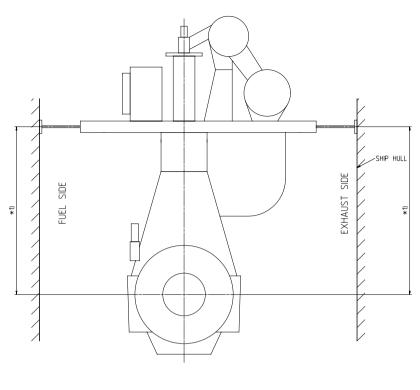
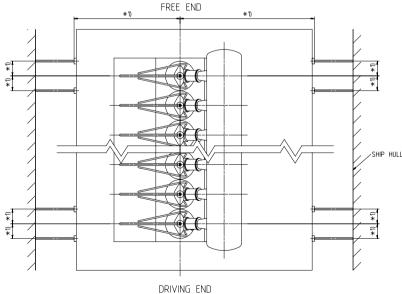


SEQ NO	QTY	ltem ID		Item Name		Dimens	ion Standard-ID	Basic Material		V	Ne Weigh
1	1	PTAA	003582	ENGINE STAY		Longitudinal installation requiremen					3590
4	1	DTAA	003591	ENGINE STAY		Longitudinai installation requiremen	113				
4	-	FIAA	003391	ENCINE ST	AVC	Lateral installation requiremen	nts				
5	1	PTAA	074114	ENGINE ST	AYS	Installation positions	s				
Prod.			5 X52-S	32.0							
Prod.			5 X52-S	52.0							
			5 X52-S	52.0							
	A	dki021		03.09.2024	CNAA006623	Drawing updated				4	
Change History Prod.		dki021 sde101	mhu019		CNAA006623 CNAA003978	Drawing updated Main Design/Drawing Introdu	ced			4 -	
	-		mhu019	03.09.2024			ced	Approved	Activity Code		
Change History	Rev.	sde101 Creator Bill GingD Ltd	mhu019 mhu019 Approver Of Materi All rights r	03.09.2024 22.06.2023 Approval Date	CNAA003978 Change ID ENGIN Lateral and Dimension	Main Design/Drawing Introdu		Approved	Activity Code Net Weight	- E	
Change History	Rev.	sde101 Creator Bill IinGD Ltd of the docue rights. Ne	mhu019 mhu019 Approver Of Materi All rights r ment the recipither the whole	03.09.2024 22.06.2023 Approval Date	CNAA003978 Change ID ENGIN Lateral and Dimension Units	Main Design/Drawing Introduction Change Synopsis NE STAYS d longitudinal installation				- E	

	QTY	Item ID		Item Name			Dimer	Standard-ID		Basic Material		\	Ne Weigh
1	1	PTAA	003591	ENGINE S	TAYS		Lateral installation requireme	ents					(
2	1	PTAA	074114	ENGINE	STAYS		Installation position						(
							installation position	15					
od.			6,7,8 X52-S:	2.0									
Prod.			6,7,8 X52-S	2.0									
	В	dki021		03.09.2024	CNAA0	06623	Drawing updated					4	3
	B	dki021 sde101	mhu019		CNAA00		Drawing updated Drawing update					4 4	
			mhu019	03.09.2024		03995		uced					3
	A -	sde101	mhu019	03.09.2024 23.06.2023	CNAA0	03995	Drawing update	uced		Approved	Activity Code	4	3
Change History Prod.	A - Rev.	sde101 sde101 Creator	mhu019 mhu019 mhu019 Approver	03.09.2024 23.06.2023 22.06.2023 Approval Date	CNAA00 CNAA00 Change ID	03995	Drawing update Main Design/Drawing Introd	uced		Approved	Activity Code	4	3 3
Change History	A - Rev.	sde101 sde101 Creator	mhu019 mhu019 mhu019 Approver	03.09.2024 23.06.2023 22.06.2023	CNAA00 CNAA00 Change ID	03995 03978 GIN	Drawing update Main Design/Drawing Introd Change Synopsis	uced		Approved	Activity Code	4	3
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Remark:

The above view represents only a geneic outline view. Engine specific outline views are shown in the "Engine Outline View" drawings, included in DG0812. Available engine stays attachment points on platform side are defined in the "Platform Outline View" drawings, included in DG7602-01/-02.

Requirements for the installation and operation of hydraulic type engine stays

- Depending on the project specific requirements and selected engine stays type, the engine stays can be installed with one of the following arrangements:
- engine stays on exhaust side
 engine stays on fuel side
- 3) engine stays on both sides
- Recommendation regarding the required number of engine stays is provided in the Marine Installation Manual (MIM).
- The finally required number of engine stays must be determined by the shipyard and depends on the transferred forces and ship structural stiffness. The transferred forces consist of the static engine stays pre-tensioning forces (as provided by the engine stays supplier) and the dynamic forces from the engine (as defined in the WinGD engine dynamic data sheet "Forces and Moments").
- The engine stays must adapt to the ship hull deformation and reduce the static reaction force acting on the engine and ship hull attachment points.
- The engine stays must increase the total stiffness of the system to avoid harmful resonance conditions. The dynamic stiffness of the engine stays (dynamic spring rate) is provided by the
- The engine stays must have a damping function to ensure that the acceptable vibrations (RMS limits) for the WinGD 2-stroke engine are maintained.
- The performance of the engine stays must be checked with vibration measurements during sea trial.
- The installation and commissioning of the engine stays must be in accordance with the supplier's
- The hydraulic type engine stays, as provided by the following suppliers, have WinGD makers' acceptance:

Green & Clean Technology Co., Ltd (Korea) Hanmi Hydraulic Machinery Co., Ltd (Korea) Nantong Navigation Machinery Group Co., Ltd (China)

 WinGD layout of the support points on the engine side meets the requirements for the engine stays
as provided from the above listed suppliers, i.e. the max. transferred forces and required support
plate sizes are covered by the design accordingly. If an engine stays type from another supplier is selected, WinGD must be consulted.

Requirements for engine stays attachment points at ship hull side (per engine stay)

Max. force acting on the ship hull	Fh _{max}	(kN)	*2)
Permissible deflection per 100 kN	Def _{max}	(mm)	0.2

