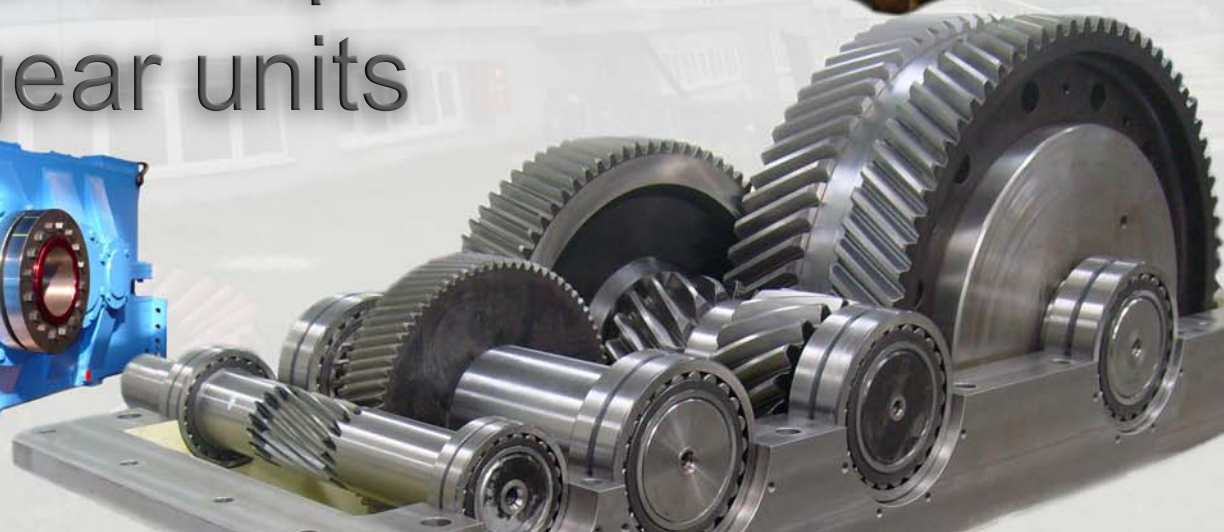
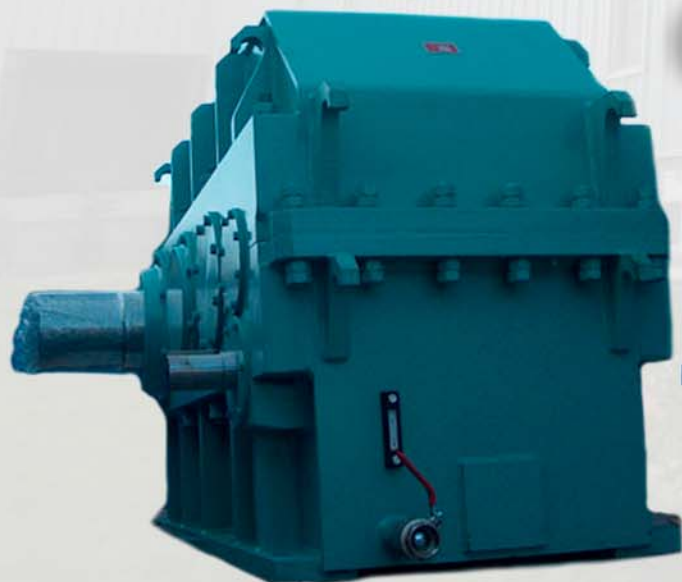




ALFORM

Customer-specific
gear units

Since 1982 we develop and produce the appropriate gears for torques of up to 10.000.000Nm. Your requirements for transmissions are made real by our engineers very precisely. In order to ensure the most silent operation possible we grind the flanks of the teeth. Using the latest machines for grinding, milling and measurement, we can make real a quality of tothing of up to 4 acc.to DIN 3965 in series and documentably. All verifications of the drives are documented and handed over to the customer. The housings are manufactured depending on requirements as welded or casted parts.

Thermal treatment and coating :

Thermal treatments like case hardening, nitriding longtime/short time, plasma nitriding, tenifer treatment, inductive hardening or tempering we let execute by specialized partners who are certified for ISO 16949. Inductive hardening is done in our house.

Types of gears:

Spur gears with parallel shafts
Range of performances 1 - 5.000 KW

Wind turbines
Range of performances 1- 2.500 KW

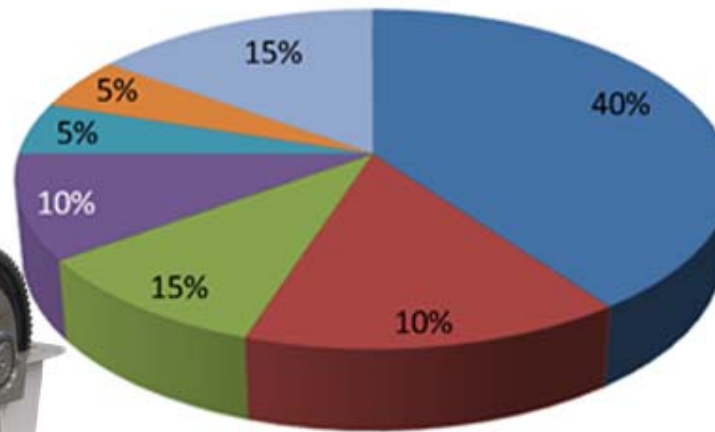
Bevel gears
Range of performances 1 - 5.000 KW

Planetary gears
Range of performances 1 - 2.500 KW

Worm gears
Leistungsbereich 0,1 - 110 KW

Gear production :

Up to Ø 2.500 mm, module 32
Teeth width up to 1000 mm



Areas of application for our customer specific gears:

- IRON-, STEEL-, ALUMINIUM- AND COPPERMILLS,
- CRANE BUILDING
- CEMENT FACTORIES
- PETROCHEMICAL INDUSTRY
- WIND ENERGY
- FERTILIZER PRODUCTION
- OTHER SECTORS (NAVAL CONSTR., PAPER, CERAMIC, PACKAGING)

Furthermore we offer couplings in a range of torques between 10 to 10.000.000Nm and bore diameters of up to 1.020mm. With our mechanic ALFORM shaft couplings we ensure a secure connection of your machine shaft in nearly all domains of heavy industry. Our industry couplings are appropriate in, among others, the domains mentioned above. Also as individually adapted solution they convince by highest quality of production and extraordinary durability. With most variable designs, in most cases made-to-measure, we offer a wide range for nearly any application. Please request our detailed catalogue about couplings.



HÖFLER
RAPID 1250



MILLING TOOTHFLANCES + GRINDING

MILLING TOOTHFLANCES + GRINDING + MEASUREMENT
ALL BY THE SAME MACHINE

Thanks to the newest machine „Hoefer Rapid 1250“ we can measure the gears right after milling and grinding. This way we achieve topmost and documentable precision and we can achieve a quality of toothing 4-5 acc. to DIN 3965. Under specific circumstances we can supply an even better quality. In the same machine the ring gears with internal teeth inclined milling and grinding can be done, so that in the range of can be milled $\varnothing$ 250 mm-1.200 mm and a quality of gearing up to 4 acc. to DIN 3965.



