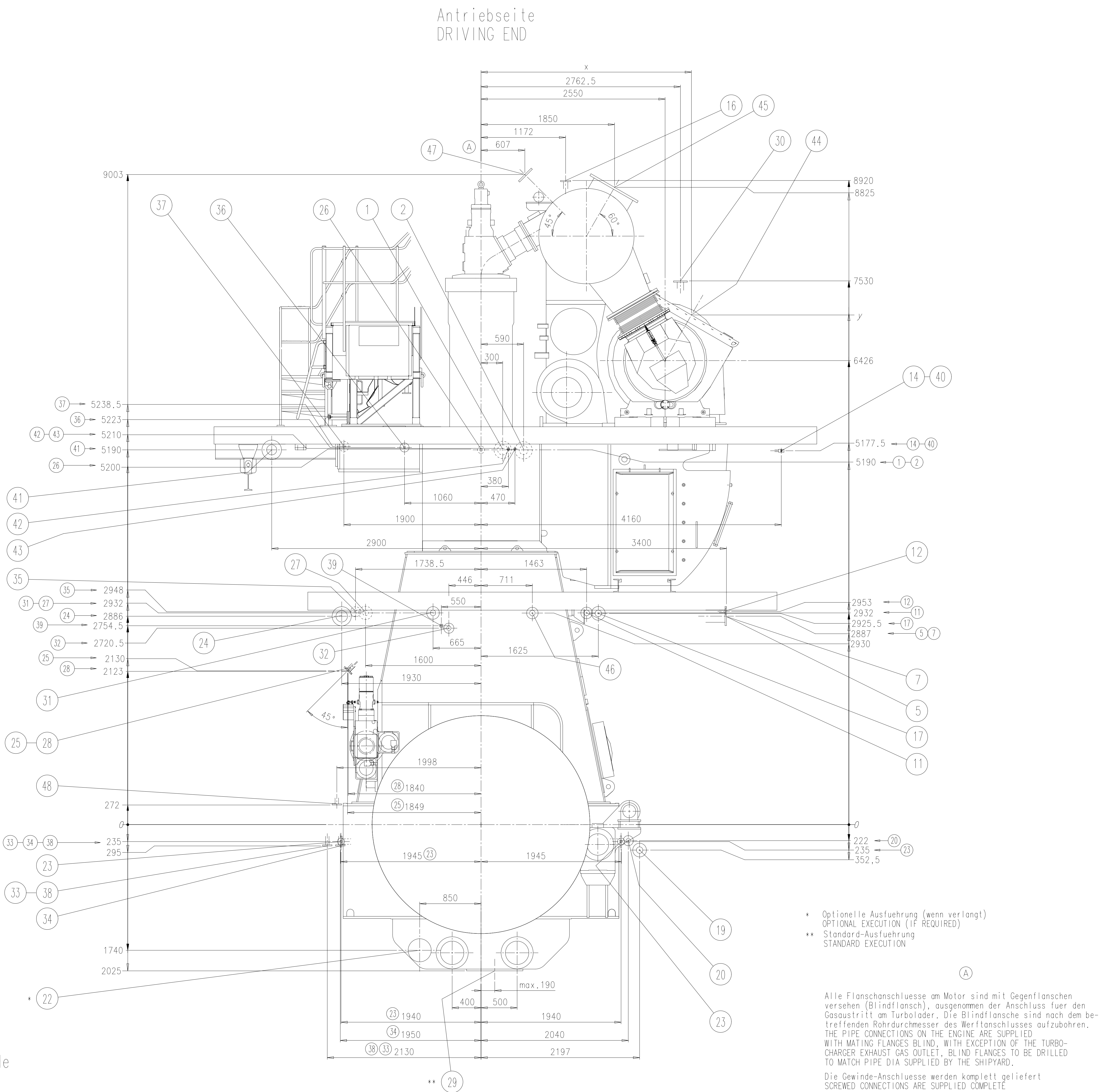
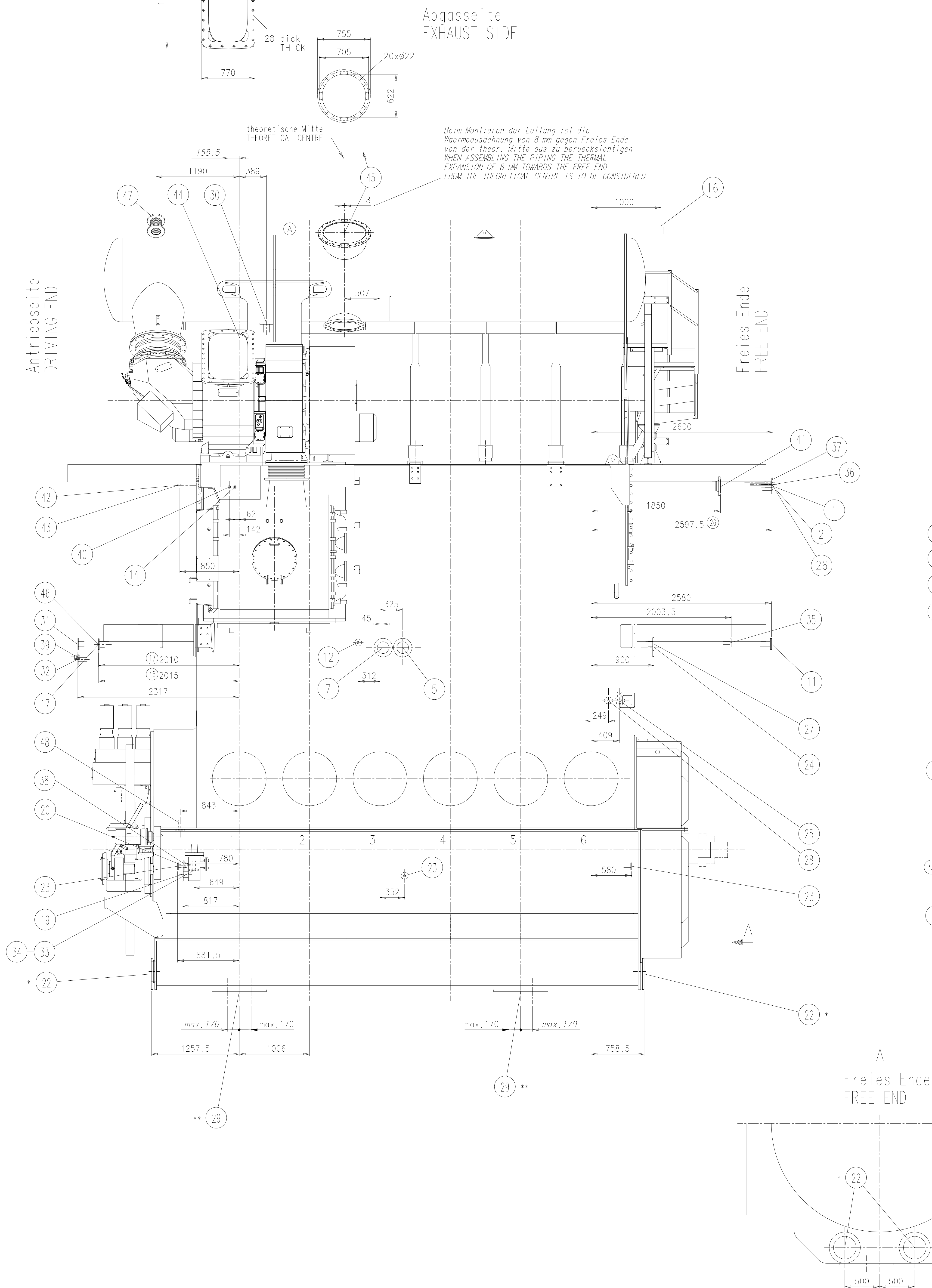


