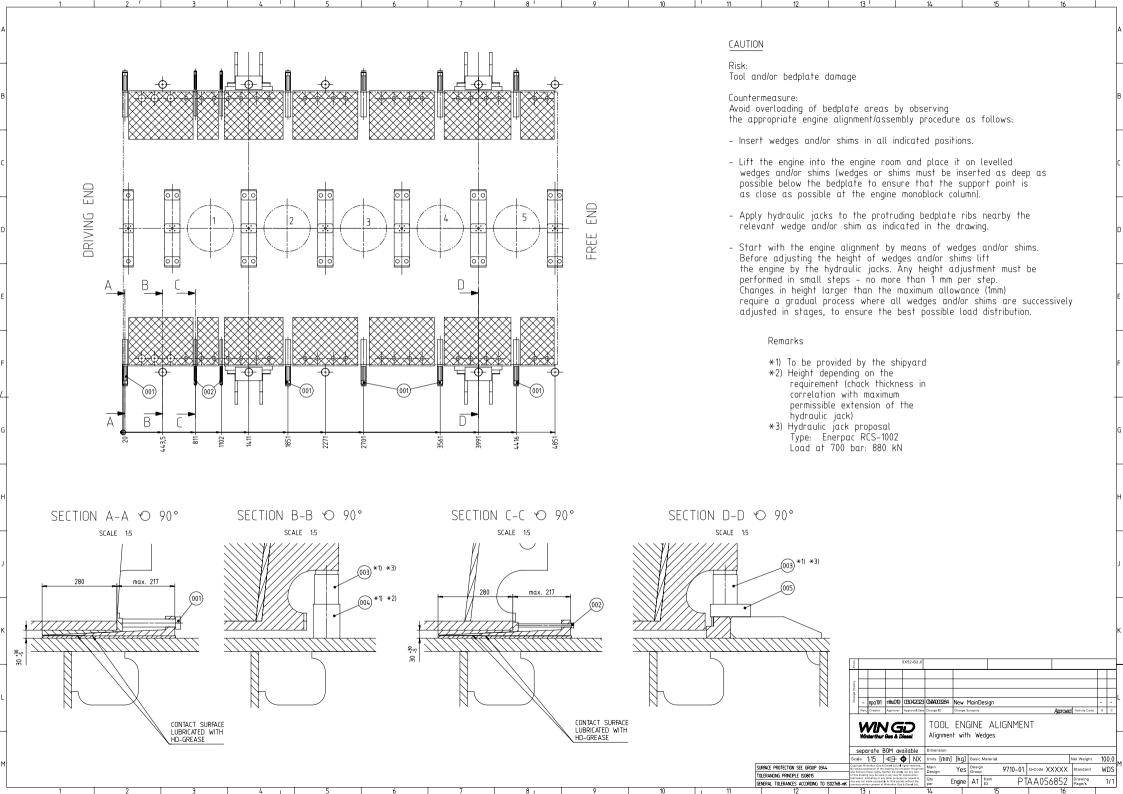
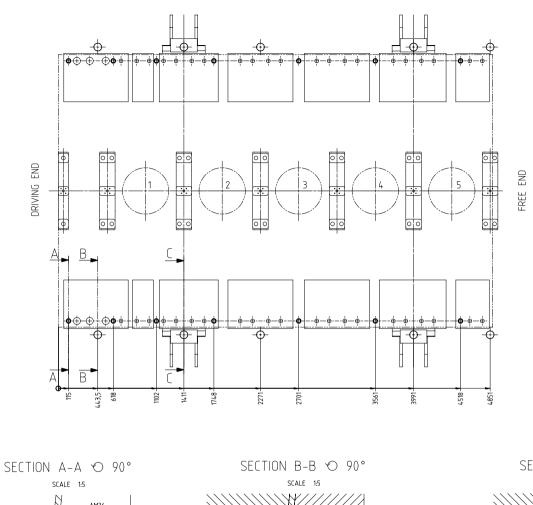
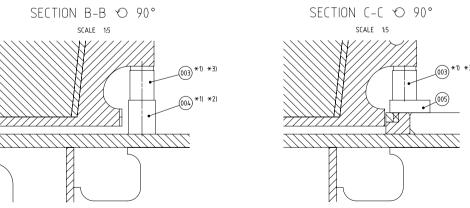
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SEQ NO	QTY	Item ID		Item Name				Dimension	Standard-ID	Basic Material		V	Net Veight
001	10	107.24	5.895.200	WEDGE									8.51
002	4	107.42	4.346.200	WEDGE			N	IARROW TYPE		W-FU-235-JR			3.8
003	10	PAAD3	18478	HYDRAULIC .	JACK								
004	6	PAAD3	18480	SUPPORT BL	OCK								
005	4	PAAD3		SUPPORT PL	ATE								
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SEQ NO	QTY	Item ID		Item Name				Dimension	Standard-ID		Basic Material		١	Net Veight
001	14	PAADO	05430	JACKING SC	REW						W-FU-235-N-T			2.3
002	14	PTAA0	31559	SPONGE RUI	BBER RING								(0.115
003	10	PAAD3	18478	HYDRAULIC	JACK									
004	6	PAAD3	18480	SUPPORT BL	-OCK									
005	4	PAAD3	18479	SUPPORT PL	.ATE									
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Risk

Tool and/or bedplate damage

Countermeasure:

Avoid overloading of jacking screws and/or bedplate areas by observing the appropriate engine alignment/ assembly procedure as follows:

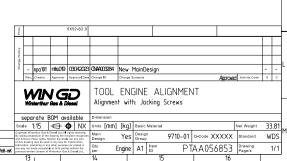
- Lift the engine into the engine room and place it on levelled , temporary blocks, underneath the bedplate beside the jacking screws.
- Screw in all jacking screws until touching the foundation top plate (the full number of jacking screws must be used)
- Apply hydraulic jacks to the protruding bedplate ribs nearby the jacking screws as indicated in the drawing.
- Remove the temporary blocks by slightly lifting the engine with the hydraulic jacks.
- Start with the engine alignment by means of jacking screws. Before turning a jacking screw, reduce its load by use of the hydraulic jacks. Any height adjustment must be performed in small steps no more than 1 mm per step (equals to 1/2 screw turn, based on 2 mm thread pitch). Changes in height larger than the maximum allowance (1 mm) require a gradual process where all jacking screws are successively adjusted in stages, to ensure the best possible load distribution.