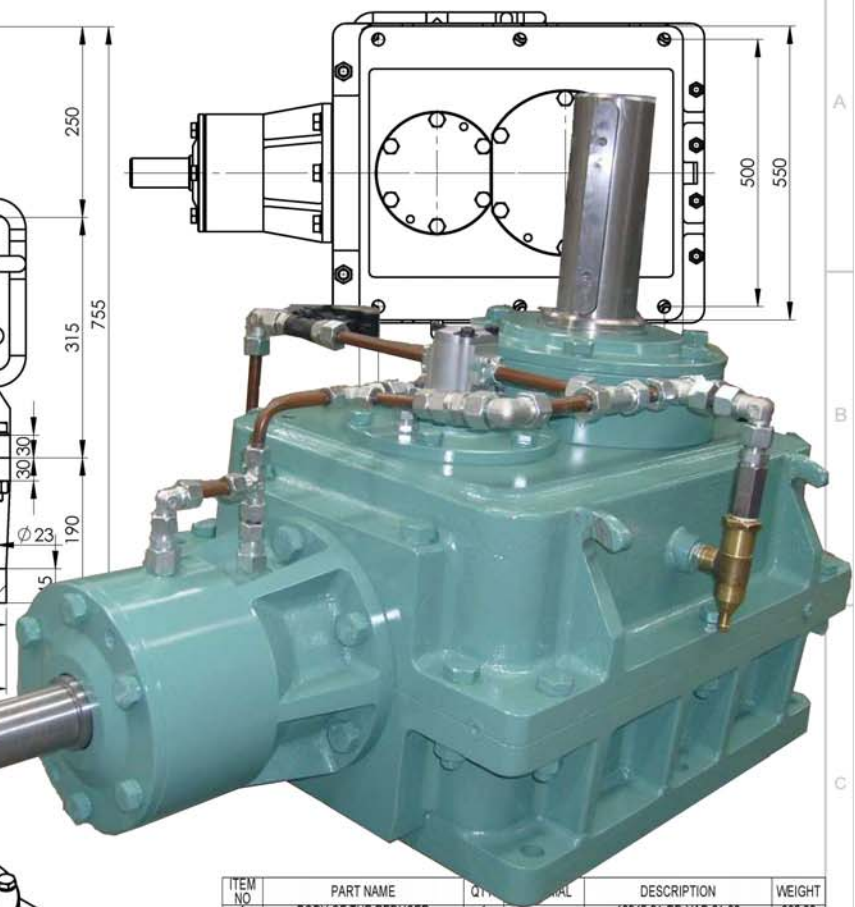
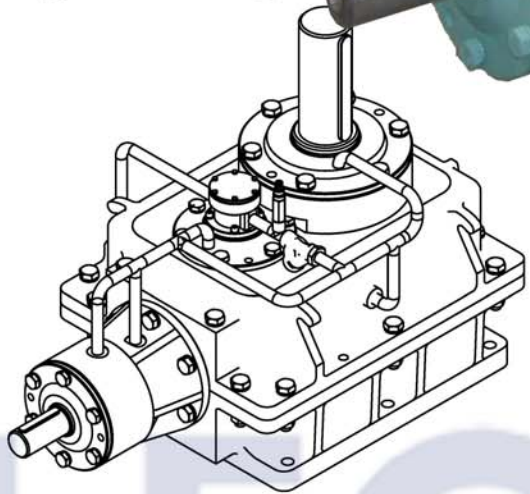
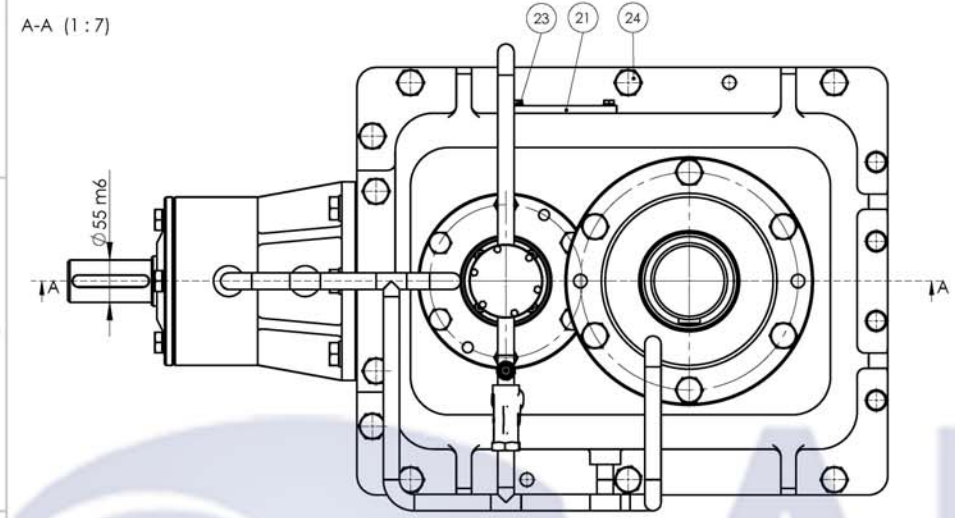
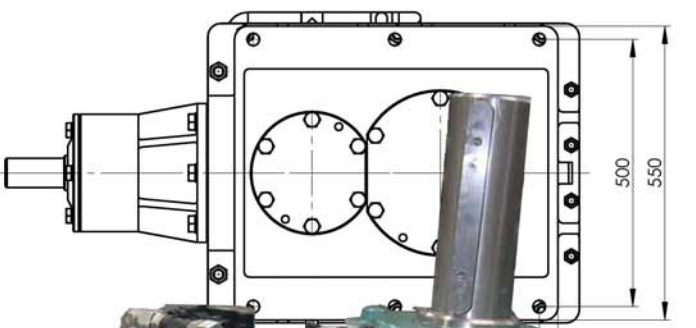
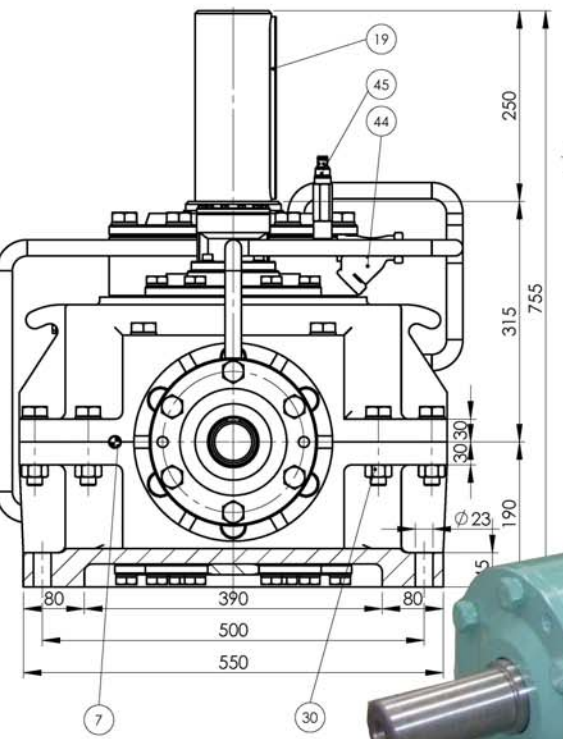
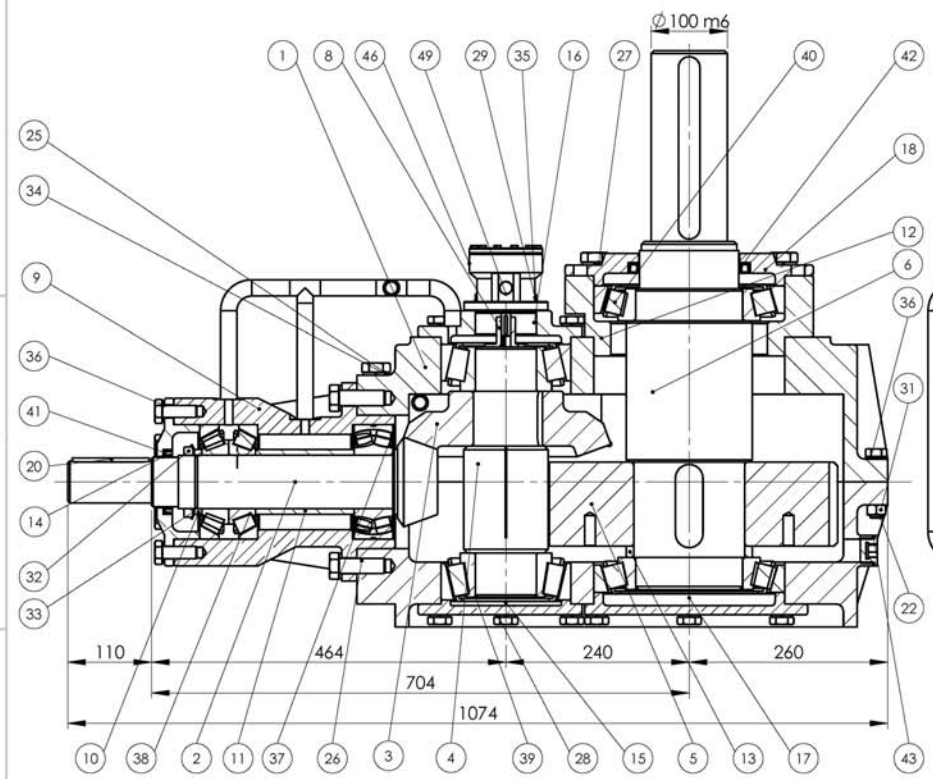
TOOTHFLANC MEASUREMENT