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"DXF file"

Gasaustritt-Stellung GAS OUTLET POSITION	x	y
15 °	2739	7131
30 °	2915	7058
45 °	3066	6942



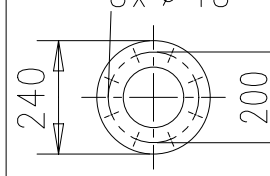
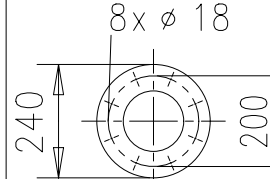
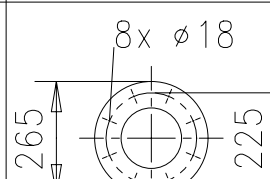
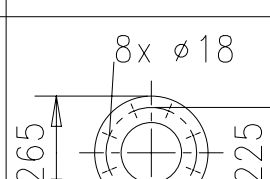
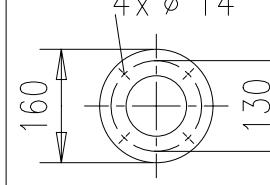
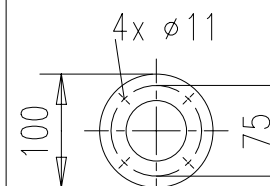
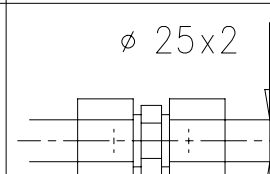
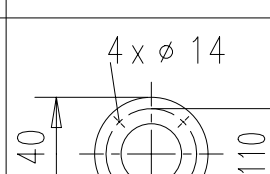
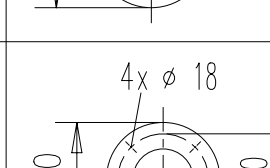
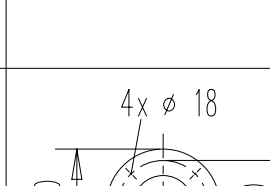
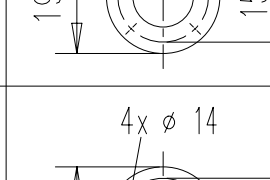
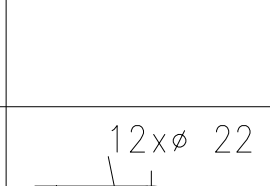
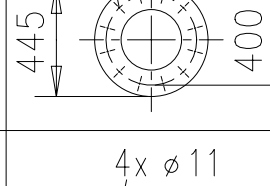
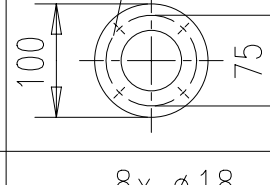
Optionelle Ausführung (wenn verlangt)
OPTIONAL EXECUTION (IF REQUIRED)
Standard-Ausführung
STANDARD EXECUTION

Alle Flanschsanschlüsse am Motor sind mit Gegenflanschen versehen (Blindflansch), ausgenommen der Anschluss fuer den Gasaustritt am Turbolader. Die Blindflansche sind nach dem betreffenden Rohrdurchmesser des Werftanschlusses aufzubohren. THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED WITH MATING FLANGES BLIND, WITH EXCEPTION OF THE TURBOCHARGER EXHAUST GAS OUTLET, BLIND FLANGES TO BE DRILLED TO MATCH PIPE DIA SUPPLIED BY THE SHIPYARD.

Die Gewinde-Anschlüsse werden komplett geliefert
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE

TURBOCHARGER: A175

Free space		Date		G-Code		Main Grw.	
				XXXXXX		H	
				Standard			
				JIS			
Part	EAD083769 08.06.2012		EAD084575 13.10.2020				
Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
 WIN GD Winterthur Gas & Diesel Product GRT-flex58T-D V2 GRT-flex58T-E PIPE CONNECTION PLAN							
Units	mm kg	NX		Basic Material		Net weight 0,001	
Size	15.05.2012	sxx01 zuerli	Scale	1:25	Size	40	
Drawn	05.06.2012	mir9 Liebhart	Design	Group	1/2	Material	
Appr	05.06.2012	bha009 Haag	8020	Drawing	DAAD027992	Rev.	A

					Leitungs - Anschlüsse PIPE - CONNECTIONS			
					Ko. Gr. GROUP	Freies Ende FREE END	Antriebsseite DRIVING END	Freies Ende oder Antriebsseite FREE OR DRIVING END
1		Kuehlwasserleitung Zylindereinsatz Eintritt COOLING WATER PIPE CYLINDER LINER INLET	DN125	8305	X			
2		Zylinderkuehlwasserleitung Austritt CYLINDER COOLING WATER PIPE OUTLET	DN125	8310	X			
3								
4								
5		SLK Leitung Kuehlwasser Eintritt SAC PIPE COOLING WATER INLET	DN150	8335				
6								
7		SLK Leitung Kuehlwasser Austritt und Entluftung SAC PIPE COOLING WATER OUTLET AND AIR VENT	DN150	8335				
8								
9								
10								
11		Sammelleitung oeliges Wasser Receiver COLLECTOR MAIN OILY WATER RECEIVER	DN65	8352	X			
12		Kuehlwasser Entleerungsleitung COOLING WATER DRAIN PIPE	DN25	8313				
13								
14		Wasser-/Luftlfg. Reinigungsanlage (Wasseranschluss) WATER/AIR PIPE CLEANING PLANT (WATER CONNECTION)	DN20	8338				
15								
16		Zylinderkuehlwasserleitung Entluftung CYLINDER COOLING WATER PIPE VENTING	DN50	8310	X			
17		Sammelleitung Kondenswasser SLK Entluftung Austritt COLLEC. MAIN CONDENSATE WATER SAC VENTING OUTLET	DN80	8357		X		
18								
19		Sammelleitung Kondenswasser SLK Kondenswasser Austritt COLLEC. MAIN CONDENSATE WATER SAC CONDENSATE WATER OUTLET	DN80	8357		X		
20		Sammelleitung Kondenswasser SLK Schwamwasser Austritt COLLEC. MAIN CONDENSATE WATER SAC WASHING WATER OUTLET	DN50	8357		X		
21								
22		Grundplatte Oelablauf (Horizontal) BEDPLATE OIL DRAIN (HORIZONTAL)	DN300	1110	X	X		
23		Sammelleitung Leckoeel Grundplatte COLLECTOR MAIN LEAKAGE OIL BEDPLATE	DN25	8463			X	
24		Oelleitung Eintritt OIL PIPE INLET	DN150	8406	X			