Remarks

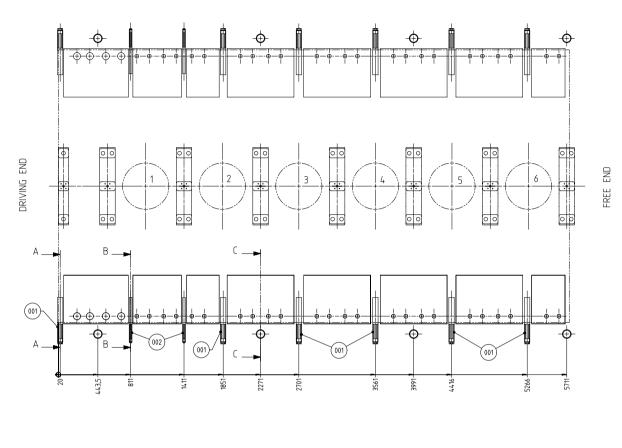
SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

- *1) To be provided by the shipyard
- *2) Height depending on the requirement (chock thickness in correlation with maximum permissible extension of the hydraulic jack)
- *3) Hýdraulic jack proposal Type: Enerpac RCS-1002 Load at 700 bar: 880 kN



NO 004	QTY	v I I	Item ID		Item Name					Standard-ID	Doois	Material			Ne
004	Q.	Y	item ID		WEDGE				Dimension	Standard-ID	Basic	Матепаі		١	Weigh
001	12		107.245	5.895.200	WEDGE										8.51
002	4		107.424	4.346.200	WEDGE				ALA DROW TVDE		W-F	U-235-JR			3.8
					HYDRAULIC	IVCK			NARROW TYPE						
003	8		PAAD3	18478	III DINAULIO	JAON									
004	8		PAAD3	18480	SUPPORT BI	LOCK									
od.				6 X52-S	2.0		6 X52DF-S	2.0							
Prod.				6 X52-S 6 X52DF			6 X52DF-S	2.0							
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Risk:

Tool and/or bedplate damage

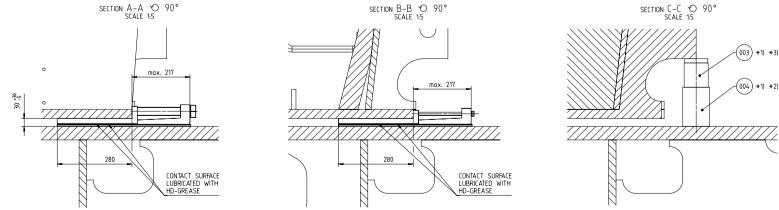
Countermeasure:

Avoid overloading of bedplate areas by observing the appropriate engine alignment/assembly procedure as follows:

- Insert wedges and/or shims in all indicated positions.
- Lift the engine into the engine room and place it on levelled wedges and/or shims (wedges or shims must be inserted as deep as possible below the bedplate to ensure that the support point is as close as possible at the engine monoblock column).
- Apply hydraulic jacks to the protruding bedplate ribs nearby the relevant wedge and/or shim as indicated in the drawing.
- Start with the engine alignment by means of wedges and/or shims. Before adjusting the height of wedges and/or shims lift the engine by the hydraulic jacks. Any height adjustment must be performed in small steps – no more than 1 mm per step. Changes in height larger than the maximum allowance (1mm) require a gradual process where all wedges and/or shims are successively adjusted in stages, to ensure the best possible load distribution.

Remarks

- *1) To be provided by the shipyard
- *2) Height depending on the requirement (chock thickness in correlation with maximum permissible extension of the hydraulic jack)
- *3) Hydraulic jack proposal Type: Enerpac RCS-1002 Load at 700 bar: 880 kN



dki021 mhu019 02.05.2022 CNAA001768 new Design TOOL ENGINE ALIGNMENT WINGD Winterthur Gas & Diesel Alignment with: Wedges

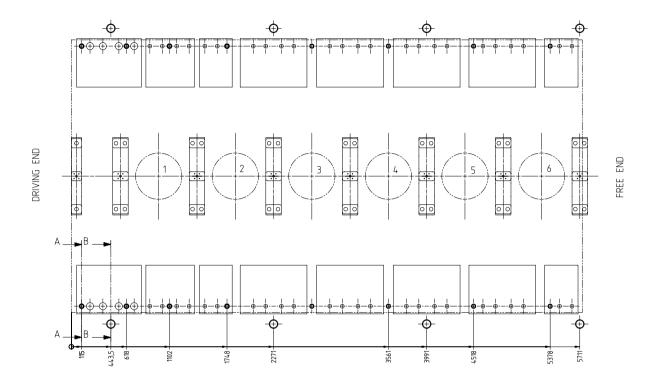
separate BOM available Dimension icale 1:3 😝 🔿 NX Units [mm] [kg] Basic Material SURFACE PROTECTION SEE GROUP 0344

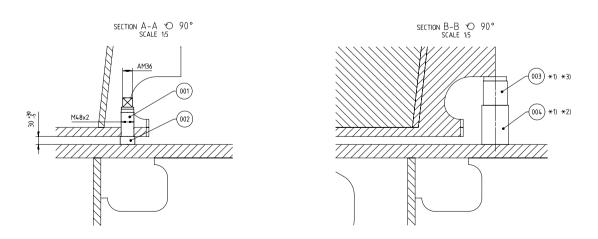
TOLERANCING PRINCIPLE ISO8015

ENERAL TOLERANCES ACCORDING TO ISO2768-m

Yes Design Group 9710-01 Q-Code XXXXX Standard WDS PTAA031714 Page/s - A1 Item

	QTY	Item ID		Item Name				Dimension	Standard-ID	Basic	Material		١	Net Weight
001	16	PAAD	005430	JACKING SC	REW					W-FL	J-235-N-T			2.3
002	12	PTAA(031559	SPONGE RU	BBER RING								(0.115
003	8	ΡΔΔΟ	318478	HYDRAULIC	JACK									
				SUPPORT BL	_OCK									
004	8	PAAD	318480											
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	Rev.	Creator	mhu0 19 Approver	02.05.2022 Approval Date Diesel	CNAA001768 Change ID TOOL Alignment	New MI Change S	DS intro	NE ALI	GNMEN		oved	Activity Code		
Change History	Rev. (Creator Creator Bill Cterthur Ga	mhu0 19 Approver Approver Of Materia & Diesel Ltd.	O2.05.2022 Approval Date Diesel Al All rights reserved.	CNAA001768 Change ID TOOL Alignment Dimension	New MI Change S EN with:	DS intro mopsis GIN Jackin	NE ALIO	GNMEN		oved	-	E	С
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Risk:

Tool and/or bedplate damage

Countermeasure:

Avoid overloading of jacking screws and/or bedplate areas by observing the appropriate engine alignment/ assembly procedure as follows:

- Lift the engine into the engine room and place it on levelled , temporary blocks, underneath the bedplate beside the jacking screws.
- Screw in all jacking screws until touching the foundation top plate (the full number of jacking screws must be used)
- Apply hydraulic jacks to the protruding bedplate ribs nearby the jacking screws as indicated in the drawing.
- Remove the temporary blocks by slightly lifting the engine with the hydraulic jacks.
- Start with the engine alignment by means of jacking screws. Before turning a jacking screw, reduce its load by use of the hydraulic jacks. Any height adjustment must be performed in small steps no more than 1 mm per step (equals to 1/2 screw turn, based on 2 mm thread pitch). Changes in height larger than the maximum allowance (1 mm) require a gradual process where all jacking screws are successively adjusted in stages, to ensure the best possible load distribution.

