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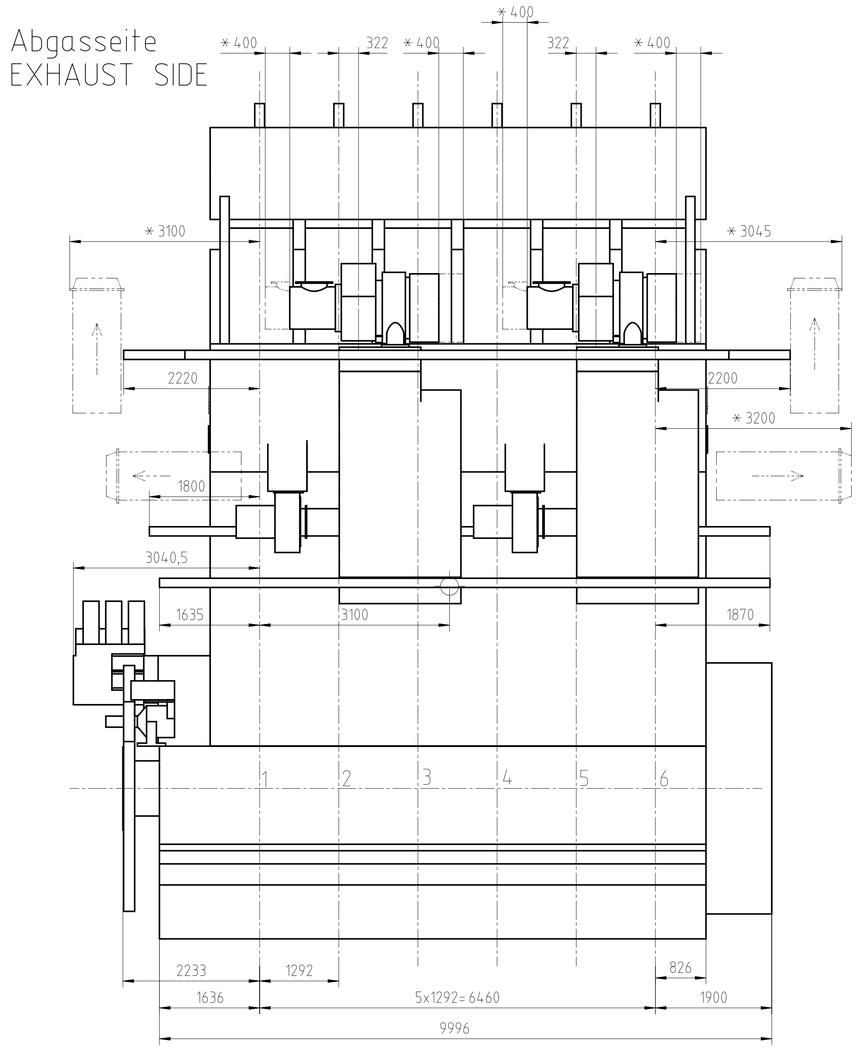

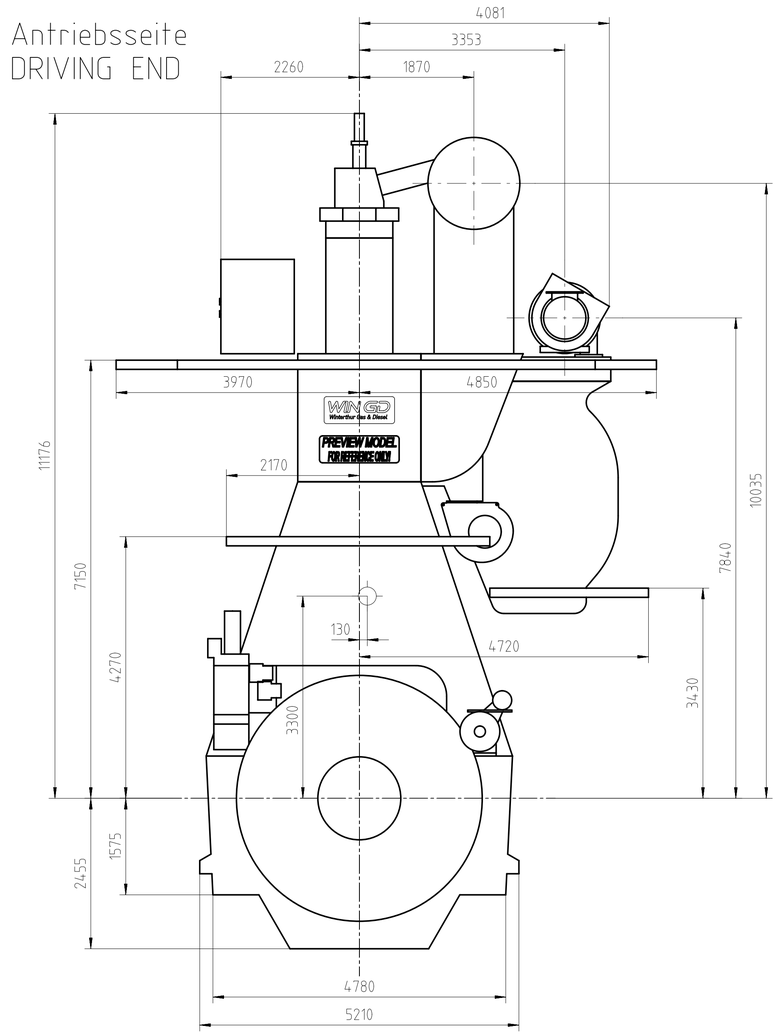

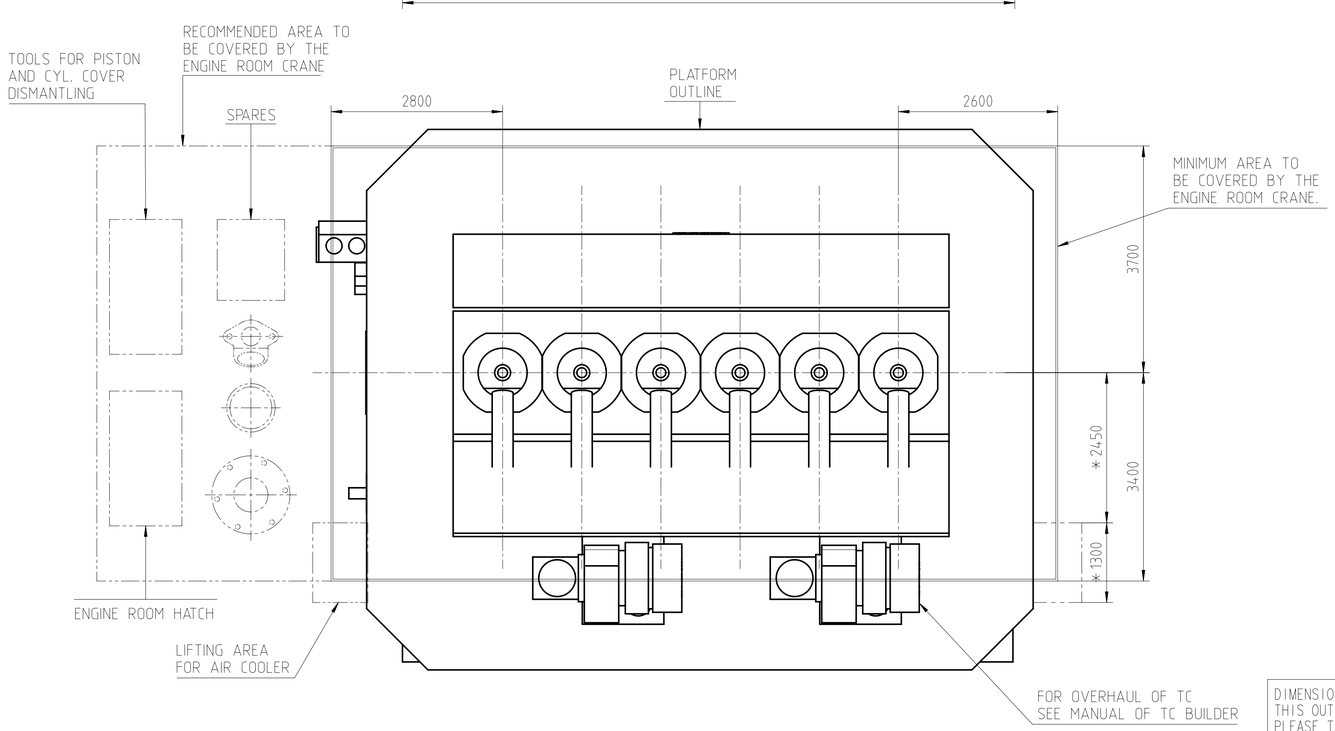

Gewicht ohne Wasser und Oel = 561t
WEIGHT WITHOUT WATER AND OIL

* Platz fuer Demontage
SPACE FOR REMOVAL

ca. Schwerpunkt
APPROX. CENTRE OF GRAVITY

TURBOCHARGER 2xA165-L

Net Weight						
0.001						
1	001	PAAD187129	DISMANTLING DIMENSIONS	DAAD064846		0,001
Quantity PER ENGINE	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR/NET

Material ID	Free space for ic	Q-Code	Main Drw.
PAAD360808		XXXXX	H
		Standard: ISO; JIS	

Modif	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
-	EAAD094027	15.04.2021						

WIN GD Winterthur Gas & Diesel

Product: 6X72DF(STD)

ENGINE OUTLINE VIEW
Motoransichten

Units	mm kg	NX	Basic Material	Net Weight
Made	20.07.2020	jma101 Ma	Scale 1:50	Size A1 / Page 1/1 / Material ID
Chkd	15.04.2021	sch101 Chen	Design Group 0812	
Appd	15.04.2021	sth017 Thalmann	Drawing ID DAAD133017	Rev. -