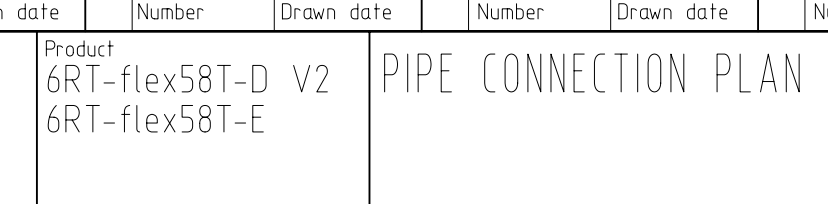
				Ko.Gr. GROUP	Leitungs - Anschlüsse PIPE - CONNECTIONS				
						Freies Ende FREE END	Antriebsseite DRIVING END	Freies Ende oder Antriebsseite FREE OR DRIVING END	
(25)		Sammelltg. Schmutzöl Kolben- u. seite COLLEC. MAIN DIRTY OIL PIST. U. SIDE	DN50	8487					
(26)		Zylinderschmierpumpen Anordnung CYLINDER LUBRICATING PUMPS ARRANG.	DN32	8475	X				
(27)		Ölleitung Kreuzkopf OIL PIPE CROSSHEAD	DN65	8455	X				
(28)		Sammelleitung Lecköl Stabfuechse COLLEC. MAIN LEAKAGE OIL GLAND BOX	DN32	8488					
(29)		Grundplatte Ölablauf (Vertikal) BEDPLATE OIL DRAIN (VERTICAL)		1110	X	X			
(30)		Ölsystem TL Entlüftung OIL SYSTEM TC VENTING	DN80	8610					
(31)		Brennstoffltg. Einspritzpumpe Eintritt FUEL PIPE INJECTION PUMP INLET	DN65	8702		X			
(32)		Brennstoffltg. Einspritzpumpe Austritt FUEL PIPE INJECTION PUMP OUTLET	DN50	8704		X			
(33)		Leckbrennstoffleitung RAIL-UNIT FUEL LEAKAGE PIPE RAIL-UNIT	DN40	8740					
(34)		Leckbrennstoffltg. Einspritzventil FUEL LEAKAGE PIPE INJECTION VALVE	DN40	8741					
(35)		Feuerlöschleitung FIRE EXTINGUISHING PIPE	DN32	8830	X				
(36)		Heizleitung Eintritt HEAT PIPING INLET	DN25	8810	X				
(37)		Feuerlöschleitung RU Eintritt FIRE EXTINGUISHING RU INLET	DN32	8832	X				
(38)		Heizleitung Austritt HEAT PIPING OUTLET	DN15	8810					
(39)		Heizleitung Austritt HEAT PIPING OUTLET	DN15	8810		X			
(40)		Wasser-/Luftltg. Reinigungsanlage (Luftanschluss) WATER/AIR PIPE CLEANING PLANT (AIR CONNECTION)	DN20	8338					
(41)		Anlassluftleitung Eintritt STARTING AIR PIPE INLET	DN125	8605	X				
(42)		Steuerluftversorgung 30 bar; A2 CONTROL AIR SUPPLY	DN15	4605 4606		X			
(43)		Steuerluftversorgung 8 bar; A1 CONTROL AIR SUPPLY	DN15	4605 4606		X			
(44)	siehe Seite 1 SEE PAGE 1	Turbolader Gasaustritt TURBOCHARGER GAS OUTLET		6506 6509					
(45)	siehe Seite 1 SEE PAGE 1	Abgassammelleitung (für Motoren mit einem Turbolader) EXHAUST MANIFOLD (FOR ENGINES WITH ONE TURBOCHARGER)	DN600	8103 8108					
(46)		Kurbelgehäuse Entlüftung CRANKCASE VENTING	DN65	8608	X				
(47)		Abgas-Abblaseventil EXHAUST WASTE GATE	DN125	8135					
(48)		Ölablauffltg. Versorgungseinheit OIL PIPE DRAIN SUPPLY UNIT	DN40	8454					

- * Optionelle Ausführung (wenn verlangt)
OPTIONAL EXECUTION (IF REQUIRED)
- ** Standard-Ausführung
STANDARD EXECUTION

(A)

Alle Flanschanschlüsse am Motor sind mit Gegenflanschen versehen (Blindflansch), ausgenommen der Anschluss fuer den Gasaustritt am Turbolader. Die Blindflansche sind noch dem be treffenden Rohrdruckmesser des Wertfahrsystems aufzubohren.
THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED WITH MATCHING FLANGES BLIND, WITH EXCEPTION OF THE TURBO-CHARGER EXHAUST GAS OUTLET, BLIND FLANGES TO BE DRILLED TO MATCH PIPE DIA SUPPLIED BY THE SHIPYARD.
Die Gewinde-Anschlüsse werden komplett geliefert
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE
WITH EXHAUST WASTE GATE

TURBOCHARGER: A175

Model	CAAD08769		08.06.2012		CAAD094573		13.10.2020								G-code XXXXXX Standard JIS		Form Drw.		
	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date	
 																		PIPE CONNECTION PLAN	
Product GRT-flex58T-D V2 GRT-flex 58T-D																			
Units ntm kg NX Basic Material Net Weight 0.00																			
Model	15.05.2012		szux01		Zuercher		Scale 1:1		Size A0	Page 2 / 2	Material P1	PAAD08841							
Chk	05.06.2012		mix09		Liebhart		Design Group 8020		Drawing 0	DAAD027992								Rev.	
Appr	05.06.2012		thao09		Haag														

[illegible]

				Leitungs - Anschlüsse PIPE - CONNECTIONS			
				Ko.Gr. GROUP	Freies Ende FREE END	Antriebsseite DRIVING END	Freies Ende oder Antriebsseite FREE OR DRIVING END
①		Kuehlwasserleitung Zylindereinsatz Eintritt COOLING WATER PIPE CYLINDER LINER INLET	DN125	8305	X		
②		Zylinderkuehlwasserleitung Austritt CYLINDER COOLING WATER PIPE OUTLET	DN125	8310	X		
③							
④							
⑤		SLK Leitung Kuehlwasser Eintritt SAC PIPE COOLING WATER INLET	DN150	8335			
⑥							
⑦		SLK Leitung Kuehlwasser Austritt und Entlueftung SAC PIPE COOLING WATER OUTLET AND AIR VENT	DN150	8335			
⑧							
⑨							
⑩							
⑪		Sammelleitung oeliges Wasser Receiver COLLECTOR MAIN OILY WATER RECEIVER	DN65	8352	X		
⑫		Kuehlwasser Entleerungsleitung COOLING WATER DRAIN PIPE	DN25	8313			
⑬							
⑭		Wasser-/Luftltg. Reinigungsanlage (Wasseranschluss) WATER/AIR PIPE CLEANING PLANT (WATER CONNECTION)	DN20	8338			Ⓐ
⑮							
⑯		Zylinderkuehlwasserleitung Entlueftung CYLINDER COOLING WATER PIPE VENTING	DN50	8310			Ⓐ
⑰		Sammelleitung Kondenswasser SLK Entlueftung Austritt COLLEC. MAIN CONDENSATE WATER SAC VENTING OUTLET	DN80	8357		X	
⑱		Sammelleitung Kondenswasser SLK Kondenswasser Austritt COLLEC. MAIN CONDENSATE WATER SAC CONDENSATE WATER OUTLET	DN80	8357		X	
⑳		Sammelleitung Kondenswasser SLK Waschwasser Austritt COLLEC. MAIN CONDENSATE WATER SAC WASHING WATER OUTLET	DN50	8357		X	
㉑							
*1) ㉒		Grundplatte Oelablauf (Horizontal) BEDPLATE OIL DRAIN (HORIZONTAL)	DN300	1110	X	X	
㉓		Sammelleitung Leckoel Grundplatte COLLECTOR MAIN LEAKAGE OIL BEDPLATE	DN25	8463			X
㉔		Oelleitung Eintritt OIL PIPE INLET	DN150	8406	X		

