



PIPE CONNECTION FROM SHIPYARD  
FREE OF FORCES AND MOMENTS  
COMPENSATOR / BELLOW TO BE APPLIED  
FOR POSITIONING & INSTALLATION  
SEE DG 8020  
THERMAL ELONGATION SEE REMAKRS  
ON H-DRAWING DG 8155

Abgasseite  
EXHAUST SIDE

Abtriebsseite  
DRIVING END

PIPE CONNECTION FROM SHIPYARD  
FREE OF FORCES AND MOMENTS  
COMPENSATOR / BELLOW TO BE APPLIED  
FOR POSITIONING & INSTALLATION  
SEE DG 8020  
THERMAL ELONGATION SEE REMAKRS  
ON H-DRAWING DG 8155

ONLY FOR DESIGN WITH ELBA

ONLY FOR DESIGN WITH ELBA

TOOLS FOR PISTON  
AND CYL. COVER  
DISMANTLING

RECOMMENDED AREA TO  
BE COVERED BY THE  
ENGINE ROOM CRANE

SPARES

PLATFORM  
OUTLINE

MINIMUM AREA TO  
BE COVERED BY THE  
ENGINE ROOM CRANE

ENGINE ROOM HATCH

LIFTING AREA FOR  
SCAVENGE AIR COOLER

OUTLINE LOWER PLATFORM  
OUTLINE UPPER PLATFORM

FOR OVERHAUL OF TC  
SEE MANUAL OF TC BUILDER

DIMENSIONS FOR REFERENCE ONLY!  
THIS OUTLINE DRAWING CANNOT  
BE USED FOR THE FINAL DESIGN!  
PLEASE TAKE THE CORRESPONDING  
DESIGN GROUP!

SURFACE PROTECTION SEE GROUP 0344  
TOLERANCING PRINCIPLE ISO8015  
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Units mm kg NX  
Made 11.03.2020 f00922 Dasari  
Chkd 23.03.2020 r0002 Filegans  
Appd 23.03.2020 sth017 Thalmann

Basic Material  
Scale 1:40  
Design Group  
Drawing ID

Size A1 Page 1/1 Material ID  
DAAD128253

Net Weight

⊗ APPROXIMATE CENTER OF GRAVITY

WEIGHT WITHOUT WATER OR OIL = 288 t

\* SPACE FOR REMOVAL

\*\* ATTENTION: FREE SPACE FOR PASSAGE  
IS REDUCED, IF THE BASIS LEVEL  
ON THE SHIP IS HIGHER THAN THE  
CENTER OF CRANKSHAFT.

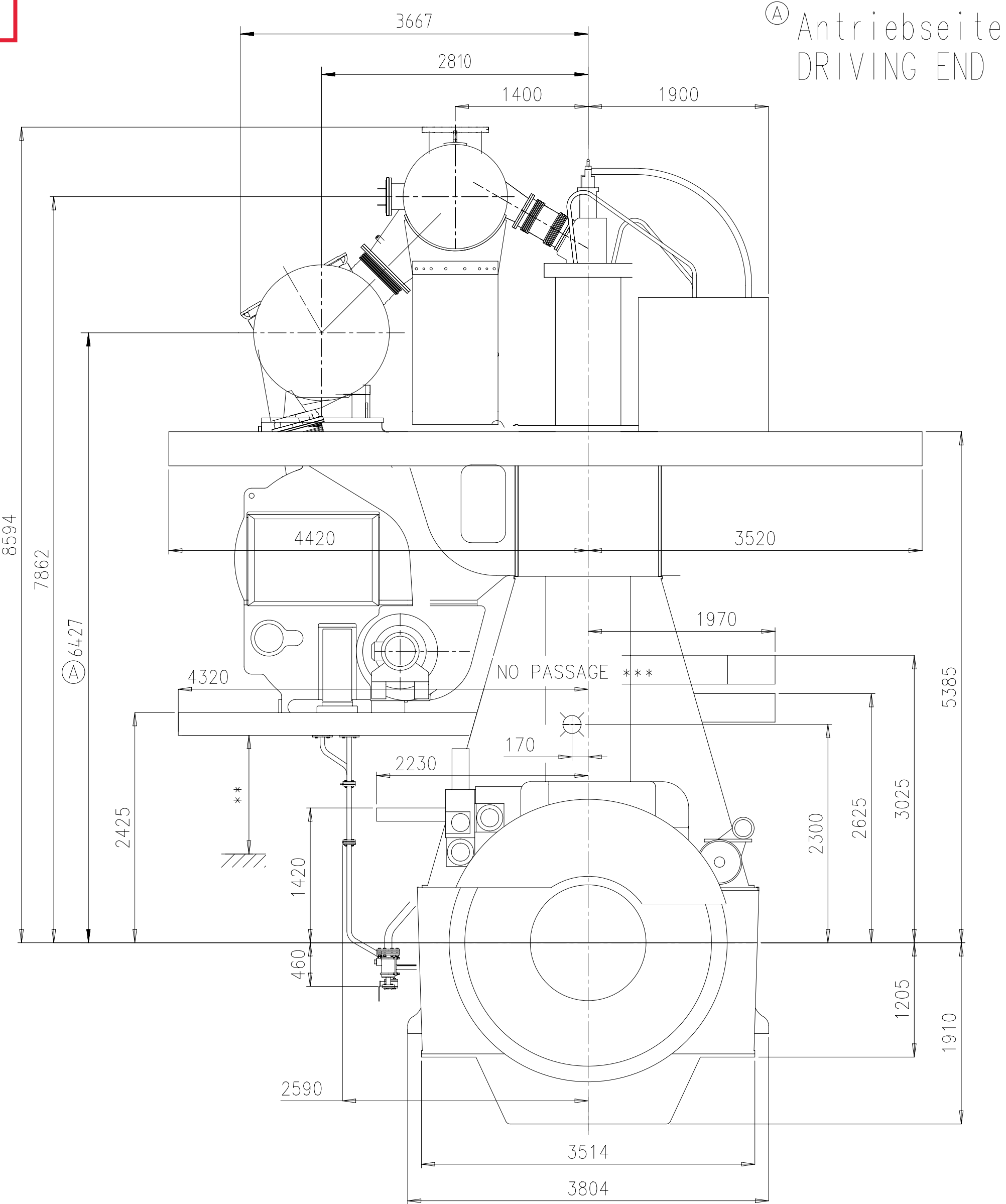
\*\*\* THE LOWER PLATFORM HAS NO PASSAGE  
ON THE DRIVING END-SIDE.  
IF A PASSAGE IS REQUIRED , A SHIP-SIDED  
WAY HAS TO BE ARRANGED

TURBOCHARGER axial A270-L

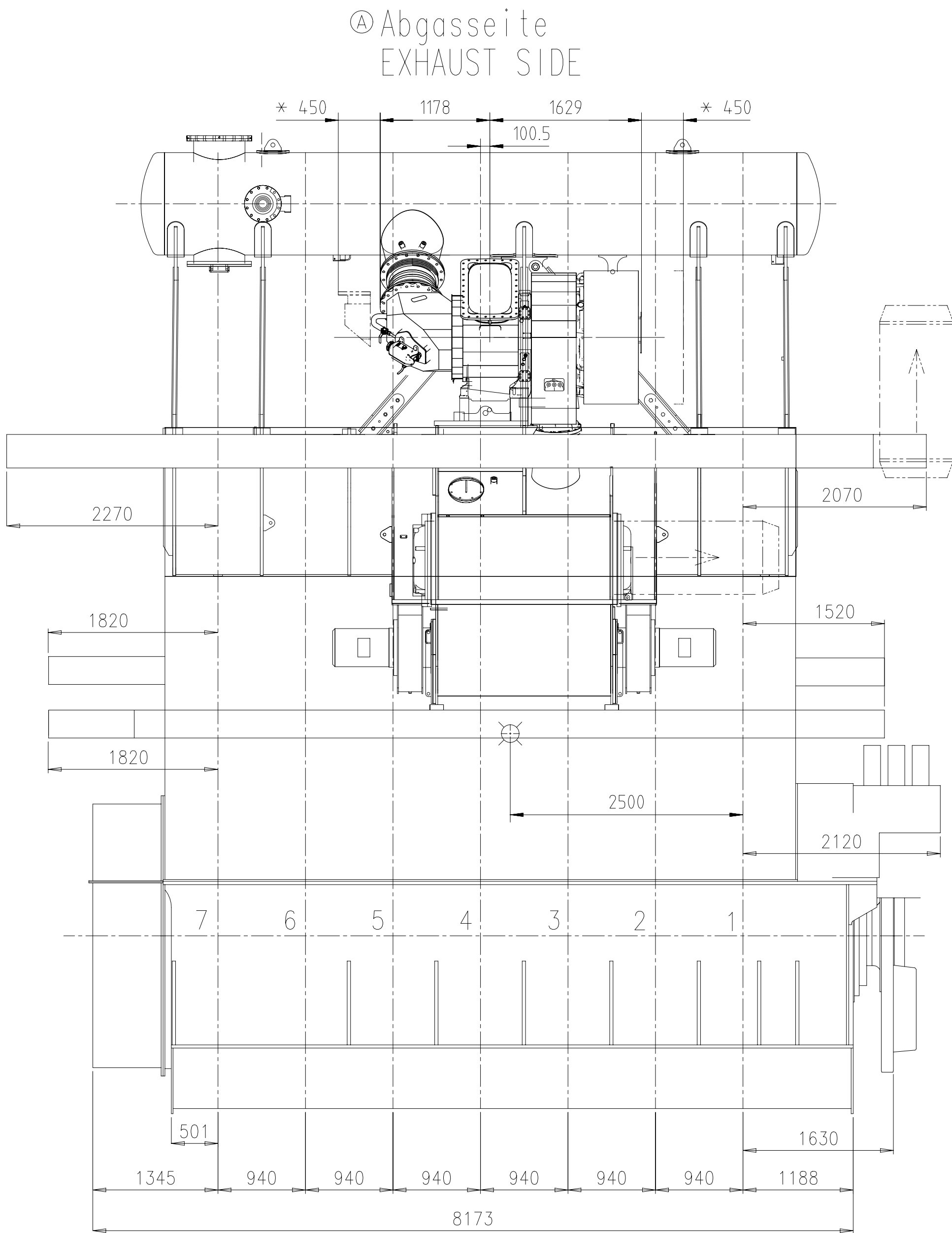
Net Weight	0,001	1	001	PAAD250126	DISMANTLING DIMENSIONS	DAAD086338	0,001
Quantity PER ENGINE	SEQ. NO	Material ID	Material Name	Dimension, Occ	Standard or Drawing	Basic Material Material Standard	Weight GR/NET
PAAD351857	Modif.	Free space for lic.	Material ID	Number	Drawn date	Number	Drawn date
Product	W7X52DF	ENGINE OUTLINE VIEW	HP SCR	Motoransichten	HP SCR	Net Weight	
Units	mm kg	NX	Basic Material	Scale	1:40	Size	A1
Page	1/1	Material ID	DAAD128253	Rev.	-		