Remarks

Surface protection see group 0344 Tolerancing principle iso8015

- *1) To be provided by the shipyard
- *2) Height depending on the requirement (chock thickness in correlation with maximum permissible extension of the hydraulic jack)
- *3) Hýdraulic jack proposal Type: Enerpac RCS-1002 Load at 700 bar: 880 kN

Prod.				6X52-S2.0 52DF-S1.0		6X5	2DF-S	2.0						
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	Win	terthur	VG ••••	Nesel	TOOL Alignme				LIGNMEN Screws	۸T				
			BOM av		Dimension									
Sca	ile	1:3	+	⊕ - NX	Units (MM] [kg]	Basic	Material				Net Weight	36	.80
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fabric	#500, FI	irketeg or as	ey other purpos ble to third parti Winterthur Gar	nor copied in	Qty	Engine	Α1	Item ID	PT	AA030	604	Drawing Page/s		1/1

Net Weight	Basic Material	Standard-I D	Dimension	Item ID	QTY	SEQ NO
8.51				107.245.895.200	14	001
3.8	W-FU-235-JR		NARROW TYPE	107.424.346.200	4	002
			JACK	PAAD318478	8	003
			BLOCK	PAAD318480	8	004
	<u> </u>		BLOCK	PAAD318480	8	004

Prod.			7 X52-S2 7 X52DF	.0 -A-S1.0	7 7	X52DF-M-S1.0 X52DF-S1.0		7 X52DF-\$2.0				
History												
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	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis			Approved	Activity Code	Е	С

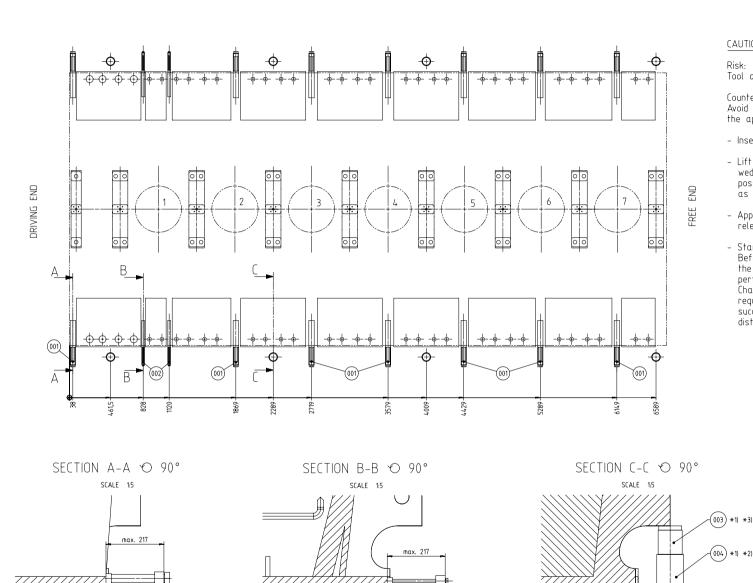


TOOL ENGINE ALIGNMENT

Alignment with: Wedges

Bill Of Material
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construction, fabrication, marketing or any other purpose nor copied in any way nor made accessible to third parties without the previous written consent of Winterthur Gas & Diesel Ltd.

	Dimension						Aligr	nment v	vith: Wedges
t	Units	[m] [kg]	Basic Mat	erial				Net Weight	134
r	Main Design	Yes	Design G	oup	9710-01	Q-Code	X X M	Standard	WDS
r t	Qty per	Engine	A4	Item ID	PTA	AAO	93042	BOM Page/s	01/01



280

CONTACT SURFACE LUBRICATED WITH

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CONTACT SUPPACE

LUBRICATED WITH

CAUTION

Risk:

Tool and/or bedplate damage

Countermeasure:

SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

Avoid overloading of bedplate areas by observing the appropriate engine alignment/assembly procedure as follows:

- Insert wedges and/or shims in all indicated positions.
- Lift the engine into the engine room and place it on levelled wedges and/or shims (wedges or shims must be inserted as deep as possible below the bedplate to ensure that the support point is as close as possible at the engine monoblock column).
- Apply hydraulic jacks to the protruding bedplate ribs nearby the relevant wedge and/or shim as indicated in the drawing.
- Start with the engine alignment by means of wedges and/or shims. Before adjusting the height of wedges and/or shims lift the engine by the hydraulic jacks. Any height adjustment must be performed in small steps - no more than 1 mm per step.

 Changes in height larger than the maximum allowance (1mm) require a gradual process where all wedges and/or shims are successively adjusted in stages, to ensure the best possible load distribution.

Remarks

- *1) To be provided by the shipyard
- *2) Height depending on the requirement (chock thickness in correlation with maximum permissible extension of the hydraulic jack)
- *3) Hydraulic jack proposal Type: Enerpac RCS-1002 Load at 700 bar: 880 kN



Engine A1 Item

PTAA093042 Page/s 1/1

SEQ NO	QTY	Item ID	Item Name Dimension	Standard-I D	Basic Material	Net Weight
001	18	PAAD005430	JACKING SCREW		W-FU-235-N-T	2.3
002	12	PTAA031559	SPONGE RUBBER RING			0.115
003	8	PAAD318478	HYDRAULIC JACK			
004	8	PAAD318480	SUPPORT BLOCK			

Prod.			7 X52-S2 7 X52DF-	.0 ·A-S1 .0	7 7	X52DF-M-S1.0 X52DF-S1.0		7 X52DF-S2.0				
History												
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	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis			Approved	Activity Code	Е	С