*2)

Ⓑ

				Leitungs - Anschlüsse PIPE - CONNECTIONS			
				Ko.Gr. GROUP	Freies Ende FREE END	Antriebsseite DRIVING END	Freies Ende oder Antriebsseite FREE OR DRIVING END
㉕		Sammeltlg. Schmutzoel Kolbenu.seite COLLEC. MAIN DIRTY OIL PIST.U.SIDE	DN50	8487			Ⓐ
㉖		Zylinderschmierpumpen Anordnung CYLINDER LUBRICATING PUMPS ARRANG.	DN32	8475	X		
㉗		Oelleitung Kreuzkopf OIL PIPE CROSSHEAD	DN65	8455	X		
㉘		Sammelleitung Leckoel Stopfbuechse COLLEC. MAIN LEAKAGE OIL GLAND BOX	DN32	8488			Ⓐ
㉙		Grundplatte Oelablauf (Vertikal) BEDPLATE OIL DRAIN (VERTICAL)		1110	X	X	
㉚		Ölsystem TL Entlueftung OIL SYSTEM TO VENTING	DN80	8610			
㉛		Brennstoffltg. Einspritzpumpe Eintritt FUEL PIPE INJECTION PUMP INLET	DN65	8702		X	
㉜		Brennstoffltg. Einspritzpumpe Austritt FUEL PIPE INJECTION PUMP OUTLET	DN50	8704		X	
㉝		Leckbrennstoffleitung RAIL-UNIT FUEL LEAKAGE PIPE RAIL-UNIT	DN40	8740			Ⓐ
㉞		Leckbrennstoffltg. Einspritzventil FUEL LEAKAGE PIPE INJECTION VALVE	DN40	8741			Ⓐ
㉟		Feuerloeschleitung FIRE EXTINGUISHING PIPE	DN32	8830	X		
㊱		Heizleitung Eintritt HEAT PIPING INLET	DN25	8810	X		
㊲		Feuerloeschleitung RU Eintritt FIRE EXTINGUISHING RU INLET	DN32	8832	X		
㊳		Heizleitung Austritt HEAT PIPING OUTLET	DN15	8810			Ⓐ
㊴		Heizleitung Austritt HEAT PIPING OUTLET	DN15	8810		X	
㊵		Wasser-/Luftltg. Reinigungsanlage (Luftanschluss) WATER/AIR PIPE CLEANING PLANT (AIR CONNECTION)	DN20	8338			Ⓐ
㊶		Anlassluftleitung Eintritt STARTING AIR PIPE INLET	DN125	8605	X		
㊷		Steuerluftversorgung 30 bar: A2 CONTROL AIR SUPPLY	DN15	4605 4606		X	
㊸		Steuerluftversorgung 8 bar: A1 CONTROL AIR SUPPLY	DN15	4605 4606		X	
㊹	siehe Seite 1 SEE PAGE 1	Turbolader Gasaustritt TURBOCHARGER GAS OUTLET		6506 6509			
㊺	siehe Seite 1 SEE PAGE 1	Abgassammelleitung (fuer Motoren mit einem Turbolader) EXHAUST MANIFOLD (FOR ENGINES WITH ONE TURBOCHARGER)	DN600	8103 8108			
㊻		Kurbelgehäuse Entlueftung CRANKCASE VENTING	DN65	8608	X		
㊼		Abgas-Abblaseventil EXHAUST WASTE GATE	DN125	8135			
㊽		Oelablaufltg. Versorgungseinheit OIL PIPE DRAIN SUPPLY UNIT	DN40	8454			

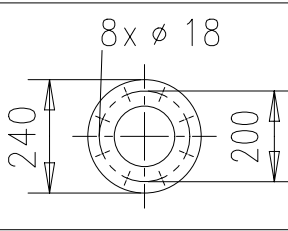
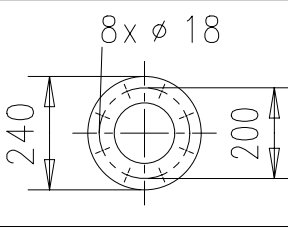
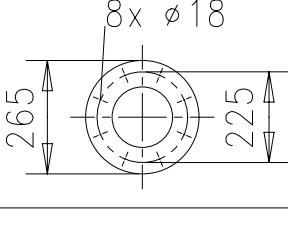
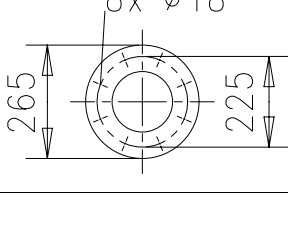
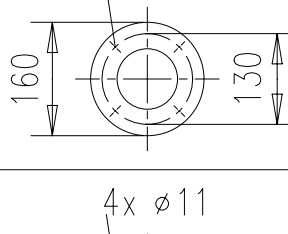
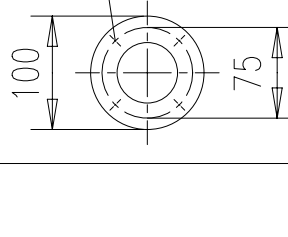
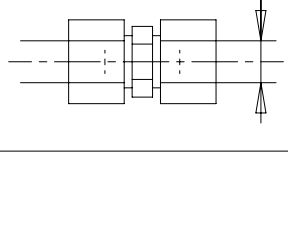
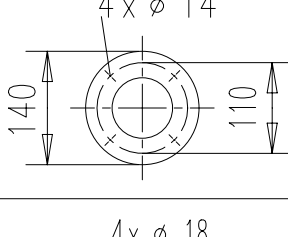
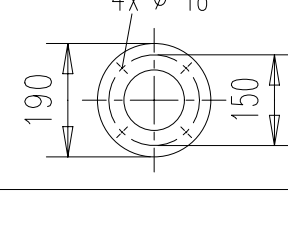
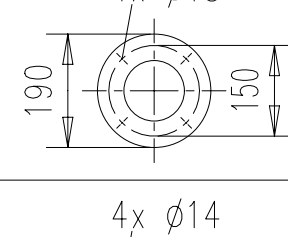
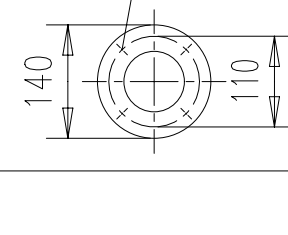
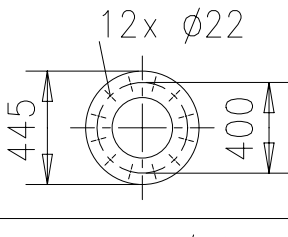
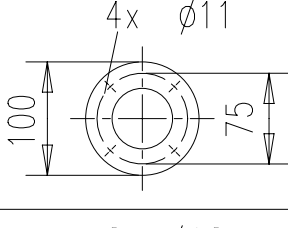
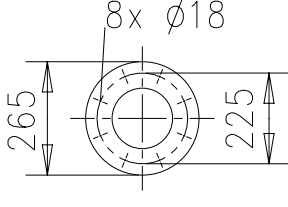
- *1) Optionelle Ausfuehrung (wenn verlangt)
OPTIONAL EXECUTION (IF REQUIRED)
*2) Standard-Ausfuehrung
STANDARD EXECUTION