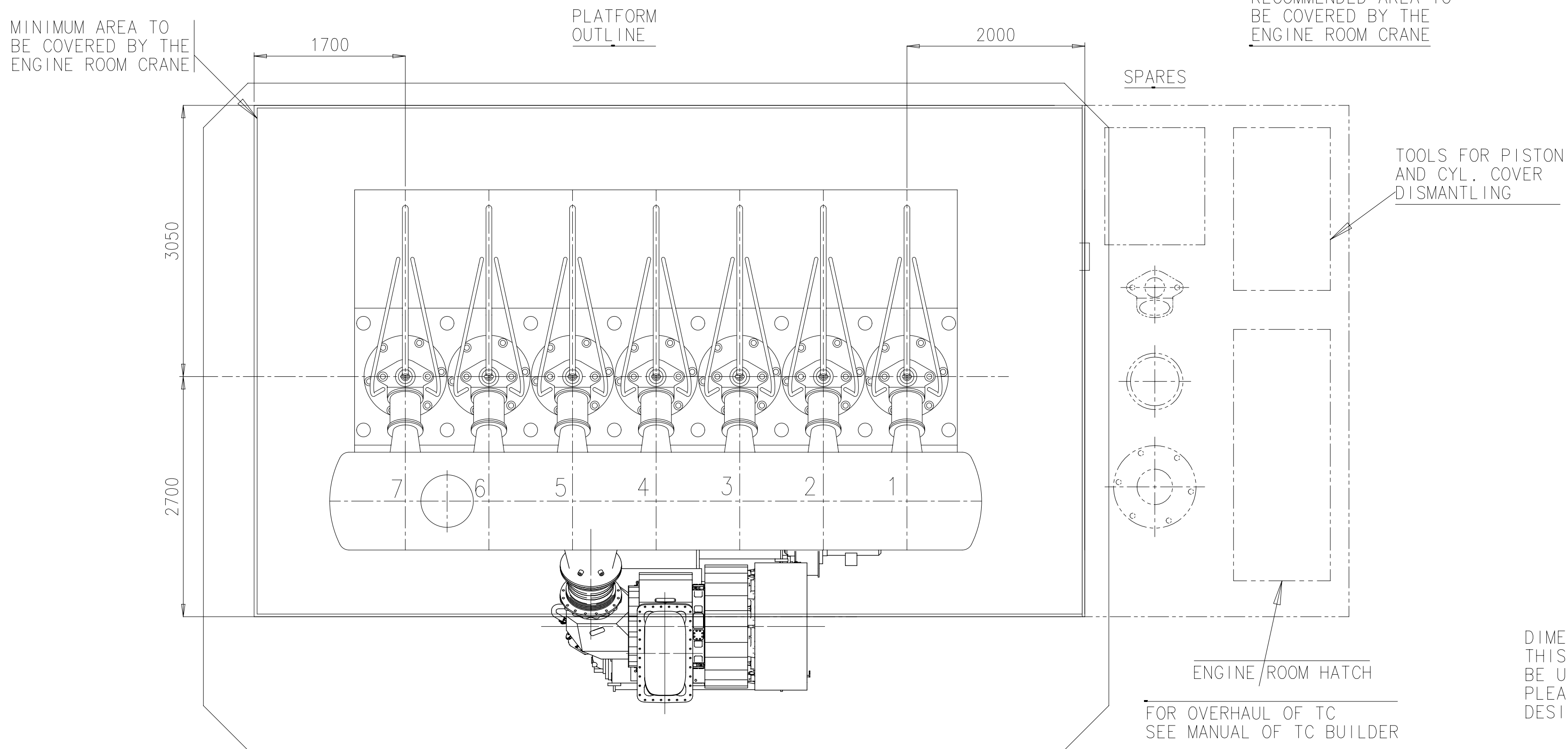
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Ⓐ Antriebsseite  
DRIVING END



Ⓐ Abgasseite  
EXHAUST SIDE



- ⊗ APPROXIMATE CENTRE OF GRAVITY  
WEIGHT WITHOUT WATER OR OIL =288t
- \* SPACE FOR REMOVAL
  - \*\* ATTENTION: FREE SPACE FOR PASSAGE IS REDUCED, IF THE BASIS LEVEL OF THE SHIP IS HIGHER THAN THE CENTRE OF THE CRANKSHAFT
  - \*\*\* THE LOWER PLATFORM HAS NO PASSAGE ON THE DRIVING END SIDE. IF A PASSAGE IS REQUIRED, A SHIP SIDED WAY HAS TO BE ARRANGED

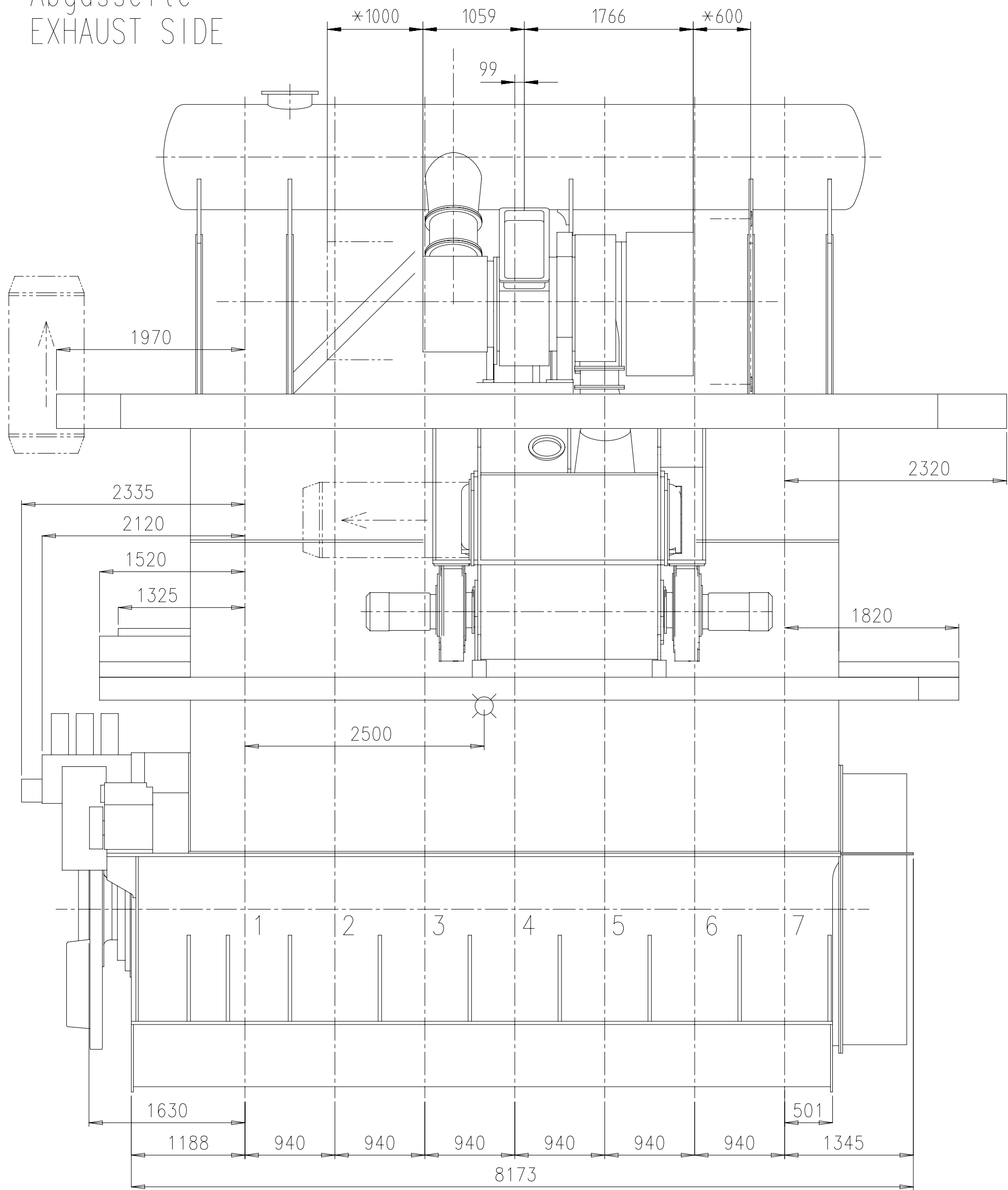
## TURBOCHARGER A270-L

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Quantity PER ENGINE	SEQ. NO.	Material ID	Material Name	Dimension, Occ.	Standard or Drawing	Basic Material Material Standard	Weight GR./NET
PAAD272627	Free space for TC	Modif.	EAAD095139	28.10.2020		XXXXX Standard ISO, JIS	Main Drw. H
Product	W7X52DF (LEFT)	Scale	1:40	Size	A1	Page	1/1
Units	mm kg	NX		Basic Material		Net Weight	
MADE	24.08.2017	rs0x04	R.W.Sold	Scale	1:40	Size	A1
Design Group	15.09.2017	uba001	Balsiger	Design Group	0812	Drawing ID	DAAD092455
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	15.09.2017	mda006	Dacic	0812	Drawing ID	DAAD092455	Rev. A

