

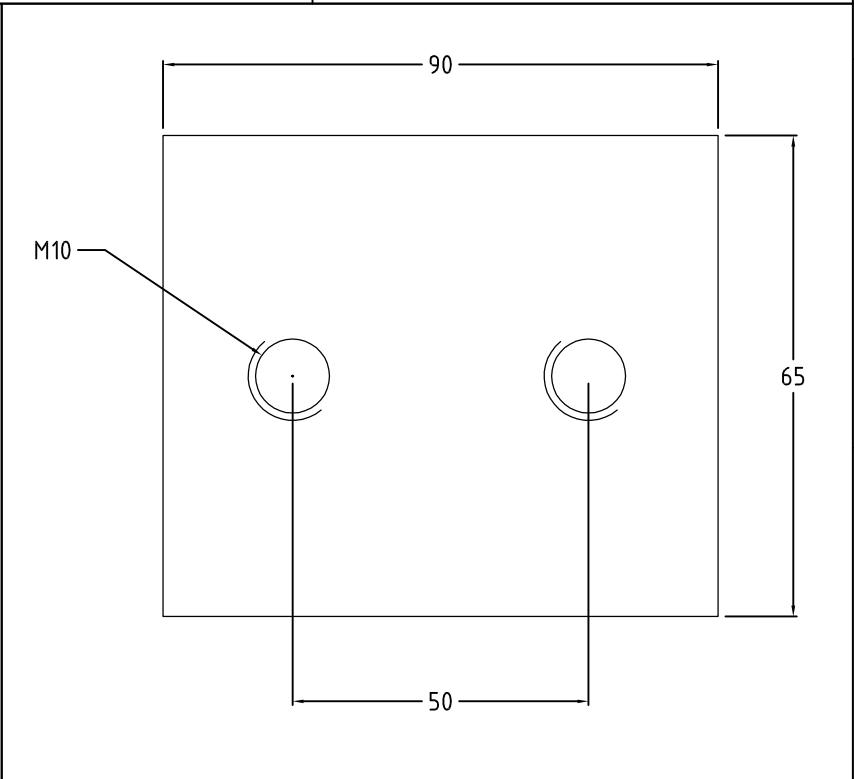
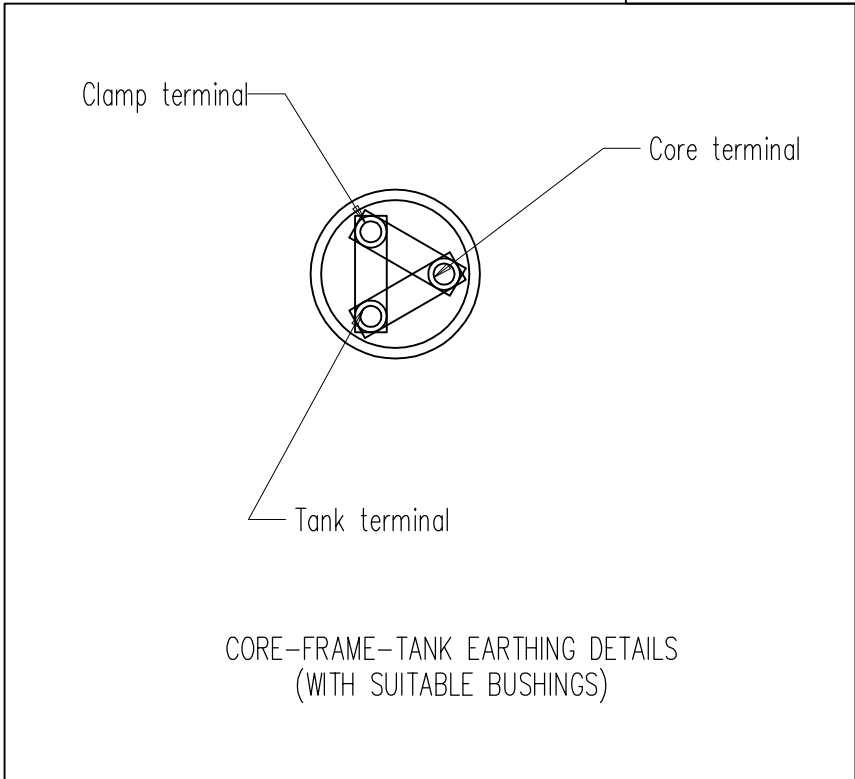
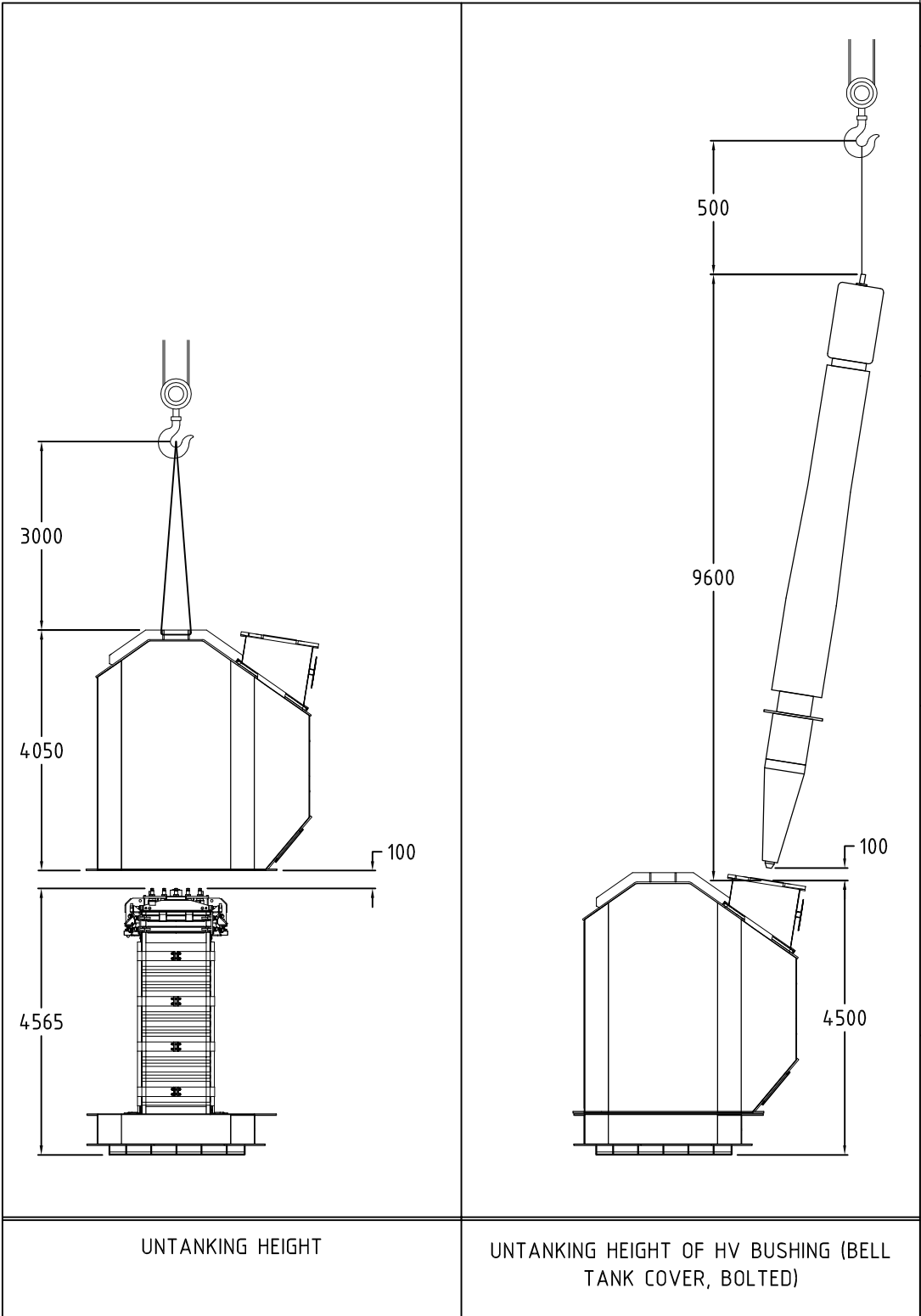
MINIMUM CLEARANCE IN AIR AS PER IEC 60076-3		
TERMINAL	PHASE TO PHASE	PHASE TO EARTH
HV	6700	5900
HVN	1500	1150