Ⓓ

Alle Flanschschnuesse am Motor sind mit Gegenflanschen
versehen (Blindflansch), ausgenommen der Anschluss fuer den
Gasaustritt am Turbolader. Die Blindflansche sind nach dem be-
treffenden Rohrdurchmesser des Werflanschlusses aufzubohren.
THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED
WITH MATING FLANGES BLIND, WITH EXCEPTION OF THE TURBO-
CHARGER EXHAUST GAS OUTLET, BLIND FLANGES TO BE DRILLED
TO MATCH PIPE DIA SUPPLIED BY THE SHIPYARD.
Die Gewinde-Anschuesse werden komplett geliefert
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE
WITH EXHAUST WASTE GATE

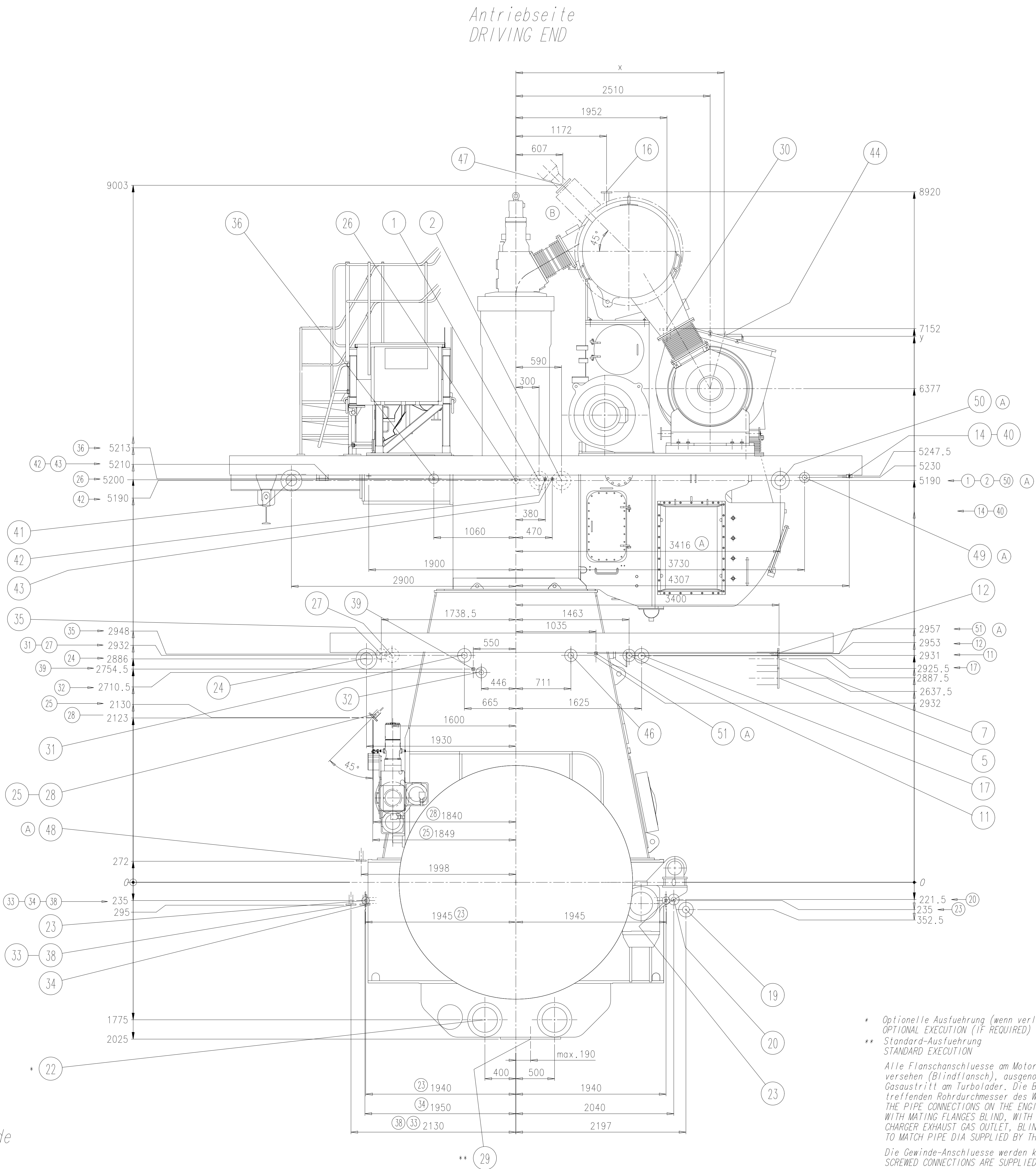
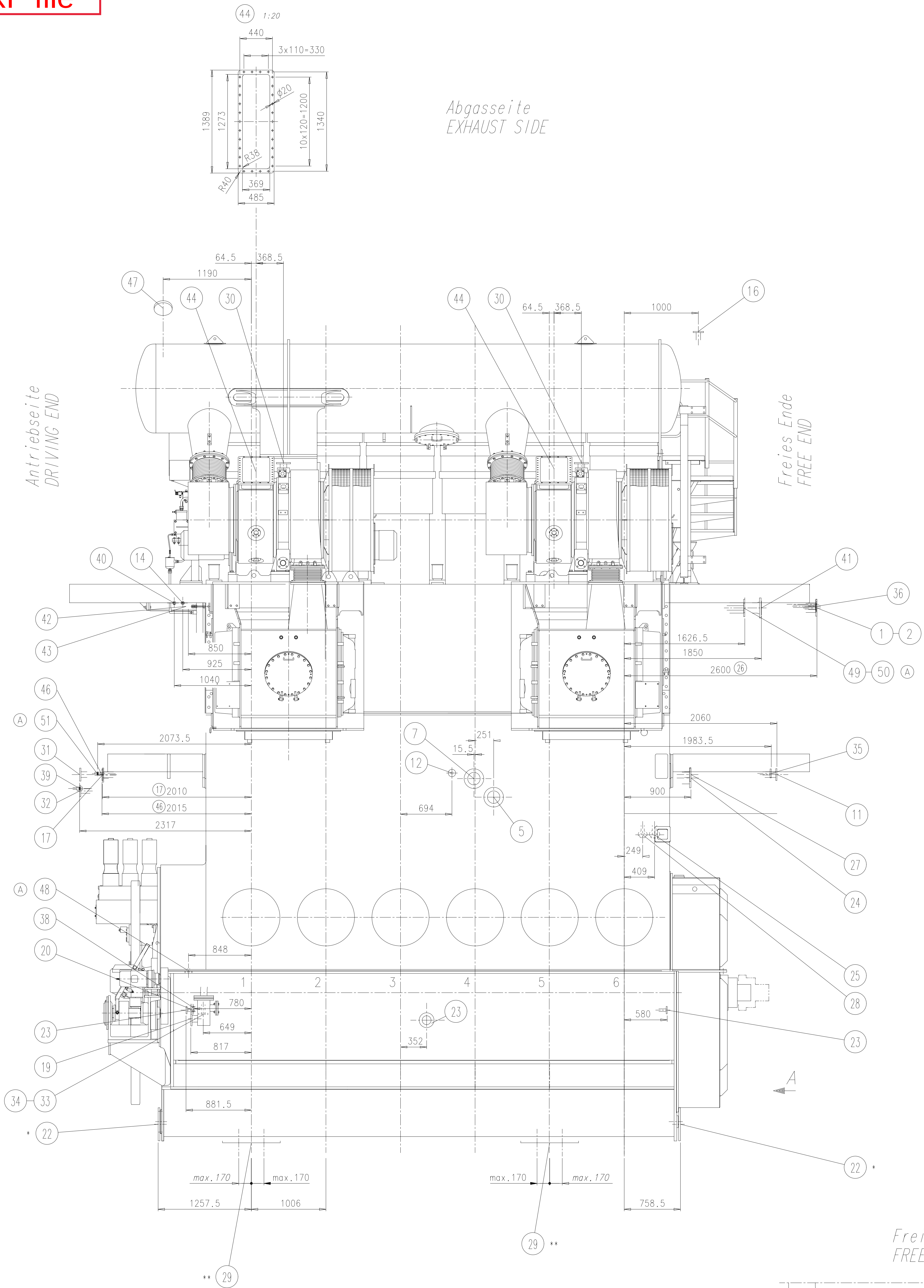
TURBOCHARGER: A180