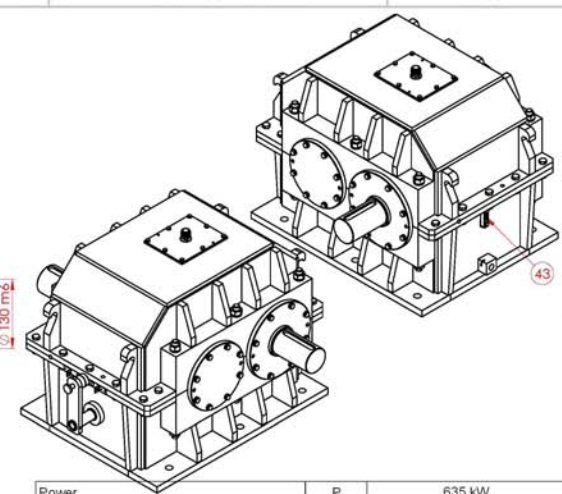
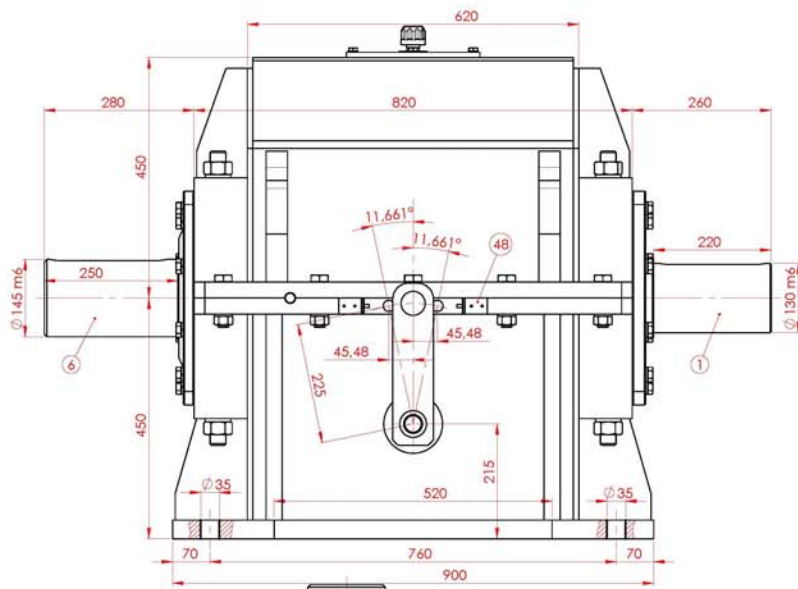
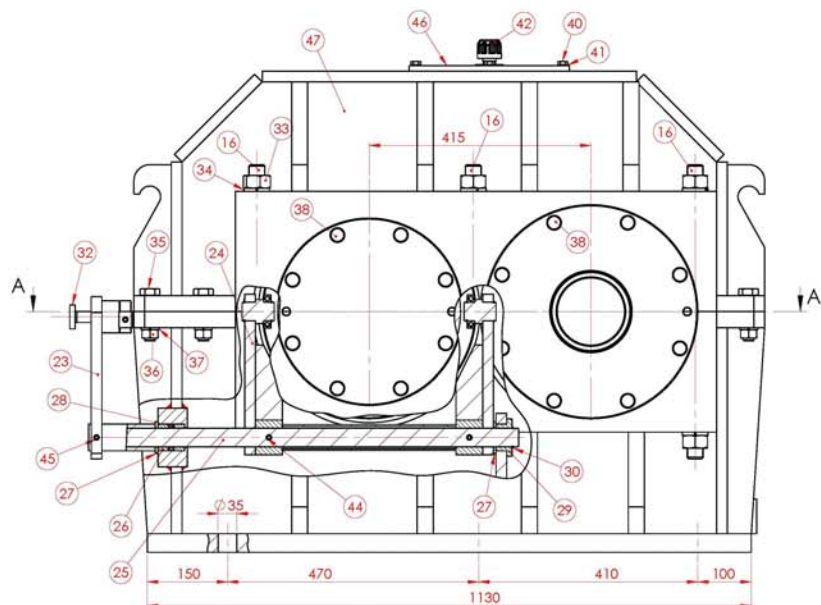
PART OF OUR PRODUCTION OF CUSTOMER-SPECIFIC GEAR UNITS

ALFORM

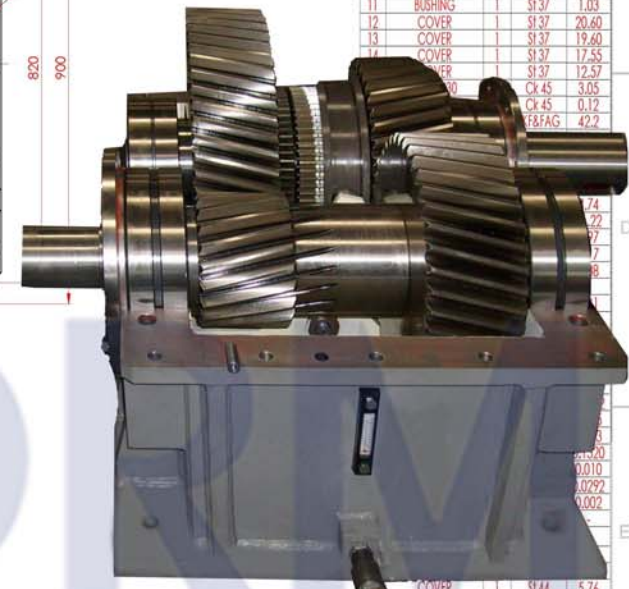
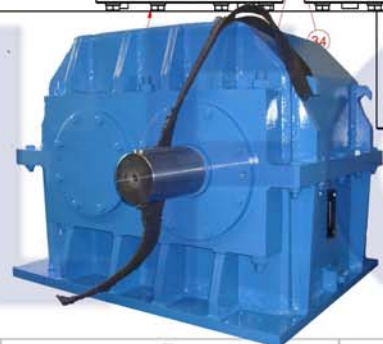
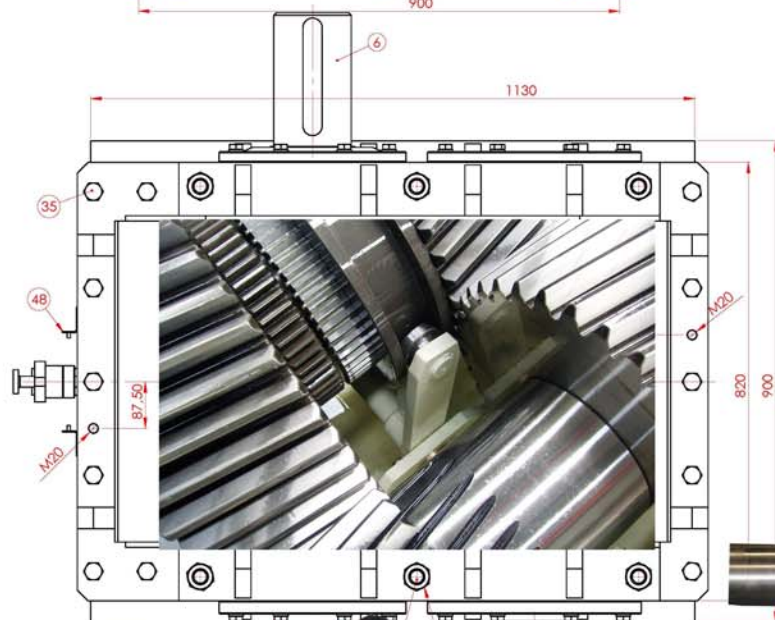
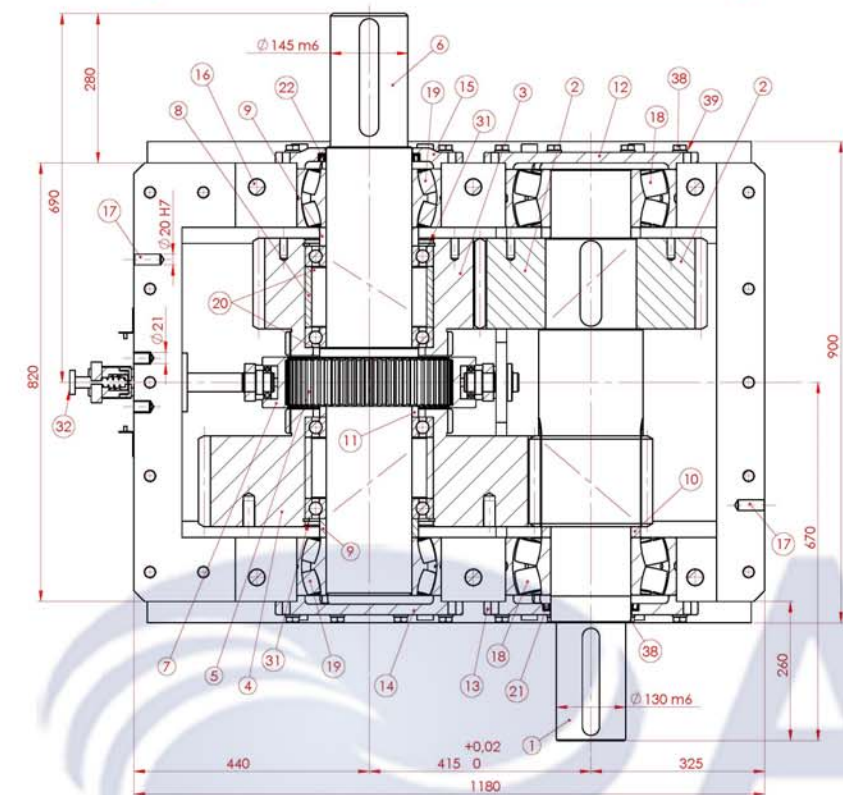