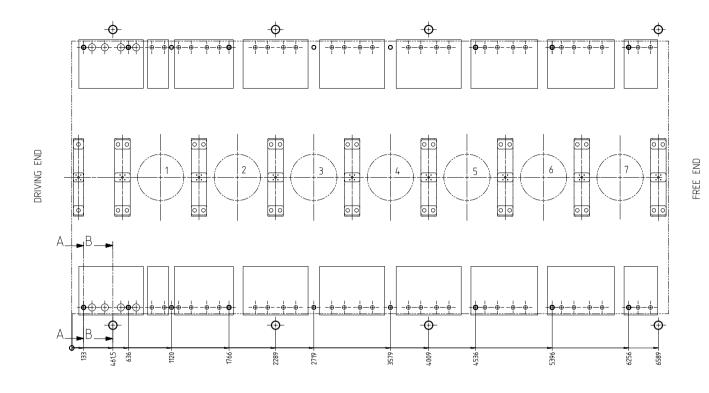


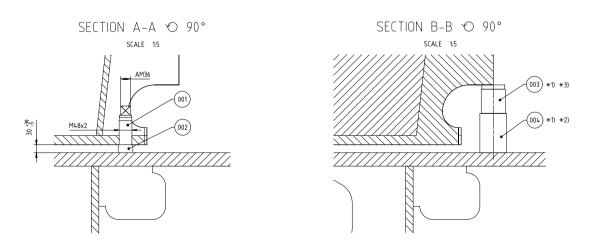
TOOL ENGINE ALIGNMENT

Alignment with: Jacking Screws

Bill Of N	l aterial
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the previous written consent of V	

r t	Qty per	Engine	A4	Item ID	PTA	BOM Page/s	01/01		
r r	Main Design	Yes	Design Gr	roup	9710-01	Q-Code	XXM	Standard	WDS
l. t	Units	[m] [kg]	Basic Mate	erial	Net Weight	43			
	Dimension					All	gnment	with: Jacking	Screws





Rick

Tool and/or bedplate damage

Countermeasure:

Avoid overloading of jacking screws and/or bedplate areas by observing the appropriate engine alignment/ assembly procedure as follows:

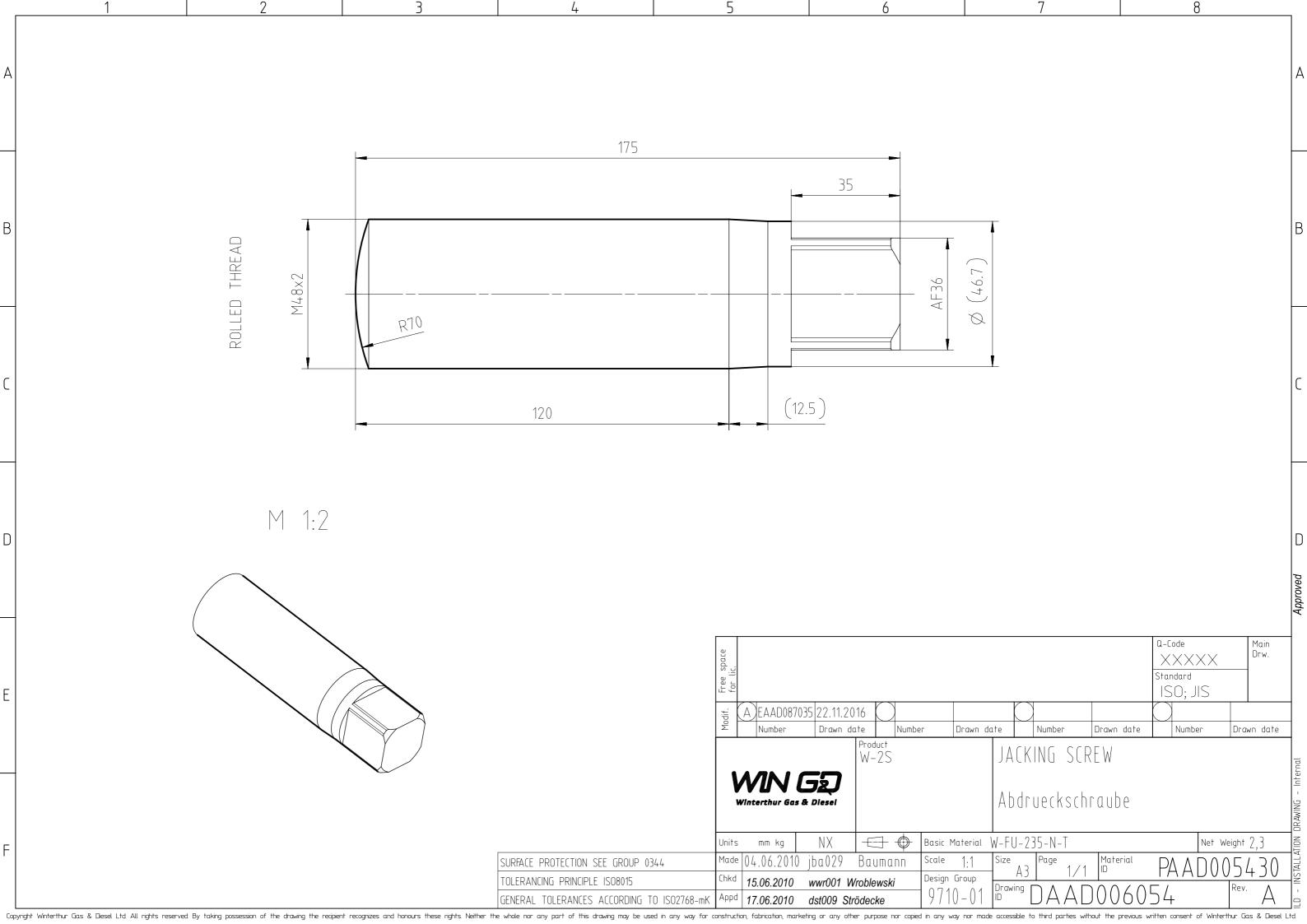
- Lift the engine into the engine room and place it on levelled , temporary blocks, underneath the bedplate beside the jacking screws.
- Screw in all jacking screws until touching the foundation top plate (the full number of jacking screws must be used)
- Apply hydraulic jacks to the protruding bedplate ribs nearby the jacking screws as indicated in the drawing.
- Remove the temporary blocks by slightly lifting the engine with the hydraulic jacks.
- Start with the engine alignment by means of jacking screws. Before turning a jacking screw, reduce its load by use of the hydraulic jacks. Any height adjustment must be performed in small steps no more than 1 mm per step (equals to 1/2 screw turn, based on 2 mm thread pitch). Changes in height larger than the maximum allowance (1 mm) require a gradual process where all jacking screws are successively adjusted in stages, to ensure the best possible load distribution.