Werkst. Free name Drawn	B-Code XXXXX Standard ISO				Man Drawn H		
Proj. Number	18.04.2012	Proj. Number	16.05.2012	Proj. Number	17.01.2020	Proj. Number	13.10.2020
WIN GD Wintorur Gas & Diesel		Product 6RT-flex58T-D v2 6RT-flex58T-E		PIPE CONNECTION PLAN			
Units	mm	kg	NX	Basic Material	Net Weight		0,001
Made	08.07.2011	Mve. Velsch		Scale	1:1	Size	A0
Design Group	21.10.2011	ast044 Stephan		Page	2/2	Material	PAAD054179
Design Group	21.10.2011	bna009 Heag		8020	Drawing	DAAD018901	Rev. D

					Leitungs - Anschlüsse PIPE - CONNECTIONS				
					Ko.Gr. GROUP	Freies Ende FREE END	Antriebsseite DRIVING END	Freies Ende oder Antriebsseite FREE OR DRIVING END	
1		Kuehlwasserleitung Zylindereinsatz Eintritt COOLING WATER PIPE CYLINDER LINER INLET	DN125 PN6	8305	X				
2		Zylinderkuehlwasserleitung Austritt CYLINDER COOLING WATER PIPE OUTLET	DN125 PN6	8310	X				
3									
4									
5		SLK Leitung Kuehlwasser Eintritt SAC PIPE COOLING WATER INLET	DN150 PN6	8335					
6									
7		SLK Leitung Kuehlwasser Austritt und Entluftung SAC PIPE COOLING WATER OUTLET AND AIR VENT	DN150 PN6	8335					
8									
9									
10									
11		Sammelleitung oeliges Wasser Receiver COLLECTOR MAIN OILY WATER RECEIVER	DN65 PN6	8352	X				
12		Kuehlwasser Entleerungsleitung COOLING WATER DRAIN PIPE	DN25 PN6	8313					
13									
14		Wasser-/Luftltg. Reinigungsanlage (Wasseranschluss) WATER/AIR PIPE CLEANING PLANT (WATER CONNECTION)	DN20	8338					
15									
16		Zylinderkuehlwasserleitung Entluftung CYLINDER COOLING WATER PIPE VENTING	DN50 PN6	8310					
17		Sammelleitung Kondenswasser SLK Entluftung Austritt COLLEC. MAIN CONDENSATE WATER SAC VENTING OUTLET	DN80 PN6	8357		X			
18									
19		Sammelleitung Kondenswasser SLK Kondenswasser Austritt COLLEC. MAIN CONDENSATE WATER SAC CONDENSATE WATER OUTLET	DN80 PN6	8357		X			
20		Sammelleitung Kondenswasser SLK Waschwasser Austritt COLLEC. MAIN CONDENSATE WATER SAC WASHING WATER OUTLET	DN50 PN6	8357		X			
21									
22		Grundplatte Oelablauf (Horizontal) BEDPLATE OIL DRAIN (HORIZONTAL)	DN300 PN10	1110	X	X			
23		Sammelleitung Leckoeel Grundplatte COLLECTOR MAIN LEAKAGE OIL BEDPLATE	DN25 PN6	8463			X		
24		Ölleitung Eintritt OIL PIPE INLET	DN150 PN6	8406	X				

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Gasaustritt-Stellung GAS OUTLET POSITION	x	y
15°	2691	705.3
30°	2860	698.3
45°	3005	687.2



* Optionelle Ausführung (wenn verlangt)
OPTIONAL EXECUTION (if required)

** Standard-Ausführung
STANDARD EXECUTION

Alle Flanschschlüsse am Motor sind mit Gegenflansch versehen (Blindflansch), ausgenommen der Anschluss fuer den Abgasaustritt am Blindflansch sind nach dem betreffenden Rohrdurchmesser des Werftflansches aufzubohren. THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED WITH MATING FLANGES BLIND, WITH EXCEPTION OF THE TURBOCHARGER EXHAUST GAS OUTLET, BLIND FLANGES TO BE DRILLED TO MATCH PIPE DIA SUPPLIED BY THE SHIPYARD.

Die Gewinde-Anschlüsse werden komplett geliefert
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE.