ITEM NO	PART NAME	QTY	UNIT	DESCRIPTION	WEIGHT
1	BODY OF THE REDUCER	1	170Nmm68	1045-01-80-YAP-01-00	335.22
2	SPIRAL BEVEL GEAR (PINION)	1	170Nmm68	1045-01-80-YAP-02-00	19.89
3	SPIRAL BEVEL GEAR (GEARWHEEL)	1	170Nmm68	1045-01-80-YAP-03-00	19.89
4	2-STAGE PINION	1	170Nmm68	1045-01-80-YAP-04-00	86.33
5	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	36.32
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
28	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-28-00	0.0002
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
33	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-33-00	0.0002
34	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-34-00	0.0002
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
38	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-38-00	0.0002
39	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-39-00	0.0002
40	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-40-00	0.0002
41	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-41-00	0.0002
42	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-42-00	0.0002
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98	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-98-00	0.0002
99	HEX HEAD BOLT	4	M16 - DIN 934	1045-01-80-YAP-99-00	0.0002
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	-

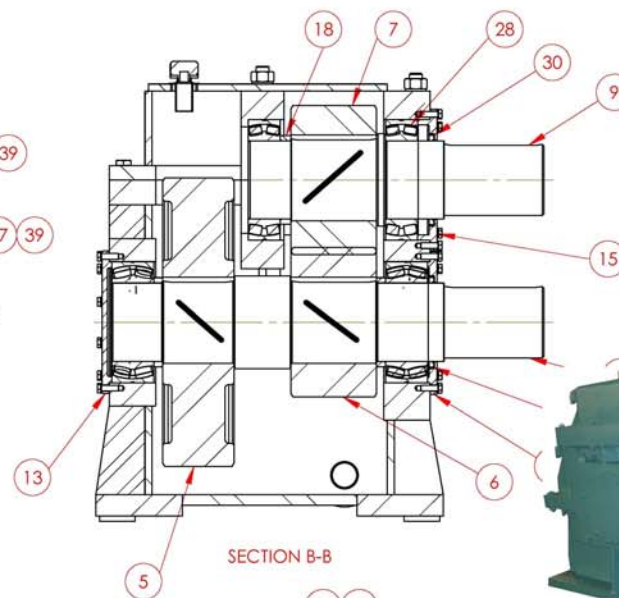
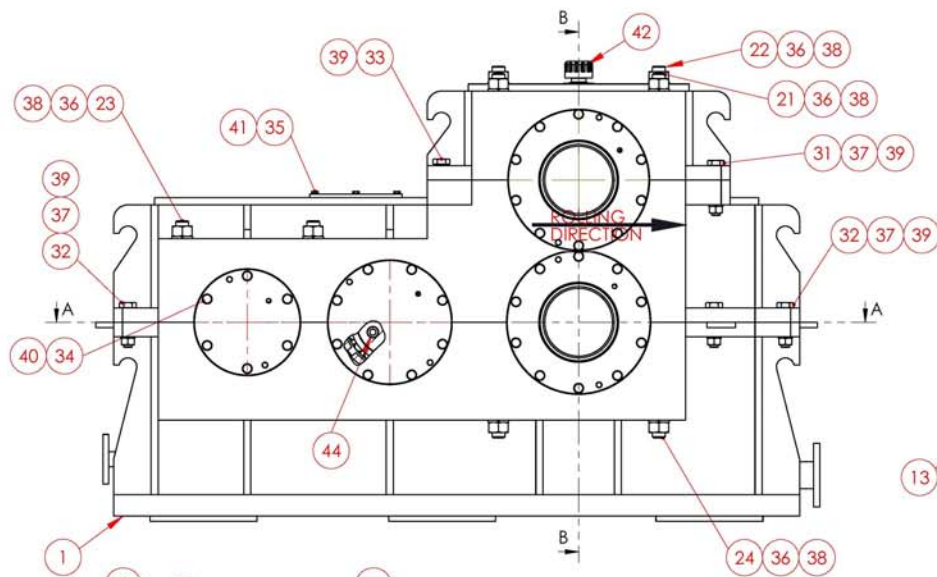


Power	P	635 kW
Input Revolution	n1	552 rpm
Output Revolution	n2	552 rpm 184 rpm
Input Torque (Nominal)	M1	10985.96 Nm
Input Torque (Max)	M1	27464.90 Nm
Output Torque per output shaft (Nominal)	M2	10985.96 Nm 32957.88 Nm
Output Torque per output shaft (Max)	M2	27464.9 Nm 82394.7 Nm
Ratio	i	1 3
Service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

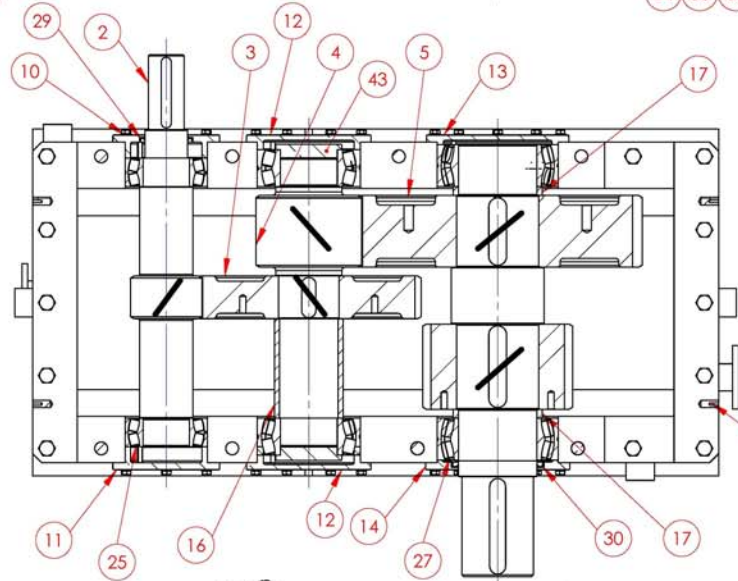


POS NO	DESCRIPTION	QTY	MATERIAL	WEIGHT
1	INPUT PINION	1	17CrNiMo6	196.143
2	1st STAGE GEAR	1	17CrNiMo6	165.40
3	2nd STAGE GEAR	1	17CrNiMo6	147.90
4	2nd STAGE GEAR	1	17CrNiMo6	374.71
5	GEAR	1	C 4140	36.52
6	OUTPUT SHAFT	1	C 4140	163.65
7	CLUTCH	1	C 4140	23.04
8	BUSHING	2	Si 37	7.87
9	BUSHING	2	Si 37	1.82
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
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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
30	COVER	1	Si 37	12.57
31	COVER	1	Si 37	12.57
32	COVER	1	Si 37	12.57
33	COVER	1	Si 37	12.57
34	COVER	1	Si 37	12.57
35	COVER	1	Si 37	12.57
36	COVER	1	Si 37	12.57
37	COVER	1	Si 37	12.57
38	COVER	1	Si 37	12.57
39	COVER	1	Si 37	12.57
40	COVER	1	Si 37	12.57
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