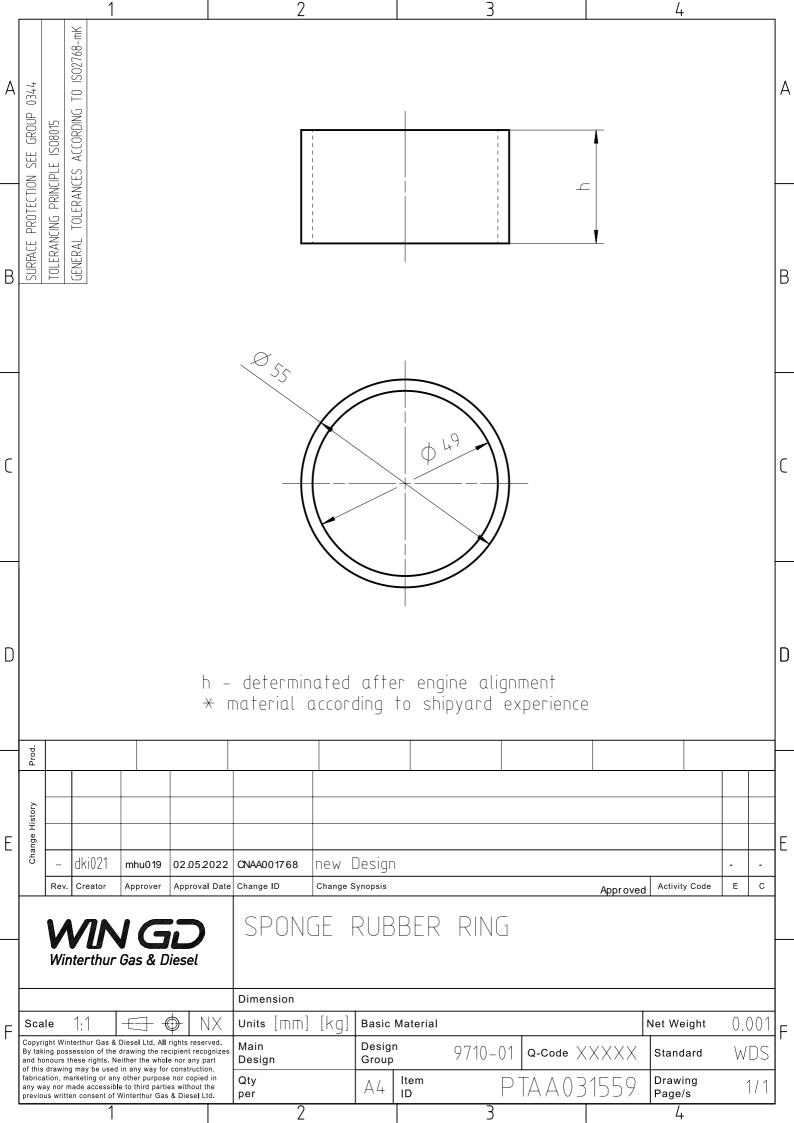
Remarks

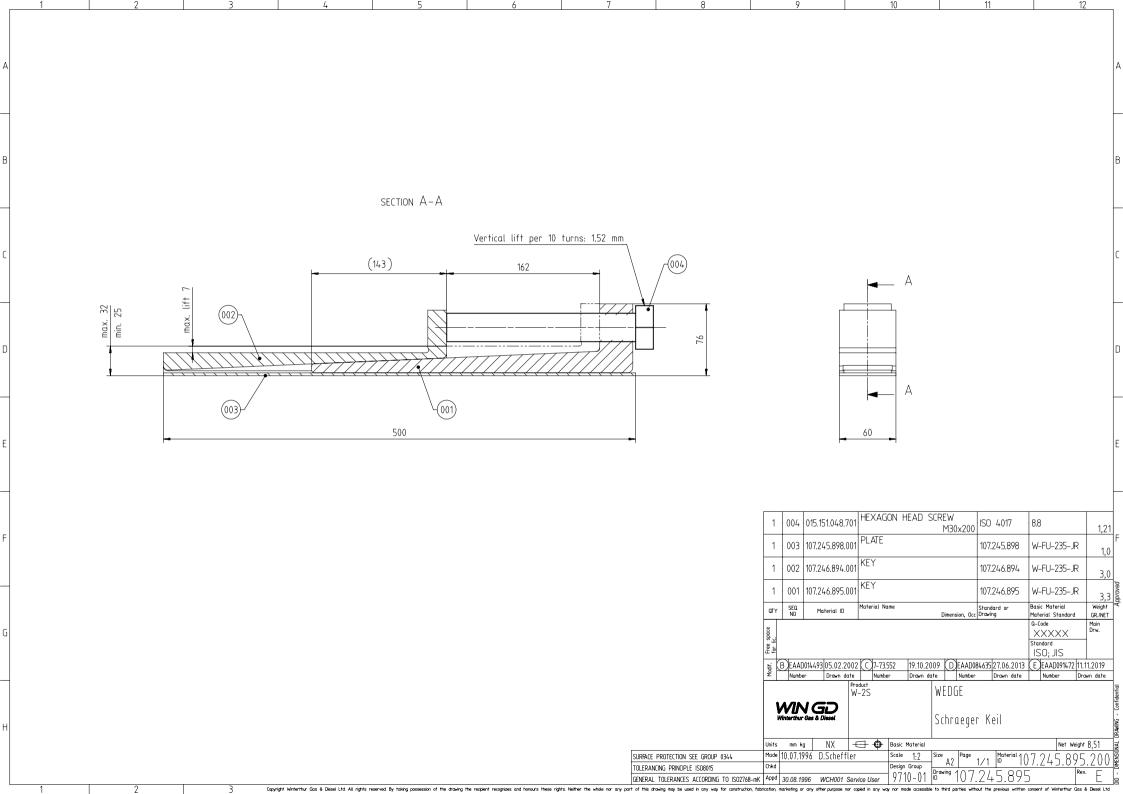
SURFACE PROTECTION SEE GROUP 0344

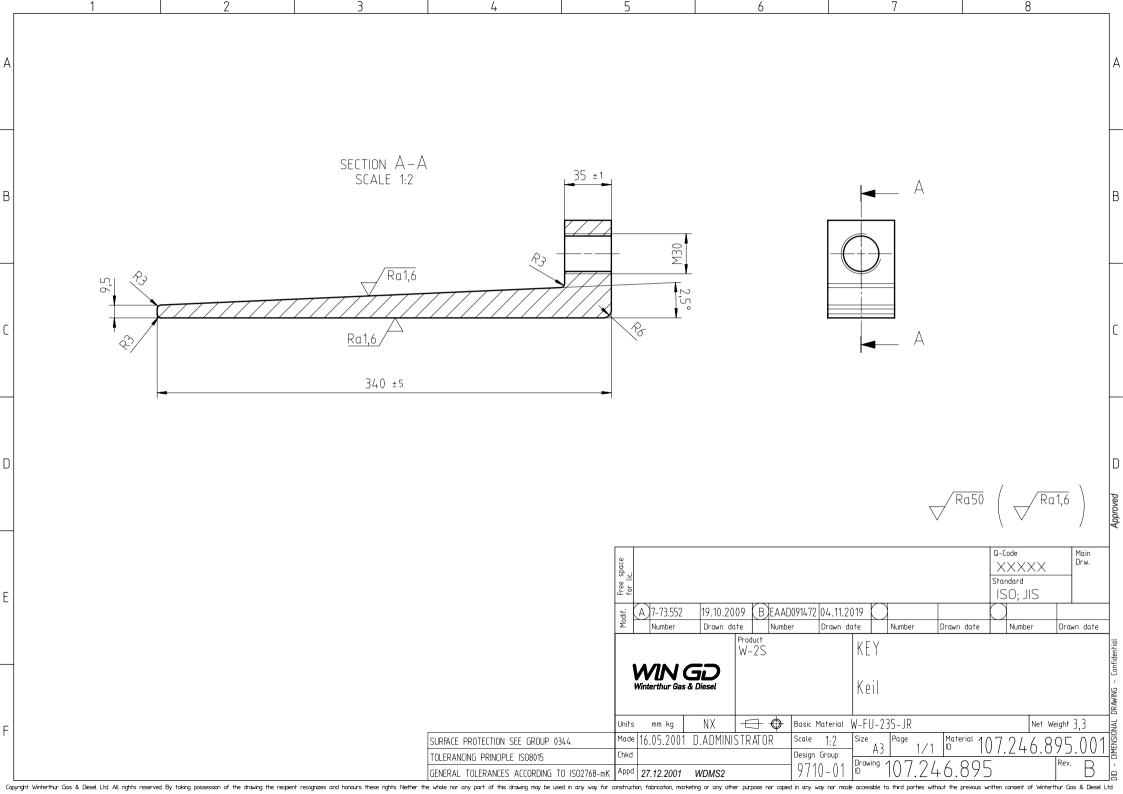
- *1) To be provided by the shipyard
- *2) Height depending on the requirement (chock thickness in correlation with maximum permissible extension of the hydraulic jack)