WITH EXHAUST WASTE GATE

TURBOCHARGER: 2xMET53MB

Free space						B-Code XXXXXX Standard JIS		Main Grw. H				
Part	EAD08099		15.03.2013		EAD080454		22.08.2013		EAD080475		09.10.2013	
	Number		Drawn date		Number		Drawn date		Number		Drawn date	
				Product GRT-flexSBT-E				PIPE CONNECTION PLAN				
								Rohranschlussplan				
Units	mm hg		NX				Basic Material		Net weight 0,001			
Units	[04.03.2012] mmax30		Mader		Scale 1:25		Size A0		Page 1/2		PAD081404	
Dwg.	12.03.2013 awu004 Worms		Design Group		8020		Material P		1/2		Rev. B	
Appr.	12.03.2013 bha009 Haag				DAAD026861		Drawing G					

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
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R																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

				Ko.Gr. GROUP	Leitungs - PIPE - CONNECTIONS		Anschlüsse	
					Freies Ende FREE END	Antriebsseite DRIVING END	Freies Ende Antriebsseite FREE END DRIVING END	
①		Kuehlwasserleitung Zylindereinsatz Eintritt COOLING WATER PIPE CYLINDER LINER INLET	DN125 PN6	8305	X			
②		Zylinderkuehlwasserleitung Austritt CYLINDER COOLING WATER PIPE OUTLET	DN125 PN6	8310	X			
③								
④								
⑤		SLK Leitung Kuehlwasser Eintritt SAC PIPE COOLING WATER INLET	DN150 PN6	8335				
⑥								
⑦		SLK Leitung Kuehlwasser Austritt und Entlüftung SAC PIPE COOLING WATER OUTLET AND AIR VENT	DN150 PN6	8335				
⑧								
⑨								
⑩								
⑪		Sammelleitung oeliges Wasser Receiver COLLECTOR MAIN OILY WATER RECEIVER	DN65 PN6	8352	X			
⑫		Kuehlwasser Entleerungsleitung COOLING WATER DRAIN PIPE	DN25 PN6	8313				
⑬								
⑭		Wasser-/Luftltg. Reinigungsanlage (Wasseranschluss) WATER/AIR PIPE CLEANING PLANT (WATER CONNECTION)	DN20	8338				
⑮								
⑯		Zylinderkuehlwasserleitung Entlüftung CYLINDER COOLING WATER PIPE VENTING	DN50 PN6	8310				
⑰		Sammelleitung Kondenswasser SLK Entlüftung Austritt COLLEC. MAIN CONDENSATE WATER SAC VENTING OUTLET	DN80 PN6	8357		X		
⑱		Sammelleitung Kondenswasser SLK Kondenswasser Austritt COLLEC. MAIN CONDENSATE WATER SAC CONDENSATE WATER OUTLET	DN80 PN6	8357		X		
⑲		Sammelleitung Kondenswasser SLK Waschwasser Austritt COLLEC. MAIN CONDENSATE WATER SAC WASHING WATER OUTLET	DN50 PN6	8357		X		
⑳								
㉑								
㉒		Grundplatte Oelablauf (Horizontal) BEDPLATE OIL DRAIN (HORIZONTAL)	DN300 PN10	1110	X	X		
㉓		Sammelleitung Leckoel Grundplatte COLLECTOR MAIN LEAKAGE OIL BEDPLATE	DN25 PN6	8463			X	
㉔		Oelleitung Eintritt OIL PIPE INLET	DN150 PN6	8406	X			

					Leitungs - Anschlüsse PIPE - CONNECTIONS			
					Ko.Gr. GROUP	Freies Ende FREE END	Antriebsseite DRIVING END	Freies Ende Antriebsseite FREE END
25		Sammelltg. Schmutzoel Kolbenu.seite COLLEC. MAIN DIRTY OIL PIST.U.SIDE	DN50 PN6	8487				
26		Zylinderschmierpumpen Anordnung CYLINDER LUBRICATING PUMPS ARRANG.	DN32 PN6	8475	X			
27		Oelleitung Kreuzkopf OIL PIPE CROSSHEAD	DN65 PN16	8455	X			
28		Sammelleitung Leckoel Stopfbuechse COLLEC. MAIN LEAKAGE OIL GLAND BOX	DN32 PN6	8488				
29		Grundplatte Oelablauf (Vertikal) BEDPLATE OIL DRAIN (VERTICAL)		1110	X	X		
30		Oelsystem TL Entlüftung OIL SYSTEM TC VENTING	DN80 PN6	8610				
31		Brennstoffltg. Einspritzpumpe Eintritt FUEL PIPE INJECTION PUMP INLET	DN65 PN16	8702		X		
32		Brennstoffltg. Einspritzpumpe Austritt FUEL PIPE INJECTION PUMP OUTLET	DN50 PN16	8704		X		
33		Leckbrennstoffleitung RAIL-UNIT FUEL LEAKAGE PIPE RAIL-UNIT	DN40 PN6	8740				
34		Leckbrennstoffltg. Einspritzventil FUEL LEAKAGE PIPE INJECTION VALVE	DN40 PN6	8741				
35		Feuerloeschleitung FIRE EXTINGUISHING PIPE	DN32 PN16	8830	X			
36		Heizleitung Eintritt HEAT PIPING INLET	DN25 PN16	8810	X			
37		Feuerloeschleitung RU Eintritt FIRE EXTINGUISHING RU INLET	DN32 PN16	8832	X			
38		Heizleitung Austritt HEAT PIPING OUTLET	DN15	8810				
39		Heizleitung Austritt HEAT PIPING OUTLET	DN15	8810		X		
40		Wasser-/Luftltg. Reinigungsanlage (Luftanschluss) WATER/AIR PIPE CLEANING PLANT (AIR CONNECTION)	DN20	8338				
41		Anlassluftleitung Eintritt STARTING AIR PIPE INLET	DN125 PN40	8605	X			
42		Steuerluftversorgung 30 bar: A2 CONTROL AIR SUPPLY	DN15	4605 4606		X		
43		Steuerluftversorgung 8 bar: A1 CONTROL AIR SUPPLY	DN15	4605 4606		X		
44	siehe Seite 1 SEE PAGE 1	Turbolader Gasaustritt TURBOCHARGER GAS OUTLET		6506 6509				
45	siehe Seite 1 SEE PAGE 1	Abgassammelleitung (für Motoren mit einem Turbolader) EXHAUST MANIFOLD (FOR ENGINES WITH ONE TURBOCHARGER)	DN600	8103 8108				
46		Kurbelgehäuse Entlüftung CRANKCASE VENTING	DN65 PN6	8608	X			
47		Abgas-Abblaseventil EXHAUST WASTE GATE	DN125	8135				
48		Oelablaufltg. Versorgungseinheit OIL PIPE DRAIN SUPPLY UNIT	DN40 PN6	8454				

- * Optionelle Ausfuehrung (wenn verlangt)
OPTIONAL EXECUTION (IF REQUIRED)
- ** Standard-Ausfuehrung
STANDARD EXECUTION

ⓑ

Alle Flanschschnuesse am Motor sind mit Gegenflanschen
versehen (Blindflansch), ausgenommen der Anschluss fuer den
Gasaustritt am Turbolader. Die Blindflansche sind nach dem be-
treffenden Rohrdurchmesser des Werflanschlusses aufzubohren.
THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED
WITH MATING FLANGES BLIND, WITH EXCEPTION OF THE TURBO-
CHARGER EXHAUST GAS OUTLET, BLIND FLANGES TO BE DRILLED
TO MATCH PIPE DIA SUPPLIED BY THE SHIPYARD.