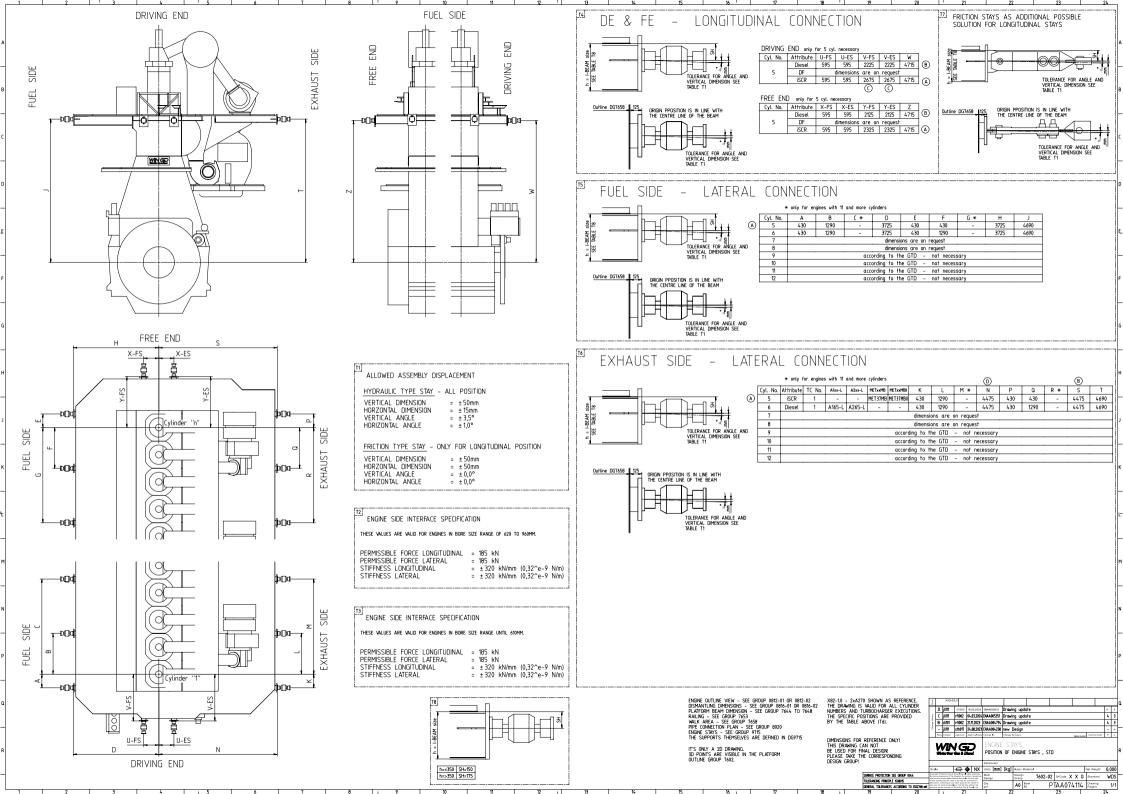
Remarks:

- *1) The engine stays positions are defined in the "Platform Outline View" drawings, included in DG7602-01/02.
- *2) Maximum force acting on the ship hull results from lateral moments of X/H type at the project specific rating plus engine stays pre-tensioning force according to stays supplier's specification.

23 Drawing updated B jsh81 yzh94 0x.02.023 04AA00477 small improvements
A rps101 sh817 24.08.2023 04AA004738 Drawing updated
- sde801 shx019 22.06.2023 04AA004798 new Design WINGD ENGINE STAYS
Lateral installation requirements 04+ 1:30 ← ♦ NX Unis [mm] [kg] 81 Net Weight 0,000
9715 O-Code X X M Standard WDS

A0 In

PTAA003591 Page 1/1



SEQ NO	QTY	Item ID	Item Name Dimension	Standard-ID	Basic Material	Net Weight
001	2	PAAD046700	ENGINE STAYS/ FRICTION TYPE			302
002	2	PAAD046701	ENGINE STAYS/ FRICTION TYPE			330
003	2	PAAD046702	ENGINE STAYS/ FRICTION TYPE			359
004	2	PAAD046703	ENGINE STAYS/ FRICTION TYPE			387
005	2	PAAD046704	ENGINE STAYS/ FRICTION TYPE			417
006	1	107.246.429	ASSEMBLY INSTRUCTIONS for friction type engine stays			

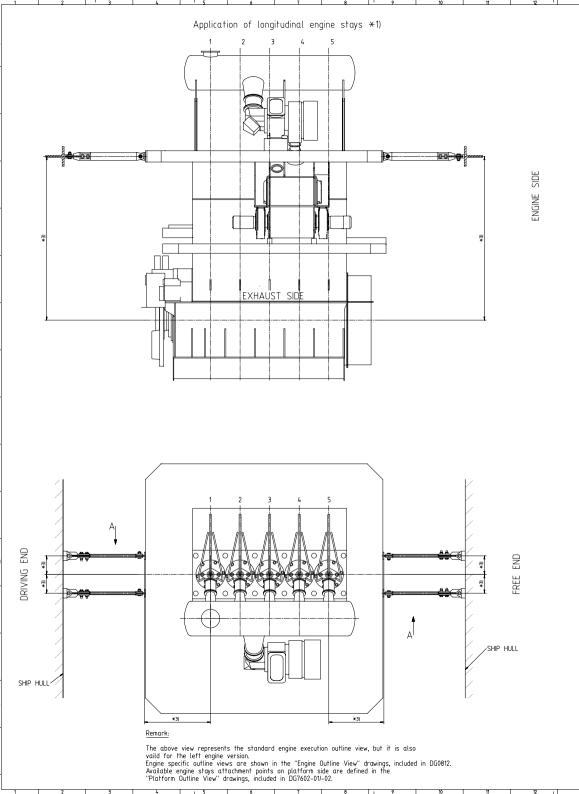
Prod.	X52-S2.0									
History	В	dki021	mhu019	03.09.2024	CNAA006623	Drawing updated			4	3
Change His	Α	npa101	sth017	24.08.2023	CNAA004238	Drawing updated			4	3
Che	•	sde101	mhu019	22.06.2023	CNAA003978	new Design			-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved	Activity Code	E	С

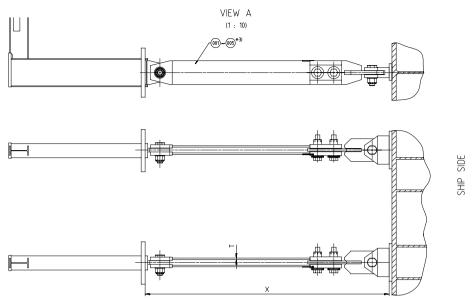


ENGINE STAYS

Longitudinal installation requirements

Bill Of Material	Dimension				Longitudi	nal insta	Illation require	ements
yright WinGD Ltd. All rights reserved. By taking session of the document the recipient recognizes and	Units [m] [kg]	Basic Ma	terial				Net Weight	3590
honours these rights. Neither the whole nor any part of this document may be used in any way for construction,	Main Design	n Design Design Group 9715 Q-Code X X M					Standard	WDS
fabrication, marketing or any other purpose nor copied in any way nor made accessible to third parties without the previous written consent of WinGD Ltd .	Otv	A4	Item ID	PT/	A003	582	BOM Page/s	01/01





Requirements for the installation and operation of friction type *1) engine stays according to WinGD design

- Depending on the project specific requirements the engine stays can be installed with one of the following arrangements:
 - 1) two engine stays on engine driving end side
- 2) two engine stays on engine free end side
- The engine stays must adapt to the ship hull deformation and reduce the static reaction force acting on the engine and ship hull attachment points.
- The engine stays must increase the total stiffnes of the system to avoid harmful resonance conditions.
- The performance of the engine stays must be checked with vibration measurements during sea trial.
- WinGD layout of the support points on the engine side meets the requirements for the friction type engine stays according to WinGD design, i.e. the max. transferred forces and required support plate sizes are covered by the design accordingly.
- The installation and commissioning of the friction type engine stays must be done according to the instructions, as provided in the "Fitting instruction for friction type engine stays".
- If an engine stays type from another supplier or an hydraulic type stay is selected, WinGD must be consulted accordingly.