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

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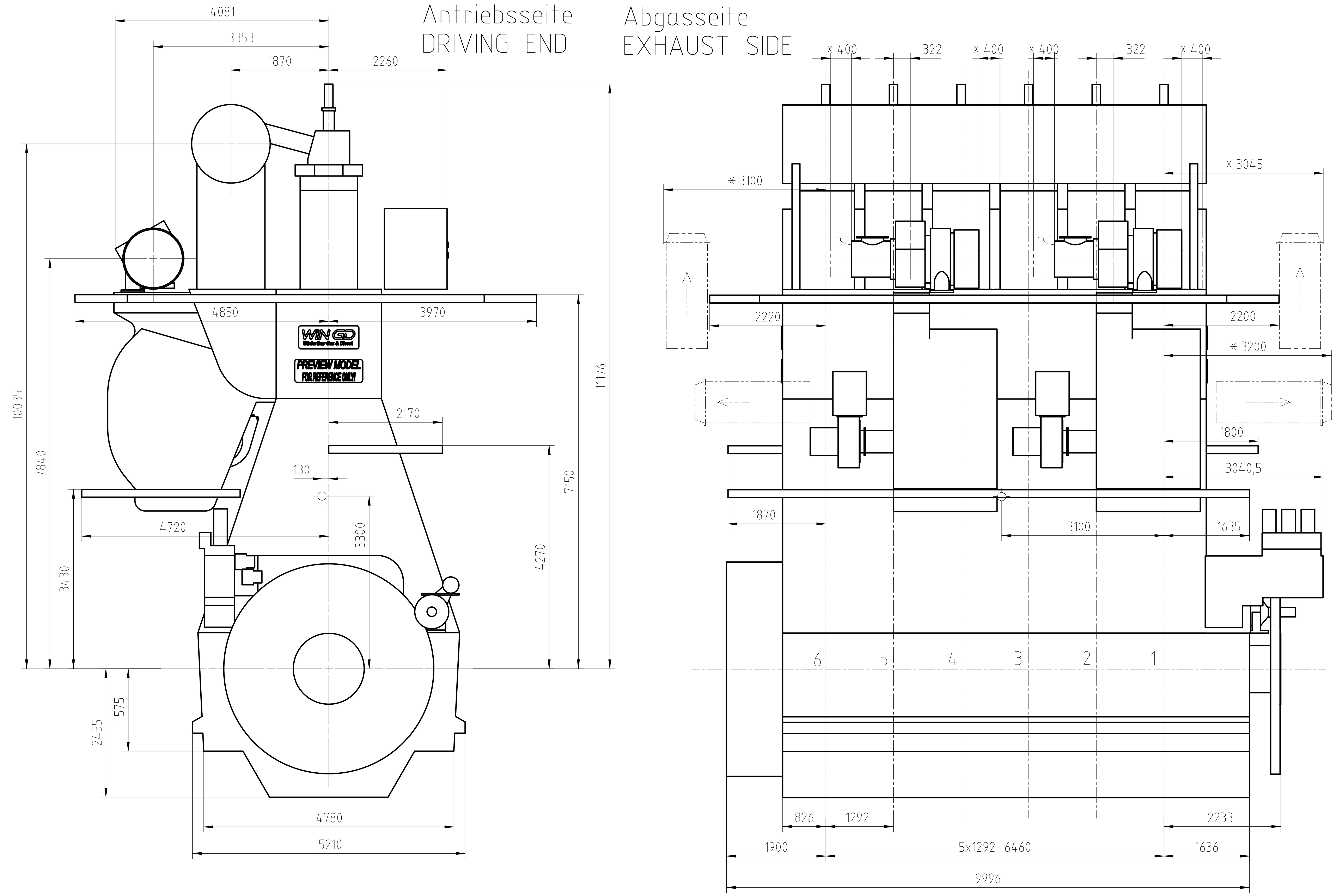
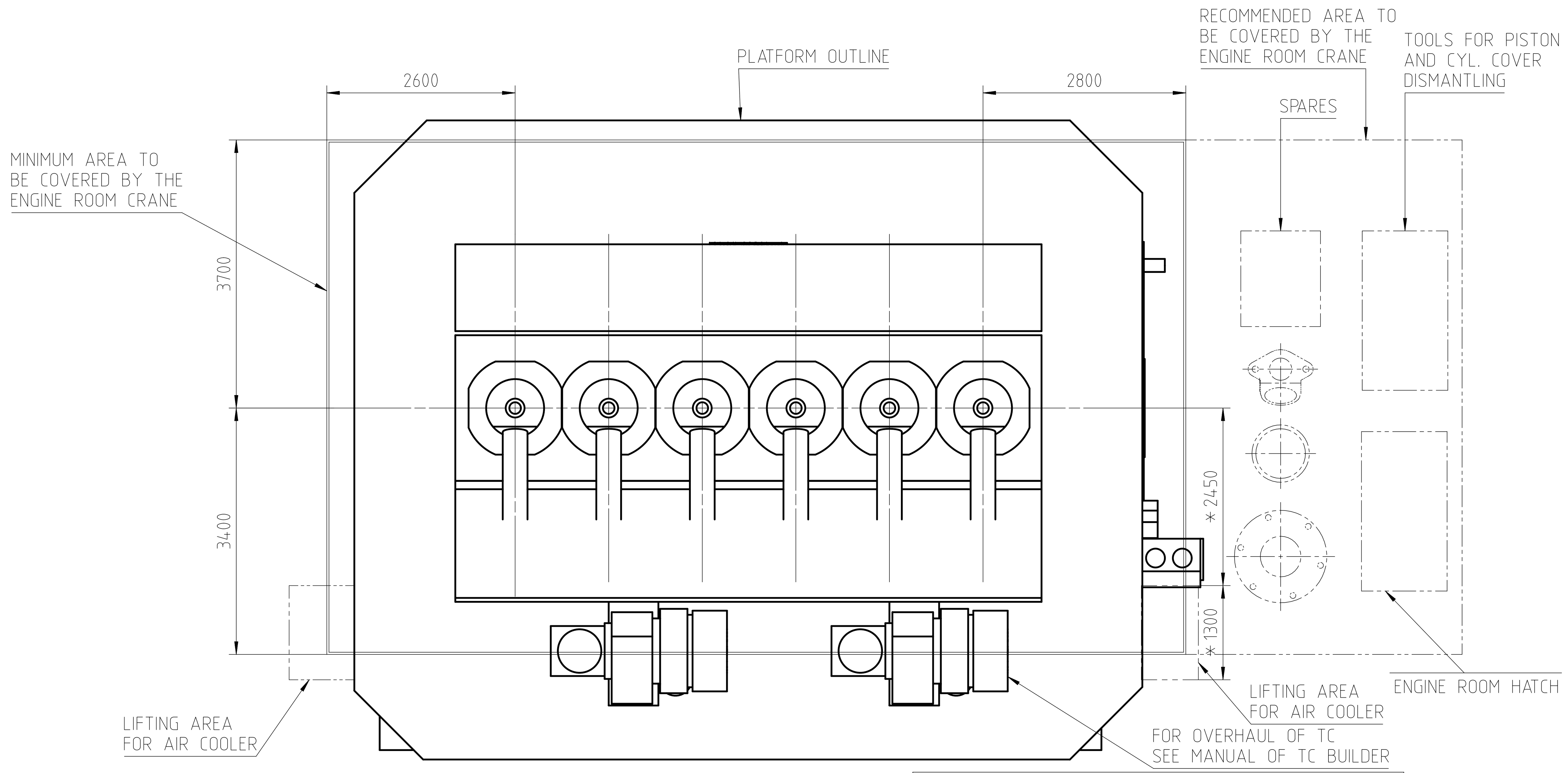
DIMENSIONAL DRAWING - Confidential





gezeichnet fuer Turbolader A165-L
DRAWN FOR TURBOCHARGER

Gewicht ohne Wasser und Oel= 561 t
WEIGHT WITHOUT WATER AND OIL

∗ Platz fuer Demontage
SPACE FOR REMOVAL

⌖ ca. Schwerpunkt
APPROX. CENTRE OF GRAVITY

TURBOCHARGER 2x A165-L 2x A265-L

Quantity PER ENGINE	SEQ NO	Material ID	Material Name	Standard or Drawing	Basic Material / Material Standard	Weight GR/NET
1	001	PAAD187129	DISMANTLING DIMENSIONS	DAAD064846		0,001

Net Weight: 0,001
Q-Code: XXXXX
Standard: ISO; JIS
Main Drw.: H
Material ID: PAAD360363
Modif.: – EAAD094027 15.04.2021

Product: 6X72DF(LEFT)
ENGINE OUTLINE VIEW
Motoransichten

WIN GD Winterthur Gas & Diesel

Units mm kg | NX

	Date	Name
Made	29.07.2020	jma101 Ma
Chkd	15.04.2021	sch101 Chen
Appd	15.04.2021	sth017 Thalmann