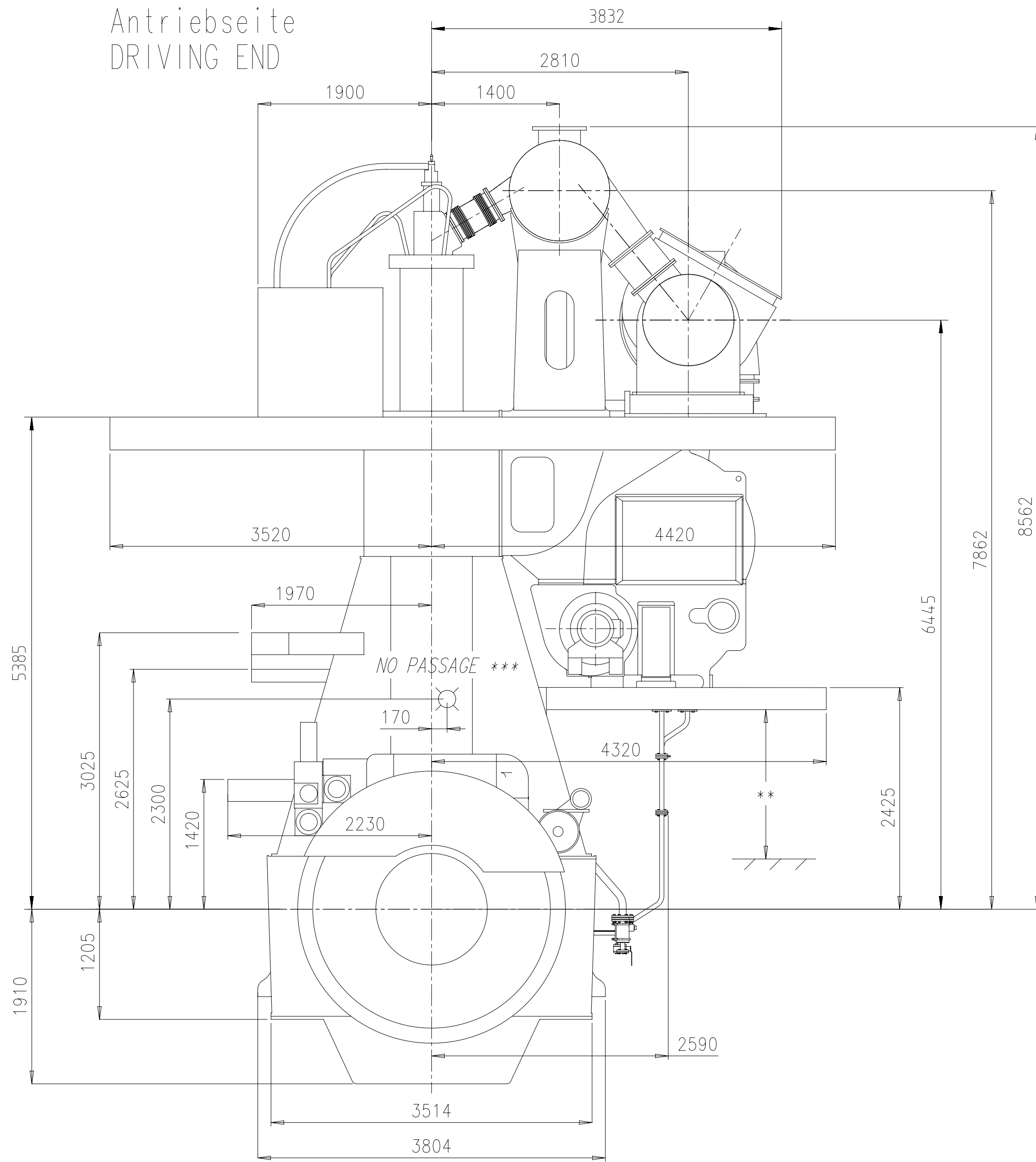
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Abgasseite  
EXHAUST SIDE



Antriebsseite  
DRIVING END



TOOLS FOR PISTON  
AND CYL. COVER  
DISMANTLING

RECOMMENDED AREA TO  
BE COVERED BY THE  
ENGINE ROOM CRANE

SPARES

PLATFORM  
OUTLINE

MINIMUM AREA TO  
BE COVERED BY THE  
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ENGINE ROOM HATCH

FOR OVERHAUL OF TC  
SEE MANUAL OF TC BUILDER

⊗ APPROXIMATE CENTRE OF GRAVITY

WEIGHT WITHOUT WATER OR OIL =288t

\* SPACE FOR REMOVAL

\*\* ATTENTION: FREE SPACE FOR PASSAGE IS REDUCED,  
IF THE BASIS LEVEL OF THE SHIP IS HIGHER  
THAN THE CENTRE OF THE CRANKSHAFT

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ON THE DRIVING END SIDE.  
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A SHIP SIDED WAY HAS TO BE ARRANGED

TURBOCHARGER MET60MB

Net Weight	0,001	1	001	PAAD250126	DISMANTLING DIMENSIONS	DAAD086338		0,001
Quantity PER ENGINE	SEQ. NO.	Material ID	Material Name	Dimension, Occ.	Standard or Drawing	Basic Material Material Standard	Weight GR/NET	
PAAD284422	Modif.	Free space for lic.	Material III			XXXXXX Standard ISO, JIS	Main Drw.	H
	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
Product: W7X52DF (STD)								
ENGINE OUTLINE VIEW								
1 x MET60MB								
Motoransichten								
1 x MET60MB								
Units	mm kg	NX	Basic Material	Scale	1:4.0	Size	Page	1/1
Made	29.01.2018	mbr102	Brühwiler	Design Group		Material ID		
Chkd	14.02.2018	r002	Filegans			Drawing ID		
Appd	14.02.2018	mda006	Dacic					
DAAD096718								
Rev. -								

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SURFACE PROTECTION SEE GROUP 0344  
TOLERANCING PRINCIPLE ISO8015  
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Units: mm kg  
Made: 29.01.2018  
Chkd: 14.02.2018  
Appd: 14.02.2018

