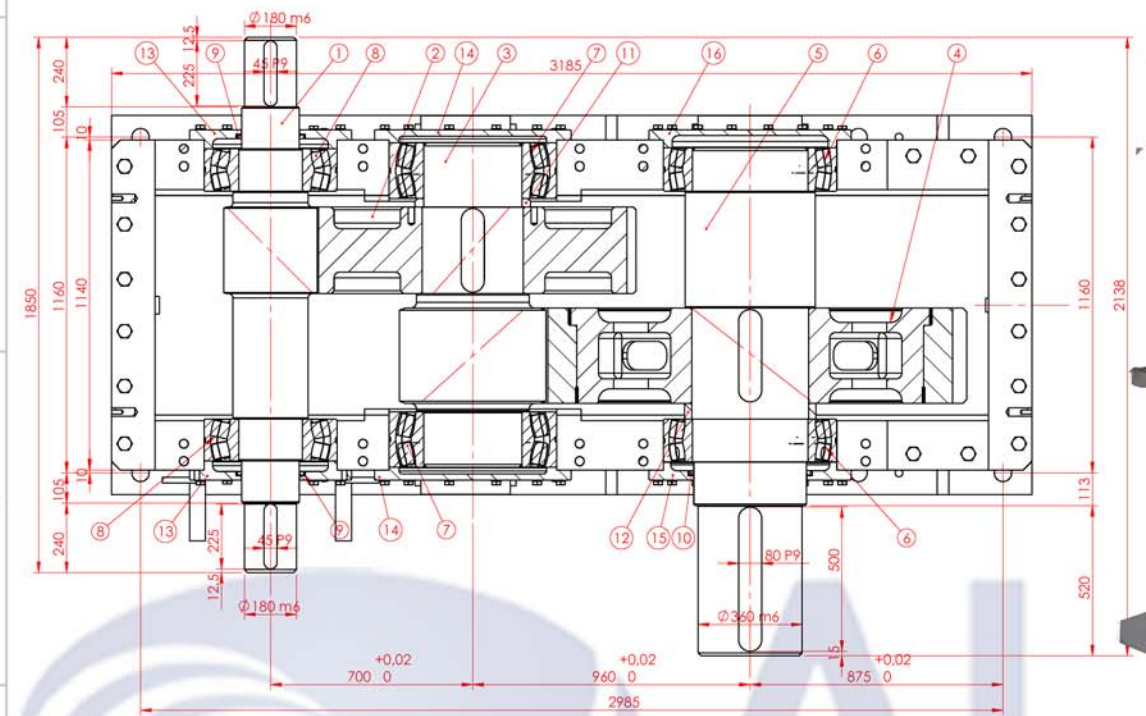
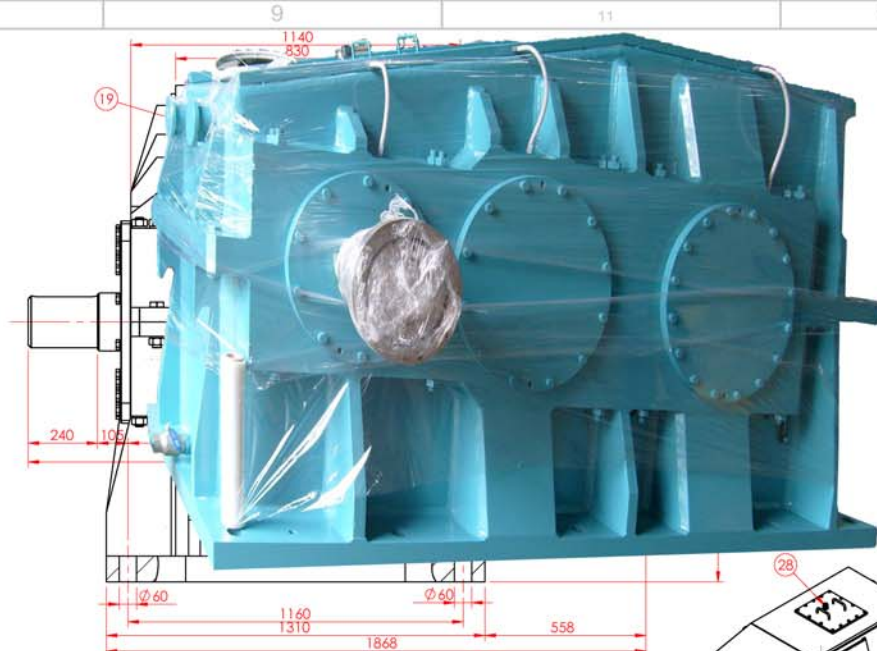
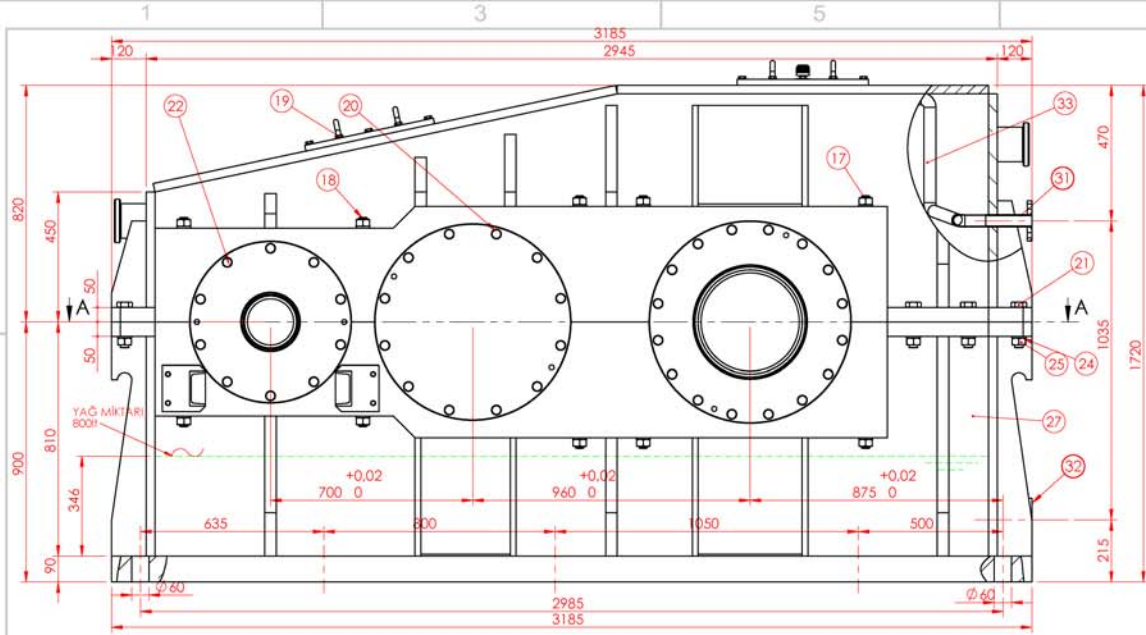
POS	DESCRIPTION	QTY	MATERIAL	WEIGHT
1	INPUT PINION (WORM GEAR)	1	8620	75.89
2	1ST STAGE PINION (WORM GEAR)	1	CuSn12	153.31
3	2ND STAGE PINION	1	17CrNiMo6	87.11
4	2ND STAGE GEAR	1	17CrNiMo6	279.36
5	PUT OUT SHAFT	1	C 4140	100.91
6	CENTERING PIN	2	Ck 45	0.12
7	COVER	1	St 37	6.99
8	COVER	1	St 37	33.87