Die Gewinde-Anschuesse werden komplett geliefert
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE
WITH EXHAUST WASTE GATE

TURBOCHARGER: MET66MB

Werkst. EAAD084264/27.12.2012	Produkt EAAD090409/18.03.2019	B EAAD094575/09.10.2020	B-Code XXXXX Standard ISO	Plan Dra- H
Number	Number	Number	Number	Number
Product GRT-flex58T-E		PIPE CONNECTION PLAN		
Units mm kg NX		Basic Material		
Made 14.09.2012 via001 Landerl		Scale 1:1 Size A0 Page 2/2 Material PAAD100679		
Cnd 11.12.2012 min09 Liebhart		Design Group 8020 Drawing 0 DAAD031364		
Asst 13.12.2012 bna009 Haag		Rev. B		
SURFACE PROTECTION SEE GROUP 0344 TOLERANCING PRINCIPLE ISO8015				

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ISO

PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
6 bar	25	100	14	75	4	M10	11
	32	120	16	90	4	M12	14
	40	130	16	100	4	M12	14
	50	140	16	110	4	M12	14
	65	160	16	130	4	M12	14
	80	190	18	150	4	M16	18
	100	210	18	170	4	M16	18
	125	240	20	200	8	M16	18
	150	265	20	225	8	M16	18
	200	320	22	280	8	M16	18
	250	375	24	335	12	M16	18
	300	440	24	395	12	M20	22
	350	490	26	445	12	M20	22
	400	540	28	495	16	M20	22
	450	595	30	550	16	M20	22
	500	645	30	600	20	M20	22
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
10 bar	25	115	16	85	4	M12	14
	32	140	18	100	4	M16	18
	40	150	18	110	4	M16	18
	50	165	19	125	4	M16	18
	65	185	20	145	8	M16	18
	80	200	20	160	8	M16	18
	100	220	22	180	8	M16	18
	125	250	22	210	8	M16	18
	150	285	24	240	8	M20	22
	200	340	24	295	8	M20	22
	250	395	26	350	12	M20	22
	300	445	26	400	12	M20	22
	350	505	28	460	16	M20	22
	400	565	32	515	16	M24	26
	450	615	38	565	20	M24	26
	500	670	38	620	20	M24	26

PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
16 bar	25	115	16	85	4	M12	14
	32	140	18	100	4	M16	18
	40	150	18	110	4	M16	18
	50	165	19	125	4	M16	18
	65	185	20	145	8	M16	18
	80	200	20	160	8	M16	18
	100	220	22	180	8	M16	18
	125	250	22	210	8	M16	18
	150	285	24	240	8	M20	22
	200	340	26	295	12	M20	22
	250	405	32	355	12	M24	26
	300	460	32	410	12	M24	26
	350	520	35	470	16	M24	26
	400	580	38	525	16	M27	30
	450	640	42	585	20	M27	30
	500	715	46	650	20	M30	33
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
40 bar	25	115	16	85	4	M12	14
	32	140	18	100	4	M16	18
	40	150	18	110	4	M16	18
	50	165	20	125	4	M16	18
	65	185	22	145	8	M16	18
	80	200	24	160	8	M16	18
	100	235	26	190	8	M20	22
	125	270	28	220	8	M24	26
	150	300	30	250	8	M24	26
	200	375	36	320	12	M27	30
	250	450	44	385	12	M30	33
	300	515	48	450	16	M30	33
	350	580	54	510	16	M33	36
	400	660	60	585	16	M36	39

JIS																
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				
5 bar	25	95	10	75	4	M10	12	16 bar	25	125	14	90	4	M16	19	
	32	115	12	90	4	M12	15		32	135	16	100	4	M16	19	
	40	120	12	95	4	M12	15		40	140	16	105	4	M16	19	
	50	130	14	105	4	M12	15		50	155	16	120	8	M16	19	
	65	155	14	130	4	M12	15		65	175	18	140	8	M16	19	
	80	180	14	145	4	M16	19		80	200	20	160	8	M20	23	
	100	200	16	165	8	M16	19		100	225	22	185	8	M20	23	
	125	235	16	200	8	M16	19		125	270	22	225	8	M22	25	
	150	265	18	230	8	M16	19		150	305	24	260	12	M22	25	
	200	320	20	280	8	M20	23		200	350	26	305	12	M22	25	
	250	385	22	345	12	M20	23		250	430	28	380	12	M24	27	
	300	430	22	390	12	M20	23		300	480	30	430	16	M24	27	
	350	480	24	435	12	M22	25		350	540	34	480	16	M30	33	
	400	540	24	495	16	M22	25		400	605	38	540	16	M30	33	
	450	605	24	555	16	M22	25		450	675	40	605	20	M30	33	
	500	655	24	605	20	M22	25		500	730	42	660	20	M30	33	
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				
10 bar	25	125	14	90	4	M16	19	30 bar	25	130	20	95	4	M16	19	
	32	135	16	100	4	M16	19		32	140	22	105	4	M16	19	
	40	140	16	105	4	M16	19		40	160	22	120	4	M20	23	
	50	155	16	120	4	M16	19		50	165	22	130	8	M16	19	
	65	175	18	140	4	M16	19		65	200	26	160	8	M20	23	
	80	185	18	150	8	M16	19		80	210	28	170	8	M20	23	
	100	210	18	175	8	M16	19		100	240	32	195	8	M22	25	
	125	250	20	210	8	M20	23		125	275	36	230	8	M22	25	
	150	280	22	240	8	M20	23		150	325	38	275	12	M24	27	
	200	330	22	290	12	M20	23		200	370	42	320	12	M24	27	
	250	400	24	355	12	M22	25		250	450	48	390	12	M30	33	
	300	445	24	400	16	M22	25		300	515	52	450	16	M30	33	
	350	490	26	445	16	M22	25		350	560	54	495	16	M30	33	
	400	560	28	510	16	M24	27		400	630	60	560	16	M36	39	
	450	620	30	565	20	M24	27									
	500	675	30	620	20	M24	27									

Substitute for:										PC	Q-Code	X	X	X	X	X
Modif	A	EAAD084180	04.10.2012													
		Number	Drawn Date		Number	Drawn Date		Number	Drawn Date		Number	Drawn Date				
		Product W-2S				Flange Dimensions										
Made	19.09.2007	N. Brand				Main Drw.	Page 1 / 1	Material ID 107.390.729.500								
Chkd	27.09.2007	M. Frei				Design Group	Drawing ID 107.390.729	Rev A								
Appd	27.09.2007	B. Haag				8020										

WinGD-6RT-flex58T-E _Pipe Connection Plan

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2018-02-26	DRAWING SET	First web upload
2019-05-15	DAAD054664 DAAD031364	Revised Pipe connection plans for Turbocharger types 1xA170-L/A270-L_ISO and 1xMET 66MB_ISO have been updated.
2020-09-01	DAAD018901	Revised Pipe connection plan for Turbocharger type 1xA180 has been updated.
2021-03-17	DAAD027992 DAAD018901 DAAD054664 DAAD062783 DAAD026861 DAAD031364	Revised Pipe Connection Plans for Turbocharger Type 1xA175_JIS, 1xA180, 1xA170/270_ISO, 1xA175/275_ISO, 2xMET 53MB & 1xMET 66MB have been updated.

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