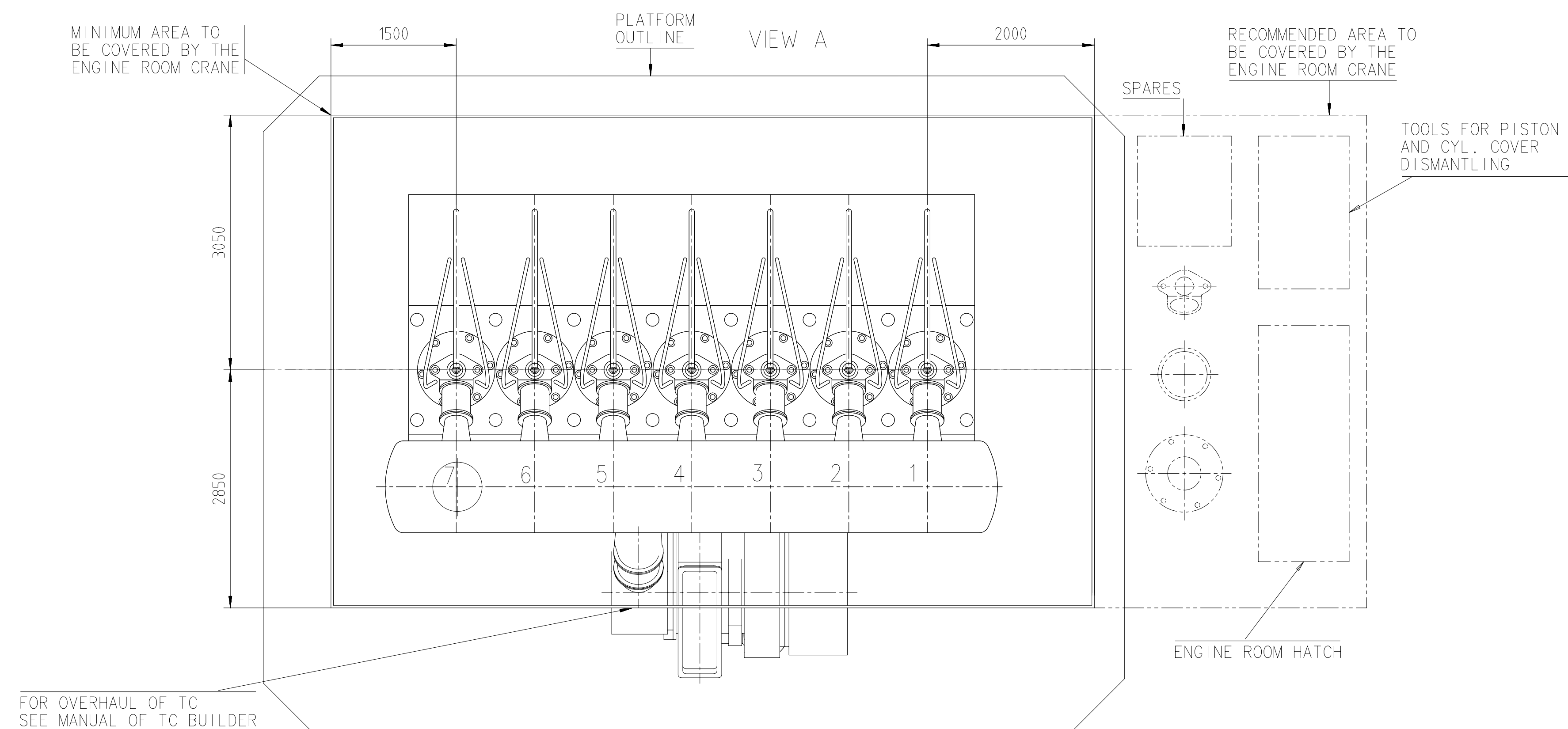
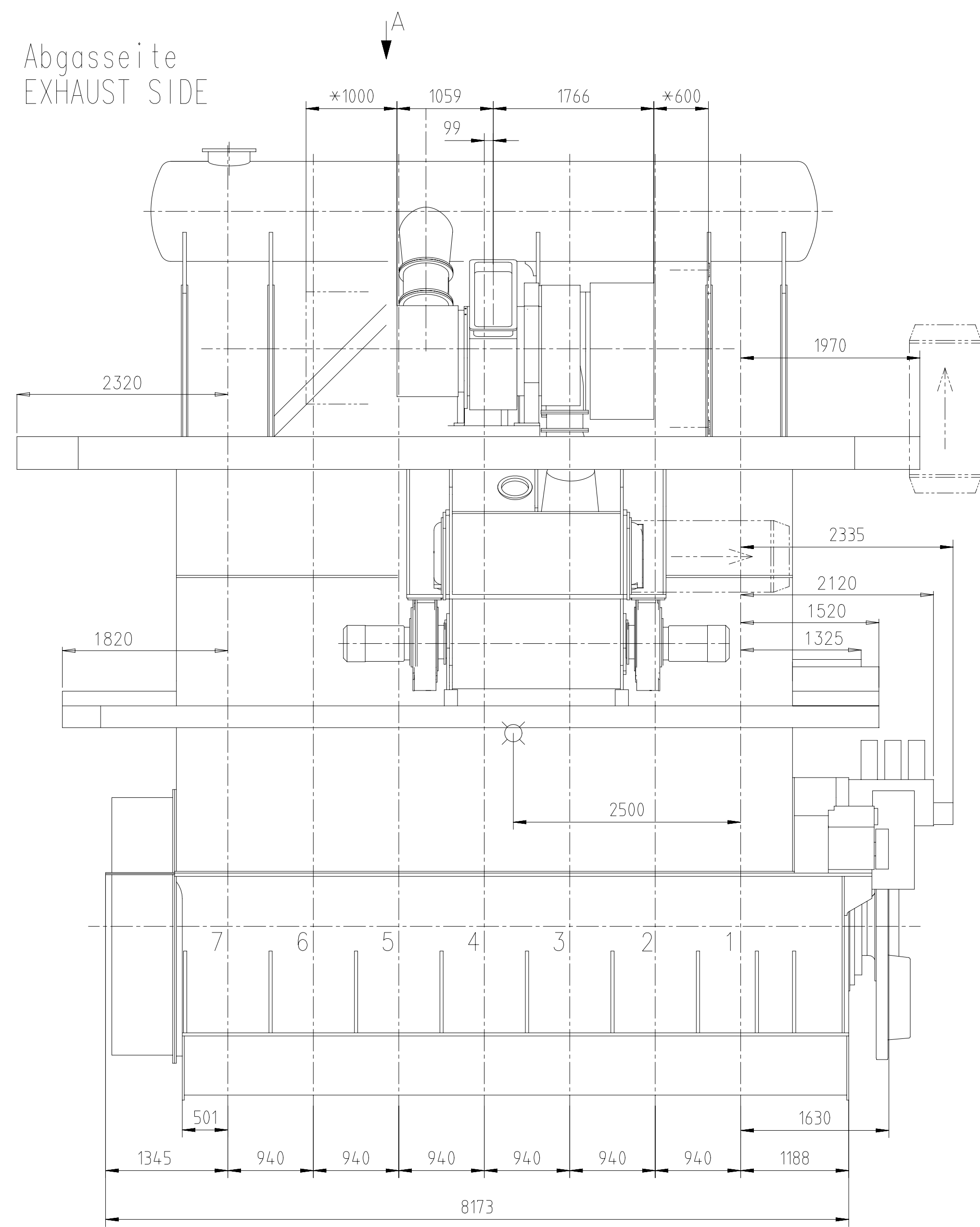
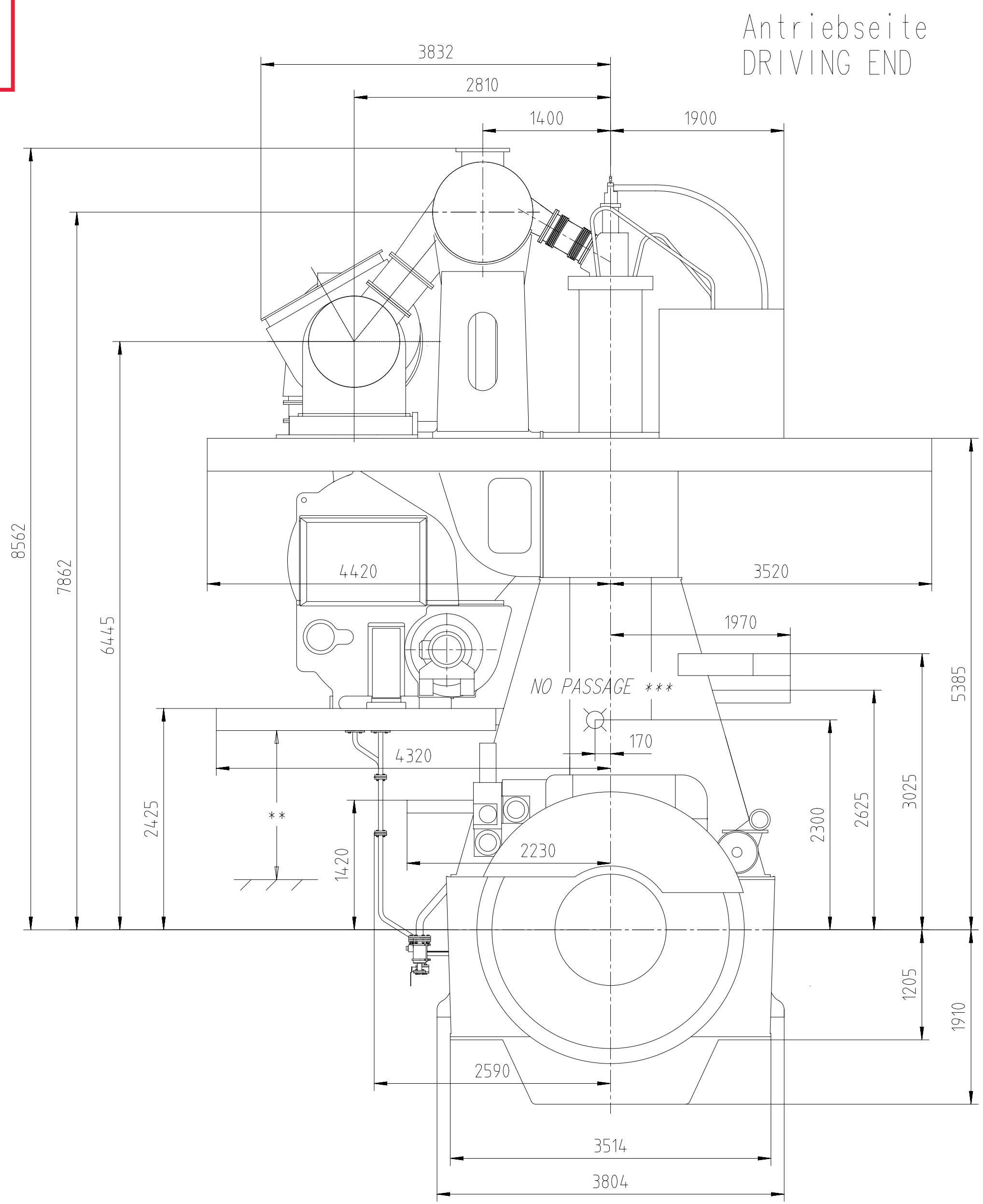
Product: W7X52DF (STD)  
Scale: 1:4.0  
Design Group: r002 Filegans  
Drawing ID: mda006 Dacic

Basic Material: NX  
Size: A1  
Page: 1/1  
Material ID: DAAD096718

Net Weight: 0,001  
Rev. -



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⊗ APPROXIMATE CENTRE OF GRAVITY  
WEIGHT WITHOUT WATER OR OIL =288t  
\* SPACE FOR REMOVAL  
\*\* ATTENTION: FREE SPACE FOR PASSAGE IS REDUCED, IF THE BASIS LEVEL OF THE SHIP IS HIGHER THAN THE CENTRE OF THE CRANKSHAFT  
\*\*\* THE LOWER PLATFORM HAS NO PASSAGE ON THE DRIVING END SIDE. IF A PASSAGE IS REQUIRED, A SHIP SIDED WAY HAS TO BE ARRANGED

TURBOCHARGER MET60MB									
Net Weight	0,001								
Quantity PER ENGINE	1	001	PAAD250126	DISMANTLING DIMENSIONS		DAAD086338			
SEQ. NO.			Material ID	Material Name	Dimension, Occ.	Standard or Drawing	Basic Material	Material Standard	Weight GR/NET
Modif.							0-Code	XXXXX	Main Drw.
Material								ISO; JIS	H
PAAD287309									
Free space for lic.									
Units	mm	kg							
Scale	1:40								
Size	A1								
Page	1/1								
Material ID									
Drawing ID									
Rev.									
DAAD097587									