DESCRIPTION	MASS (kg)
ACTIVE PART	60900
TANK & ACCESSORIES	23000
TOTAL OIL	23100
OVERALL	107000
TRANSPORT (GAS FILLED)	80000

APPROXIMATE DIMENSIONS OF THE REACTOR		
	OVERALL	TRANSPORT
LENGTH	6870	4325
WIDTH	6050	3900
HEIGHT	12260	4800

NOTE:

1. TOLERANCE ON MASS & DIMESNIONS SHALL BE ±5%, UNLESS OTHERWISE SPECIFIED.
2. ALL DIMENSIONS ARE IN MM.
3. PAINT SHADE:- RAL 7035.
4. ITEM NUMBER FOR FITTINGS ARE STANDARDIZED FOR OUR EASY REFERENCE AND HENCE NOT CONTINUOUS.
5. FOR ASSEMBLY OF LOOSE FABRICATED PARTSREFER TAG IDENTIFICATION DRAWING (PART OF OPERATION & MAINTENANCE MANUALS).



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0	First issue	28.04.2018	AJ	AP	MQ
REV	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
DOCUMENT TITLE:		WORK ORDER:		TOTAL MASS:	
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DRAWING NO.:		CGT3-OGA-14224Q		REV.:	
Crompton Greaves Ltd. TRANSFORMER DIVISION MANDIDEEP, BHOPAL		SCALE:		SHEET OF	
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Customer	M/s Tamil Nadu Transmission Corporation Limited
Project	765 / 400 kV Air Insulated Substation Ariyalur
Contractor	BHEL
LOA NO.	TBMM / 157E227 / Ariyalur / 765kV Reactors / LOI / GA

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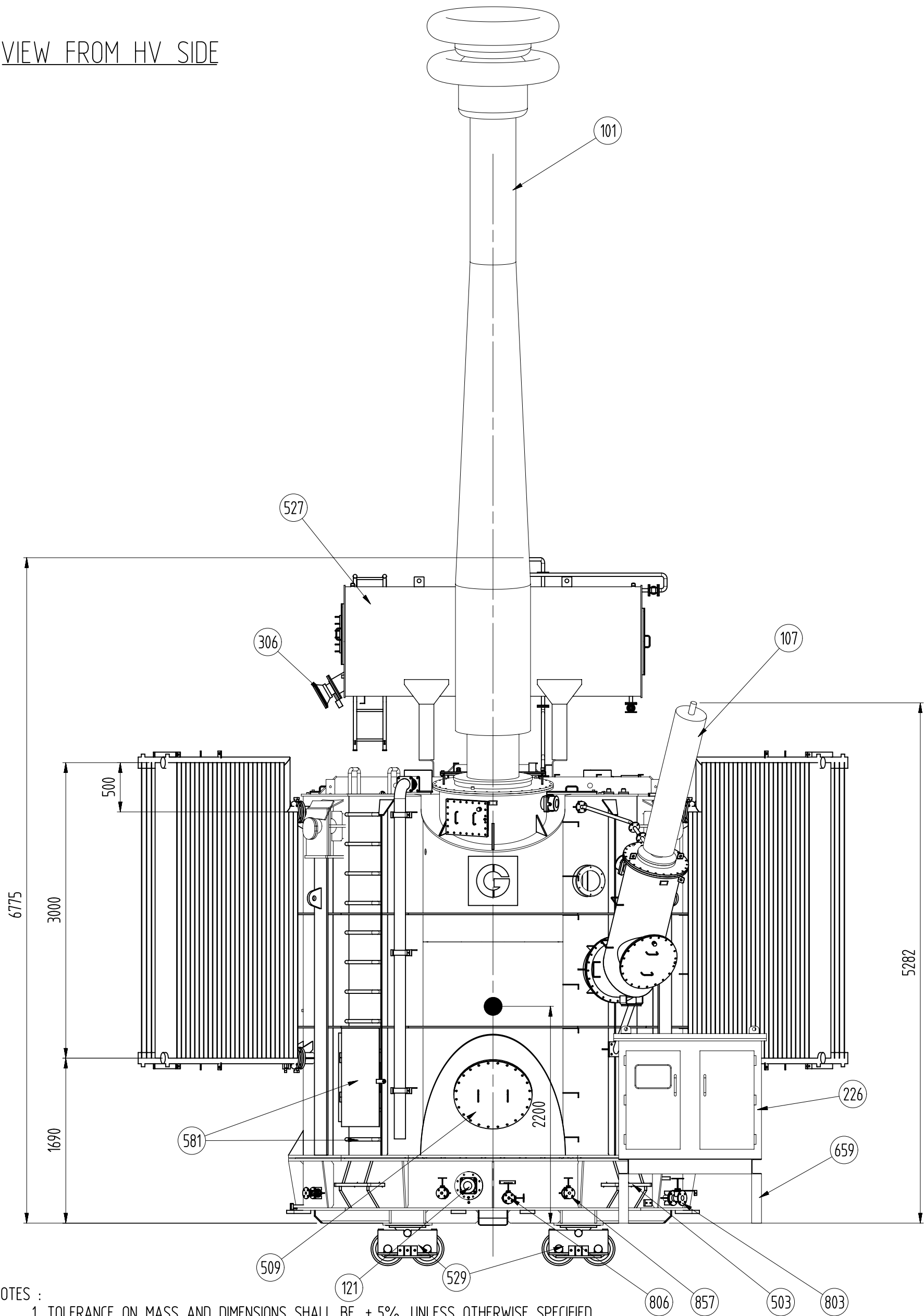
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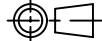
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VIEW FROM HV SIDE



- NOTES :
1. TOLERANCE ON MASS AND DIMENSIONS SHALL BE $\pm 5\%$, UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE IN MM
 3.  DENOTES CENTRE OF GRAVITY.

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Contractor	BHEL
LOA NO.	TBMM /157E227 / Ariyalur / 765kV Reactors / LOI / GA