Scale 1:40 | Size A1 | Page 1/1
Design Group 0812
Drawing ID DAAD132797
Rev. –

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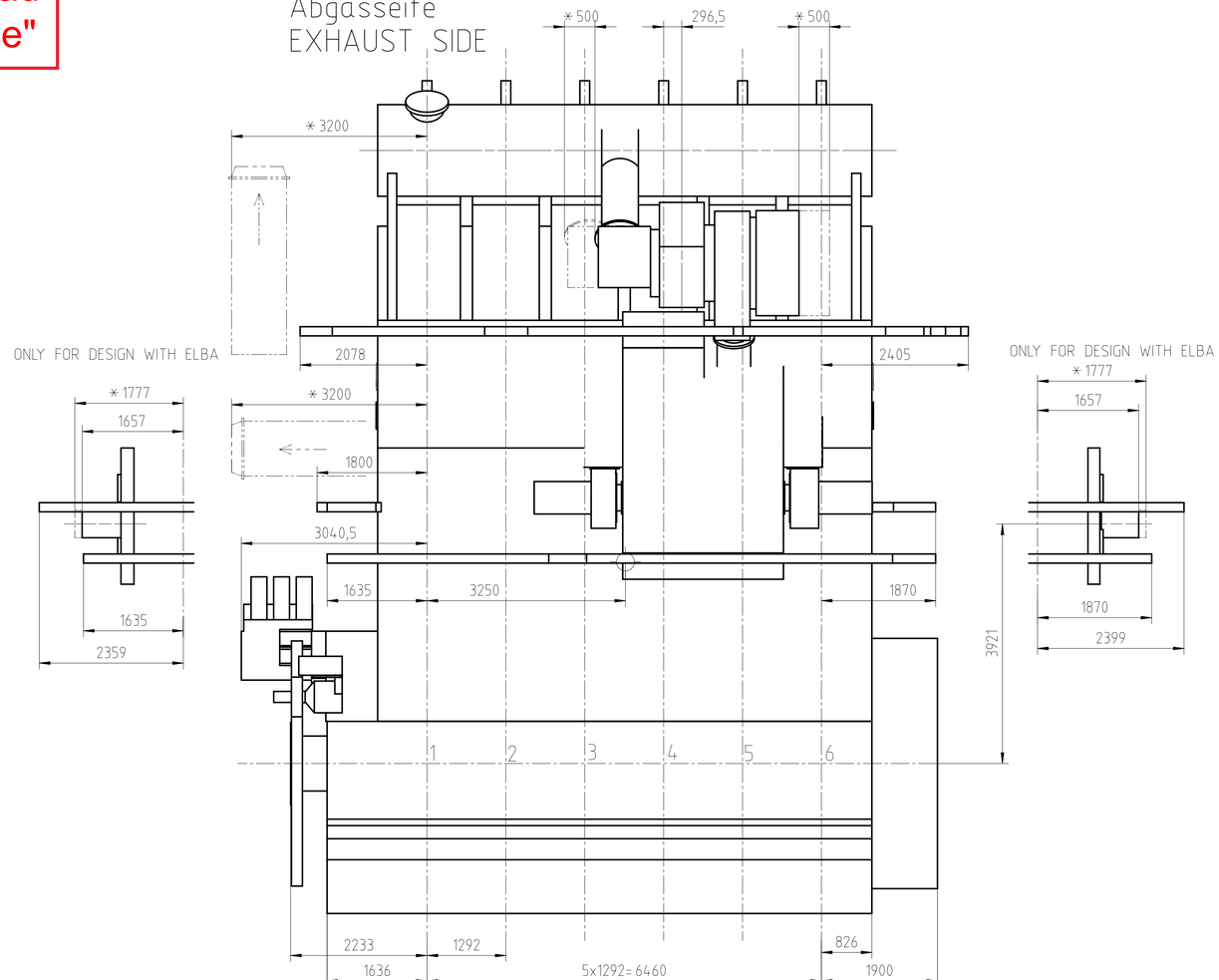
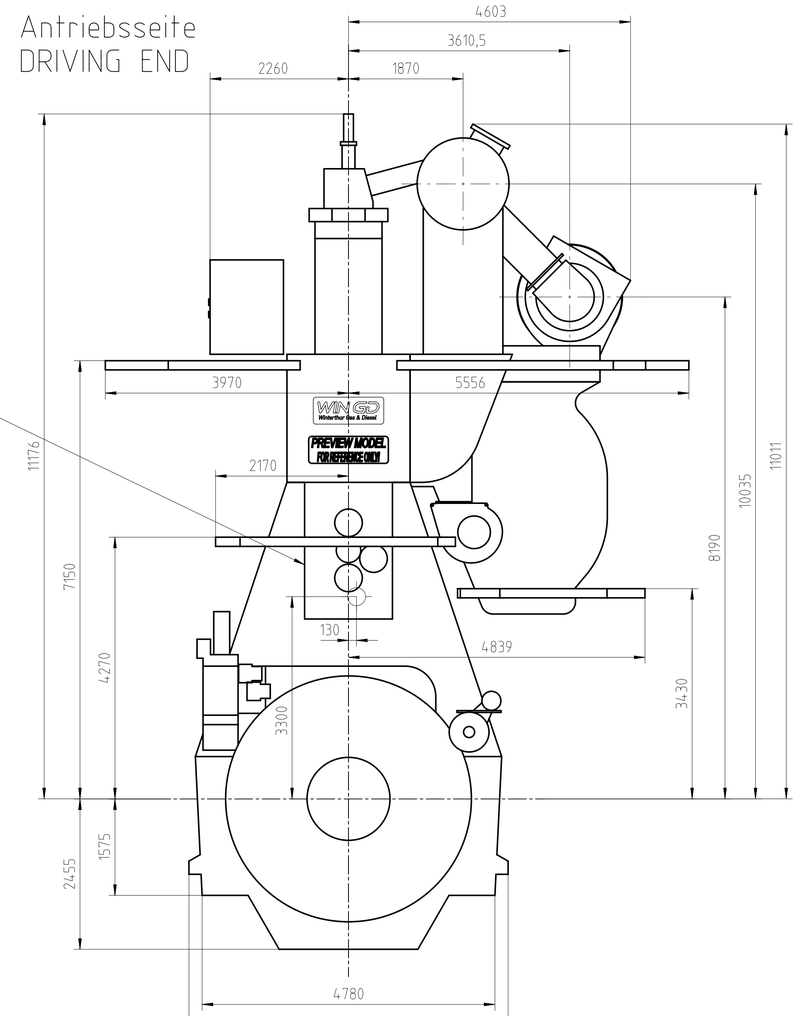
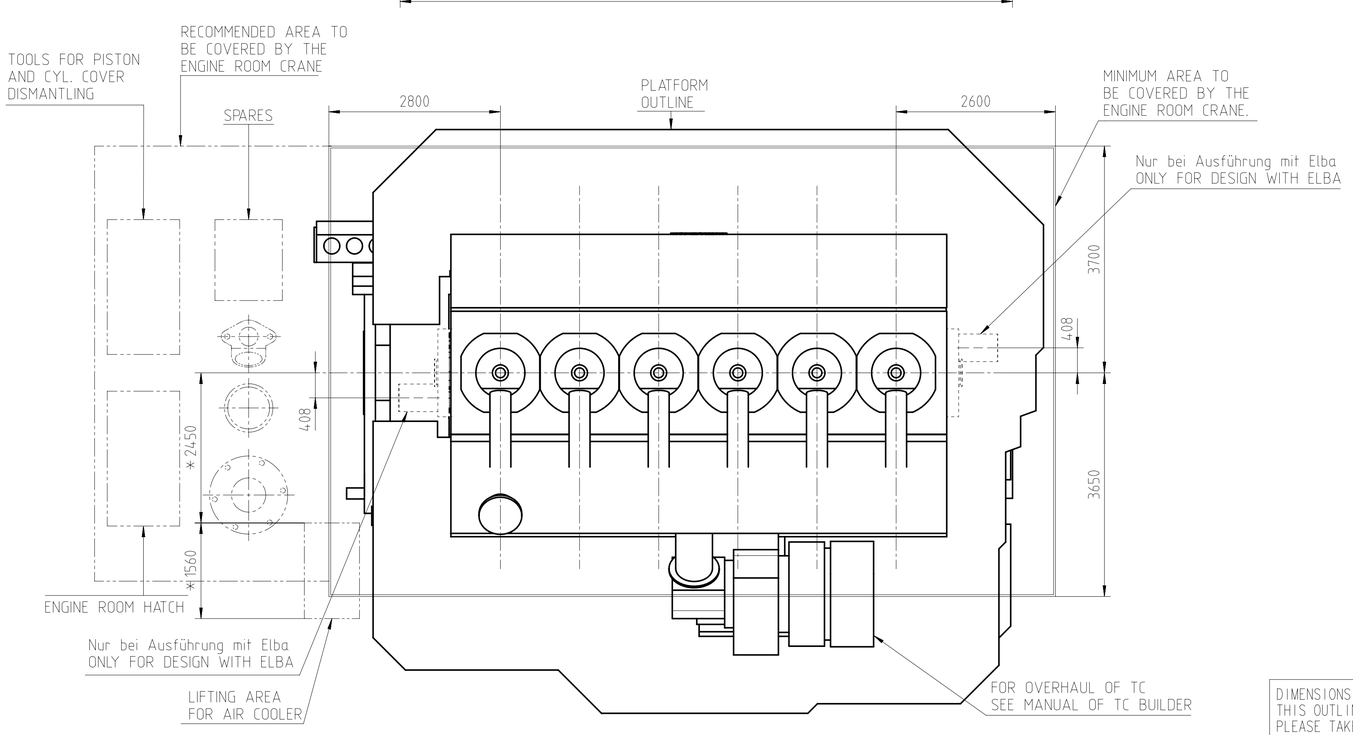


Antriebsseite
DRIVING END





gezeichnet fuer Turbolader A275
DRAWN FOR TURBOCHARGER

Gewicht ohne Wasser und Oel = 561t
WEIGHT WITHOUT WATER AND OIL

* Platz fuer Demontage
SPACE FOR REMOVAL

ca. Schwerpunkt
APPROX. CENTRE OF GRAVITY

1xA175-L

TURBOCHARGER 1xA275-L

Net Weight	Quantity PER ENGINE	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR/NET
0,001	1	001	PAAD187129	DISMANTLING DIMENSIONS	DAAD064846		0,001

Material ID: PAAD360735 — Free space for ic

Q-Code: XXXXX — Standard: ISO; JIS — Main Drw.: H

Model: - EAAD094027 19.04.2021

Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date

WIN GD Winterthur Gas & Diesel

Product: 6X72DF(STD)

ENGINE OUTLINE VIEW

Motoransichten

Units	mm kg	NX	Basic Material	Net Weight
Made	16.07.2020	jma101 Ma	Scale 1:50	Size A1 / Page 1/1 / Material ID
Chkd	19.04.2021	sch101 Chen	Design Group 0812	Drawing ID DAAD132959 / Rev. -
Appd	19.04.2021	sth017 Thalmann		

DIMENSIONS ONLY FOR REFERENCE
THIS OUTLINE DRAWING CAN NOT BE USED FOR FINAL DESIGN.
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SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