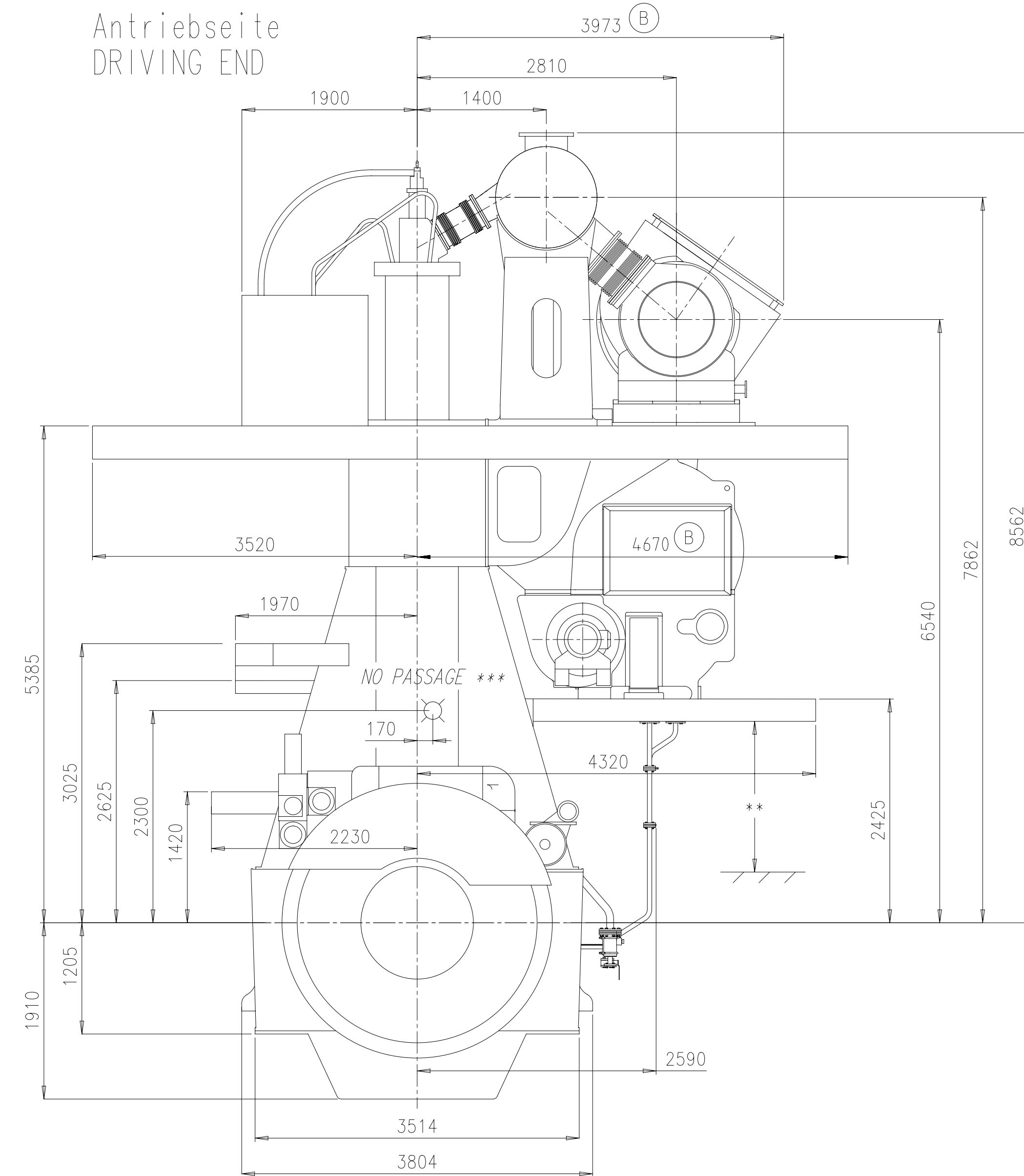
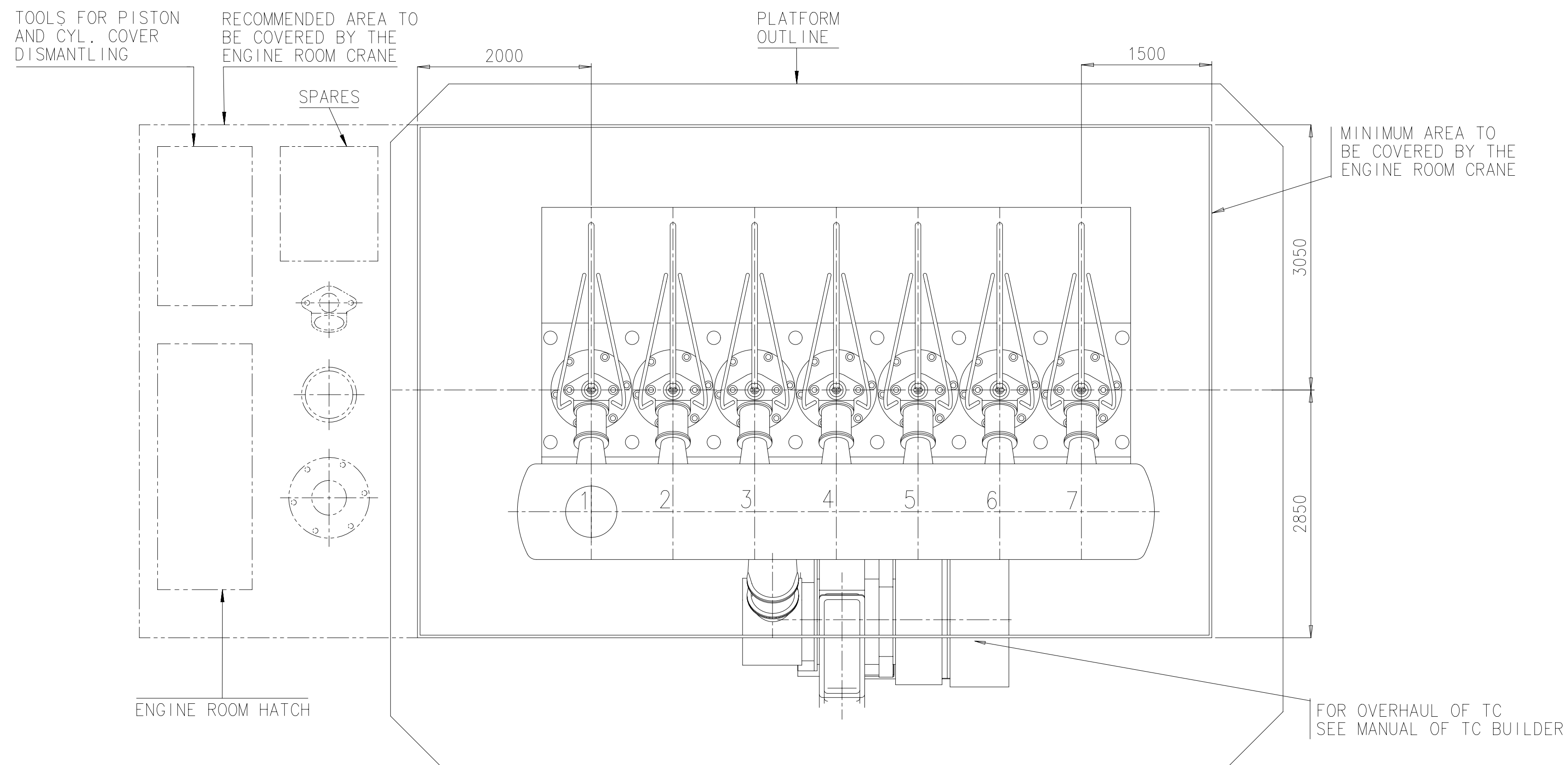
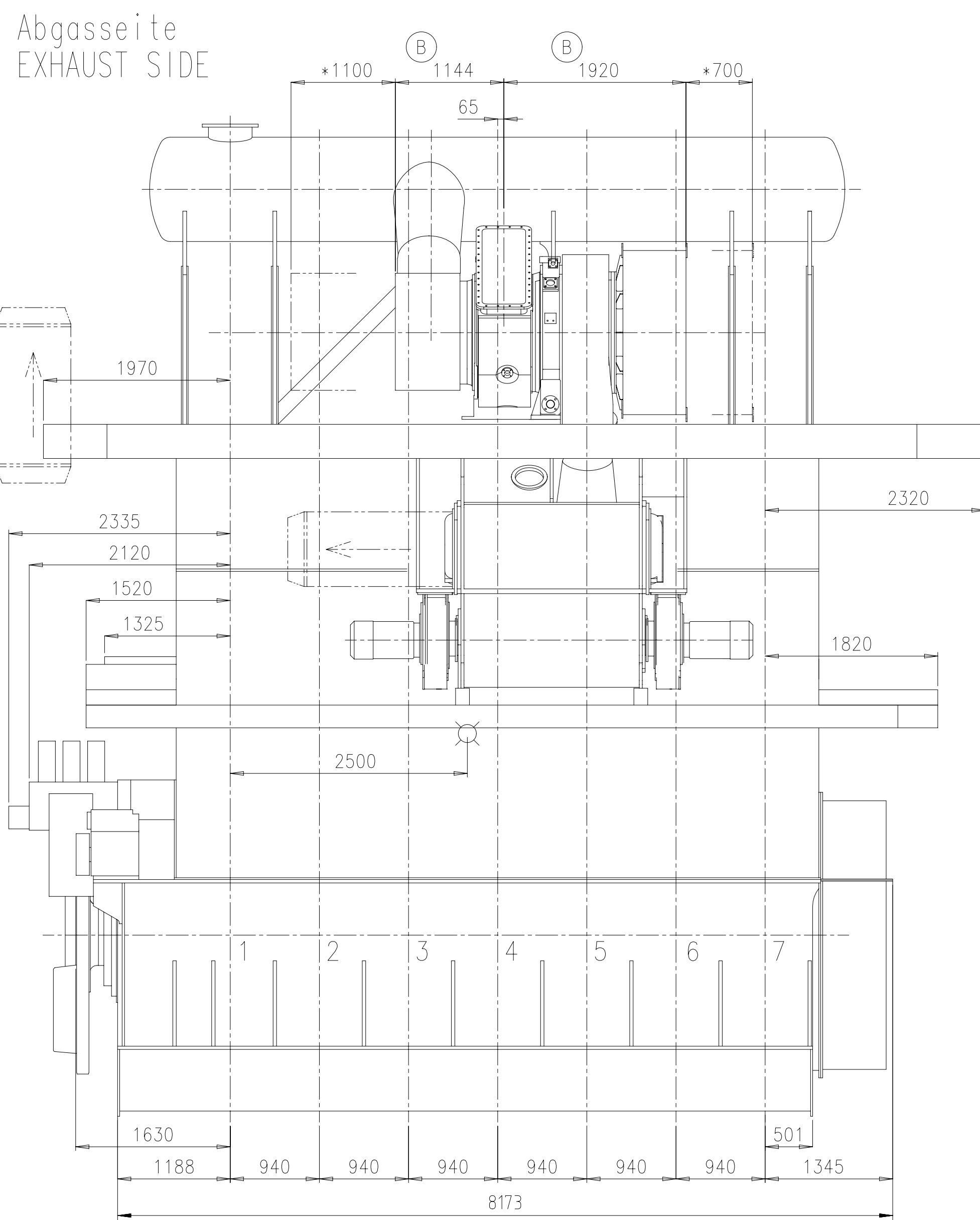
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DESIGN GROUP!

SURFACE PROTECTION SEE GROUP 0344	MADE	01.03.2018	Pravin Wakchoure	Scale	1:40
TOLERANCING PRINCIPLE ISO8015	CHKD	29.03.2018	r002 Filegans	Design Group	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	APPD	29.03.2018	mda006 Dacic	Drawing ID	0812



Product W7X52DF (LEFT)  
ENGINE OUTLINE VIEW  
1 x MET60MB  
Motoransichten  
1 x MET60MB



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APPROXIMATE CENTRE OF GRAVITY