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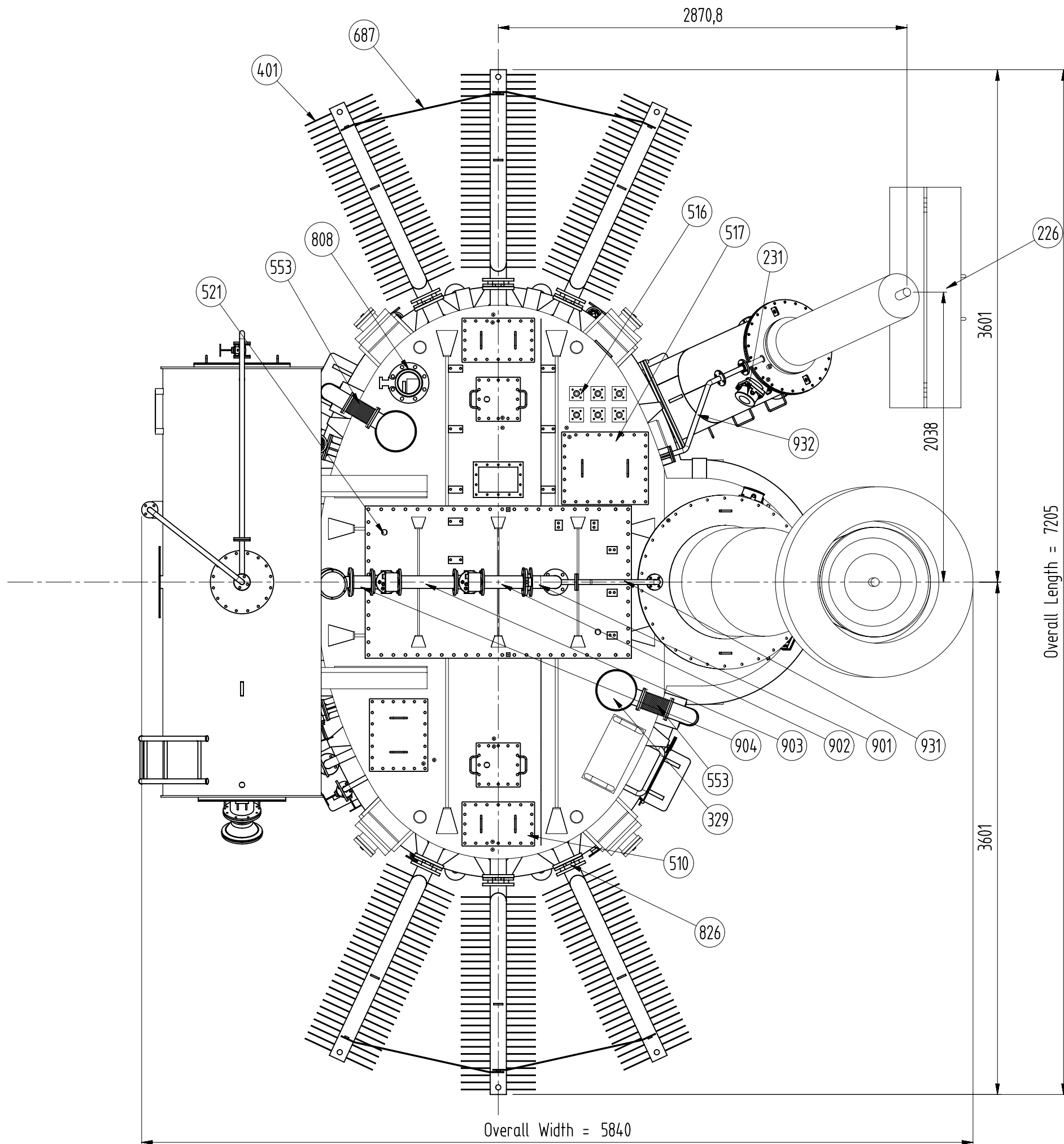
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TOP VIEW