9	COVER	1	St 37	8.61
10	COVER	1	St 37	7.52
11	COVER	1	St 37	1.75
12	COVER	1	St 37	1.67
13	COVER	1	St 37	0.51
14	COVER	1	St 37	0.51
15	COVER	1	St 37	0.51
16	COVER	1	St 37	0.51
17	COVER	1	St 37	0.51
18	COVER	1	St 37	0.51
19	COVER	1	St 37	0.51
20	COVER	1	St 37	0.51
21	COVER	1	St 37	0.51
22	COVER	1	St 37	0.51
23	COVER	1	St 37	0.51
24	COVER	1	St 37	0.51
25	COVER	1	St 37	0.51
26	COVER	1	St 37	0.51
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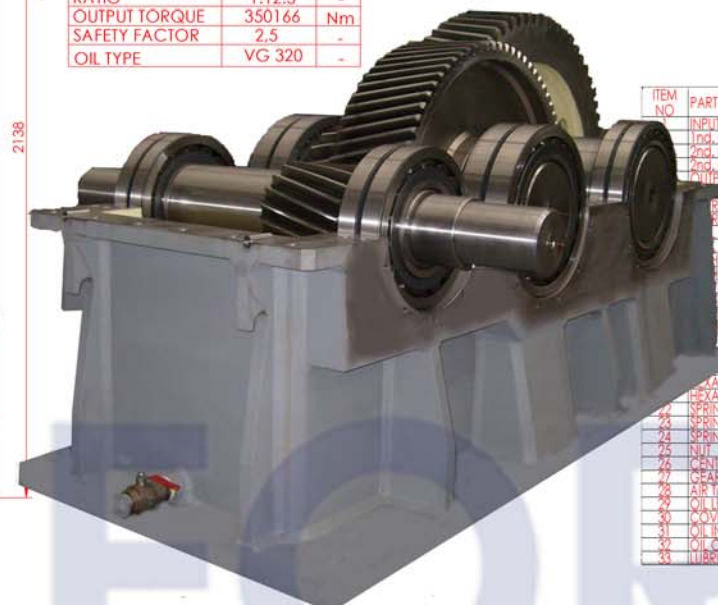
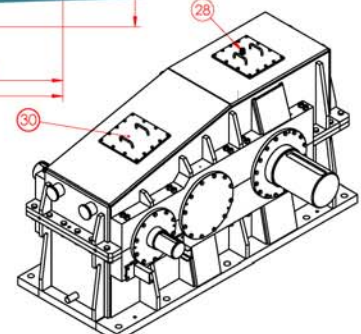
SECTION B-B