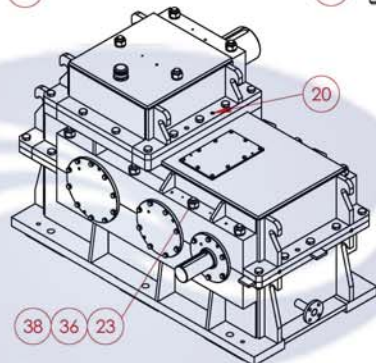
SECTION A-A



SECTION B-B

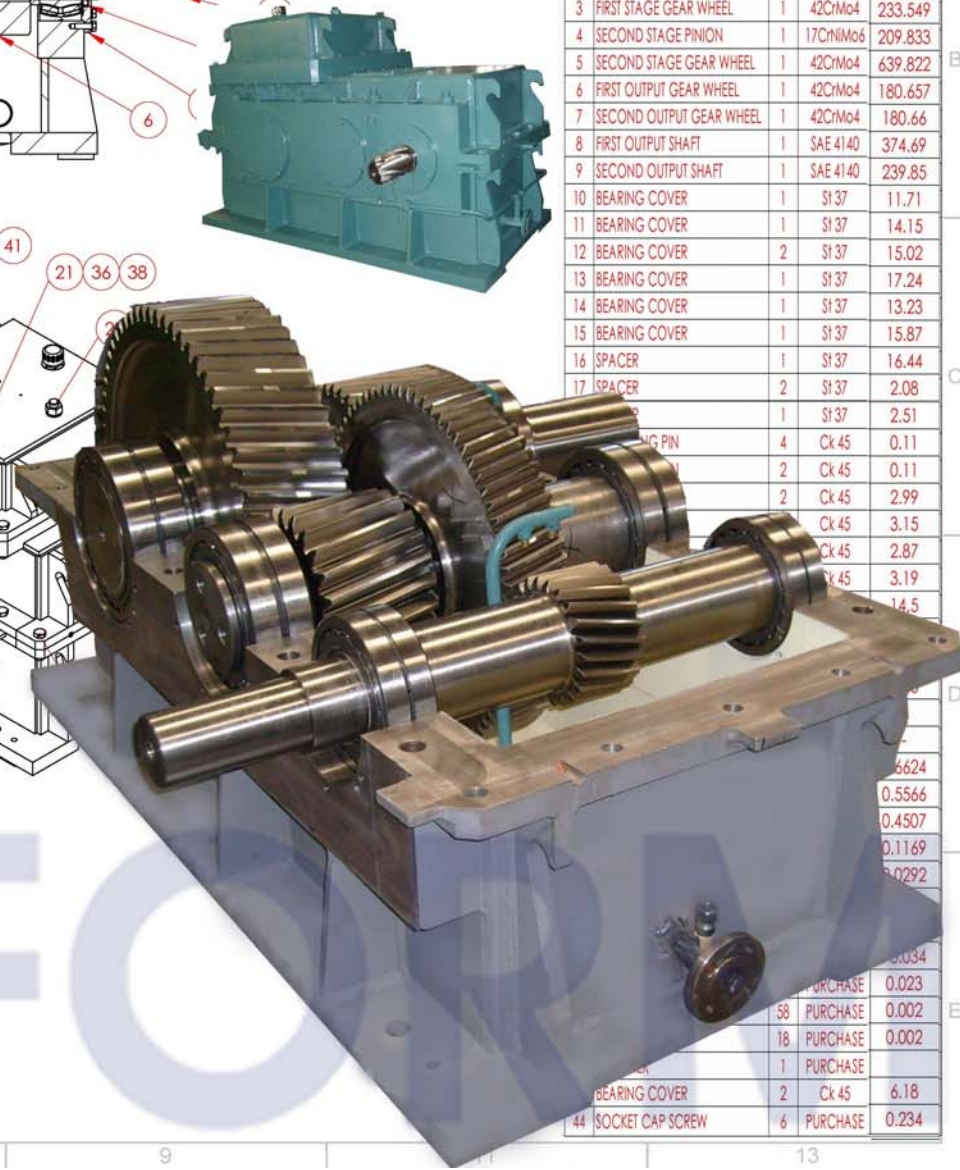


SECTION A-A



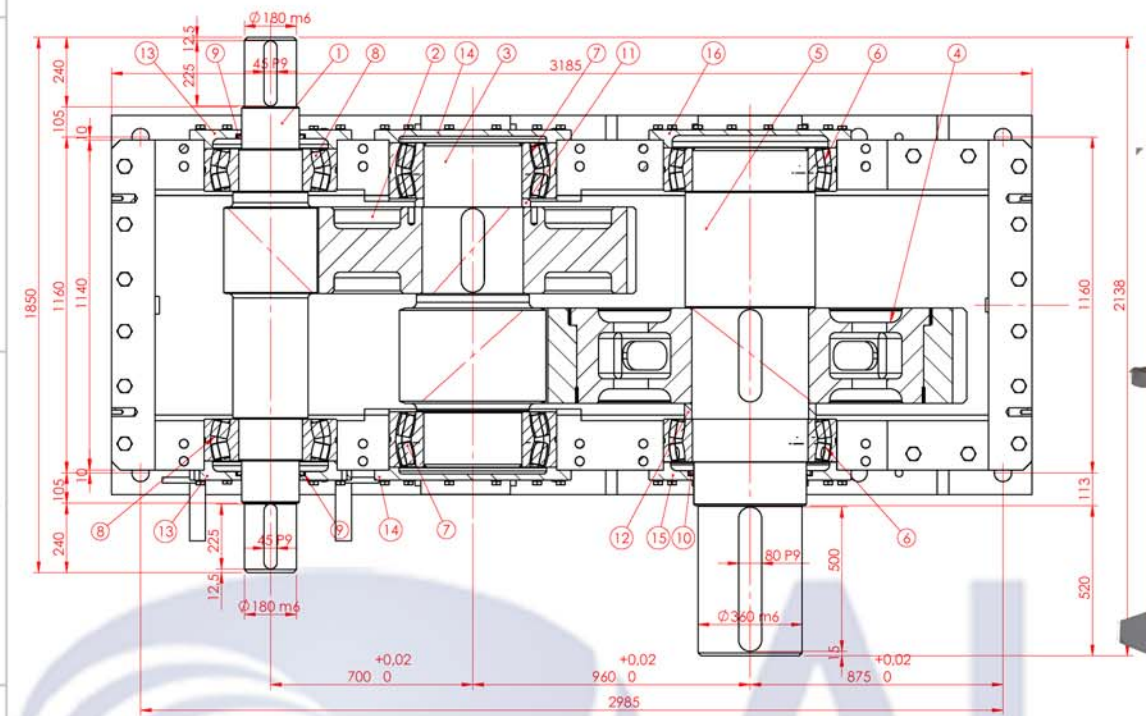
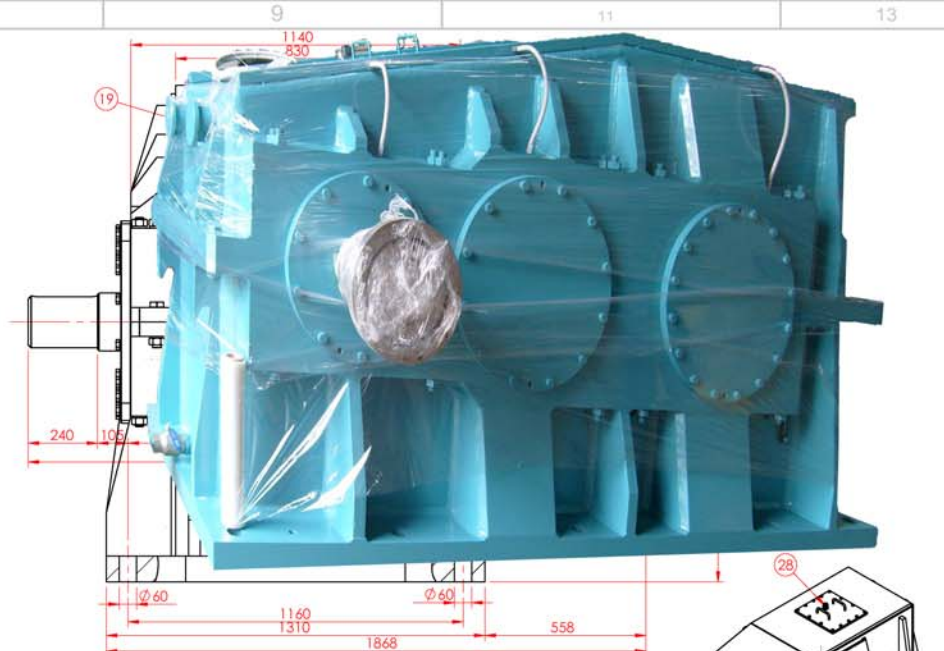
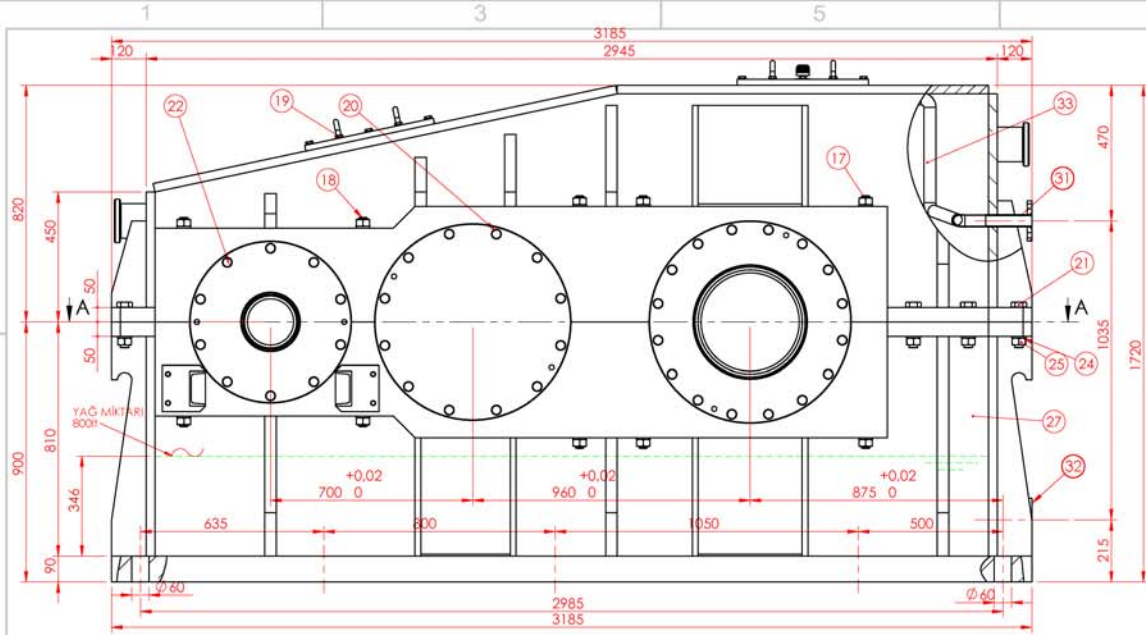
Power	P	570 kW
Input Revolution	n1	680 rpm
Output Revolution	n2	68 rpm
Input Torque (Nominal)	M1	8006 Nm
Output Torque (Max.)	M1	20015 Nm
Number Of Output Shaft		1
Output Torque per output shaft (Nominal)	M2	80052 Nm
Output Torque per output shaft (Max)	M2	200130 Nm
Ratio	i	10
Service Factor	sf	2,5