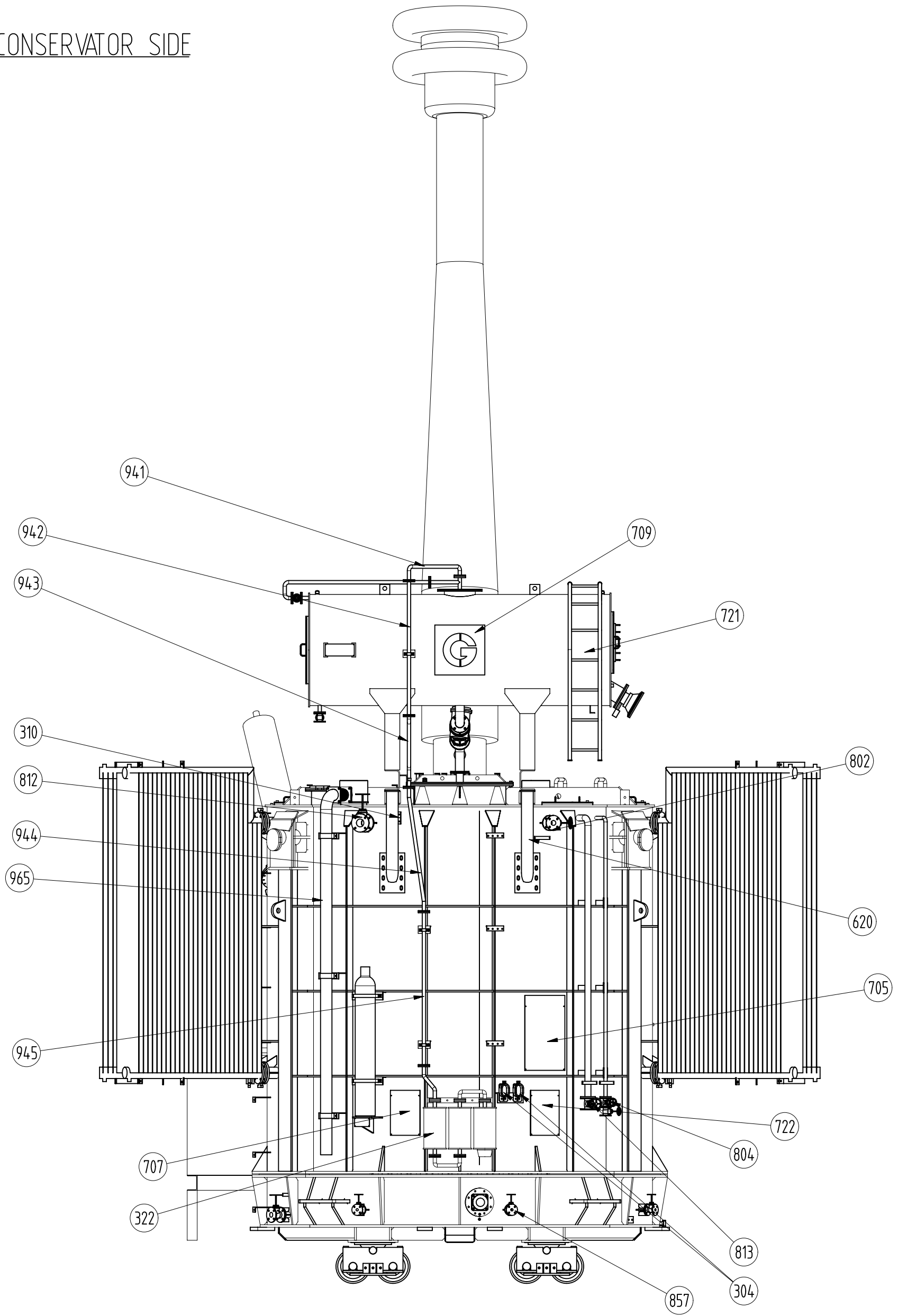
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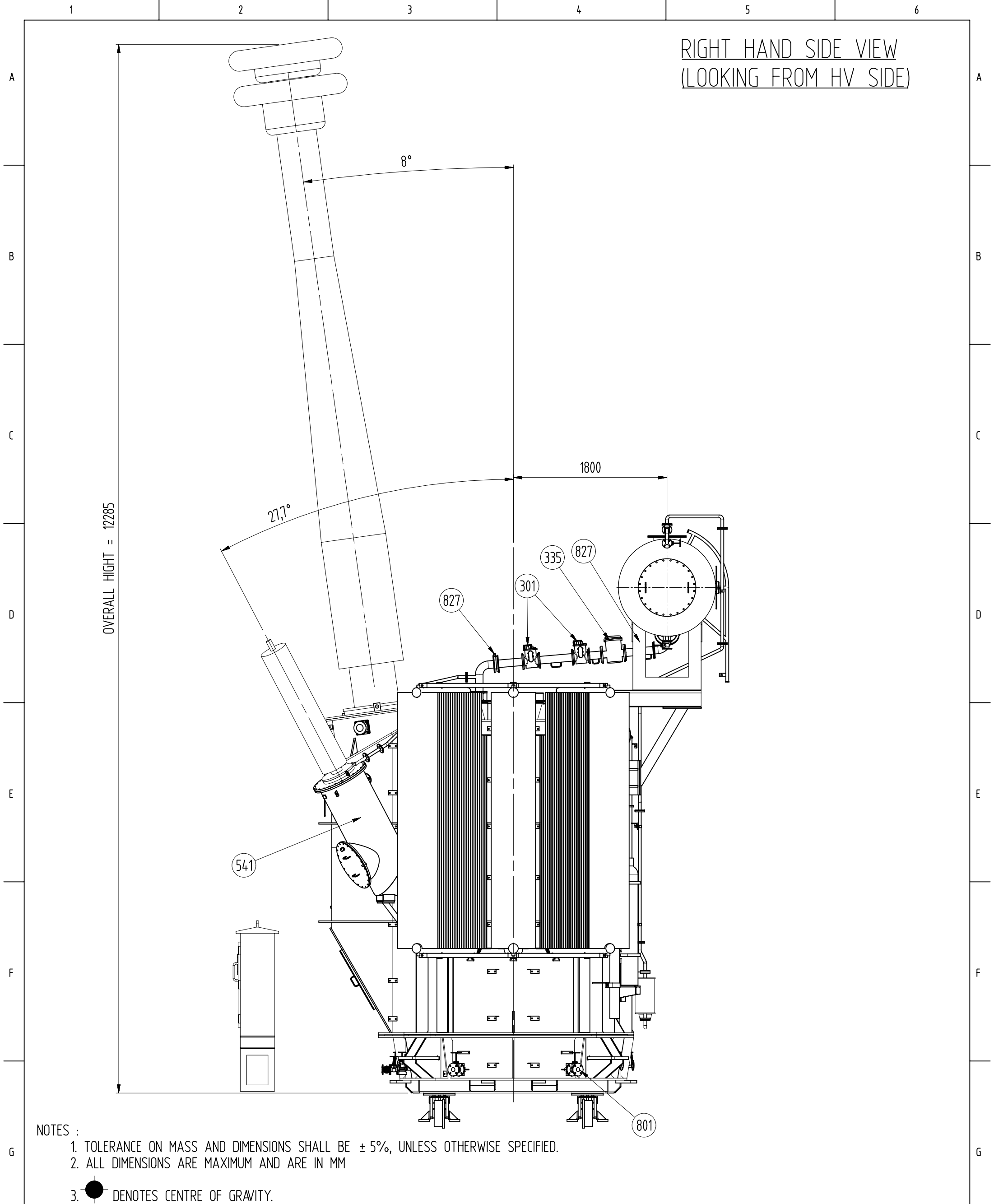
VIEW FROM CONSERVATOR SIDE