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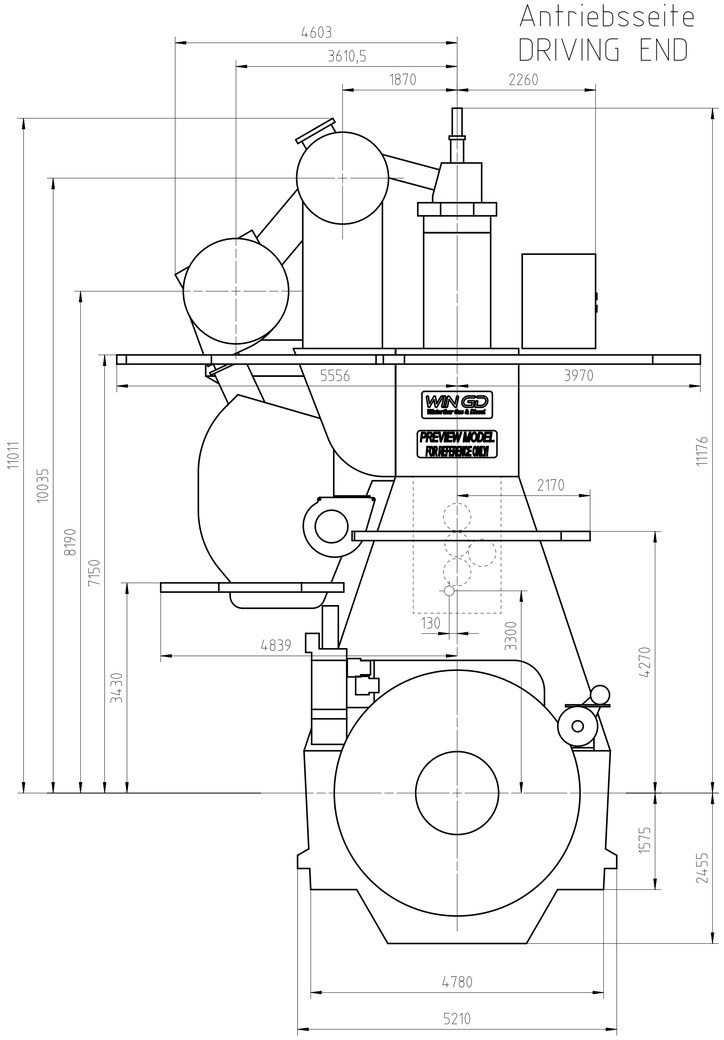
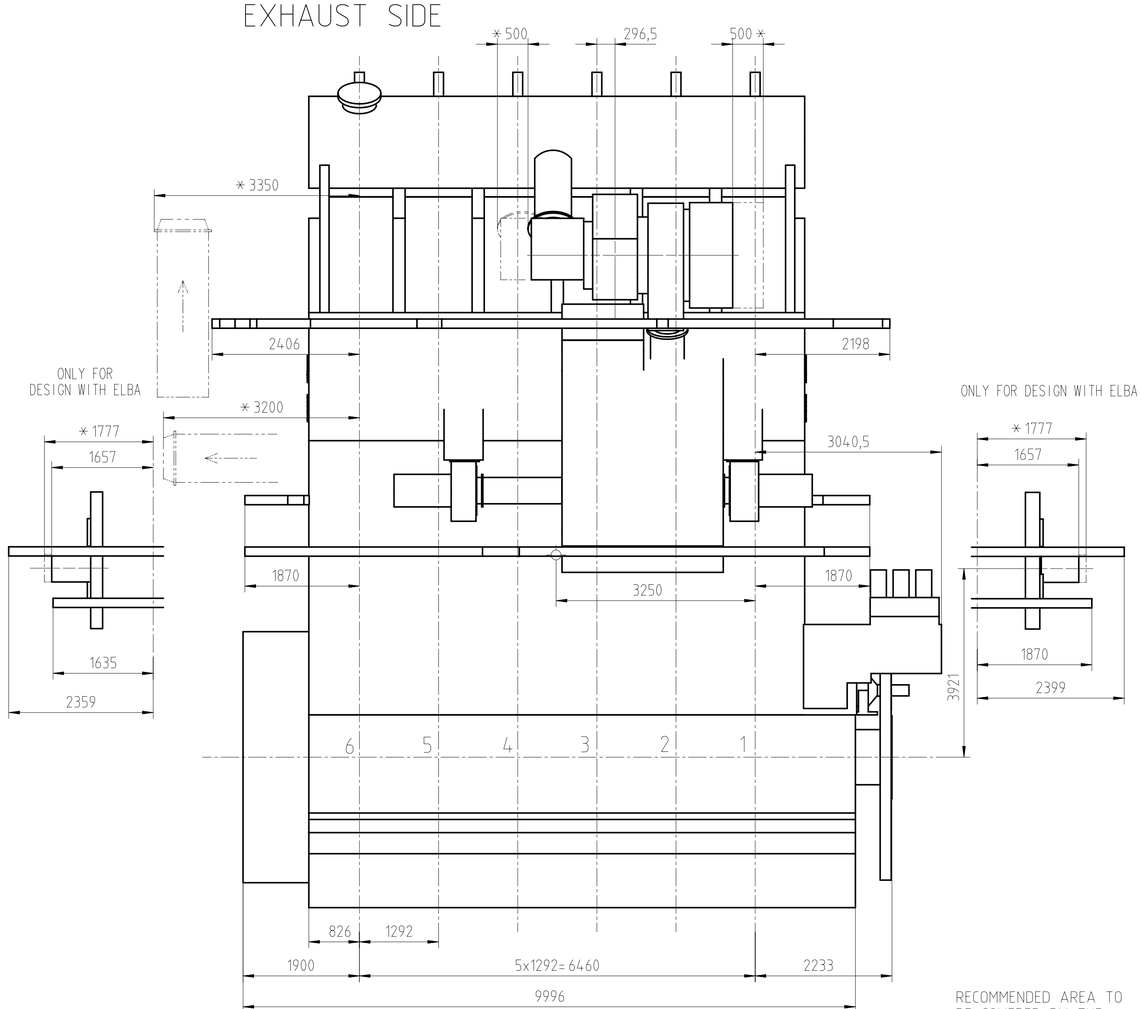
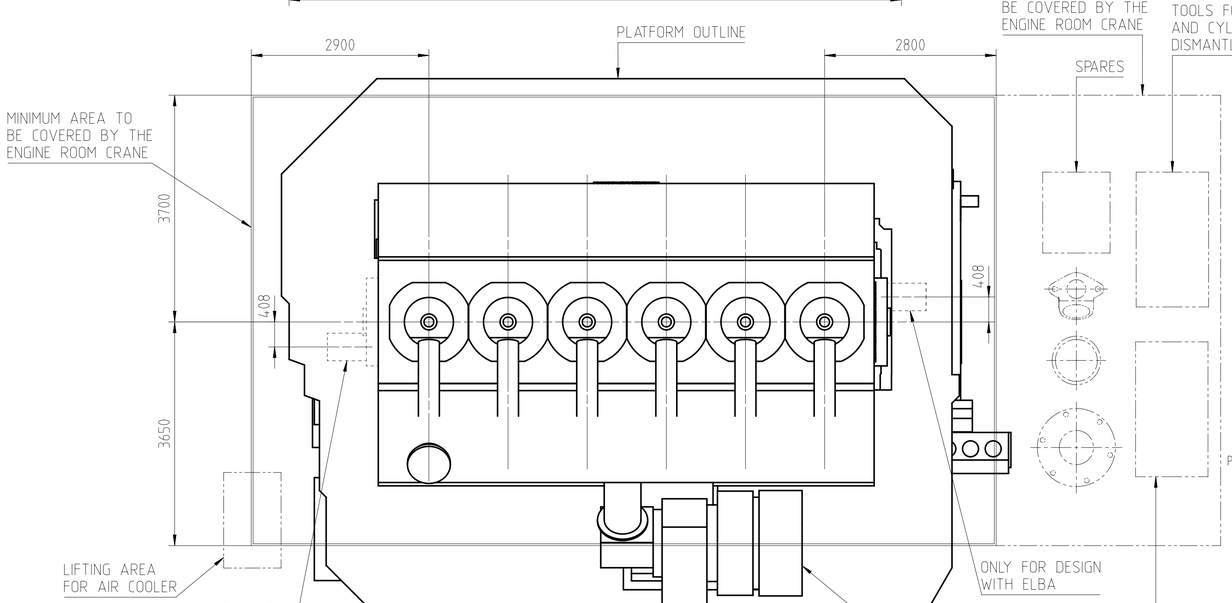
Antriebsseite
DRIVING END



Abgasseite
EXHAUST SIDE





gezeichnet fuer Turbolader A275
DRAWN FOR TURBOCHARGER

Gewicht ohne Wasser und Oel= 561 t
WEIGHT WITHOUT WATER AND OIL

* Platz fuer Demontage
SPACE FOR REMOVAL

⊹ ca. Schwerpunkt
APPROX. CENTRE OF GRAVITY

1x A175-L
TURBOCHARGER 1x A275-L

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

Net Weight						
0,001						
Quantity PER ENGINE	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR/NET
1	001	PAAD187129	DISMANTLING DIMENSIONS	DAAD064846		0,001
PAAD360004	Free space for Ic				Q-Code XXXXX / Standard ISO; JIS	Main Drw. H
Material ID	Modif	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
	-	EAAD094027	15.04.2021						

WIN GD Winterthur Gas & Diesel

Product 6X72DF(LEFT)

ENGINE OUTLINE VIEW
Motoransichten

Units	mm kg	NX	Basic Material	Net Weight
Made	27.07.2020	jma101 Ma	Scale 1:40	Size A1 / Page 1/1 / Material ID
Chkd	15.04.2021	sch101 Chen	Design Group 0812	
Appd	15.04.2021	sth017 Thalmann	Drawing ID DAAD132554	Rev. -

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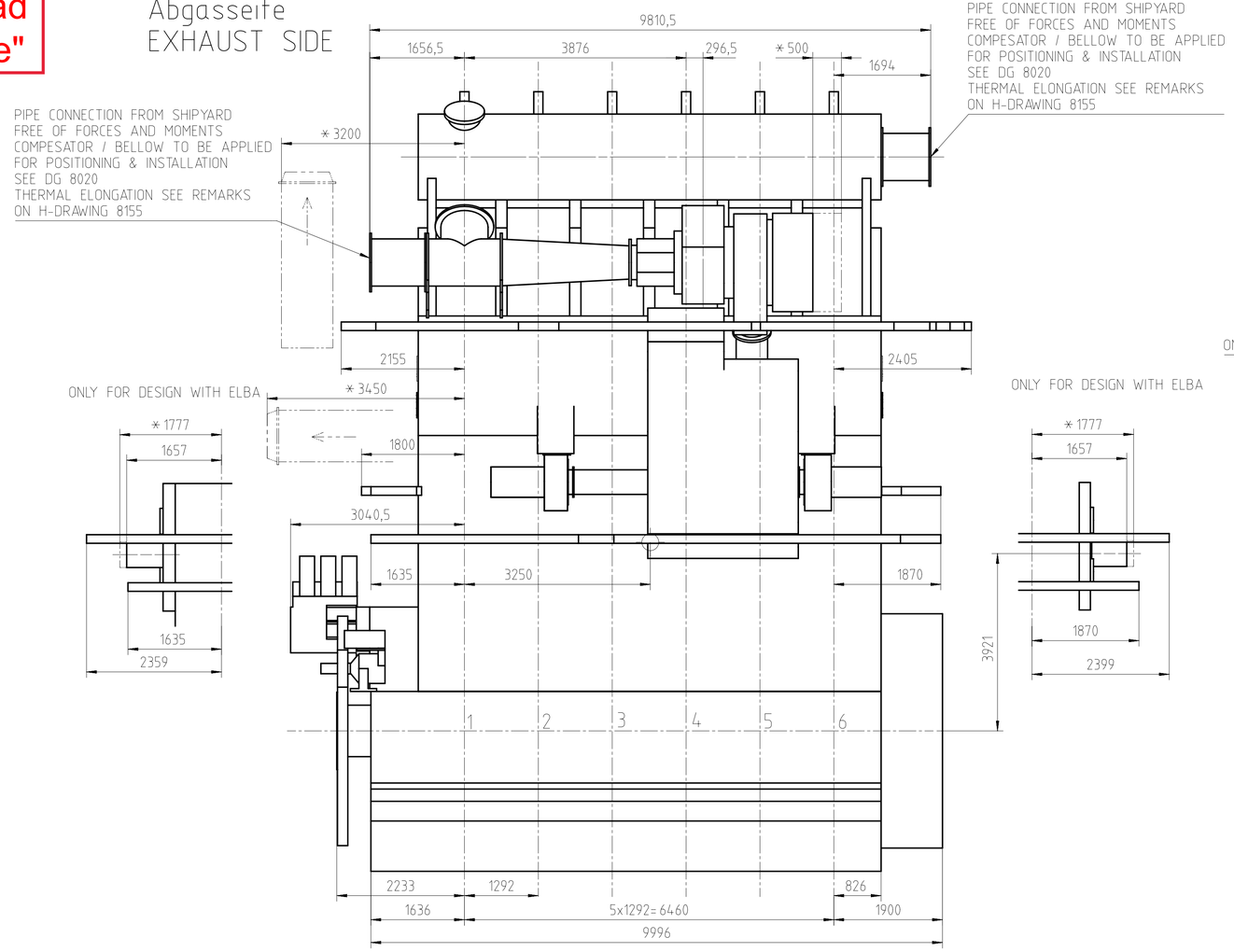
EXHAUST SIDE