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

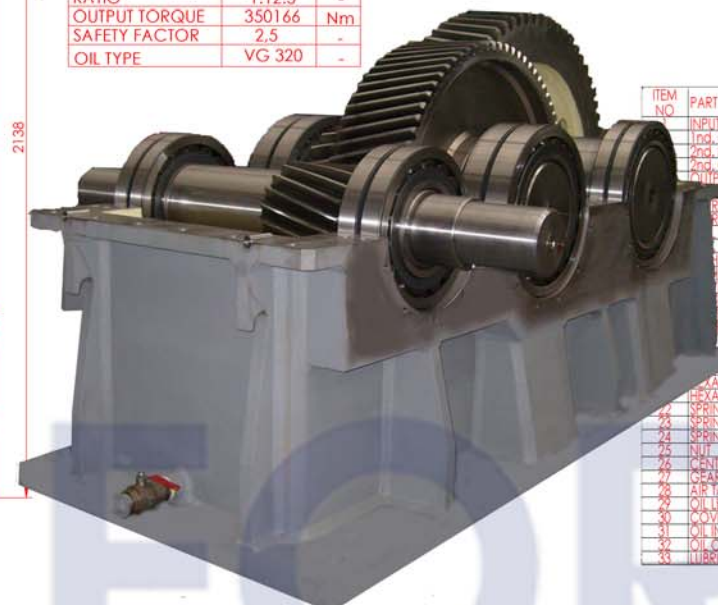
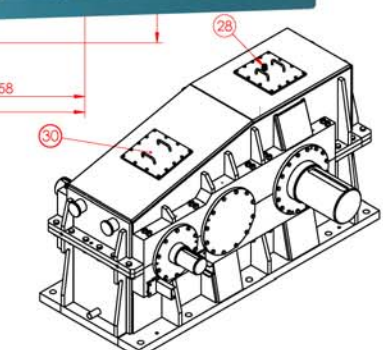




PICTURAL DIGEST OF OUR PRODUCTION OF CUSTOMER-SPECIFIC GEAR UNITS



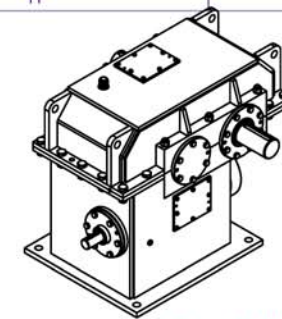
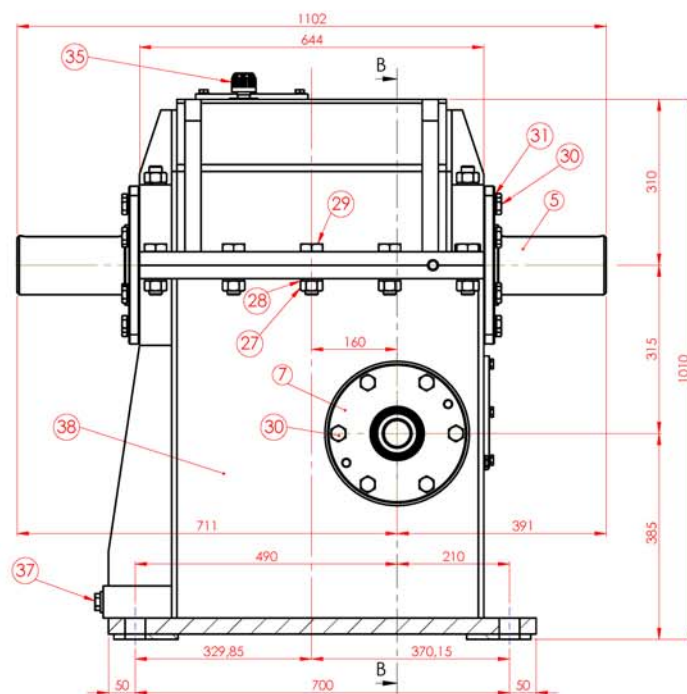
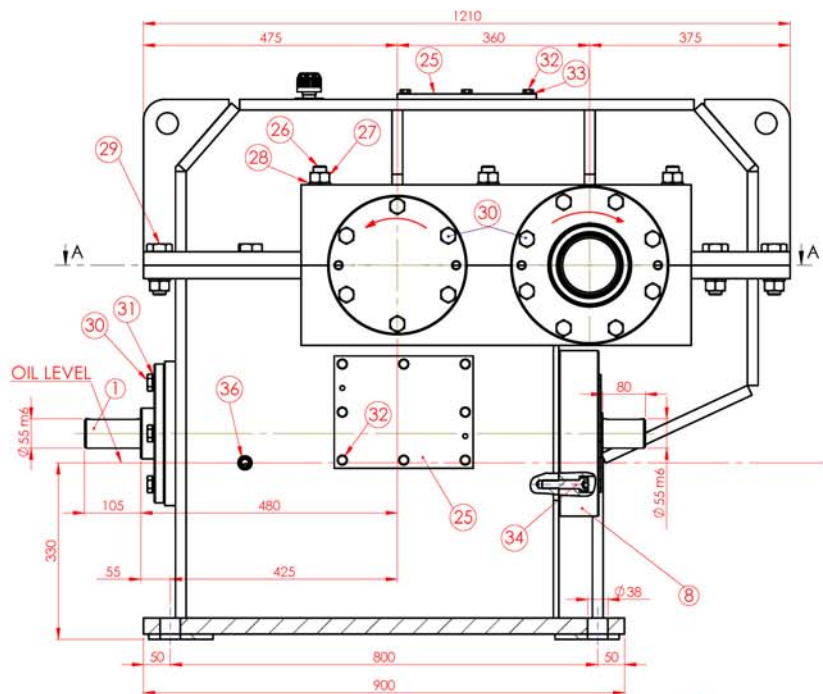
POWER	2200	Kw
INPUT SPEED	750	d/d
INPUT TORQUE	28013.3	Nm
OUTPUT SPEED	59.94	d/d
RATIO	1:12.5	-
OUTPUT TORQUE	350166	Nm
SAFETY FACTOR	2.5	-
OIL TYPE	VG 320	-