WEIGHT WITHOUT WATER OR OIL = 288t

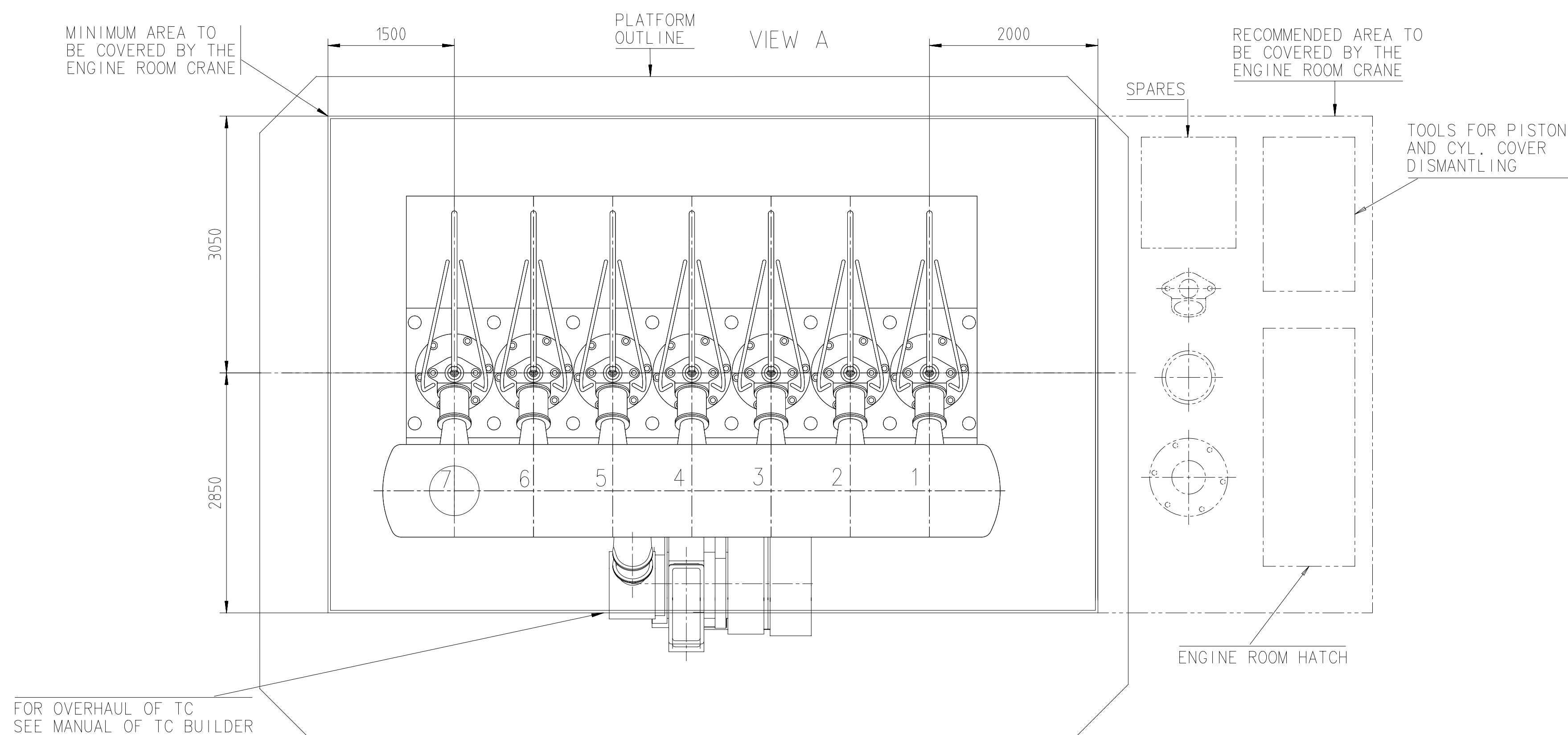
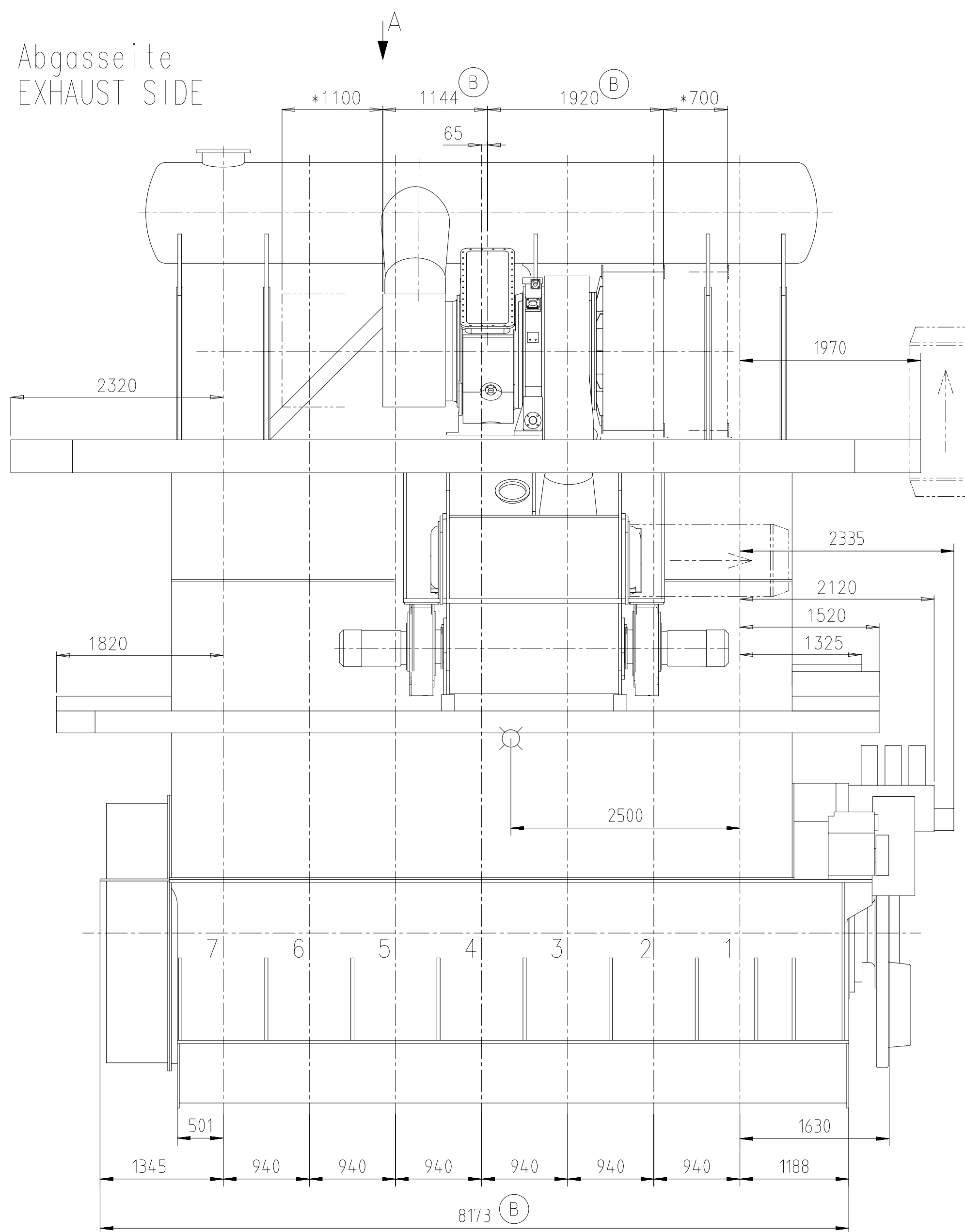
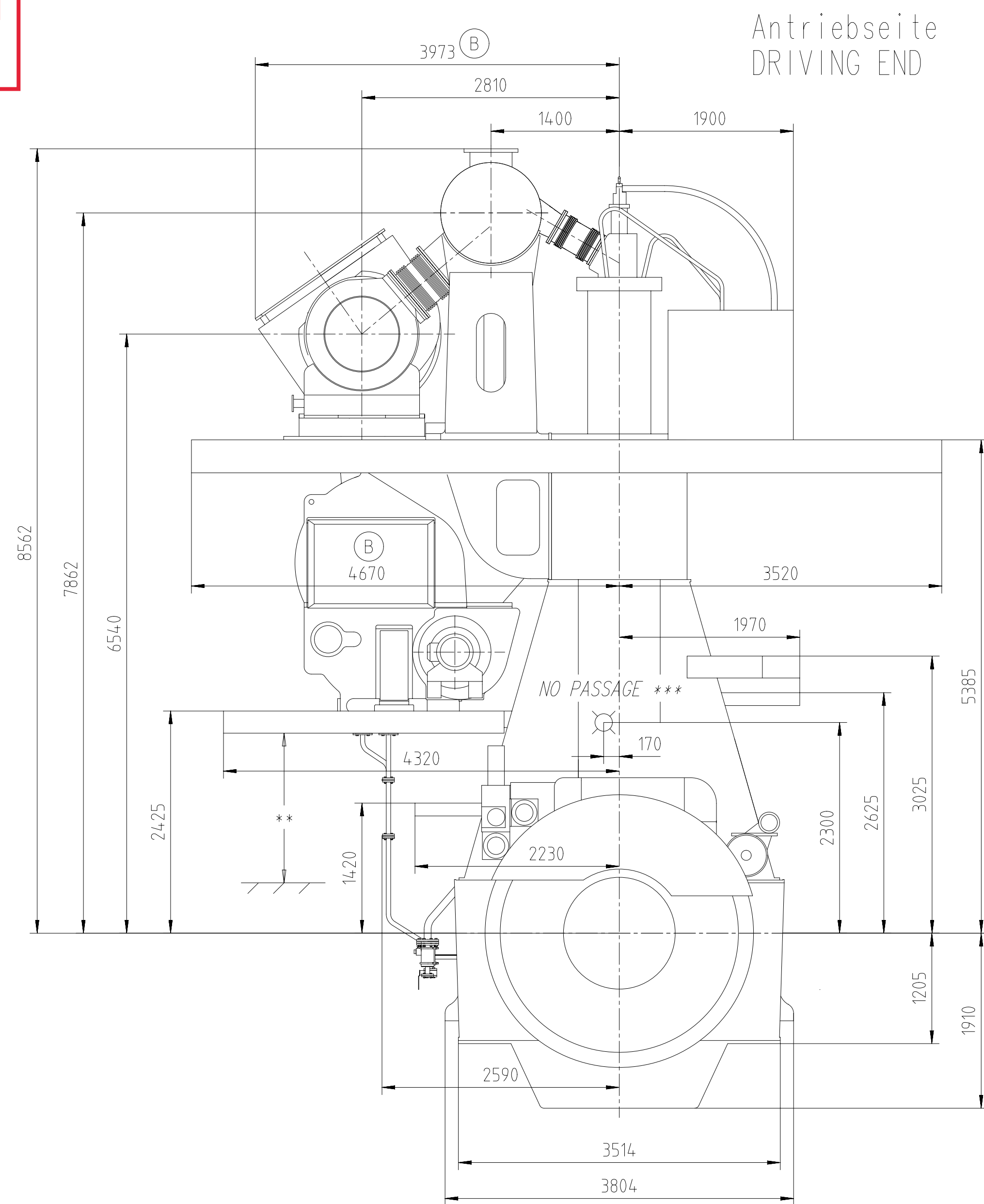
- \* SPACE FOR REMOVAL
- \*\* ATTENTION: FREE SPACE FOR PASSAGE IS REDUCED,  
IF THE BASIS LEVEL OF THE SHIP IS HIGHER  
THAN THE CENTRE OF THE CRANKSHAFT
- \*\*\* THE LOWER PLATFORM HAS NO PASSAGE  
ON THE DRIVING END SIDE.  
IF A PASSAGE IS REQUIRED,  
A SHIP SIDED WAY HAS TO BE ARRANGED

Net Weight		TURBOCHARGER MET 66MB									
0,001											
1	001	PAAD250126	DISMANTLING DIMENSIONS				DAAD086338				0,001
Quantity	SEQ NO	Material ID	Material Name				Standard or Drawing		Basic Material Material Standard		Weight GR./NET
ENGINE			Dimension, Dcc								
PAAD79233	Price, space for list								Q-Code XXXXXX Standard ISO; JIS		Main Dwg. H
Material ID	Modif.	A	EAAD088759	15.11.2017	B	EAAD089019	06.02.2018				
	Number		Number	Drawn date		Number	Drawn date			Number	Drawn date
Product W7X52DF (STD)			ENGINE OUTLINE VIEW								
 Winterthur Gas & Diesel			1 x MET66MB								
			Motoransichten 1 x MET66MB								
Units	mm kg	NX			Basic Material					Net Weight	
Made	03.11.2017	rsxo04	Sola		Scale 1:40		Size A1	Page 1/1	Material ID		
Chkd	07.11.2017	hda002	Dörr		Design Group						
Appd	07.11.2017	mda006	Dacic		0812		Drawing ID		DAAD094262		Rev. B
S02768-mk											