Requirements for ship side attachment point

Max. force acting on ship hull	Fh _{nax}	(kN)	* 2)
Minimum stiffness	k _{nin}	(N/m)	0.8 x 10°
Permissible deflection per 100 kN	Def _{max}	(mm)	0.125

Remarks:

- *1) Engine stays of friction type must be only installed in longitudinal direction. As an alternative also engine stays of hydraulic type can be applied.
- *2) Relevant engine forces resulting from lateral moments of X/H-type at R1 rating are considered. The provided value represents the transmitted force per stay (2 pcs per side) which must be considered for the layout of the attachment points on ship hull side.
- *3) The engine stays positions are defined in the "DG7602-01/-02 Platform Outline Views".

Pos. No. +4)	Material ID	X (mm)	T (mm)
001	PAAD046700	2000 - 2280	15
002	PAAD046701	2281 - 2560	20
003	PAAD046702	2561 - 2840	25
004	PAAD046703	2841 - 3120	30
005	PAAD046704	3121 - 3400	35

X defines the clear width between engine attachment points and ship side (to be determined by shipyard)

- X min. = 2000 mm
- X max. = 3400 mm
- *4) Depending on the requirement, either the stay execution of Pos. 001, 002, 003, 004 or Pos. 005 must be selected.

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	╙													4	
į	В	dri021	mhu019	03.09.2024	OHMODES23 Drawing updated							4	3		
i	Α	rpa101	sth017	24.08.2023	CNAA034238	Drawi	ng upo	lated						4	3
ô	-	sde101	mhu019	22.06.2023	CNAA003978	new I	Design						\neg	-	-
	Rev.	Chestor	Approver	Approval Data	Change ID	Change 5	Synopsis				Approve	d Active	ty Gode	6	¢
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s	ера	ırate l	вом ам	allable	Dimension				Longitus	final ins	tallati	on re	equire	ner	ıt
		1:30	ψ	♠ NX	Units [mm]	[kg]	Basic A	Saterial				Net Wi	eight:	35	70
to take	ing 2000	INCOME OF UN		copert receptors to not any part r combuction.	Main Design		Design Group		9715	O-Code X	ΧM	Stano	dard	WE	S
			of select purpose to be third early		Qtv		A0	tien	5	TAA00	2500	Dogw	ian	-	/1



Friction type stays according to WinGD design

ONLY to be installed in longitudinal direction on engine driving end or free end

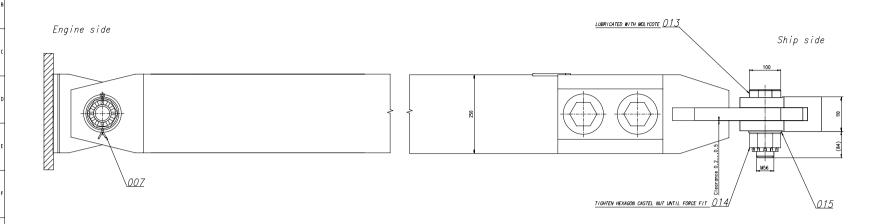
Please consult WinGD directly in case you have a specific question or need support.

DISCLAIMER

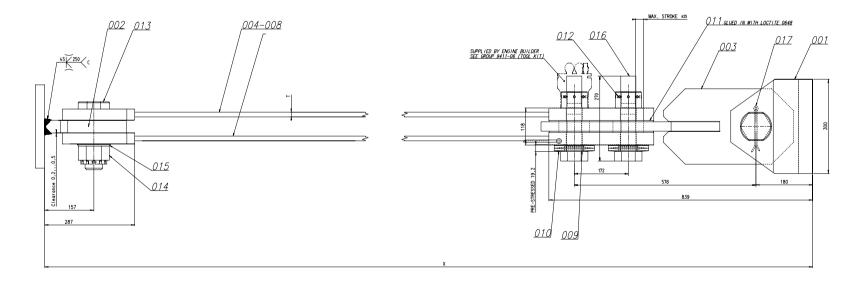
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Material ID	X (mm)	T (mm)
PAAD046700	2000-2280	15
PAAD046701	2281-2560	20
PAAD046702	2561-2840	25
PAAD046703	2841-3120	30
PAAD046704	3121-3400	35



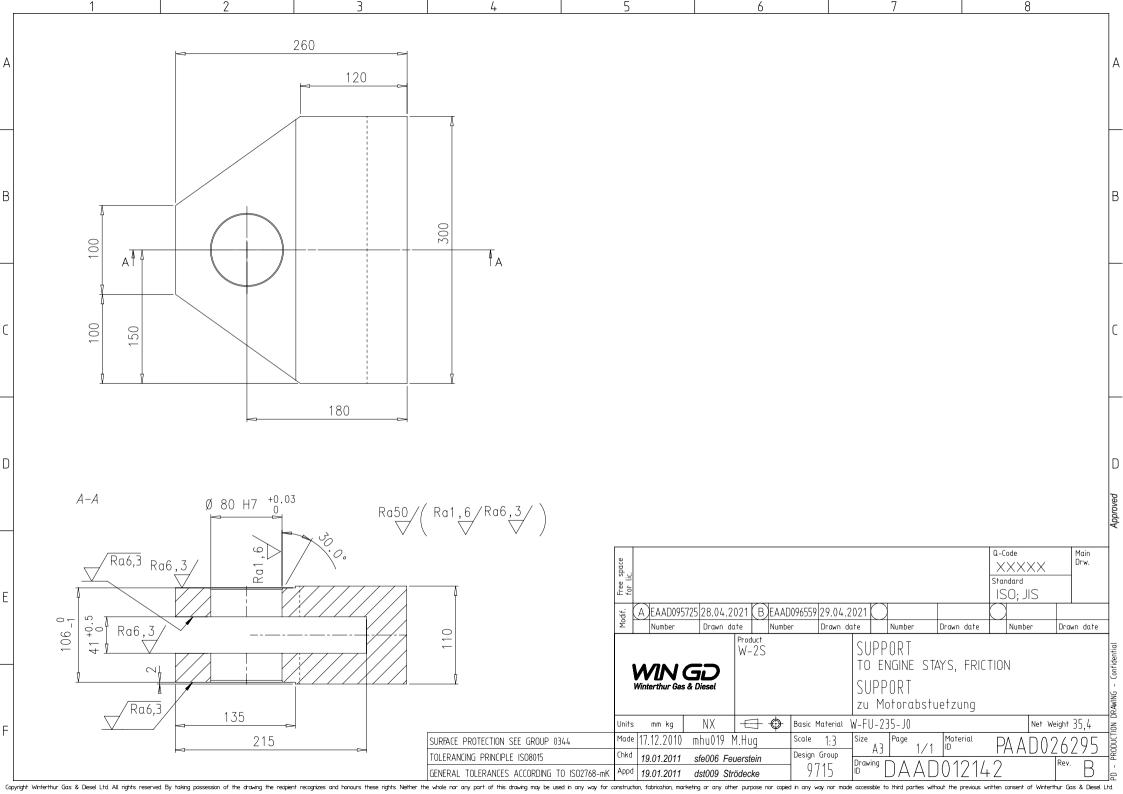
NOTE: _______BETWEEN ENGINE AND SHIP SIDE; TO BE DETERMINED BY SHIPYARD (SEE MAIN DRAWING)