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	210
8	BEARING	2	ST 37	115
9	BEARING	2	ST 37	150
10	BEARING	2	ST 37	150
11	BEARING	2	ST 37	150
12	BEARING	2	ST 37	150
13	BEARING	2	ST 37	150
14	BEARING	2	ST 37	150
15	BEARING	2	ST 37	150
16	BEARING	2	ST 37	150
17	BEARING	2	ST 37	150
18	BEARING	2	ST 37	150
19	BEARING	2	ST 37	150
20	BEARING	2	ST 37	150
21	BEARING	2	ST 37	150
22	BEARING	2	ST 37	150
23	BEARING	2	ST 37	150
24	BEARING	2	ST 37	150
25	BEARING	2	ST 37	150
26	BEARING	2	ST 37	150
27	BEARING	2	ST 37	150
28	BEARING	2	ST 37	150
29	BEARING	2	ST 37	150
30	BEARING	2	ST 37	150
31	BEARING	2	ST 37	150
32	BEARING	2	ST 37	150
33	BEARING	2	ST 37	150

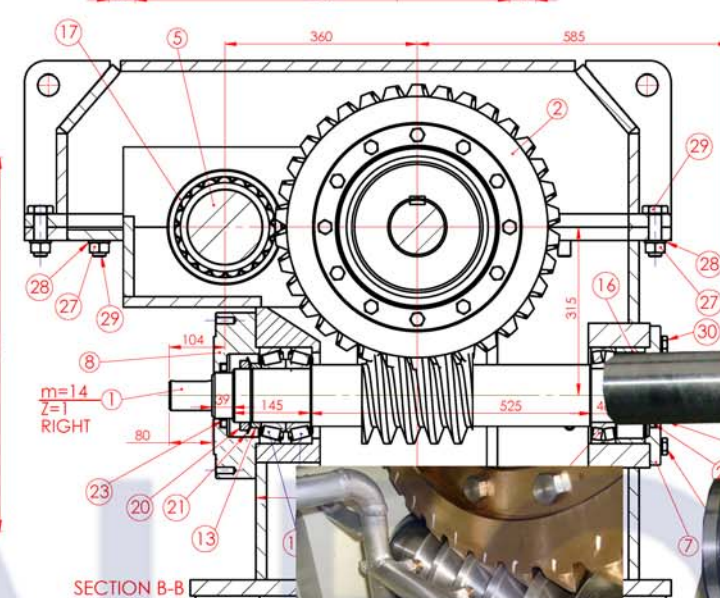
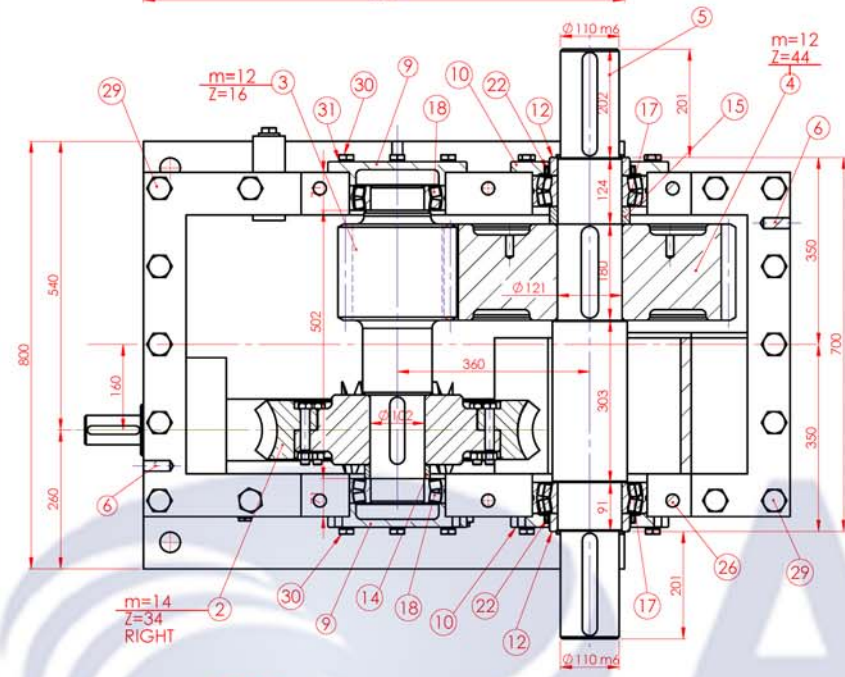


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Power	P	30 kW
Input Revolution	n1	730 rpm
Output Revolution	n2	7.81 rpm
Input Torque (Nominal)	M1	393 Nm
Input Torque (Max.)	M1	786 Nm
Number of Output Shaft		2
Output Torque per Shaft (Nominal)	M2	36695 Nm
Output Torque per Shaft (Max.)	M2	73391 Nm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

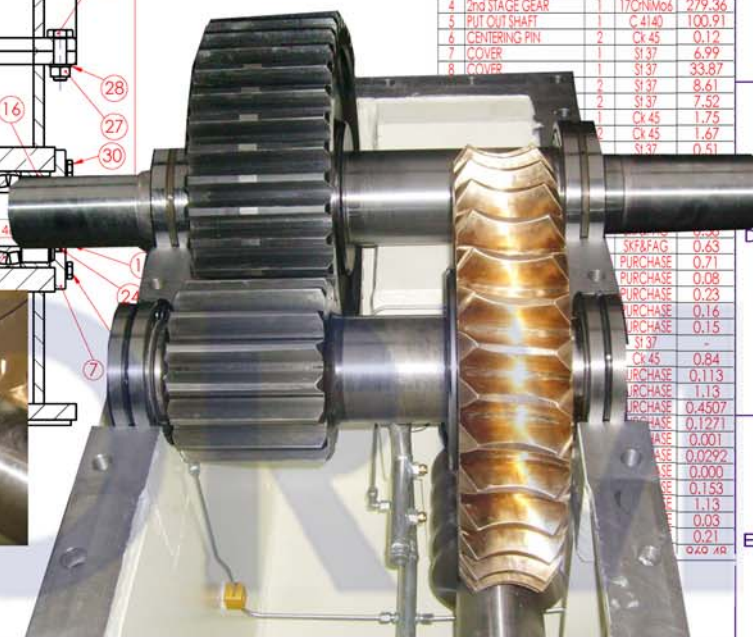
	1 STAGE WORM GEAR	2 STAGE GEAR
Z1	1	16
Z2	34	44
M	14	12
B	5.28487°	0
HELICAL POSITION	RIGHT	RIGHT
CENTER DISTANCE	315	360
RATIO	34	2.75