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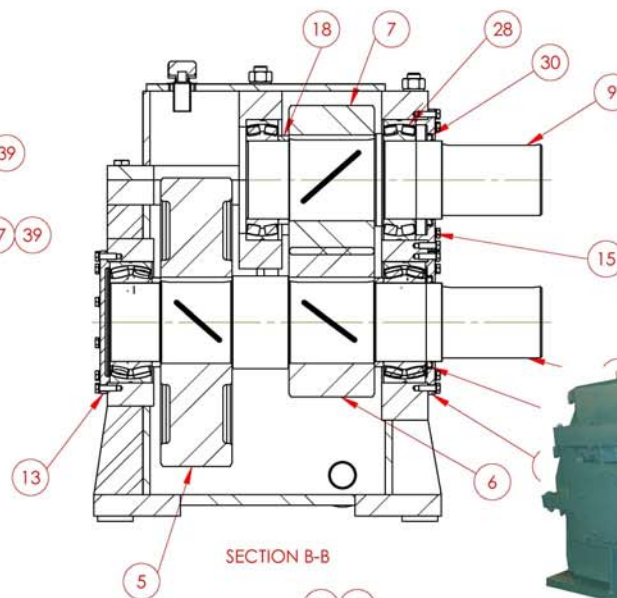
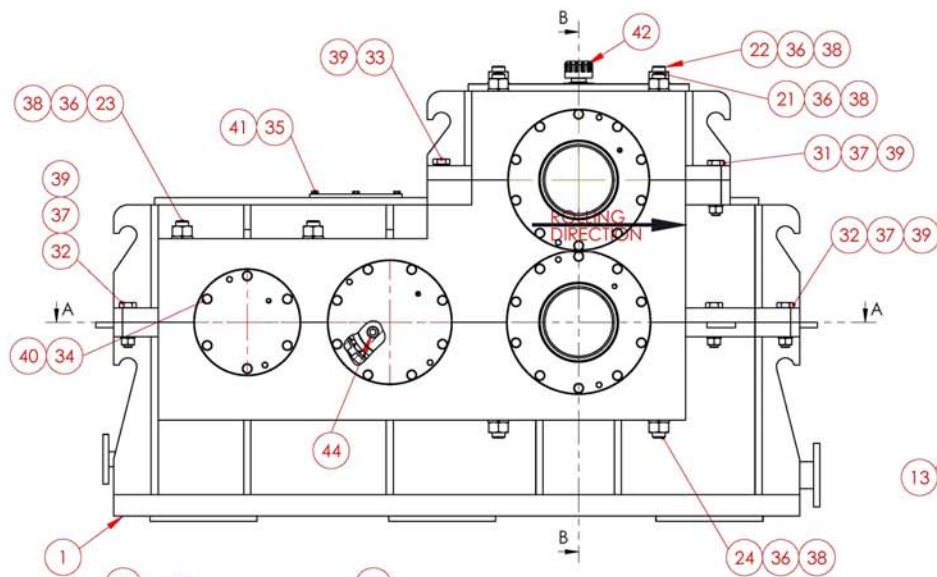
POWER	2200	Kw
INPUT SPEED	750	d/d
INPUT TORQUE	28013.3	Nm
OUTPUT SPEED	59.94	d/d
RATIO	1:12.5	-
OUTPUT TORQUE	350166	Nm
SAFETY FACTOR	2.5	-
OIL TYPE	VG 320	-