- *3) Hydraulic jack proposal Type: Enerpac RCS-1002 Load at 700 bar: 880 kN

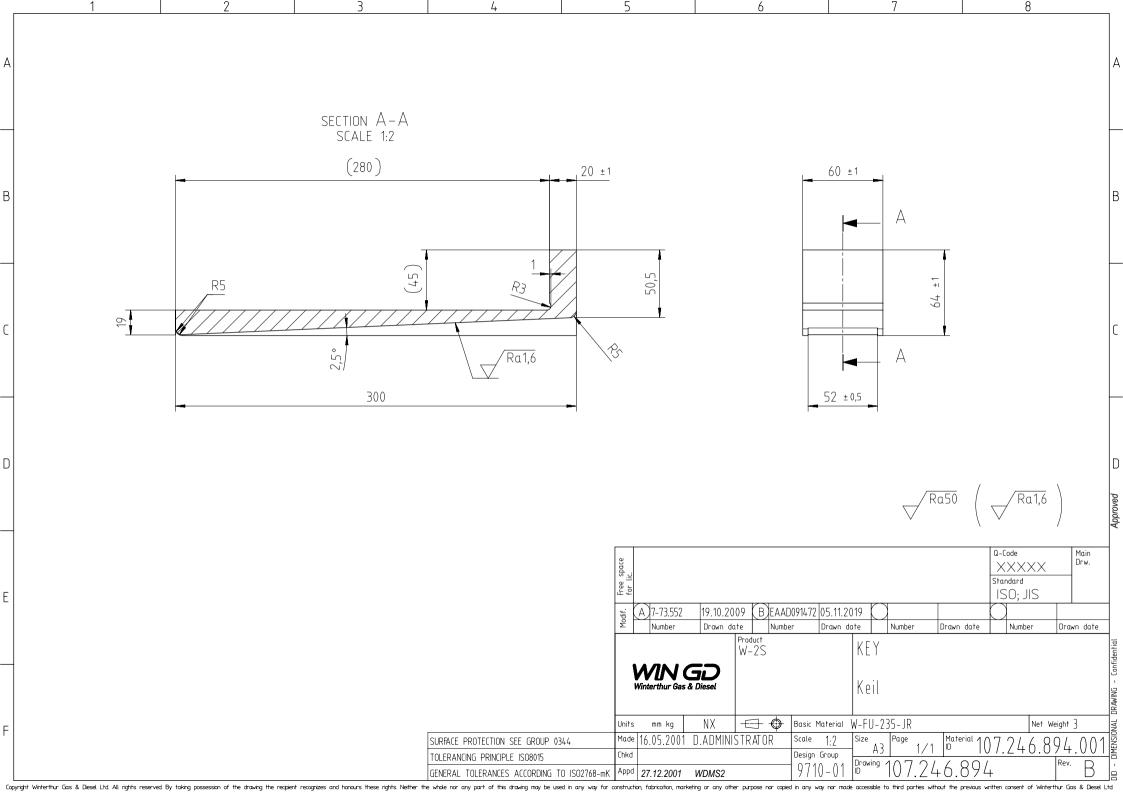
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		Wir	terthur	Gas & D	Nesel	Alignmer	nt with	h: Ja	cking							
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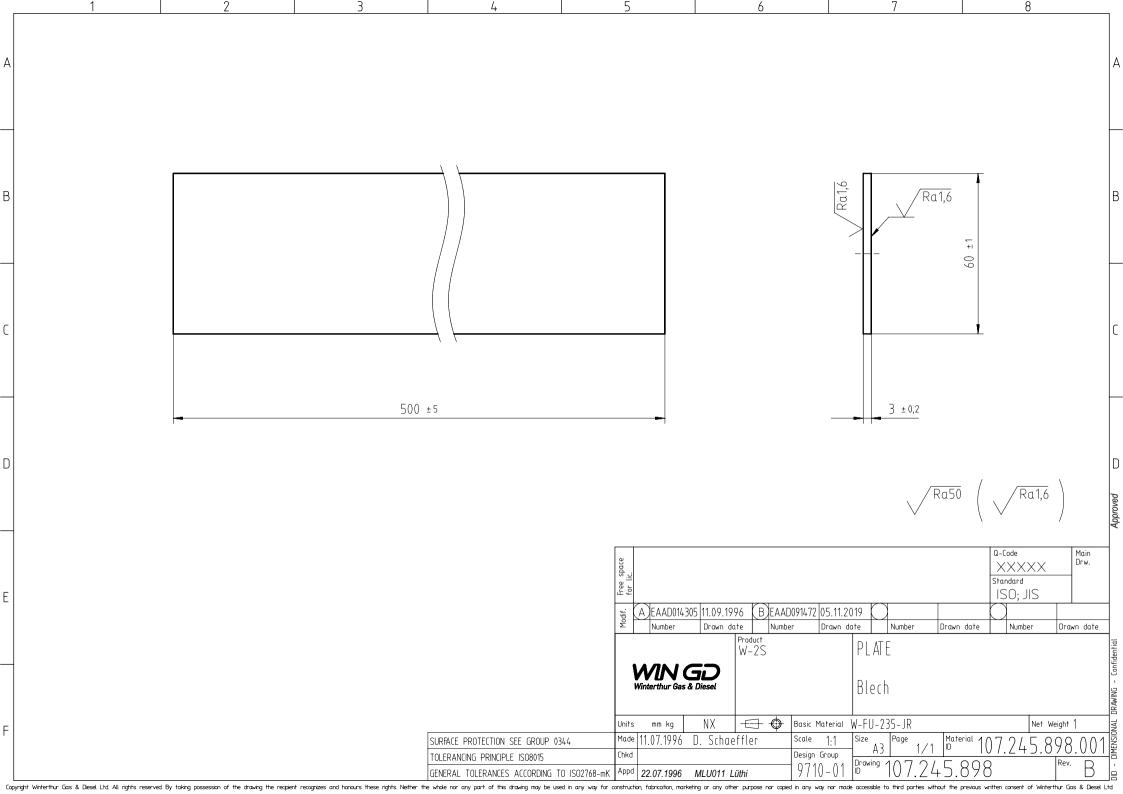