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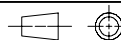
APPROXIMATE CENTRE OF GRAVITY

WEIGHT WITHOUT WATER OR OIL =288t

\* SPACE FOR REMOVAL

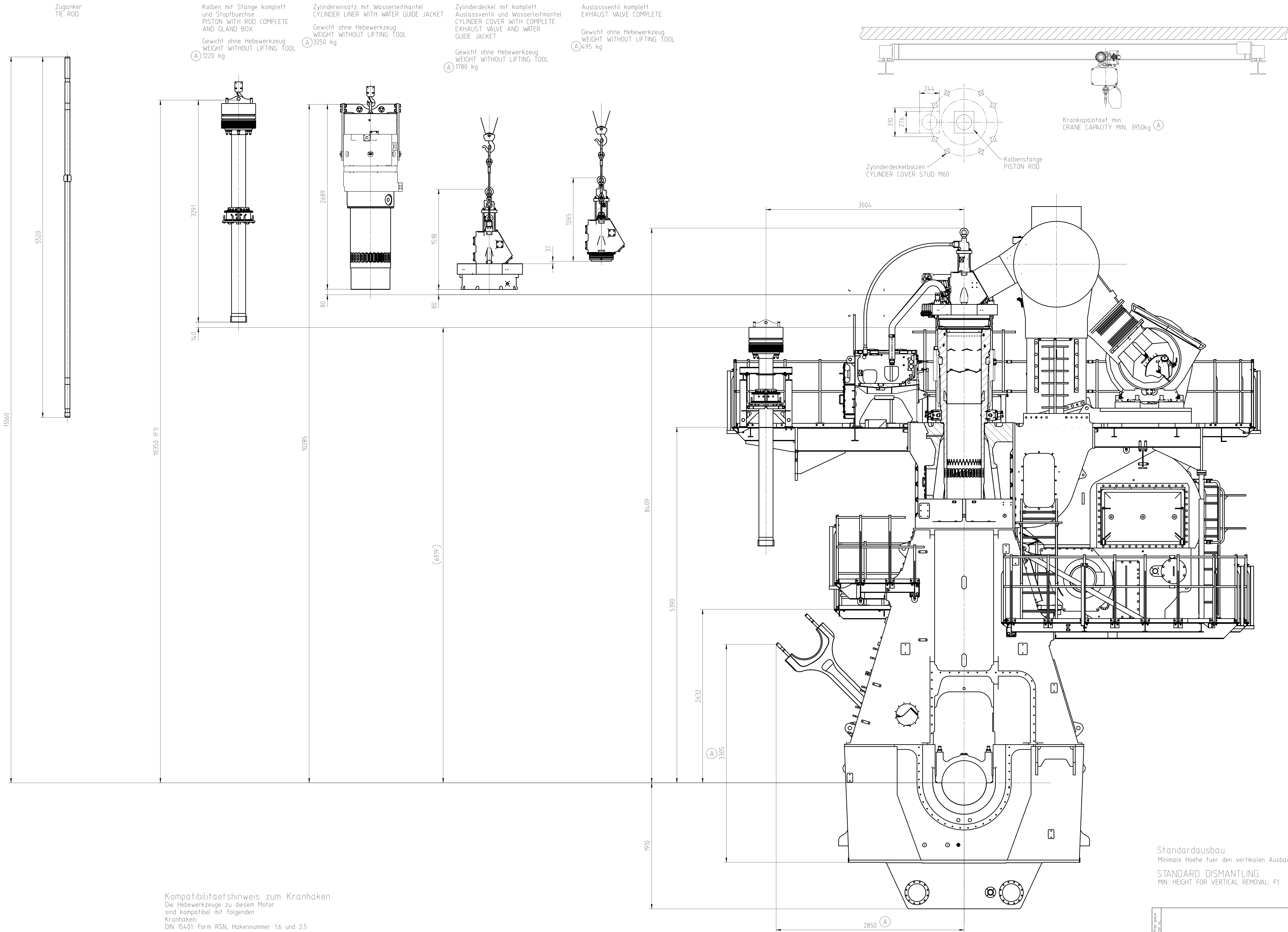
\*\* ATTENTION: FREE SPACE FOR PASSAGE IS REDUCED,  
IF THE BASIS LEVEL OF THE SHIP IS HIGHER  
THAN THE CENTRE OF THE CRANKSHAFT

\*\*\* THE LOWER PLATFORM HAS NO PASSAGE  
ON THE DRIVING END SIDE.  
IF A PASSAGE IS REQUIRED,  
A SHIP SIDED WAY HAS TO BE ARRANGED

Net Weight	TURBOCHARGER MET66MB										
0,001											
1	001	PAAD250126	DISMANTLING DIMENSIONS				DAAD086338				0,001
Quantity ENGINE	SEQ NO	Material ID	Material Name				Standard or Drawing		Basic Material Material Standard		Weight GR./NET
			Dimension, Dcc								
PAAD792719	Price, space for UIC								Q-Code XXXXXX Standard ISO; JIS		Main Dwg. H
Material ID	Modif.	A	EAAD088759	15.11.2017	B	EAAD089019	06.02.2018				
	Number		Drawn date		Number	Drawn date		Number	Drawn date		Drawn date
Product W7X52DF (LEFT)			ENGINE OUTLINE VIEW								
 Winterthur Gas & Diesel			1 x MET66MB								
			Motoransichten 1 x MET66MB								
Units	mm kg	NX			Basic Material				Net Weight		
Made	03.11.2017	rsxo04	Sola		Scale		1:40		Size	Page 1/1	
Chkd	07.11.2017	hda002	Dörr		Design Group				Material ID		
Appd	07.11.2017	mda006	Dacic		0812		Drawing ID		DAAD094281		Rev. B
S02768-mk											

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DESIGN GROUP!

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Kompatibilitätshinweis zum Kranhaken  
Die Hebwerkzeuge zu diesem Motor  
sind kompatibel mit folgenden  
Kranhaken:  
DIN 15401: Form RSN, Hakennummer 1.6 und 2.5

COMPATIBILITY NOTE FOR CRANE HOOK  
THE LIFTING TOOLS FOR THIS ENGINE  
ARE COMPATIBLE WITH FOLLOWING  
CRANE HOOK:  
DIN 15401: SHAPE RSN, HOOK NUMBER 1.6 AND 2.5

Standardausbau  
Minimale Höhe fuer den vertikalen Ausbau: F1  
STANDARD DISMANTLING  
MIN. HEIGHT FOR VERTICAL REMOVAL: F1

Free space for use		B-Code XXXXX Standard ISO/JIS		Plan Draw.
Modell	EAAD09195	21.04.2020		
Number	EAAD09195	Drawn date	Number	Drawn date
Product X52DF		Dismantling dimensions Ausbaumasse		
Units	mm kg	NX	Basic Material	Net weight 0.001
Made	17.01.2017	Ravindra Pathi	Scale 1:20	Size A0 Page 1/3 Material PAAD250126
Chd	20.04.2017	mkr021 Kumpul	Design Group	0812 Drawing DAAD086338 Rev. A
Asst	21.04.2017	msb006 Dacic		
SURFACE PROTECTION SEE GROUP 0364				
TOLERANCING PRINCIPLE ISO8015				
GENERAL TOLERANCES ACCORDING TO ISO2768-mK				