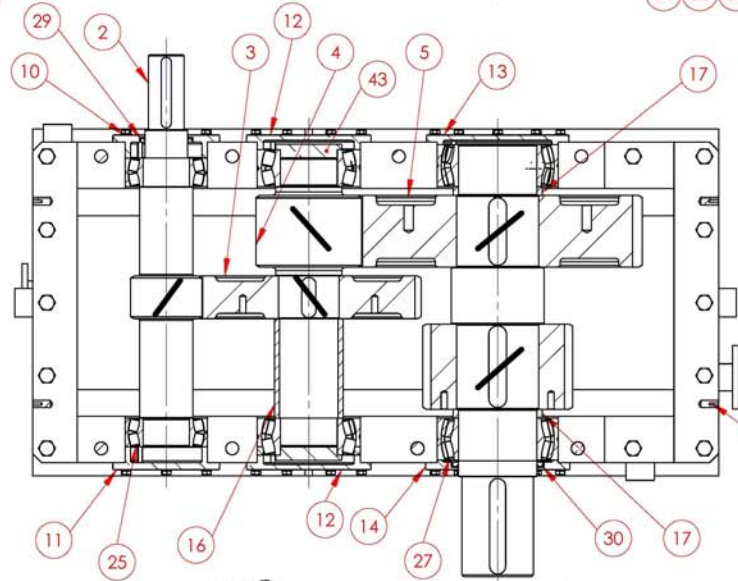
ITEM NO.	PART NAME	QTY	MATERIAL	WEIGHT
1	INPUT PINION	1	17CrNiMo6	633.84
2	1st GEAR	1	17CrNiMo6	1307.33
3	2nd PINION	1	17CrNiMo6	1103.74
4	2nd GEAR	1	17CrNiMo6	2530.73
5	OUTPUT SHAFT	1	C 4140	1793.45
6	BEARING	2	ST 37	150
7	BEARING	2	ST 37	150
8	BEARING	2	ST 37	150
9	BEARING	2	ST 37	150
10	BEARING	2	ST 37	150
11	BEARING	2	ST 37	150
12	BEARING	2	ST 37	150
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33	BEARING	2	ST 37	150



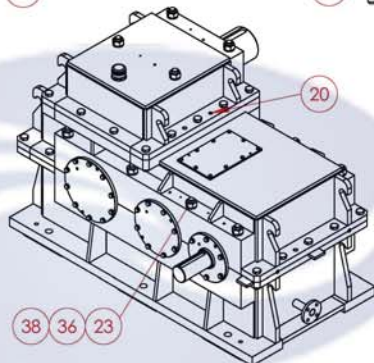
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SECTION B-B