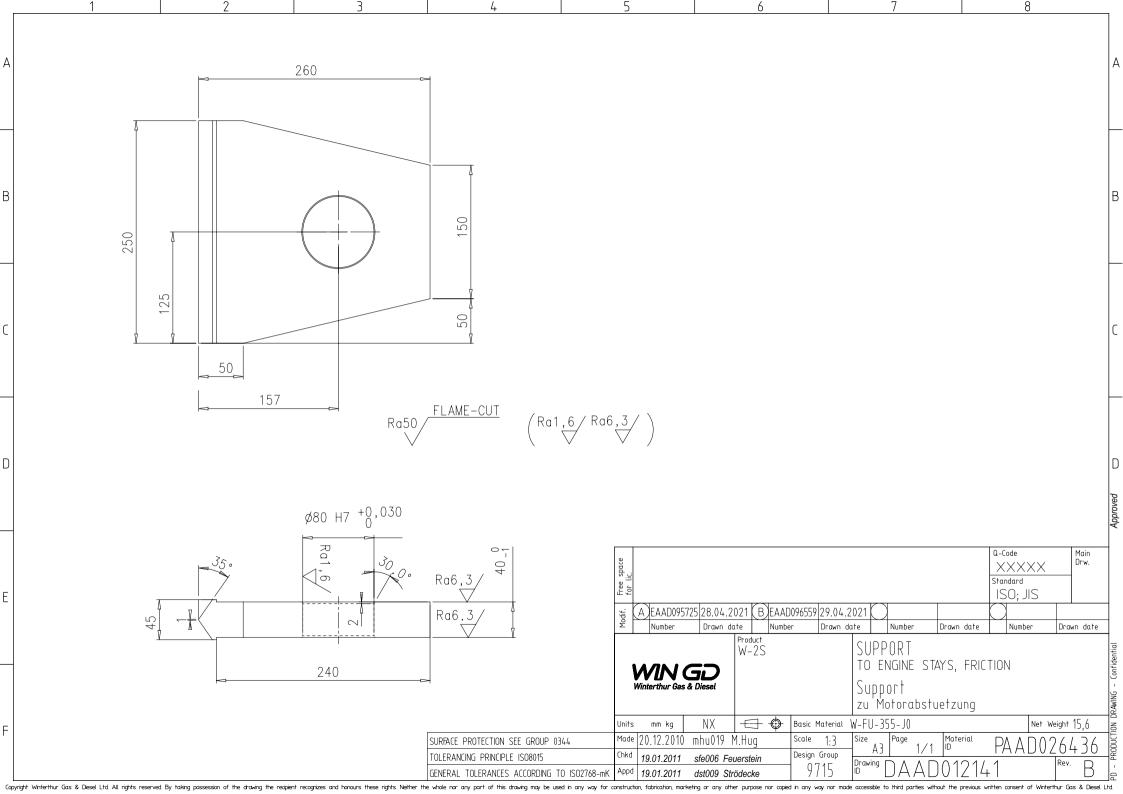
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11.7	282	326	330	302							
2	2	2	2	2	017	015.509.017.503	SPLIT PIN 8x100	ISO 1234	Steel Zn-plated	0.04	ι
2	2	2	2	2	016	015,151,024,781	HEXAGON HEAD BOLT M48x240	ISO 4014	8.8	4,29	l
2	2	2	2	2	015	015.500.102.330	WASHER 58	DIN 125-1	Steel blank	0,425	L
2	2	2	2	2	014	015.201.304.610	CASTLE NUT M56	Acc. WinGD	C45E;S45C	1,63	
2	2	2	2	2	013	PAAD026437	BOLT	DAAD012368	C45E S45C	7,17	ļ
2	2	2	2	2	012	107.345.876.008	ROUND NUT M48	107.345.876	W-FA-42CrMo-CIT	1,42	ľ
2	2	2	2	2	011	PAAD902269	SHIM 4THICK	DAAD902593		2,3	
4	4	4	4	4	010	107.246.311.001	DISC SPRING 125 X 61 X 8	107.246.311		0,55	ľ
2	2	2	2	2	009	107.246.316.001	RING 60 x 50 x 17	107.246.316	RSt 37-2	0,12	l.