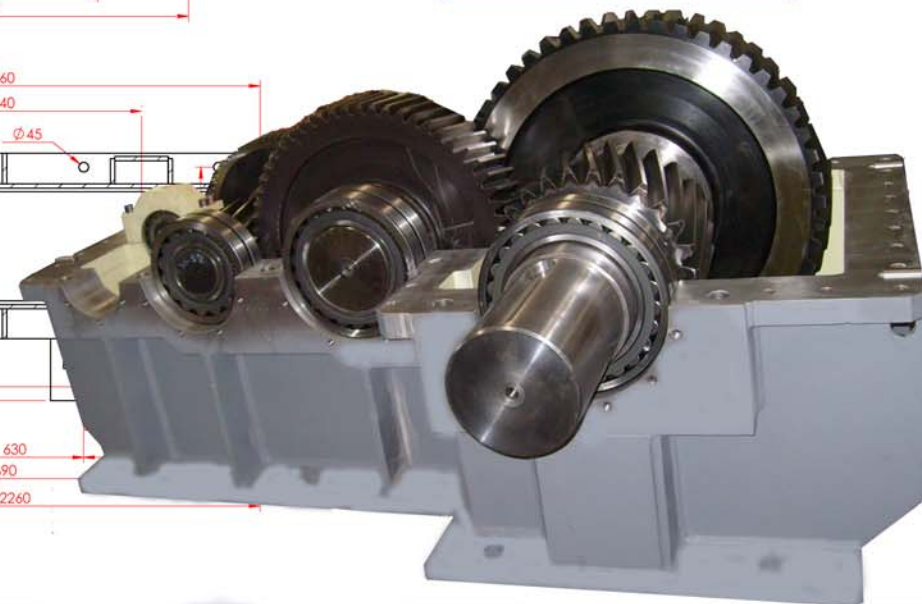
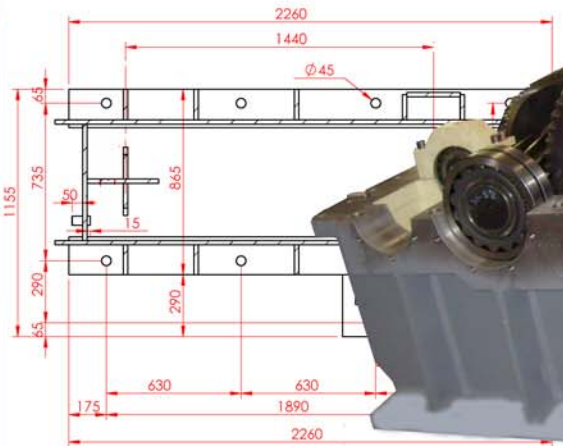
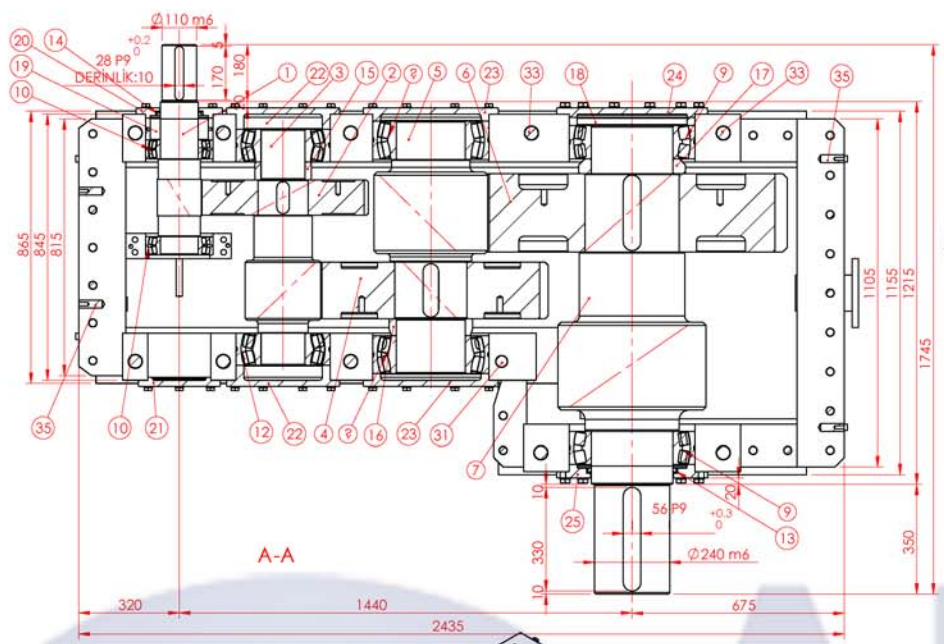
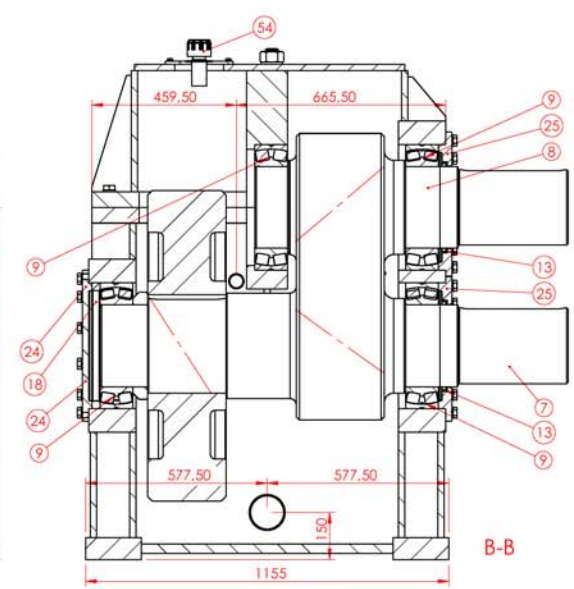
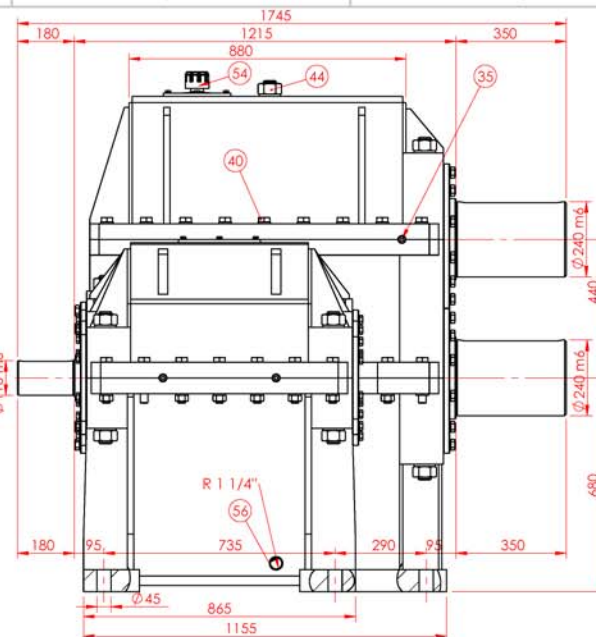
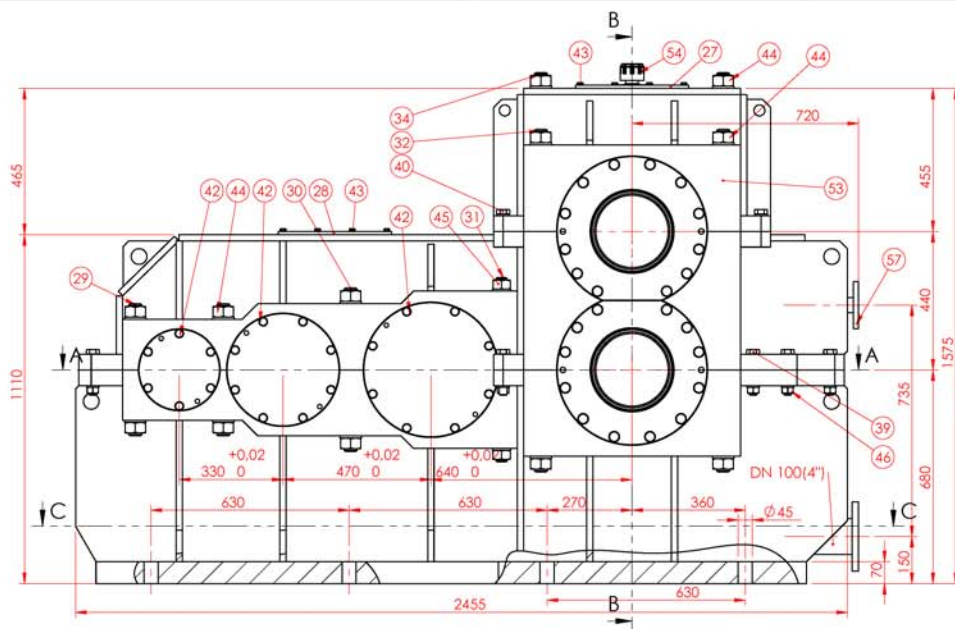


POS	DESCRIPTION	QTY	MATERIAL	WEIGHT
1	INPUT PINION (WORM GEAR)	1	8620	75.89
2	1ST STAGE PINION (WORM GEAR)	1	CuSn12	153.31
3	2ND STAGE PINION	1	17CrNiMo6	87.11
4	2ND STAGE GEAR	1	17CrNiMo6	279.36
5	PUT OUT SHAFT	1	C 4140	100.91
6	CENTERING PIN	2	Ck 45	0.12
7	COVER	1	St 37	6.99
8	COVER	1	St 37	33.87

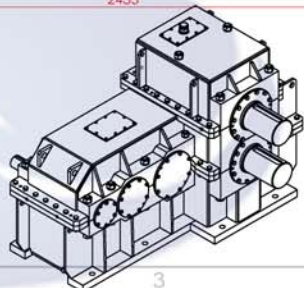
9	COVER	1	St 37	8.61
10	COVER	1	St 37	7.52
11	COVER	1	St 37	1.75
12	COVER	1	St 37	1.67
13	COVER	1	St 37	0.51
14	COVER	1	St 37	0.51
15	COVER	1	St 37	0.51
16	COVER	1	St 37	0.51
17	COVER	1	St 37	0.51
18	COVER	1	St 37	0.51
19	COVER	1	St 37	0.51
20	COVER	1	St 37	0.51
21	COVER	1	St 37	0.51
22	COVER	1	St 37	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
27	COVER	1	St 37	0.51
28	COVER	1	St 37	0.51
29	COVER	1	St 37	0.51
30	COVER	1	St 37	0.51
31	COVER	1	St 37	0.51
32	COVER	1	St 37	0.51
33	COVER	1	St 37	0.51
34	COVER	1	St 37	0.51
35	COVER	1	St 37	0.51
36	COVER	1	St 37	0.51
37	COVER	1	St 37	0.51
38	COVER	1	St 37	0.51

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





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