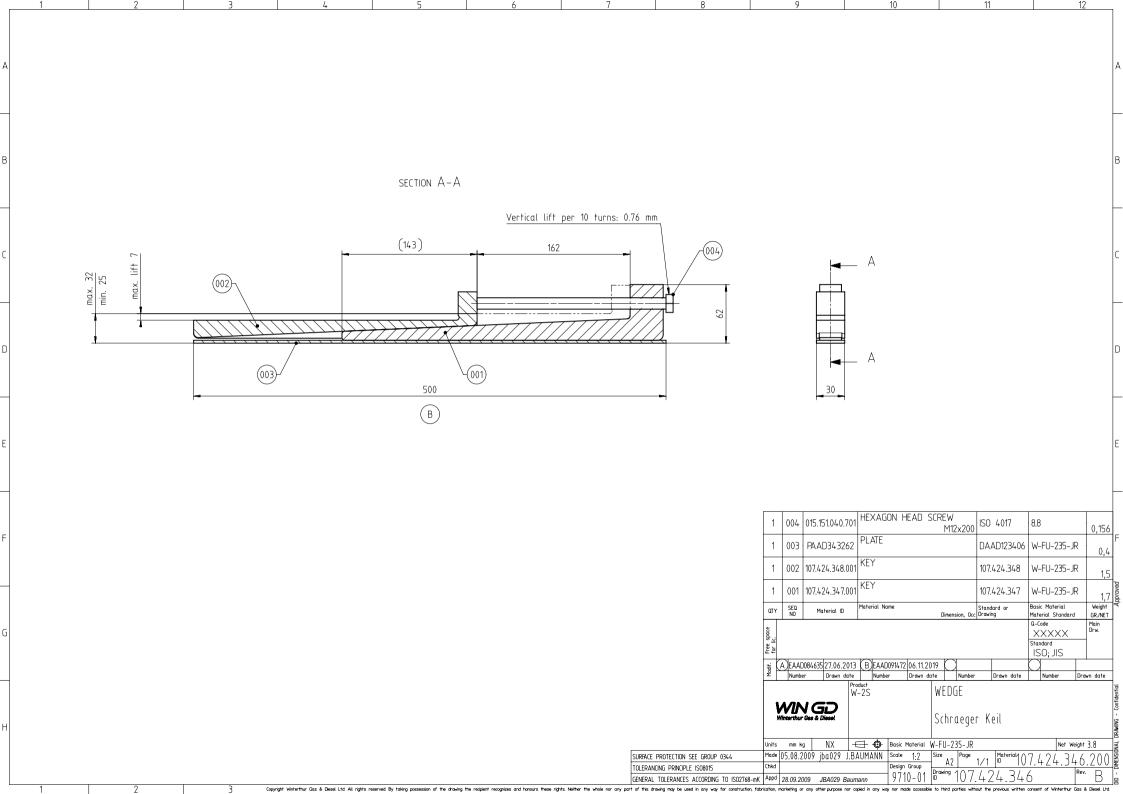


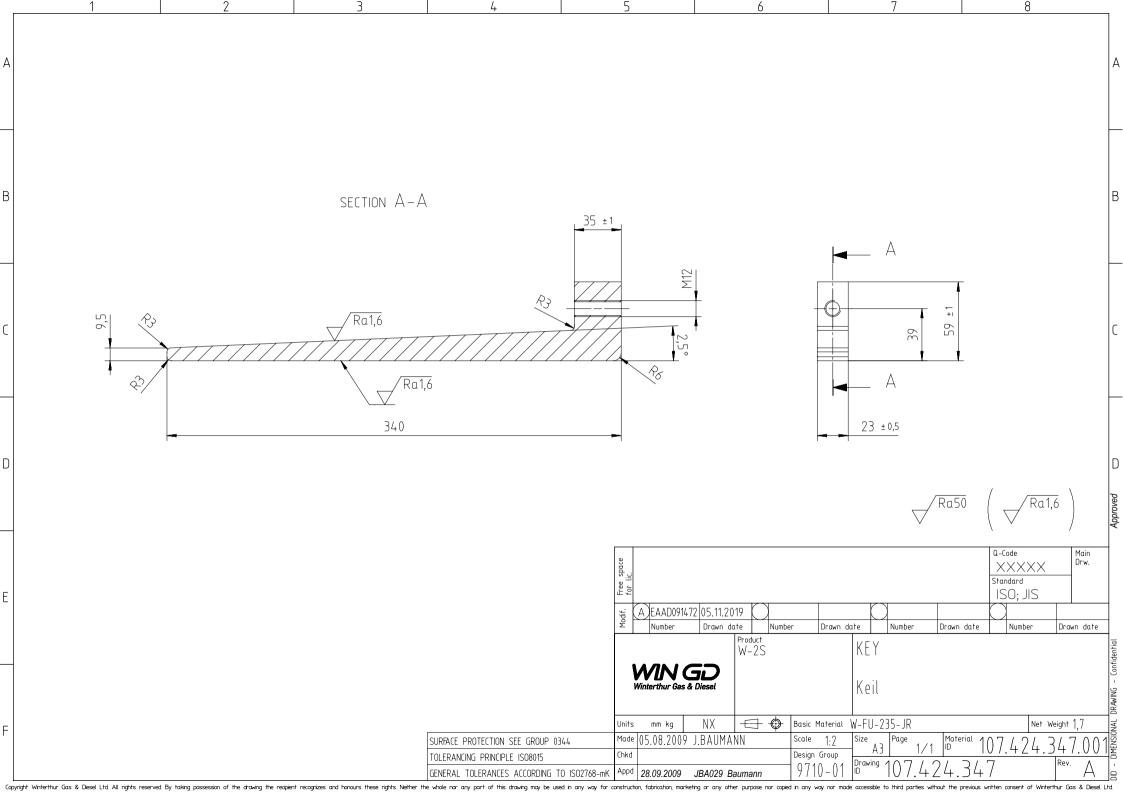


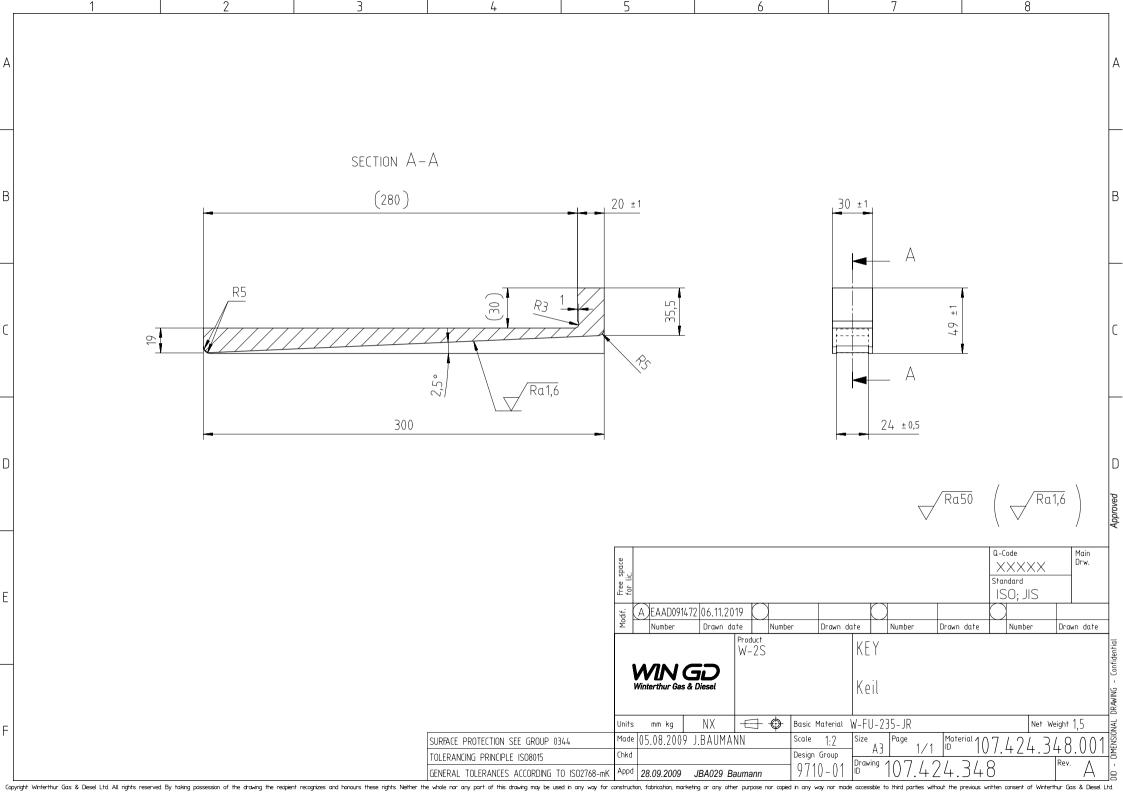


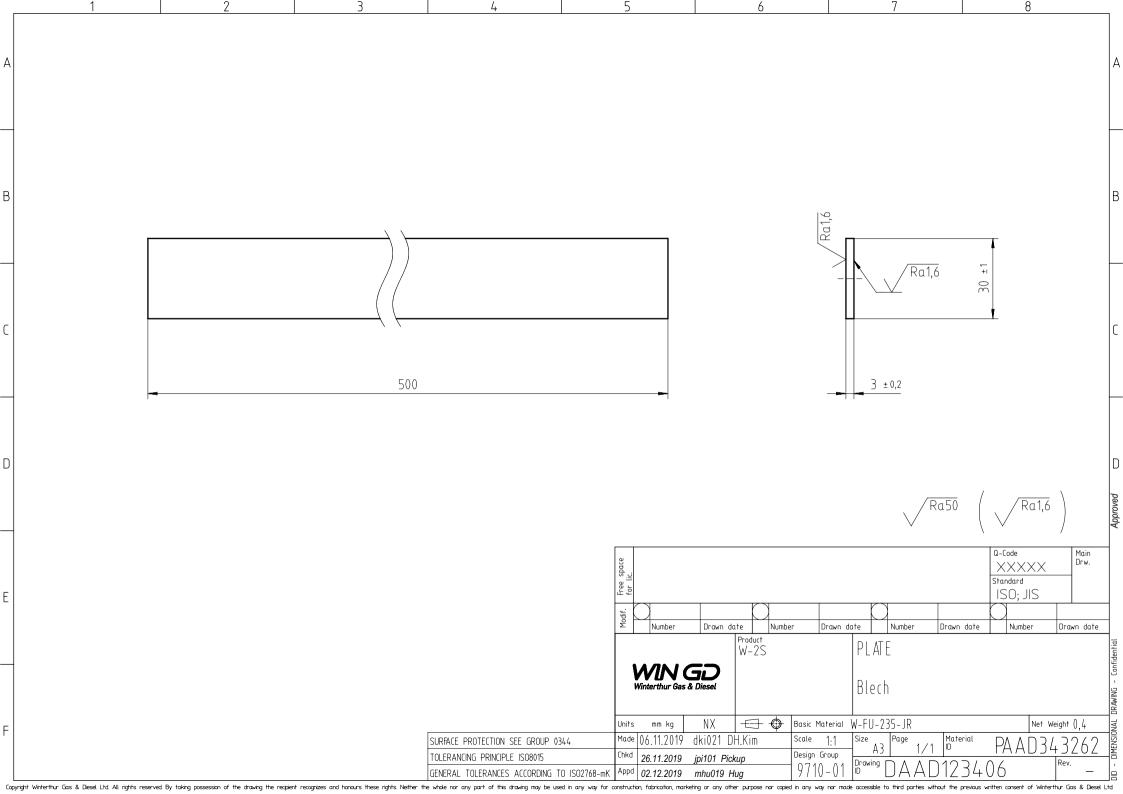














MIDS - Tool Engine Alignment (DG9710-01) WinGD X52-S2.0/DF-S1.0/DF-S2.0/DF-A -S1.0/DF-M-S1.0

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2022-05-05	DRAWING SET	First web upload
2023-04-04	PTAA056852 PTAA056853	5 cyl. execution - added
2024-05-07	PTAA092942_ PTAA093042_	7 cyl. execution - added

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