2	-	-	-	-	008	PAAD902262	ENGINE STAYS	DAAD902592		137	١
-	2	-	1	-	007	PAAD902268	ENGINE STAYS	DAAD902592		122	
-	-	2	1	-	006	PAAD902257	ENGINE STAYS	DAAD902592		108	ŀ
-	-	-	2	-	005	PAAD902247	ENGINE STAYS	DAAD902592		93,8	
-	-	-	1	2	004	PAAD902252	ENGINE STAYS	DAAD902592		79,6	ŀ
1	1	1	1	1	003	PAAD902231	CLAMPING PART	DAAD902576		54,9	
1	1	1	1	1	002	PAAD026436	SUPPORT	DAAD012141	W-FU-355-J0	15,6	ŀ
1	1	1	1	1	001	PAAD026295	SUPPORT	DAAD012142	W-FU-235-J0	35,4	TANKATA
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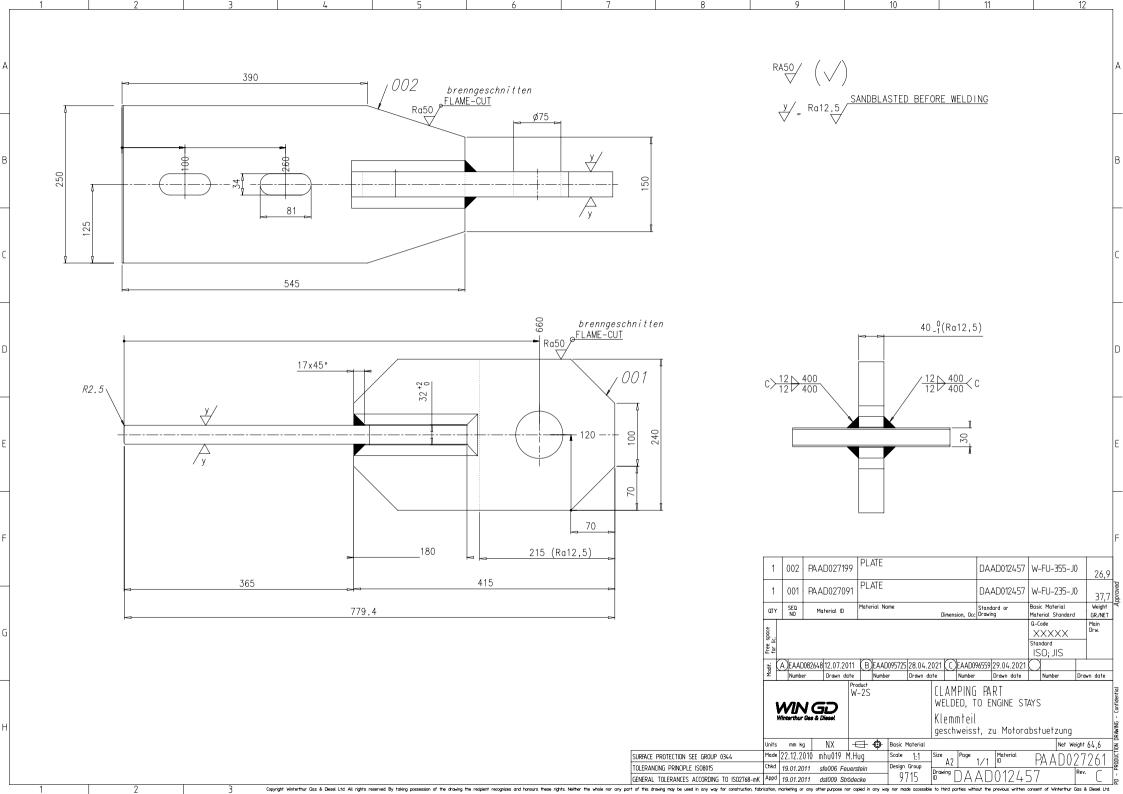
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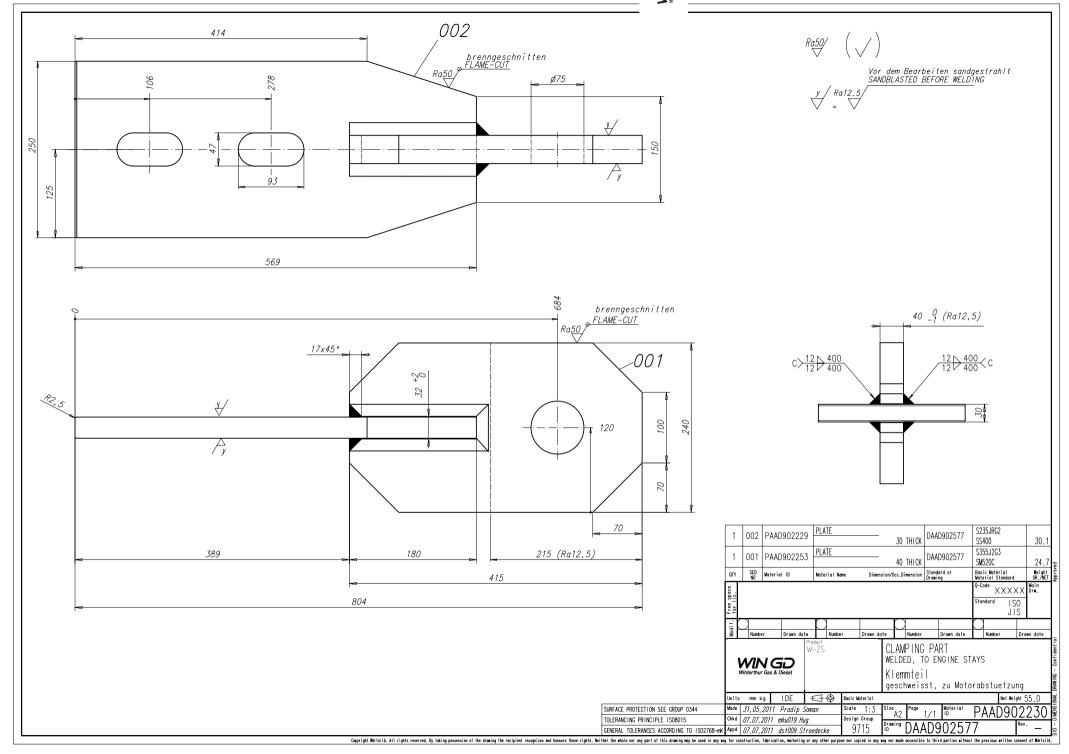
ENGINE STAYS/ FRICTION TYPE