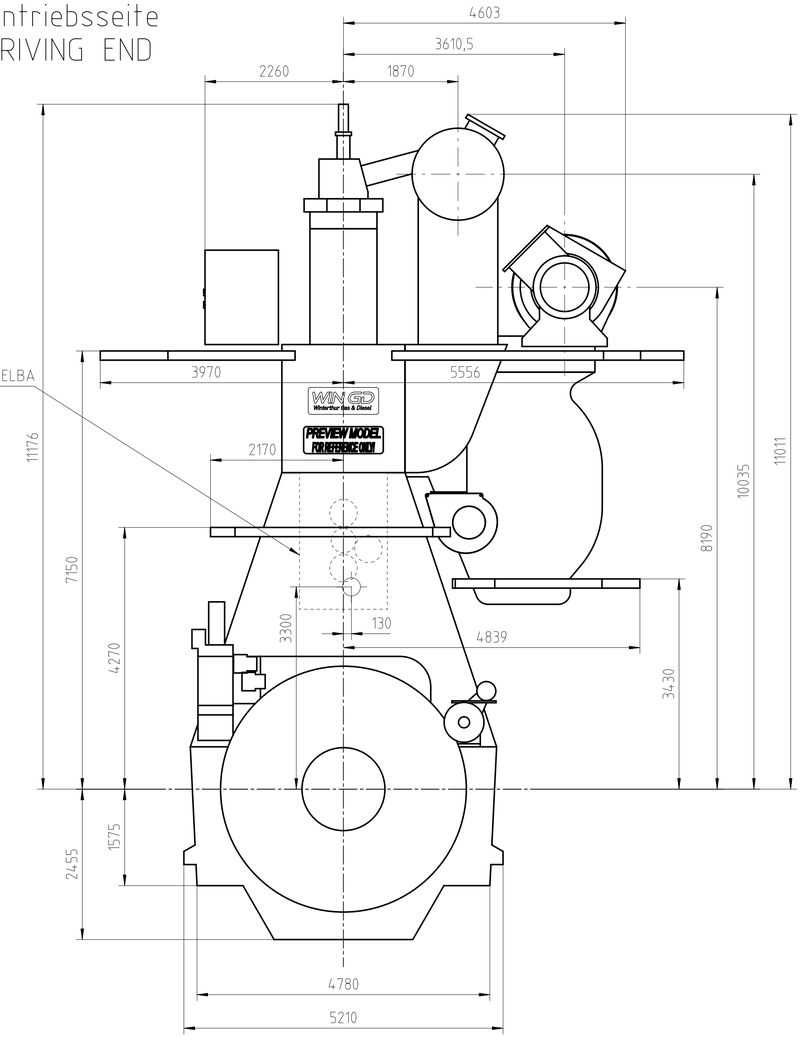
PIPE CONNECTION FROM SHIPYARD
FREE OF FORCES AND MOMENTS
COMPESATOR / BELLOW TO BE APPLIED
FOR POSITIONING & INSTALLATION
SEE DG 8020
THERMAL ELONGATION SEE REMARKS
ON H-DRAWING 8155

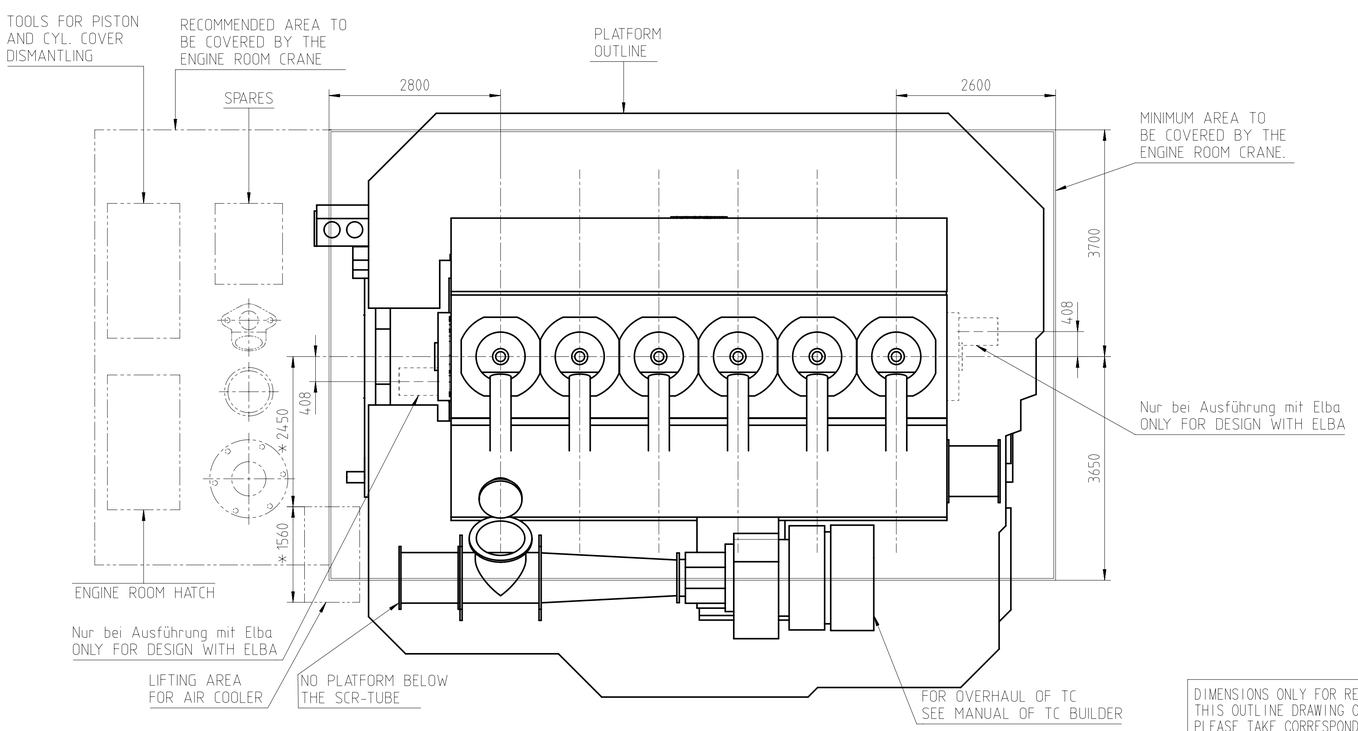
PIPE CONNECTION FROM SHIPYARD
FREE OF FORCES AND MOMENTS
COMPESATOR / BELLOW TO BE APPLIED
FOR POSITIONING & INSTALLATION
SEE DG 8020
THERMAL ELONGATION SEE REMARKS
ON H-DRAWING 8155

ONLY FOR DESIGN WITH ELBA

ONLY FOR DESIGN WITH ELBA

Antriebsseite
DRIVING END





Gewicht ohne Wasser und Oel = 561t
WEIGHT WITHOUT WATER AND OIL

* Platz fuer Demontage
SPACE FOR REMOVAL

ca. Schwerpunkt
APPROX. CENTRE OF GRAVITY

1xA175-L axial
TURBOCHARGER 1xA275-L

Net Weight						
0.001						
1	001	PAAD187129	DISMANTLING DIMENSIONS	DAAD064846		0.001
Quantity PER ENGINE	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET

PAAD360563	Free space for lic.		Q-Code XXXXX	Main Drw. H
Material ID	Modif.	- EAAD094027 15.04.2021	Standard ISO; JIS	
		Number / Drawn date	Number / Drawn date	Number / Drawn date / Number / Drawn date

Approved

WIN GD Winterthur Gas & Diesel

Product 6X72DF(STD)

ENGINE OUTLINE VIEW
HP-SCR-INTERFACE
Motoransichten
HP-SCR-Interface

Units	mm kg	N/X	Basic Material	Net Weight
Made	27.07.2020	jma101 Ma	Scale 1:50	Size A1 / Page 1/1 / Material ID
Chkd	15.04.2021	sch101 Chen	Design Group 0812	Drawing ID DAAD132883 / Rev. -
Appd	15.04.2021	sth017 Thalmann		

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

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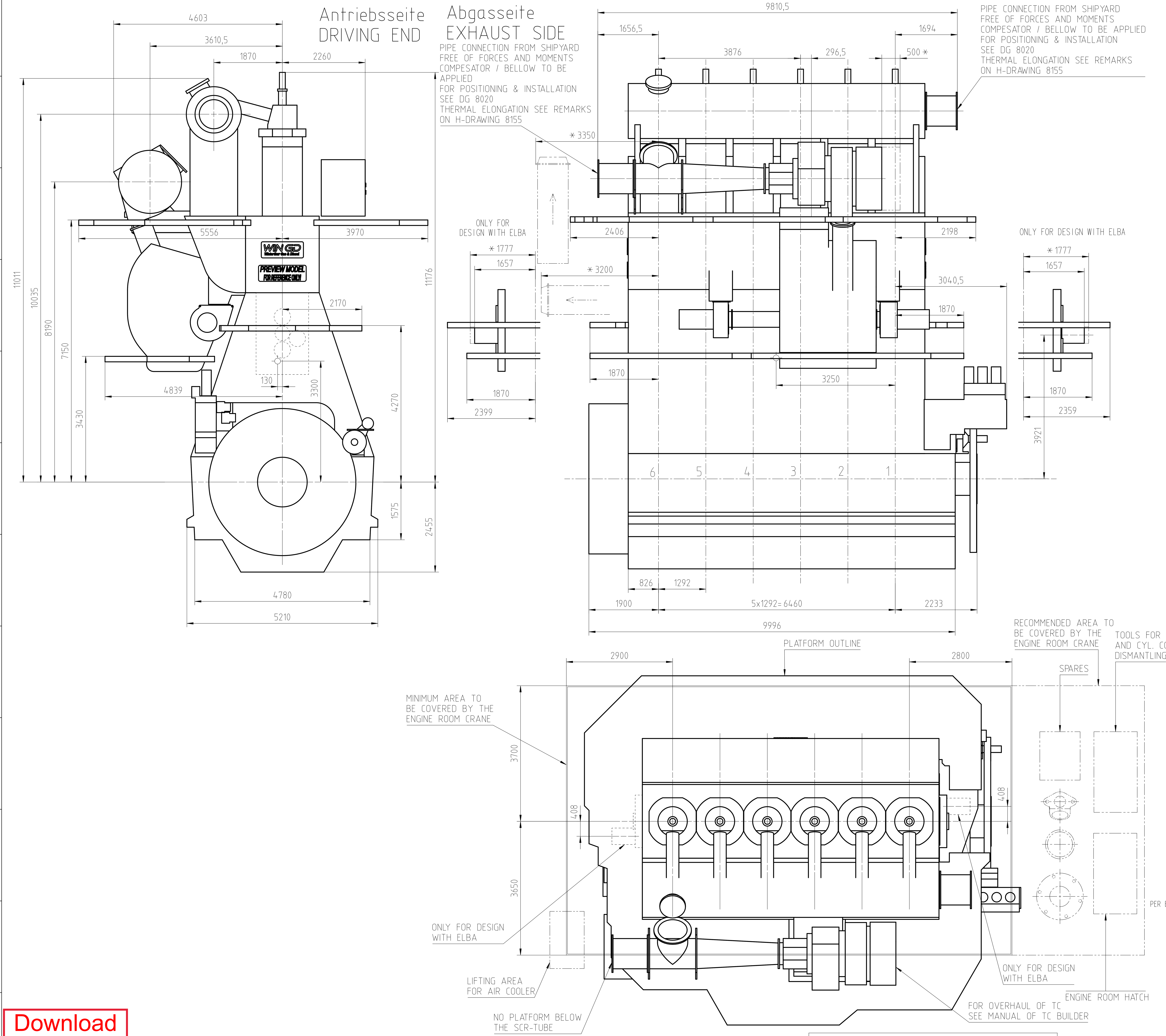

gezeichnet fuer Turbolader A275
DRAWN FOR TURBOCHARGER

Gewicht ohne Wasser und Oel= 561 t
WEIGHT WITHOUT WATER AND OIL

* Platz fuer Demontage
SPACE FOR REMOVAL

⌖ ca. Schwerpunkt
APPROX. CENTRE OF GRAVITY

TURBOCHARGER 1x A175-L axial
1x A275-L

Quantity PER ENGINE	SEQ NO	Material ID	Material Name	Dimension, Occ	Standard or Drawing	Weight GR/NET
1	001	PAAD187129	DISMANTLING DIMENSIONS		DAAD064846	0,001