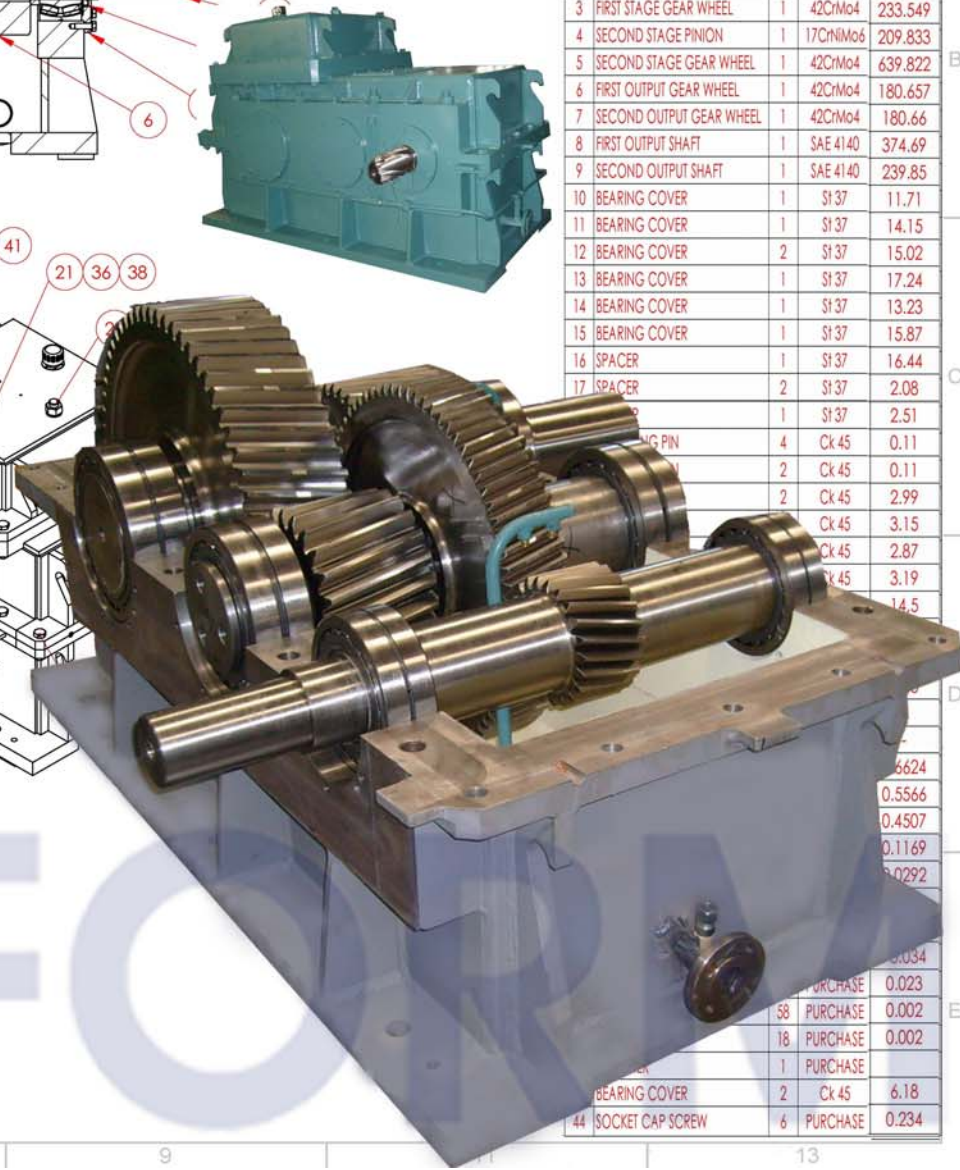


SECTION A-A



Power	P	570 kW
Input Revolution	n1	680 rpm
Output Revolution	n2	68 rpm
Input Torque (Nominal)	M1	8006 Nm
Output Torque (Max.)	M1	20015 Nm
Number Of Output Shaft		1
Output Torque per output shaft (Nominal)	M2	80052 Nm
Output Torque per output shaft (Max)	M2	200130 Nm
Ratio	i	10
Service Factor	sf	2,5

NO	NAME	QTY	MATERIAL	WEIGHT
1	GEARBOX BODY	1	SI 44	3189.35
2	INPUT PINION	1	17CrNiMo6	138.483
3	FIRST STAGE GEAR WHEEL	1	42CrMo4	233.549
4	SECOND STAGE PINION	1	17CrNiMo6	209.833
5	SECOND STAGE GEAR WHEEL	1	42CrMo4	639.822
6	FIRST OUTPUT GEAR WHEEL	1	42CrMo4	180.657
7	SECOND OUTPUT GEAR WHEEL	1	42CrMo4	180.66
8	FIRST OUTPUT SHAFT	1	SAE 4140	374.69
9	SECOND OUTPUT SHAFT	1	SAE 4140	239.85
10	BEARING COVER	1	SI 37	11.71
11	BEARING COVER	1	SI 37	14.15
12	BEARING COVER	2	SI 37	15.02
13	BEARING COVER	1	SI 37	17.24
14	BEARING COVER	1	SI 37	13.23
15	BEARING COVER	1	SI 37	15.87
16	SPACER	1	SI 37	16.44
17	SPACER	2	SI 37	2.08
18	SPACER	1	SI 37	2.51
19	SPACER	4	Ck 45	0.11
20	SPACER	2	Ck 45	0.11
21	SPACER	2	Ck 45	2.99
22	SPACER	2	Ck 45	3.15
23	SPACER	2	Ck 45	2.87
24	SPACER	2	Ck 45	3.19
25	SPACER	2	Ck 45	14.5
26	SPACER	2	Ck 45	6624
27	SPACER	2	Ck 45	0.5566
28	SPACER	2	Ck 45	0.4507
29	SPACER	2	Ck 45	0.1169
30	SPACER	2	Ck 45	0.0292
31	SPACER	2	Ck 45	0.034
32	SPACER	2	Ck 45	0.023
33	SPACER	2	Ck 45	0.002
34	SPACER	2	Ck 45	0.002
35	SPACER	1	PURCHASE	
36	BEARING COVER	2	Ck 45	6.18
37	SOCKET CAP SCREW	6	PURCHASE	0.234





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