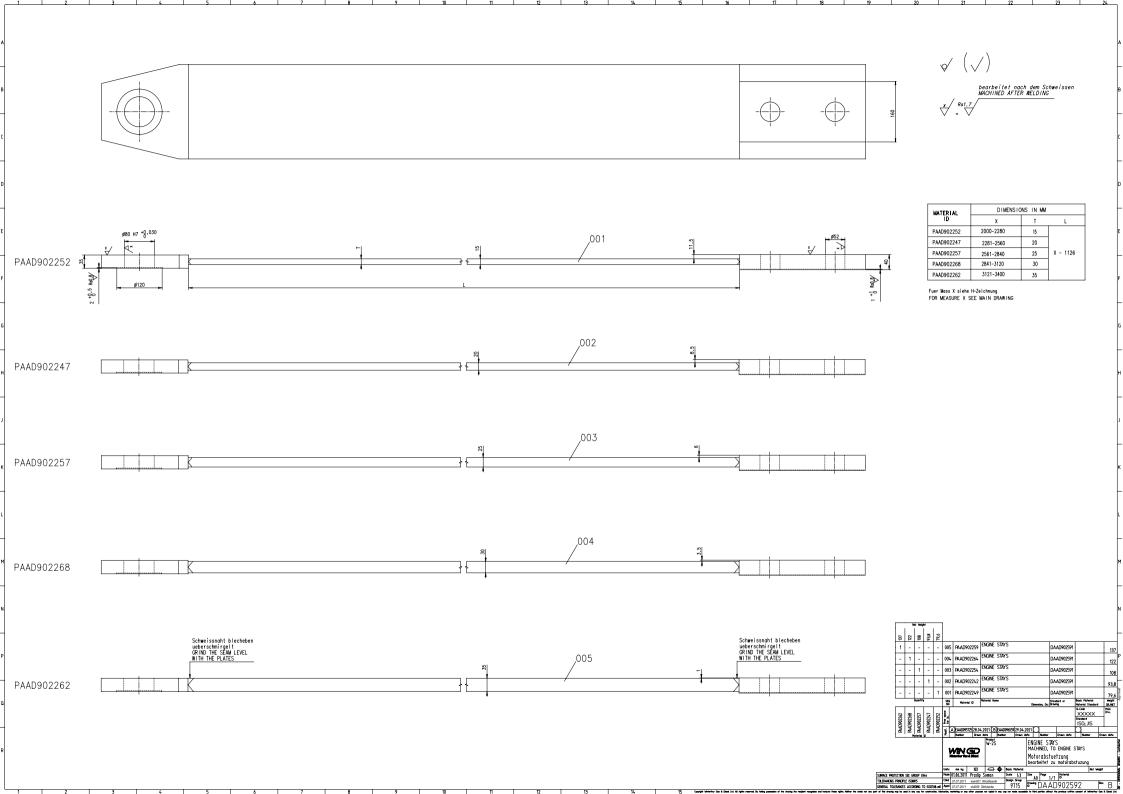
Motorenabstuetzung mit Reibbelag

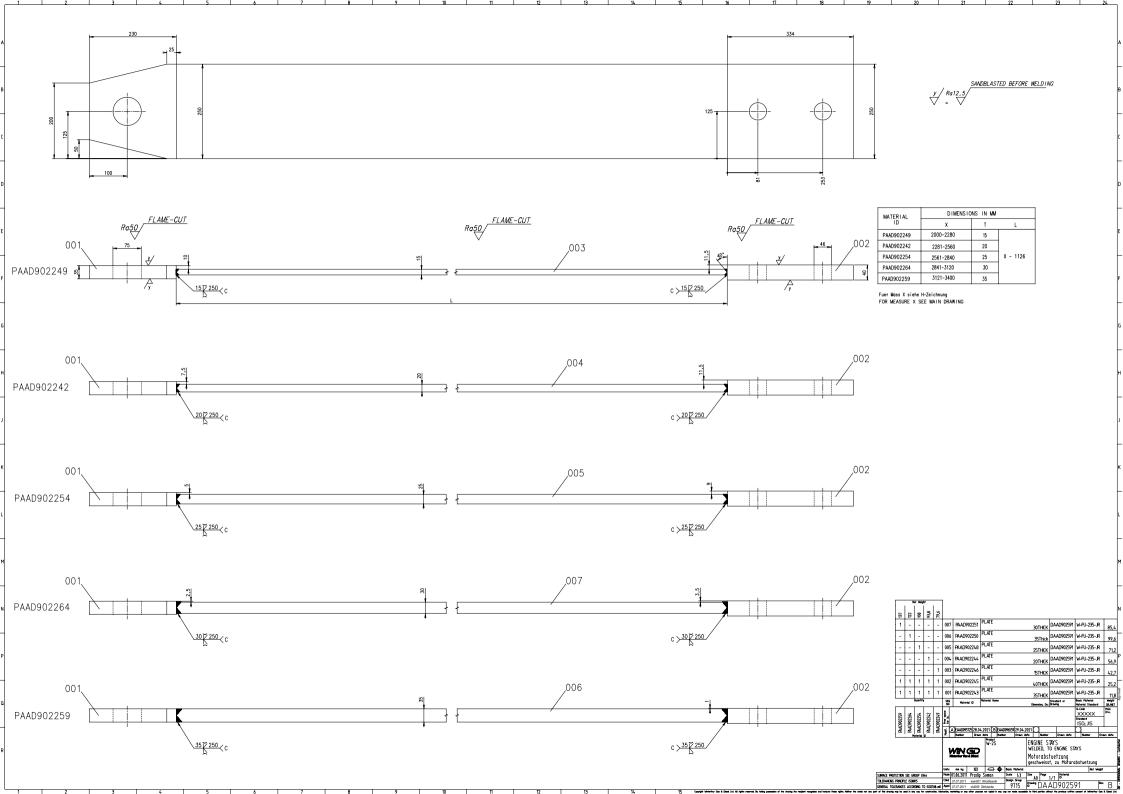


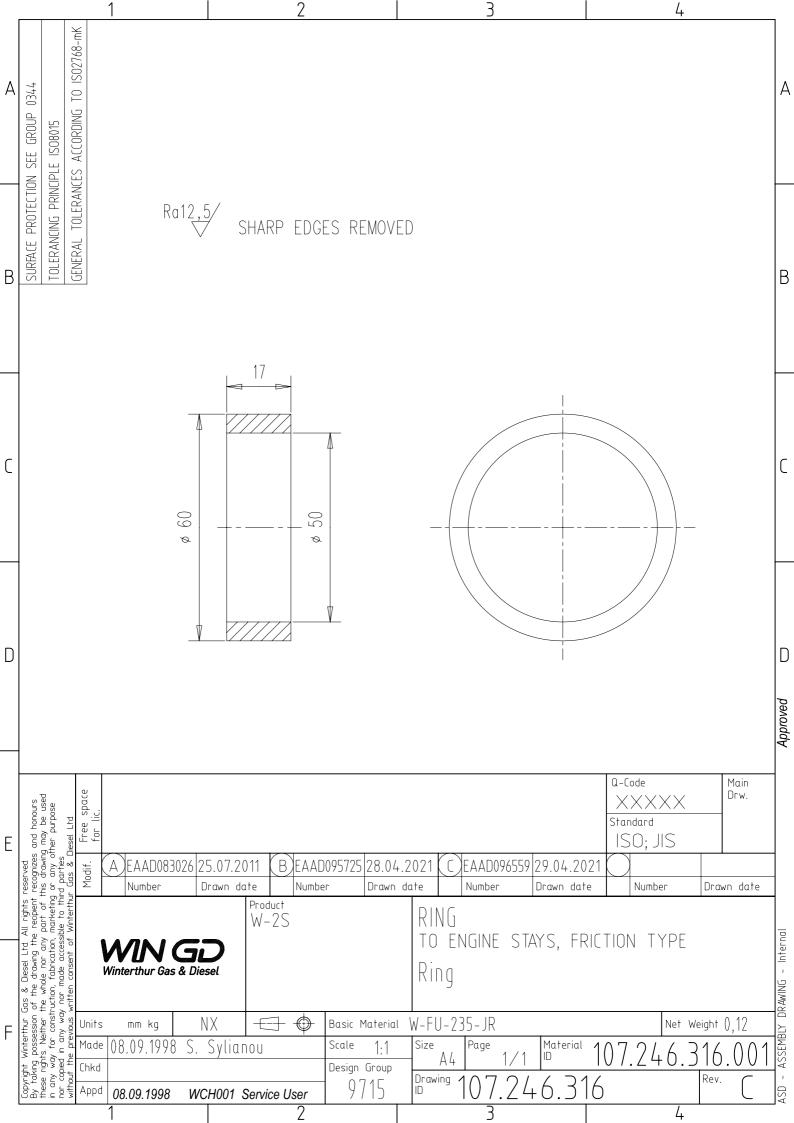


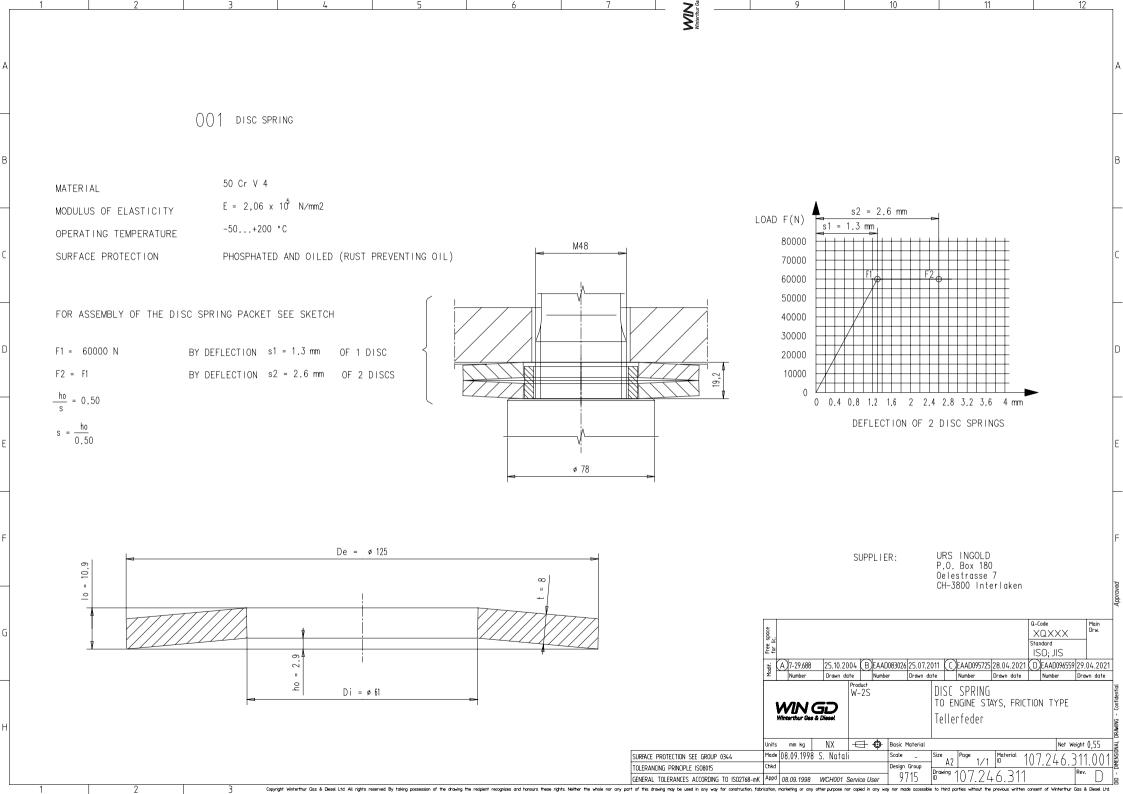


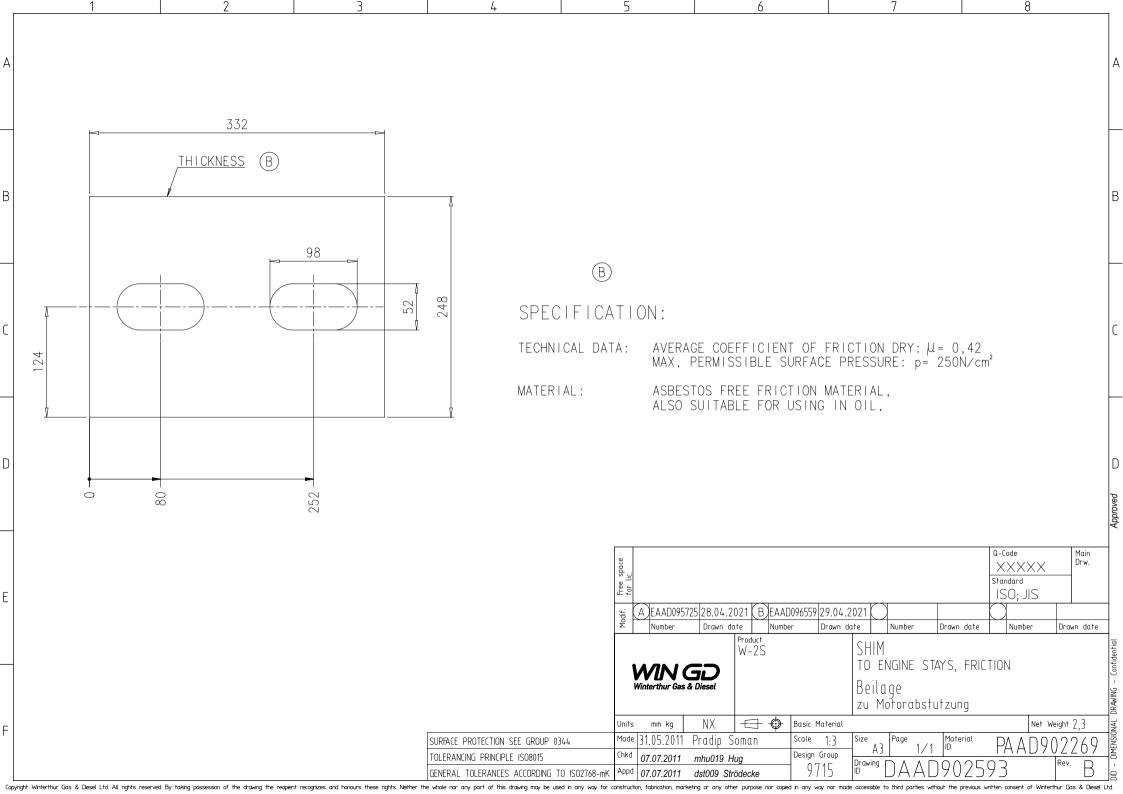


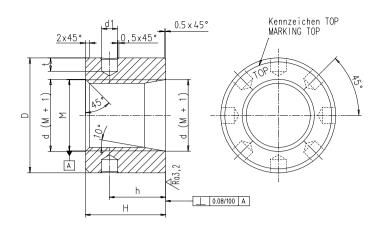












POS.	М	D	d	Н	h	d1	t
001	M27	47	28	29	20	6 0.2	7
002	M30	52	31	33	23	6 0.2	7
003	M33	57	34	36	25	6 0.2	7
004	M36	62	37	39	27	6 0.2	7
005	M39	67	40	42	29	6 0.2	7
006	M42	73	43	46	32	6 ^{+0.2}	7
007	M45	78	46	49	34	6 ^{+0.2}	7
800	M48	83	49	52	36	6 ^{+0.2}	7
009	M52	90	53	56	39	6 0 0 0	7
010	M56	97	57	61	43	9.5 +0.2	10
011	M60	104	61	65	46	9.5 +0.2	10
012	M64	110	65	70	49	9.5 +0.2	10
013	M68	117	69	74	52	9.5 +0.2	10
014	M72	124	73	78	55	9.5 0 0 0 0	10
015	M76	131	77	82	57	9.5 +0.2	10
016	M80	138	81	87	61	14 0.2	15
017	M85	146	86	92	64	14 0.2	15
018	M90	155	91	98	69	14 0.2	15
019	M95	164	96	103	72	14 0.2	15
020	M100	172	101	108	76	14 0.2	15

Ra6,3/	(Ra3.2/)

1 020 107.345.876.020 ROUND NUT

MATERIAL:	W-FA-42CrMo-QT D
D >40 - ≤100	verguetet Rm = 900-1100 N∕mm ² HEAT TREATED
D >100 - ≤160	verguetet Rm = 800-950 N∕mm ² HEAT TREATED
D >160 - ≤250	verguetet Rm = 750-900 N/mm ² HEAT TREATED