Net Weight 0,001
Material ID PAAD360338

Basic Material / Material Standard
Q-Code XXXXX
Standard ISO; JIS
Main Drw. H

Modif. EAAD094027 15.04.2021

WIN GD Winterthur Gas & Diesel

Product 6X72DF(LEFT)

ENGINE OUTLINE VIEW
HP-SCR-INTERFACE
Motoransichten
HP-Scr-Interface

Units mm kg — NX
Made 27.07.2020 jma101 Ma
Chkd 15.04.2021 sch101 Chen
Appd 15.04.2021 sth017 Thalmann
Scale 1:40 — Size A1 — Page 1/1
Design Group 0812
Drawing ID DAAD132778 — Rev. –

DIMENSIONS ONLY FOR REFERENCE
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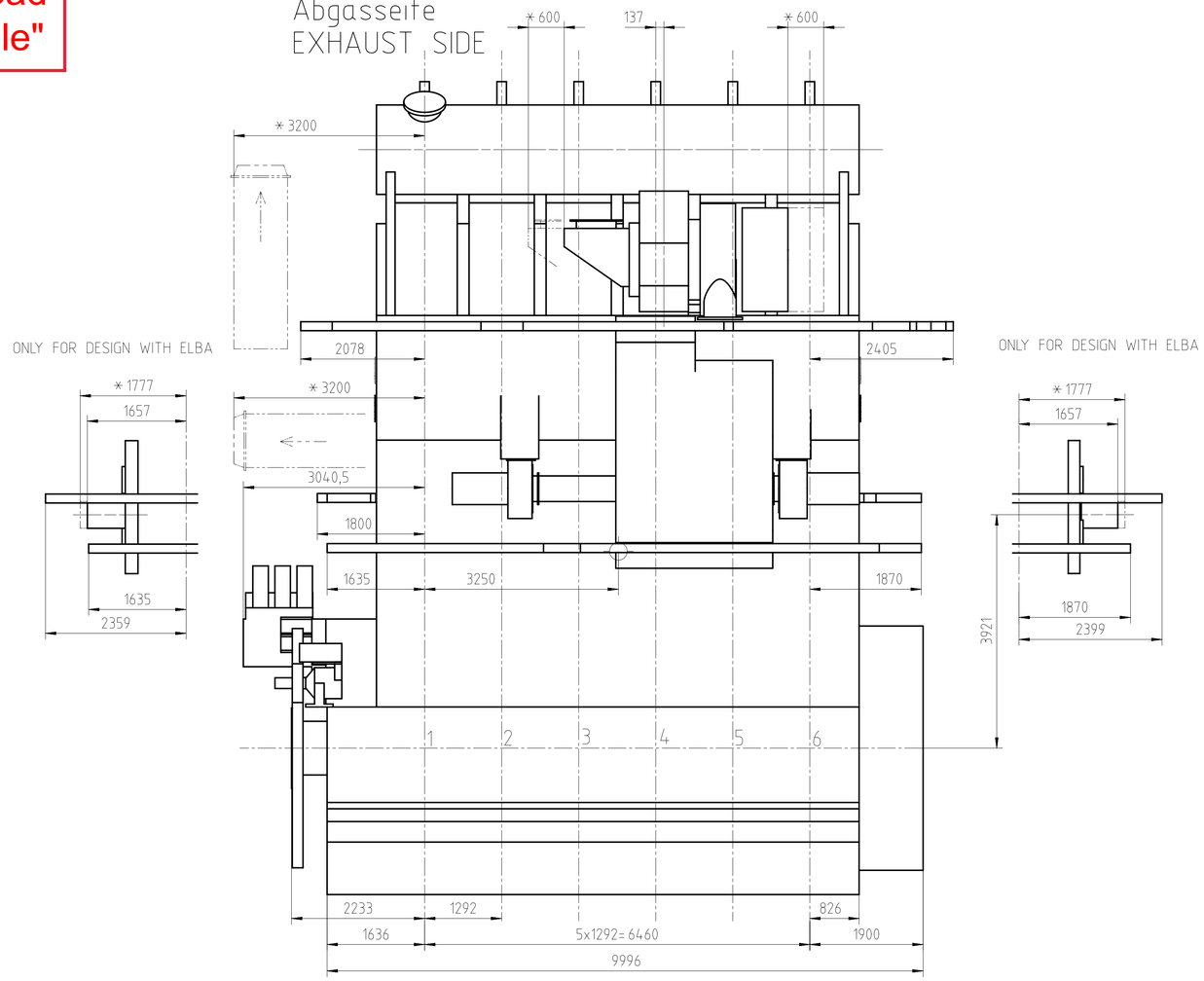
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Abgasseite
EXHAUST SIDE



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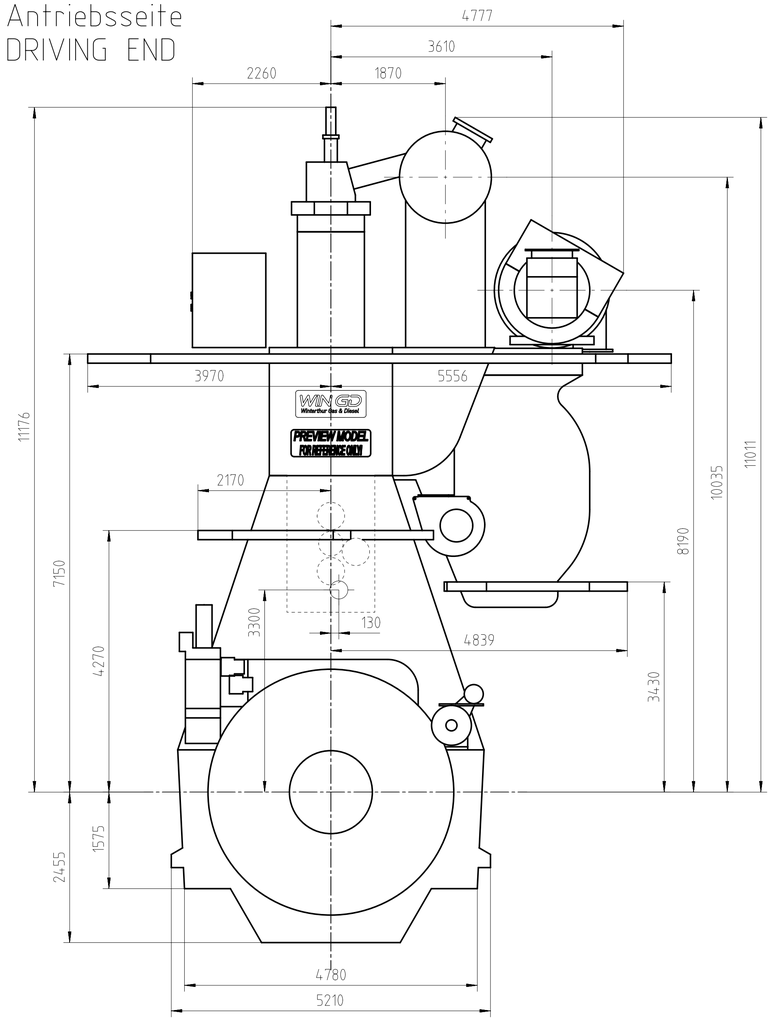

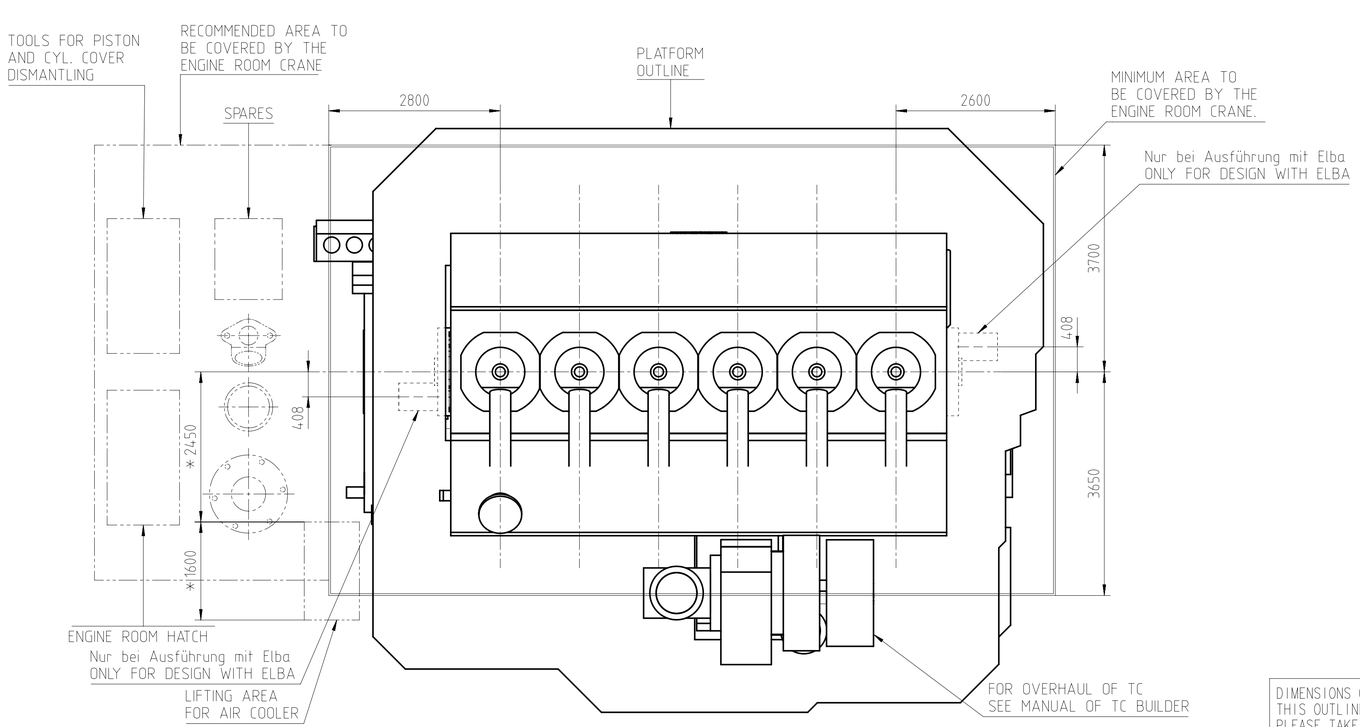

gezeichnet fuer Turbolader A180-L
DRAWN FOR TURBOCHARGER

Gewicht ohne Wasser und Oel = 561t
WEIGHT WITHOUT WATER AND OIL

* Platz fuer Demontage
SPACE FOR REMOVAL

⊕ ca. Schwerpunkt
APPROX. CENTRE OF GRAVITY

1xA180-L
TURBOCHARGER 1xA280-L

Net Weight	Quantity PER ENGINE	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET
0,001	1	001	PAAD187129	DISMANTLING DIMENSIONS	DAAD064846		0,001