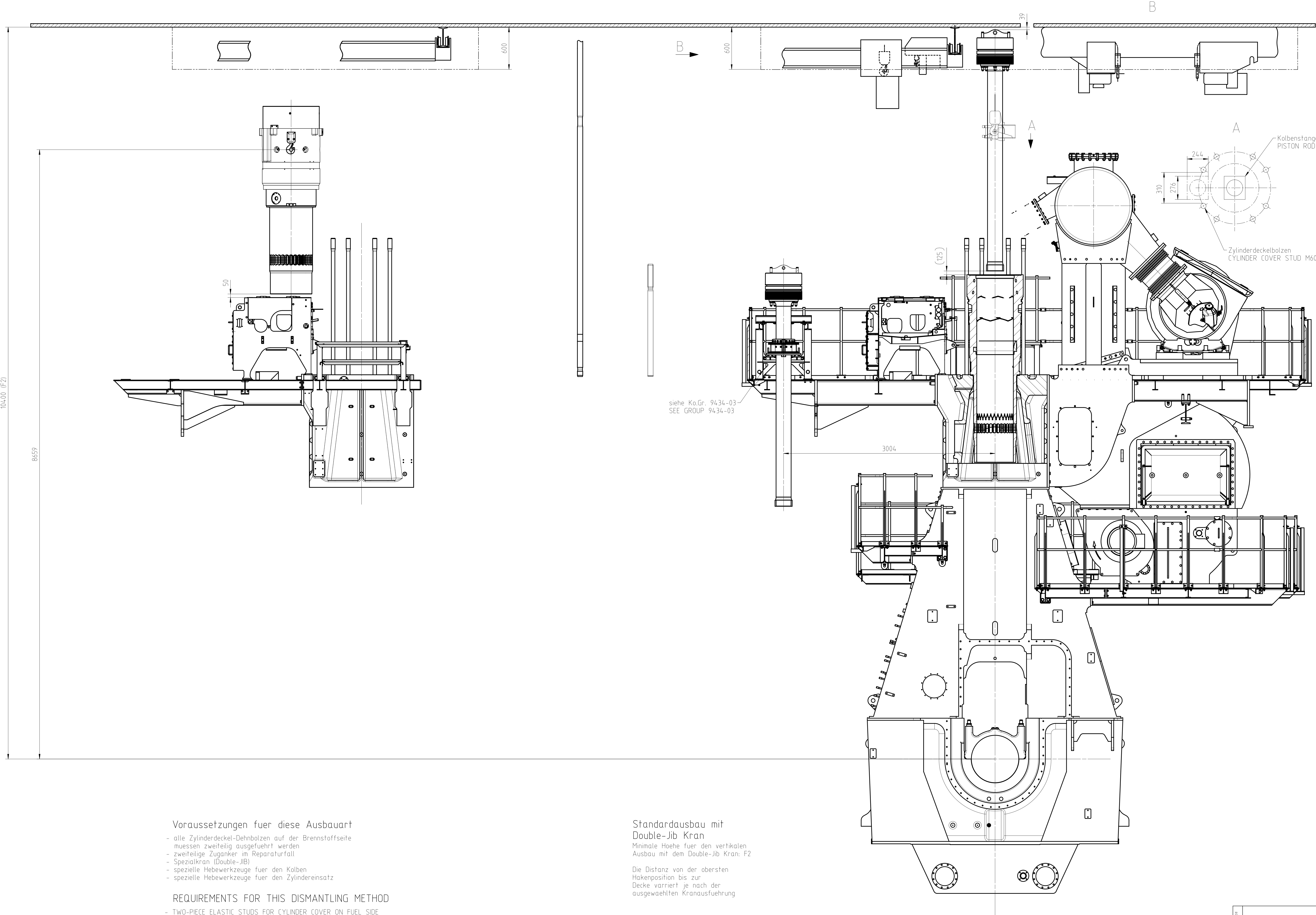
DOUBLE-JIB CRANE

Krankapazität min. 2x2150 kg  
CRANE CAPACITY MIN. 2x2150 kg

Zuganker zweiteilig bei Ersatz  
TWO-PART TIE ROD FOR REPLACEMENT

DOUBLE-JIB CRANE

Krankapazität min. 2x2150 kg  
CRANE CAPACITY MIN. 2x2150 kg



Voraussetzungen fuer diese Ausbautart

- alle Zylinderdeckel-Dehnbolzen auf der Brennstoffseite  
muessen zweiteilig ausgefuehrt werden
- zweiteilige Zuganker im Reparaturfall
- Spezialkran (Double-Jib)
- spezielle Hebewerkzeuge fuer den Kolben
- spezielle Hebewerkzeuge fuer den Zylinderersatz

REQUIREMENTS FOR THIS DISMANTLING METHOD

- TWO-PIECE ELASTIC STUDS FOR CYLINDER COVER ON FUEL SIDE
- TWO-PART TIE ROD IN CASE OF REPAIR
- SPECIAL CRANE (DOUBLE-JIB)
- SPECIAL LIFTING TOOLS FOR PISTON
- SPECIAL LIFTING TOOLS FOR CYLINDER LINER

Standardausbau mit  
Double-Jib Kran

Minimale Hoehe fuer den vertikalen  
Ausbau mit dem Double-Jib Kran: F2

Die Distanz von der obersten  
Hakenposition bis zur  
Decke variiert je nach der  
ausgewaehlten Kranausfuehrung

STANDARD DISMANTLING  
WITH DOUBLE-JIB CRANE

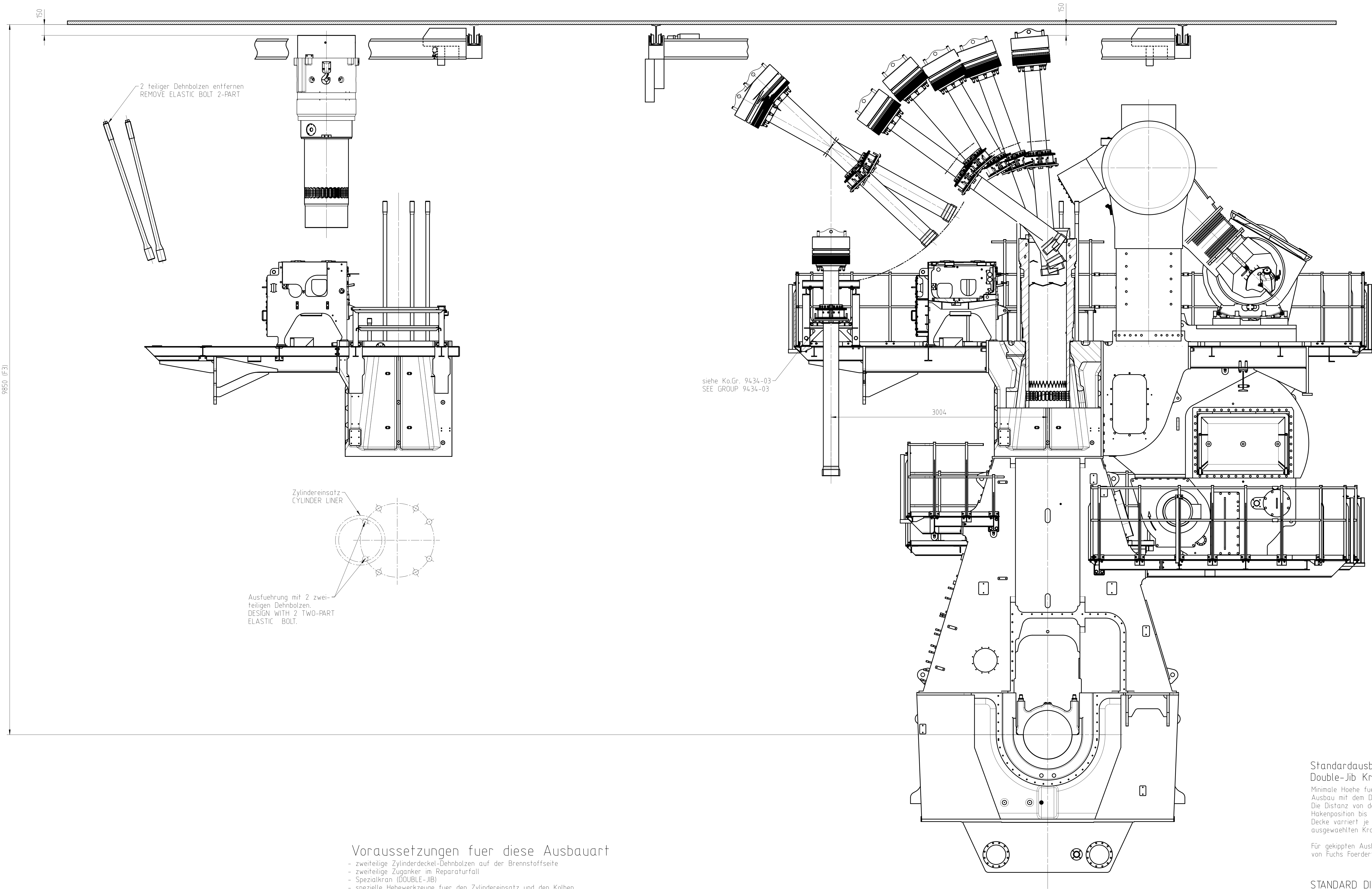
MIN. HEIGHT FOR VERTICAL REMOVAL WITH DOUBLE-JIB CRANE F2  
DISTANCE BETWEEN TOP POSITION OF HOOK  
AND ENGINE ROOM CEILING VARIES DEPENDING  
ON CRANE TYPE.

FOR VERTICAL REMOVAL WITH DOUBLE JIB E/R CRANE  
BY FUCHS FOERDERTECHNIK AG

Werkst. Free space for use		B-Code XXXXX Standard ISO/JIS		Plan Draw
Werkst. A	EAAD08195	21.04.2020		
Number	Drawn date	Number	Drawn date	Number
Product X52DF		DISMANTLING DIMENSIONS		
WIN GD Wintorhur Gas & Diesel		Ausbaumasse		
Units	mm kg	NX	Basic Material	Net Weight 0,001
Made	17.01.2017	Ravindra Pathi	Scale 1:20	Size A0 Page 2/3
Chd	20.04.2017	mkr021 Krumpal	Design Group	Material PAAD250126
Asst	21.04.2017	mkr006 Dackel	0812	Drawing DAAD086338
GENERAL TOLERANCES ACCORDING TO ISO 2768-mK		Rev. A		

DOUBLE-JIB CRANE

Krankapazität min. 2x2150 kg  
CRANE CAPACITY MIN. 2x2150 kg



Voraussetzungen fuer diese Ausbauart

- zweiteilige Zylinderdeckel-Dehnbolzen auf der Brennstoffseite
- zweiteilige Zuganker im Reparaturfall
- Spezialkran (DOUBLE-JIB)
- spezielle Hebwerkzeuge fuer den Zylindereinsatz und den Kolben

REQUIREMENTS FOR THIS DISMANTLING METHOD

- TWO-PIECE ELASTIC STUDS FOR CYLINDER COVER ON FUEL SIDE
- TWO-PART TIE ROD IN CASE OF REPAIR
- SPECIAL CRANE (DOUBLE-JIB)
- SPECIAL LIFTING TOOLS FOR CYLINDER LINER AND PISTON

Standardausbau mit Double-Jib Kran

Minimale Hoehe fuer den gekippten Ausbau mit dem Double-Jib Kran: F3  
Die Distanz von der obersten Hakenposition bis zur Decke variiert je nach der ausgewaehlten Kранаusfuhrung

Für gekippten Ausbau mit Double-Jib E/R Kran von Fuchs Foerdertechnik AG

STANDARD DISMANTLING WITH DOUBLE-JIB CRANE

MIN. HEIGHT FOR TILTED REMOVAL WITH DOUBLE-JIB CRANE: F3  
DISTANCE BETWEEN TOP POSITION OF HOOK AND ENGINE ROOM CEILING VARIES DEPENDING ON CRANE TYPE.

FOR TILTED REMOVAL WITH DOUBLE JIB E/R CRANE BY FUCHS FOERDERTECHNIK AG

Free space for use		B-Code XXXXX Standard ISO/JIS		Plan Draw
Werkz.	A	EAAD09195	21.04.2020	
Number		Number	Drawn date	
Product X520F		DISMANTLING DIMENSIONS		
WIN GD Wintorhur Gas & Diesel		Ausbaumasse		
Units	mm kg	NX	Basic Material	Net Weight 0,001
Made	17.01.2017	Ravindra Pathi	Scale 1:20	Size A0 Page 3/3
Chd	20.04.2017	mkr021 Kumpal	Design Group	Material PAAD250126
Asst	21.04.2017	mkr006 Dacke	0812	DAAD086338
SURFACE PROTECTION SEE GROUP 0304		TOLERANCING PRINCIPLE ISO8015		GENERAL TOLERANCES ACCORDING TO ISO2768-mK



## WinGD-7X52DF\_Engine-Outline-View

### TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2018-02-26	DRAWING SET	First web upload
2018-09-20	DAAD096718 DAAD097587 DAAD094262 DAAD094281	Engine outline view for Turbocharger type MET 60MB (STD & LEFT) have been added. Revised Engine outline view for Turbocharger type MET 66MB (STD & LEFT) have been updated.
2020-07-21	DAAD128253 DAAD086338	Engine outline view for Turbocharger type A270-L has been added. Revised Dismantling Dimensions Drawing has been updated.
2021-05-26	PAAD272627	Engine outline view for Turbocharger type A270-L have been updated.

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