- NOTES :
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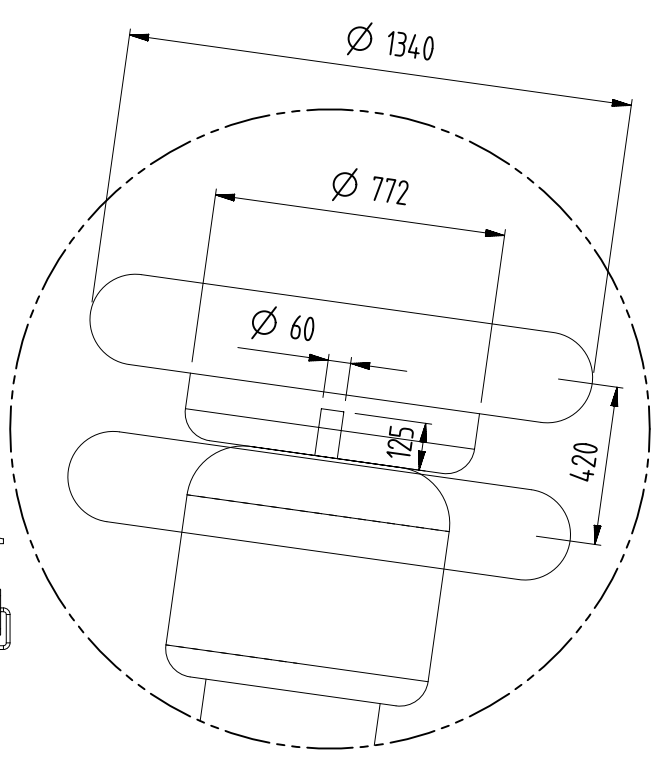
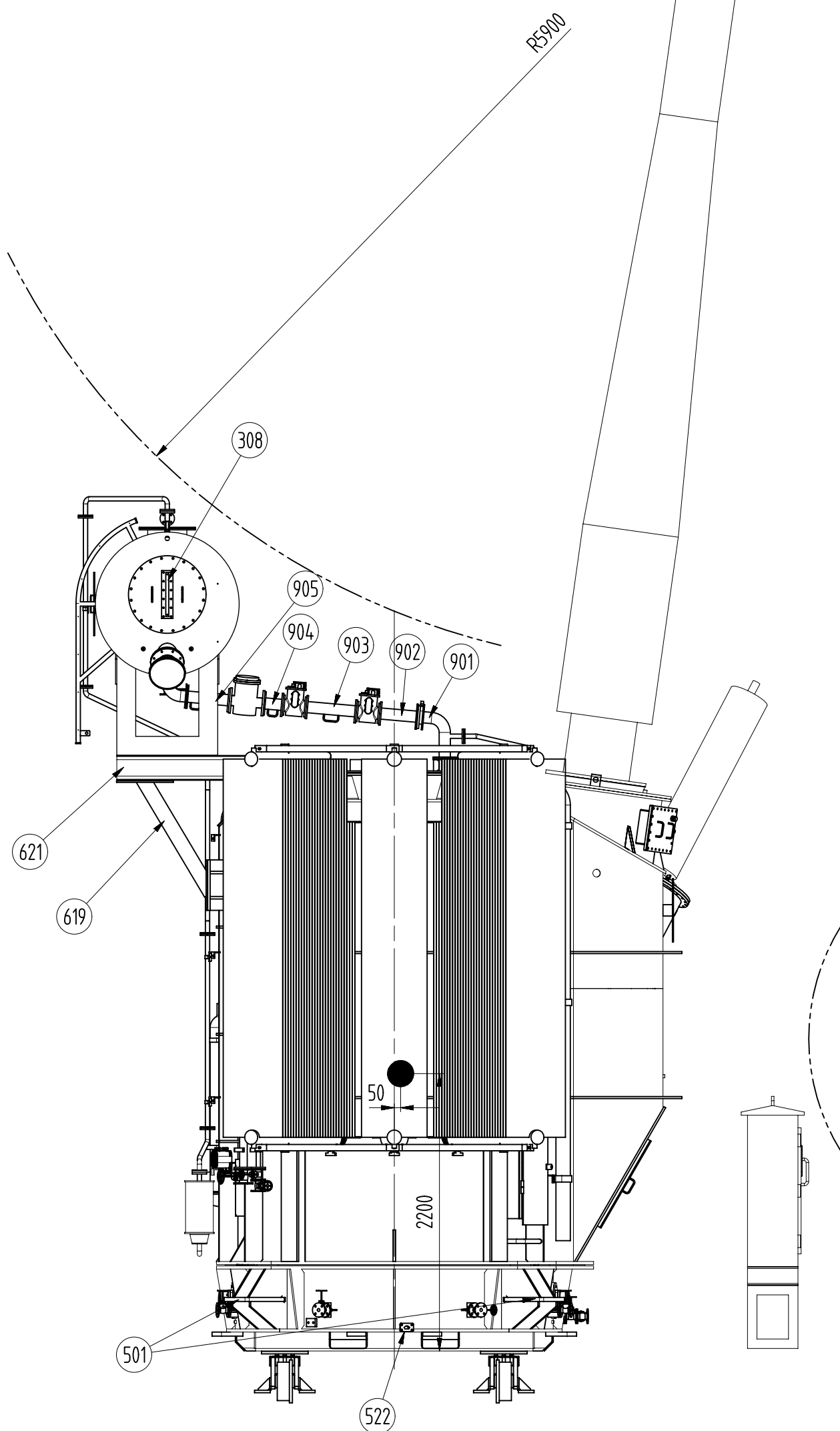