Material ID: PAAD360801 — Free space for ic. — Q-Code: XXXXX — Standard: ISO; JIS — Main Drw.: H

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
-	EAAD094027	15.04.2021						

Approved

WIN GD Winterthur Gas & Diesel

Product: 6X72DF(STD)

ENGINE OUTLINE VIEW
Motoransichten

Units	mm kg	NX	Basic Material	Net Weight

Made	27.07.2020	jma101 Ma	Scale 1:50	Size A1	Page 1/1	Material ID
Chkd	15.04.2021	sch101 Chen	Design Group 0812	Drawing ID DAAD133014		Rev. -
Appd	15.04.2021	sth017 Thalmann				

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GENERAL TOLERANCES ACCORDING TO ISO2768-mK

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Kolben mit Stange komplett und Stopfbuechse
PISTON WITH ROD COMPLETE AND GLAND BOX

Gewicht ohne Hebewerkzeug:
WEIGHT WITHOUT LIFTING TOOL:

X72DF = 2800 kg
X72-B = 2880 kg (B)

Zylindereinsatz und Wasserleitmantel
CYLINDER LINER AND WATER GUIDE JACKET

Gewicht ohne Hebewerkzeug:
WEIGHT WITHOUT LIFTING TOOL:

X72DF = 6400 kg
X72-B = 6250 kg (B)

Zylinderdeckel mit Auslassventil komplett und Wasserleitmantel
CYLINDER COVER WITH EXHAUST VALVE COMPLETE AND WATER GUIDE JACKET

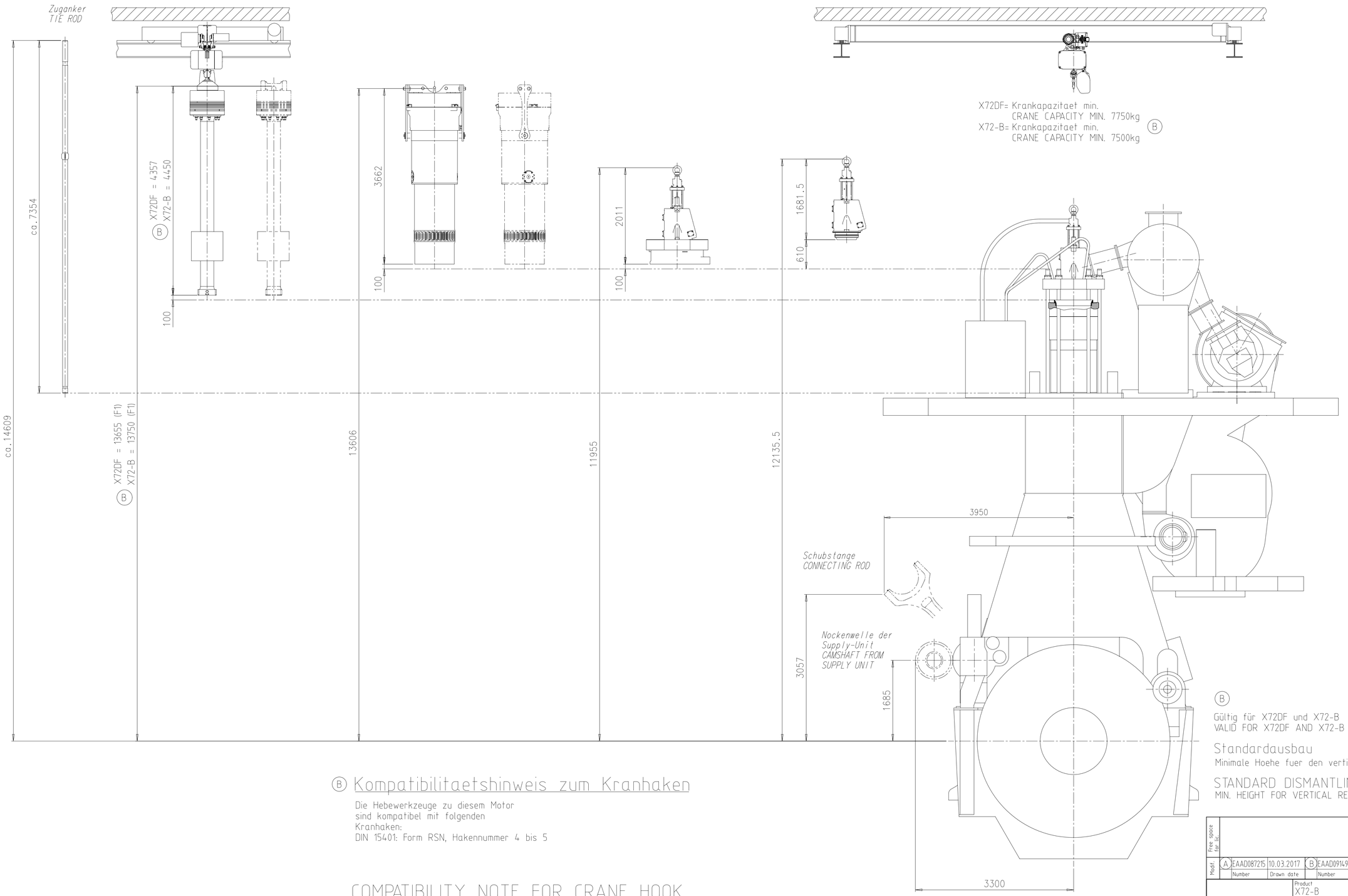
Gewicht ohne Hebewerkzeug:
WEIGHT WITHOUT LIFTING TOOL:

X72DF = 4180 kg
X72-B = 4370 kg (B)

Auslassventil komplett
EXHAUST VALVE COMPLETE

Gewicht ohne Hebewerkzeug:
WEIGHT WITHOUT LIFTING TOOL:

1050 kg (B)



(B) Gültig für X72DF und X72-B
VALID FOR X72DF AND X72-B

Standardausbau
Minimale Hoehe fuer den vertikalen Ausbau: F1

STANDARD DISMANTLING
MIN. HEIGHT FOR VERTICAL REMOVAL: F1

(B) Kompatibilitaetshinweis zum Kranhaken

Die Hebewerkzeuge zu diesem Motor
sind kompatibel mit folgenden
Kranhaken:
DIN 15401: Form RSN, Hakennummer 4 bis 5

COMPATIBILITY NOTE FOR CRANE HOOK

THE LIFTING TOOLS FOR THIS ENGINE
ARE COMPATIBLE WITH FOLLOWING
CRANE HOOK:
DIN 15401: SHAPE RSN, HOOK NUMBER 4 TO 5

Approved

Free space for lic.							Q-Code XXXXX		Main Drw.
							Standard ISO; JIS		
Modif.	A	EAAD087215	10.03.2017	B	EAAD091495	15.04.2020			
		Number	Drawn date		Number	Drawn date	Number	Drawn date	Number	Drawn date