M100 107.345.876 W-FA-42CrMo-QT 13.2

Net Weight

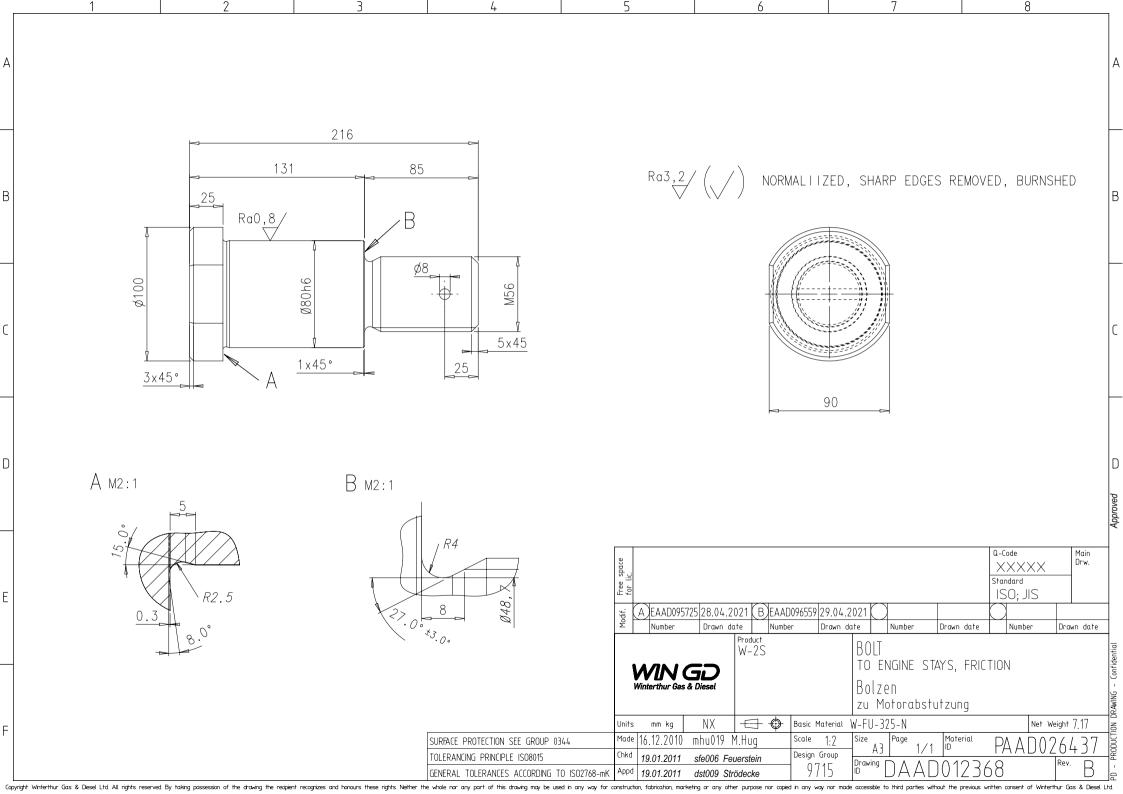
Rev. D

2.	Numbe	r	Drawn date		Number	Drawn date		Number		Drawn date	Number	Dra	en date	
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QTY	SEQ NO	Ма	terial D	Mater	rial Name	D	limens	sion, Occ	Stand Drawin	lard or ng	Basic Material Material Standard Q-Code		Weight GR./NET Main	ľ
1	001	107.34	+5.876.001		JND NUT			M27	107.	345.876	W-FA-42CrMo-	-ar	0,25	pevovad
1	002	107.34	5.876.002		JND NUT			M30	107.	345.876	W-FA-42CrMo-	-OT	0,37	K
1	003	107.34	5.876.003	ROL	JND NUT			M33	107.	345.876	W-FA-42CrMo-	-OT	0,49	
1	004	107.34	5.876.004	ROL	JND NUT			M36	107.	345.876	W-FA-42CrMo-	-ar	0,63	l
1	005	107.34	5.876.005	ROL	JND NUT			M39	107.	345.876	W-FA-42CrMo	-ar	0,79	
1	006	107.34	5.876.006	ROL	JND NUT			M42	107.	345.876	W-FA-42CrMo	-ar	0,96	J
1	007	107.34	5.876.007	ROL	JND NUT			M45	107.	345.876	W-FA-42CrMo-	-ar	1,2	١.
1	008	107.34	5.876.008	ROL	JND NUT			M48	107.	345.876	W-FA-42CrMo-	-ar	1,42	
1	009	107.34	5.876.009	ROL	JND NUT			M52	107.	345.876	W-FA-42CrMo-	-ar	1,86	
1	010	107.34	+5.876.010	ROL	JND NUT			M56	107.	345.876	W-FA-42CrMo-	-ar	2,36	ľ
1	011	107.34	45.876.011	ROL	JND NUT			M60	107.	345.876	W-FA-42CrMo	-ar	2,9	н
1	012	107.34	5.876.012	ROL	JND NUT			M64	107.	345.876	W-FA-42CrMo-	-ar	3,5	
1	013	107.34	-5.876.013	ROL	JND NUT			M68	107.	345.876	W-FA-42CrMo-	-ar	4,2	
1	014	107.34	-5.876.014	ROL	JND NUT			M72	107.	345.876	W-FA-42CrMo-	-ar	5,0	ľ
1	015	107.34	5.876.015	ROL	JND NUT			M76	107.	345.876	W-FA-42CrMo-	-ar	5,9	G
1	016	107.34	5.876.016	ROL	JND NUT			M80	107.	345.876	W-FA-42CrMo-	-ar	6.8	
1	017	107.34	5.876.017	ROL	JND NUT			M85	107.	345.876	W-FA-42CrMo-	-ar	8,1	L
1	018	107.34	5.876.018	ROL	JND NUT			M90	107.	345.876	W-FA-42CrMo	-ar	9.7	
1	019	107.34	5.876.019	ROL	JND NUT			M95	107.	345.876	W-FA-42CrMo-	-ar	11,4	F
								TIVV					13,2	

WINGD Hourston Start Elliest

Product W-2S ROUND NUT Rundmutter

SURRACE PROTECTION SEE GROUP 0944. 150s 19.08.2004 pne001 P.Netracher Scale 5.1 Sze A1 Rose 1/1/1 Mohrhold TOLERANKEG PROTECTION SCHOOL 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 T. 3.4 S. 5.7 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 33.00 School 10 SCO2788-HK PROPE 2008 2004 PRE001 Netracher 2008 2004 PRE001 Netrach





MIDS - Engine Stays (DG9715)

WinGD X52-S2.0

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2023-06-22	DRAWING SET	First web upload
2023-08-31	PTAA074114— PTAA003582-A PTAA003591-A	new drawings/ new drawing revision
2024-01-26	PTAA074114-B	New revision
2024-09-03	PTAA003595-A PTAA003592-B PTAA074114-D	New revision

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