- NOTES :
- 1. TOLERANCE ON MASS AND DIMENSIONS SHALL BE $\pm 5\%$, UNLESS OTHERWISE SPECIFIED.
 - 2. ALL DIMENSIONS ARE MAXIMUM AND ARE IN MM
 - 3. DENOTES CENTRE OF GRAVITY.

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LEFT HAND SIDE VIEW
(LOOKING FROM HV SIDE)



DETAIL B
SCALE 1:20

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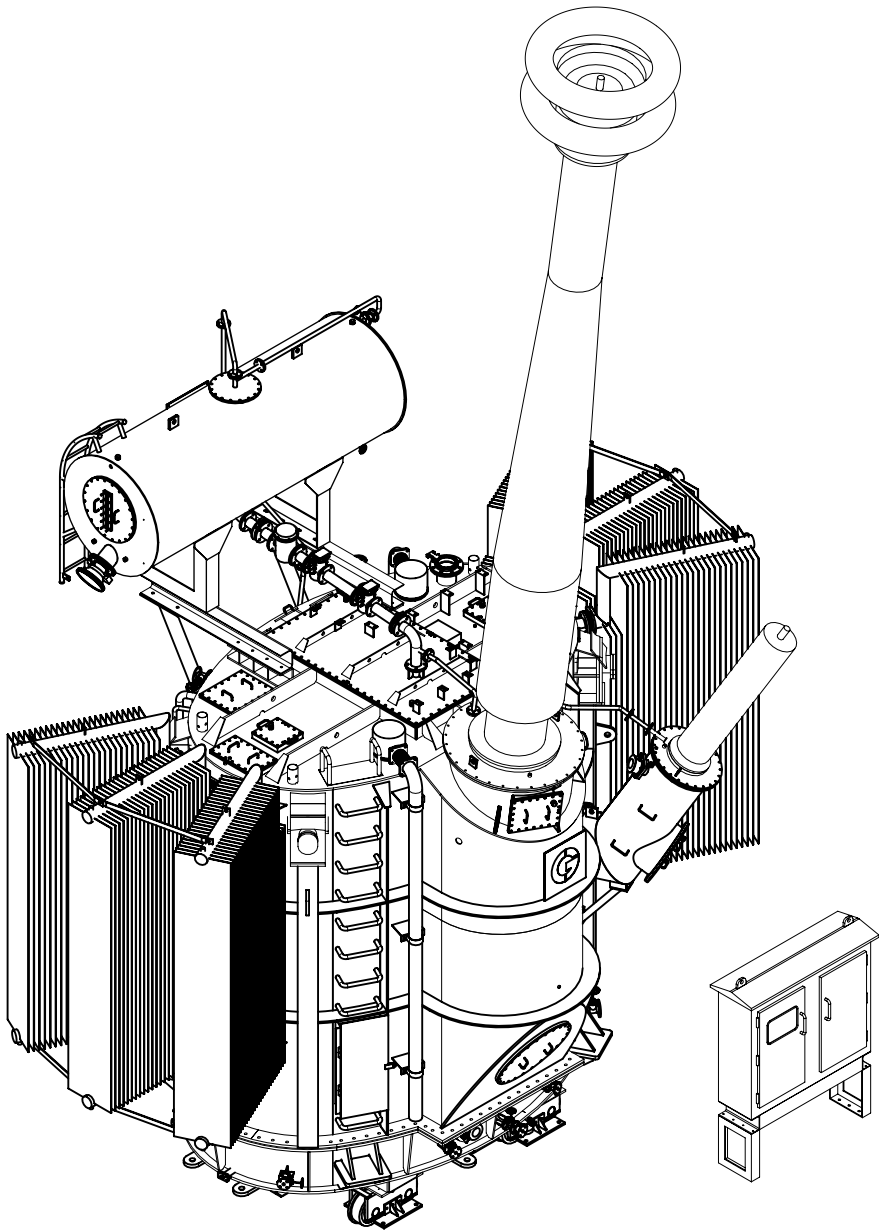
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IT. NO.	DESCRIPTION	QTY	
101	HV BUSHING - 800kV	1	SH_2-A-4
107	NEUTRAL BUSHING - 145kV TERMINAL	1	SH_2-C-4
121	CORE EARTHING TERMINAL	1	SH_2-G-3
226	MARSHALLING BOX (GROUND MTD)	1	SH_2-E-6
231	CT SECONDARY TERMINAL BOX	4	SH_3-E-5
301	BUCHHOLZ RELAY	2	SH_5-D-4
304	GAS COLLECTING DEVICE	2	SH_4-F-5
306	MOG MAIN CONSERVATOR	1	SH_2-D-2
308	PLAIN OIL GAUGE MAIN CONSERVATOR	1	SH_6-C-2
310	TANK OIL GAUGE	1	SH_6-E-4
312	WTI MTD IN M.BOX	1	-
313	OTI MTD IN M.BOX	1	-
322	BREATHER MAIN CONSERVATOR	1	SH_4-F-3
329	PRESSURE RELIEF DEVICE WITH SHROUD	2	SH_3-D-5
332	SHOCK RECORDER	1	SH_3-E-5
335	PRE STRESSED NON RETURN VALVE (PNRV)	1	SH_5-D-4
401	RADIATOR	6	SH_3-B-4
501	LIFTING DEVICE FOR ASSEMBLED REACTOR	4	SH_6-G-3
503	JACKING PAD	4	SH_2-G-5
506	HAULAGE LUG	4	SH_2-G-2
509	INSPECTION COVER	1	SH_2-F-3
510	INSPECTION COVER	3	SH_3-E-5
511	INSPECTION COVER	1	SH_4-E-2
514	UNDERBASE	1	SH_2-G-2
516	THERMOMETER POCKET FOR WTI	1	SH_3-C-3
517	THERMOMETER POCKET FOR OTI	1	SH_3-C-3