WIN GD Winterthur Gas & Diesel

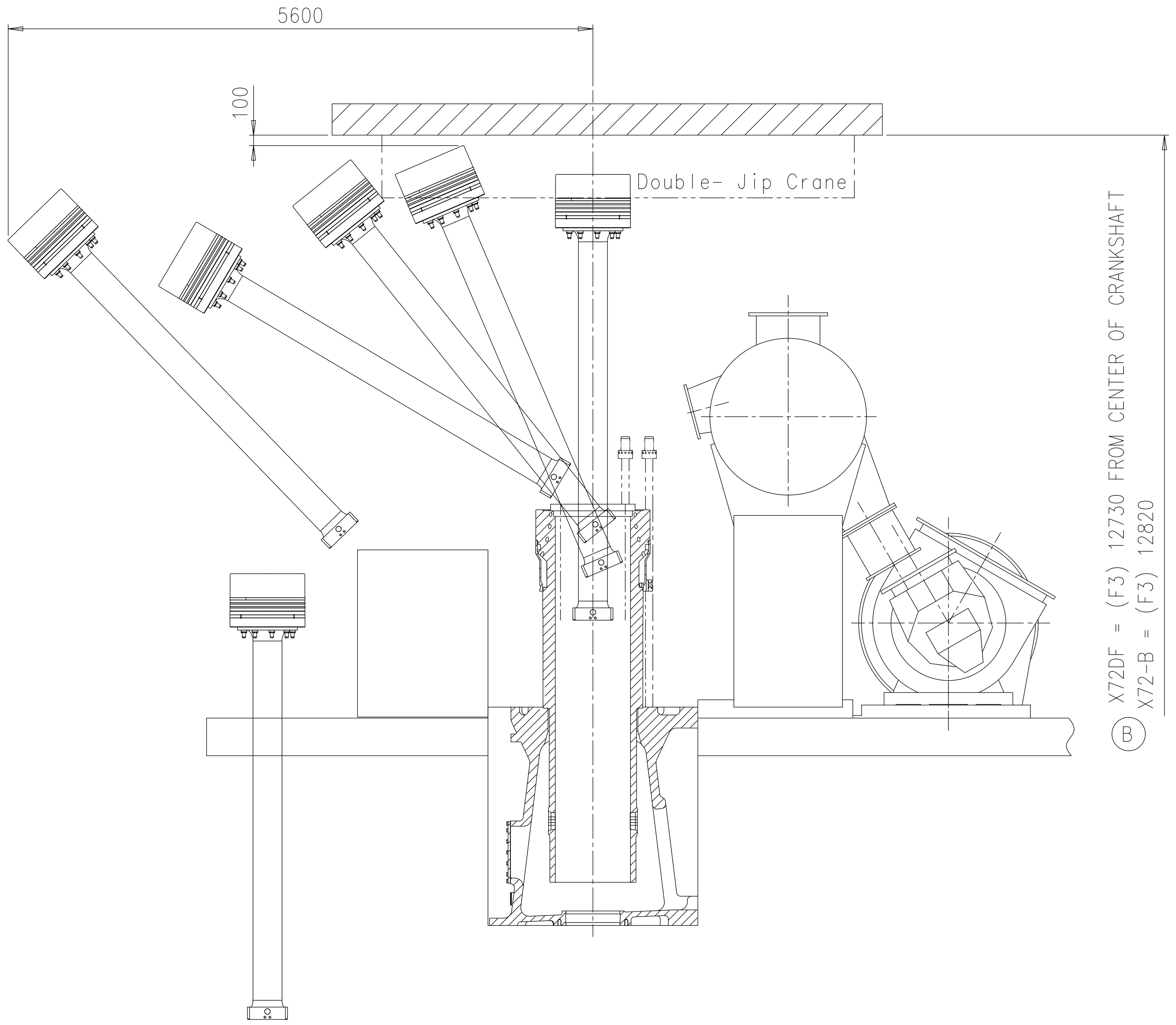
Product: X72-B, X72DF

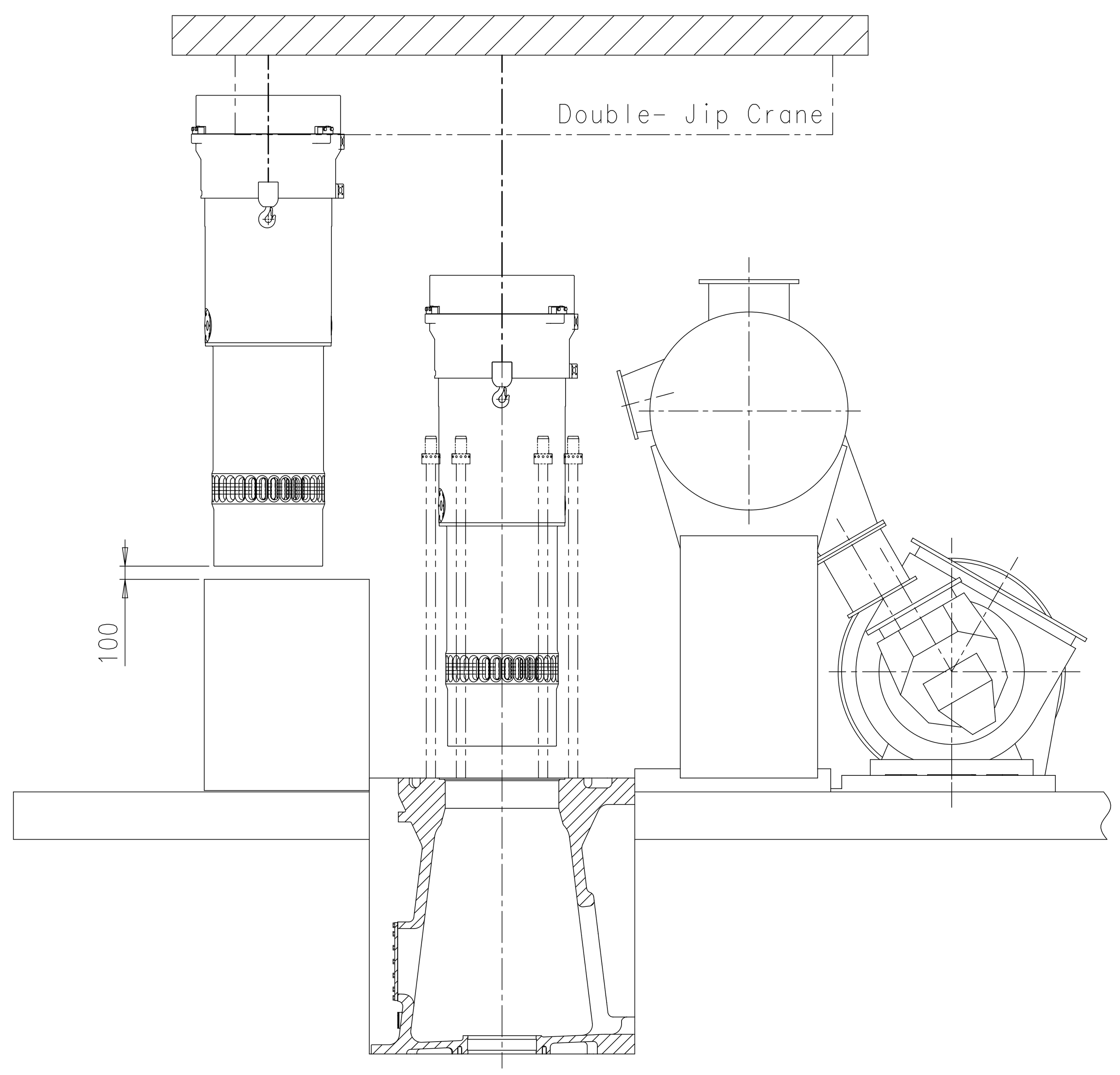
DISMANTLING DIMENSIONS

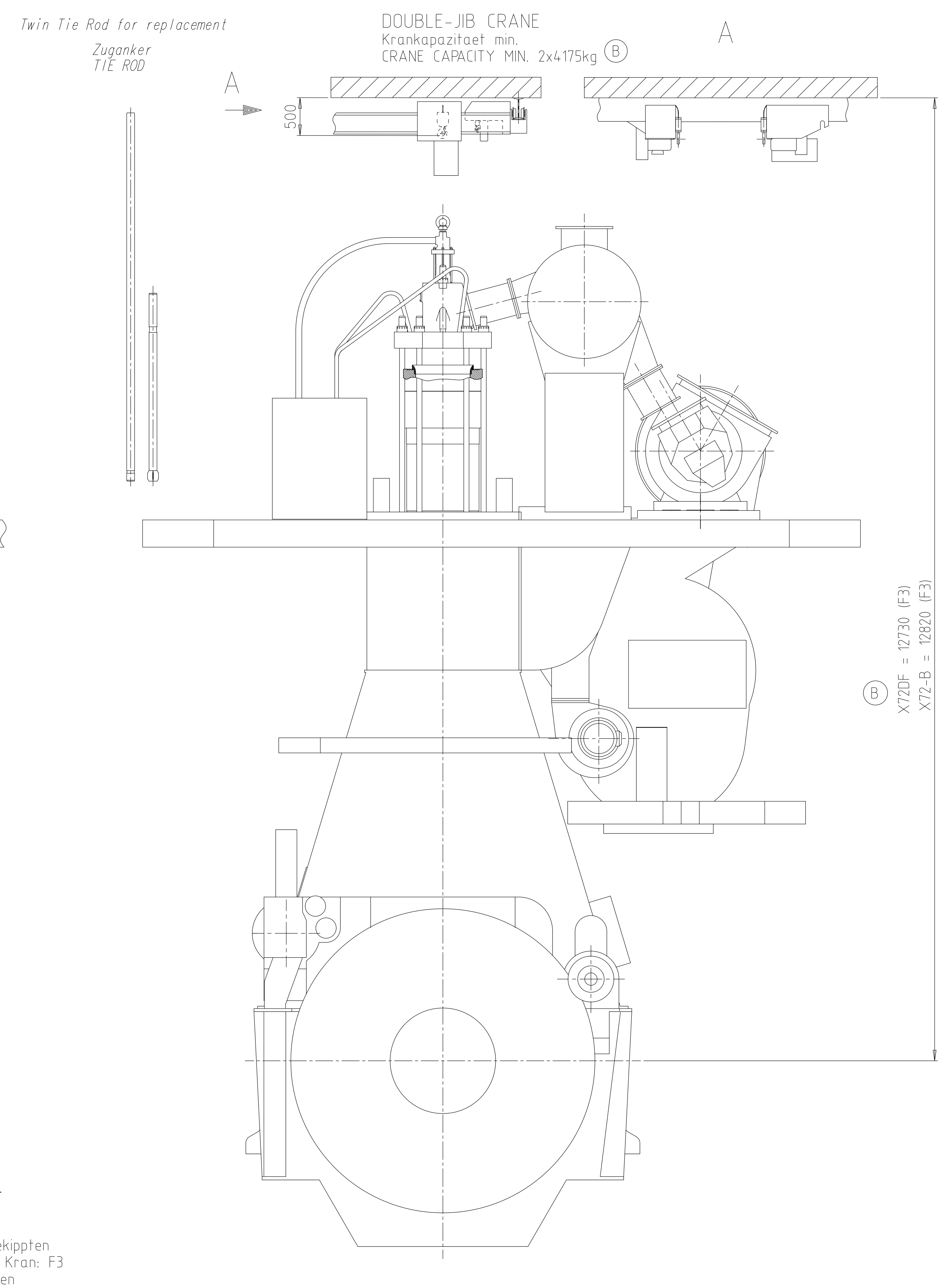
Ausbaumasse

Units mm kg	NX		Basic Material			Net Weight 0,001
SURFACE PROTECTION SEE GROUP 0344	Made	12.12.2016	a.ja101 A.Jones	Scale 1:40	Size A1	Page 1/2
TOLERANCING PRINCIPLE ISO8015	Chkd	03.11.2015	ast044 Stephan	Design Group 0812	Material ID PAAD187129	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	03.11.2015	bha009 Haag	Drawing ID DAAD064846	Rev. B	

ID - DIMENSIONAL DRAWING - Confidential







1. Disassembly of cylinder cover
2. Disassemble two cylinder cover bolts on fuel side
3. Pull out the piston with standard piston disassembly tool, then attach tool for further lifting
4. Proceed with tilted piston removal
5. Place piston on support for overhaul

6. Screw in the suspention points on the cylinder liner
7. Attach crane hooks for lifting
8. Pull out the liner until over top of rail unit
9. Move liner over rail unit and put in designated place for overhaul

(B) 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 varriert je nach der ausgewaehlten Kranausfuehrung

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

(B) Voraussetzungen fuer diese Ausbauart

- zweiteilige Zylinderdeckel-Dehnbolzen auf der Brennstoffseite
- zweiteilige Zuganker im Reparaturfall
- Spezialkran (DOUBLE-JIB)
- spezielle Hebewerkzeuge 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

Free space for lic.							Q-Code XXXXX Standard ISO; JIS	Main Drw.
Modif.	(A) EAAD087215	10.03.2017	(B) EAAD091495	15.04.2020	Number	Drawn date	Number	Drawn date
	Number	Drawn date	Number	Drawn date				
WIN GD Winterthur Gas & Diesel		Product X72-B X72DF		DISMANTLING DIMENSIONS Ausbaumasse				
Units mm kg	NX		Basic Material				Net Weight 0,001	
Made	12.12.2016 ajo101 A.Jones		Scale 1:40	Size A1	Page 2/2	Material ID	PAAD187129	
Chkd	03.11.2015 ast044 Stephan		Design Group 0812	Drawing ID	DAAD064846		Rev.	B
Appd	03.11.2015 bha009 Haag							

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

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WinGD-6X72DF_Engine-Outline-View

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2018-02-26	DRAWING SET	First web upload
2019-05-15	DAAD114796	Engine Outline View for Turbocharger type 1xA180-L/ A280-L (STD) has been added.
2020-07-20	DAAD128777 DAAD128672 DAAD064846	Revised Engine Outline View for Turbocharger type 1xA165 has DAAD114796been updated.
2021-05-25	PAAD352638 PAAD352924 PAAD360004 PAAD360338 PAAD360563 PAAD360735 PAAD360808	Engine Outline View for Turbocharger type 1xA175-L/A275-L_LP/HP-SCR (STD & LEFT) have been replaced.
	PAAD360363	Engine Outline View for Turbocharger type 2xA165-L/A265-L_LEFT have been replaced.
	PAAD360801	Engine Outline View for Turbocharger type 1xA180-L/A280-L_STD have been replaced.