IT. NO.	DESCRIPTION	QTY	
816	CONSERVATOR DRAIN CUM SAMPLING VALVE 50NB	1	SH_4-D-3
826	RADIATOR SHUT-OFF VALVE 100NB	16	SH_3-F-4
827	B'RELAY SHUT-OFF VALVE 80NB	2	SH_5-D-3
851	CONS. COPS PROCESSING VALVE 25NB	1	SH_4-C-3
857	N2 INJECTION VALVE 25NB	6	SH_2-G-5
901-905	B'RELAY PIPE	1 EACH	SH_6-D-3
931	HV AIR VENT PIPE	1	SH_3-D-5
932	HVN AIR VENT PIPE	1	SH_3-D-2
941-945	MAIN BREATHER PIPE	1 EACH	SH_4-C-5
964	PRD SPILL PIPE	1	SH_2-F-4
965	PRD SPILL PIPE	1	SH_4-F-4
986	TOP SAMPLING PIPE	1	SH_6-F-2
991	OIL FILLING PIPE	1	SH_6-F-4
1000	FOS MOUNTING	1	SH_2-E-5

IT. NO.	DESCRIPTION	QTY	
521	AIR RELEASE PLUG	2	SH_3-C-3
522	COMPLETE DRAIN ARRGT	1	SH_6-G-2
527	MAIN CONSERVATOR WITH COPS	1	SH_2-C-2
529	ROLLER ASSEMBLY	1-SET	SH_2-G-5
532	HV TURRET	1	SH_5-E-2
541	NEUTRAL TURRET	1	SH_5-E-5
553	EXPANSION BELLOW	2	SH_3-D-5
554	EXPANSION BELLOW 80 NB	1	SH_6-D-3
581	LADDER	1	SH_2-F-2
619	CONSERVATOR SUPPORT BRACKET	1-SET	SH_6-E-1
620	CONSERVATOR SUPPORT BRACKET	1-SET	SH_4-E-6
621	CONSERVATOR SUPPORT BRACKET	1-SET	SH_6-E-1
659	M.BOX SUPPORT BRACKET (GROUND MTD)	1	SH_2-F-5
687	RADIATOR TIE	8	SH_3-B-4
705	R&D PLATE	1	SH_4-E-5
707	VALVE SCHEDULE PLATE	1	SH_4-F-4
709	MONOGRAM PLATE	2	SH_4-C-5
721	COPS INSTRUCTION PLATE	1	SH_4-D-6
722	OIL FILLING INSTRUCTION PLATE	1	SH_4-F-5
801	DRAIN VALVE 50NB	1	SH_5-G4
802	FILTER VALVE TOP 50NB	1	SH_4-E-6
803	FILTER VALVE BTM 50NB	1	SH_2-F-5
804	SAMPLING VALVE TOP 25NB	2 (in series)	SH_6-G-2
806	SAMPLING VALVE BTM 25NB	2 (in series)	SH_2-G-4
808	VACUUM APPLICATION VALVE 150NB	1	SH_3-C-3
812	QUICK OIL DRAIN VALVE 80 NB	1	SH_4-D-2
813	OIL FILLING VALVE 50NB	1	SH_6-F-4



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