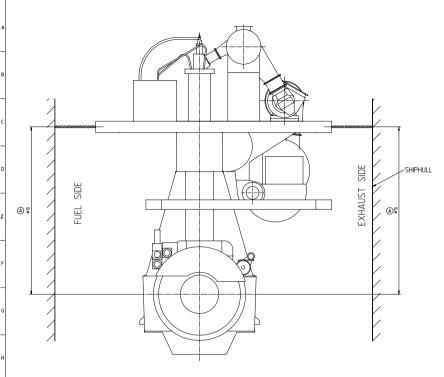
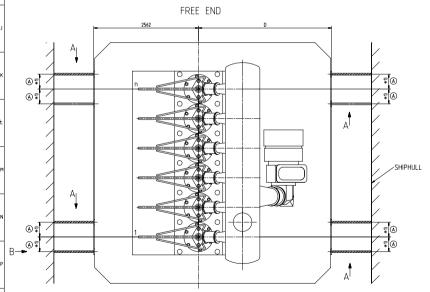
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(A) Requirements for the installation and operation of hydraulic type engine stays

- Depending on the project specific requirements and selected engine stays type, the engine stays can be installed with one of the following arrangements:
- 1) engine stays on exhaust side 2) 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 engine stays supplier.
- 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 instructions.
- 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)

Minimum stiffness	r r	(1)1-2)	0.5 408
	k _{nin}	(N/m)	0.5 x 10°
Permissible deflection per 100 kN D	Def _{max}	(mm)	0.2

Surface protection see group 0344 Toleranong principle isobots

(A) Remarks:

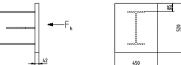
*1) The engine stays positions are defined in the "DG7602-01/-02 Platform Outline Views".

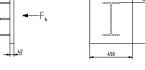
*2) Maximum engine force results from lateral moments of X/H type at the project specific rating plus engine stays pre-tensioning force according to stays supplier's specification.

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Layout of engine stays attachment points on platform side according to WinGD standard design

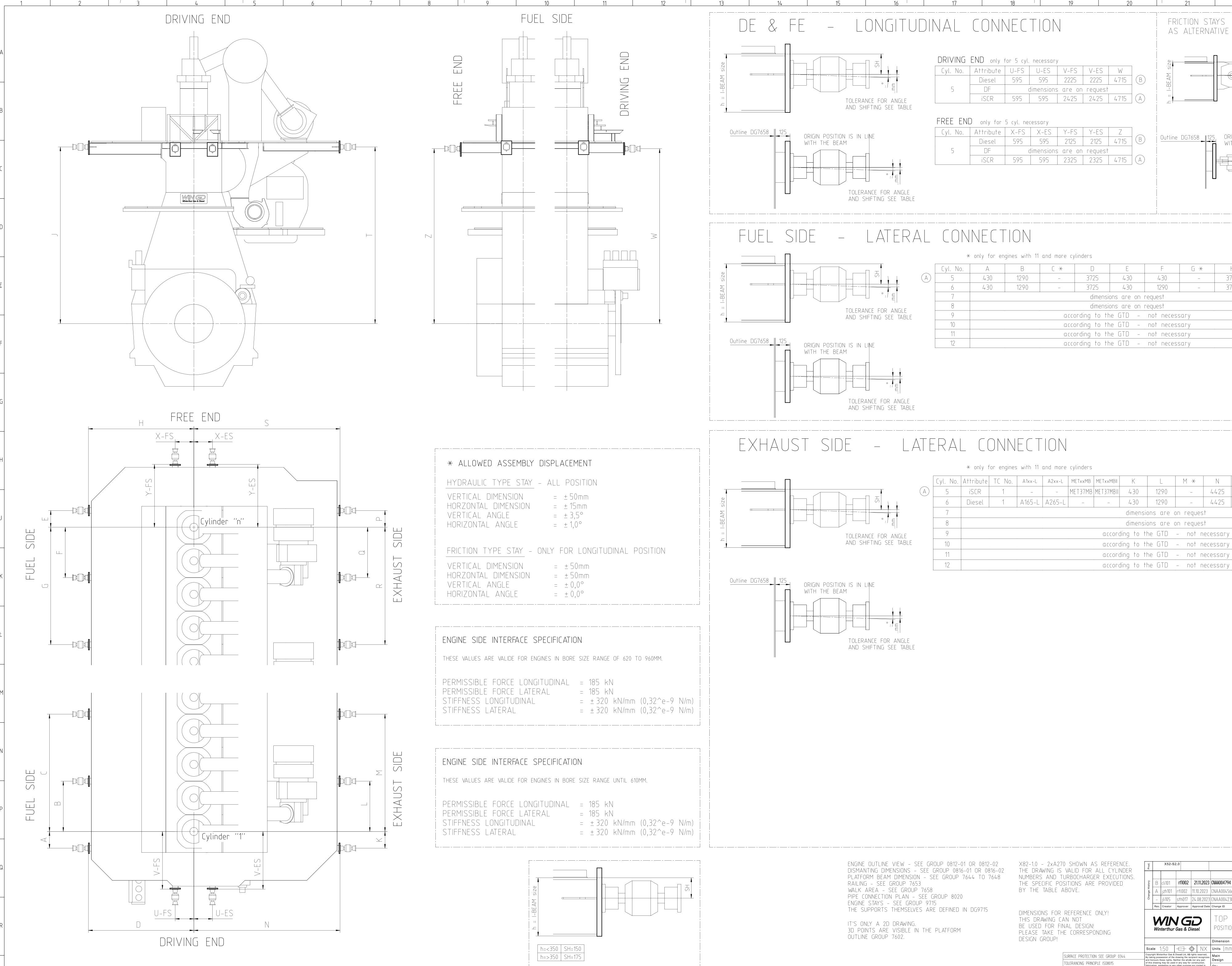
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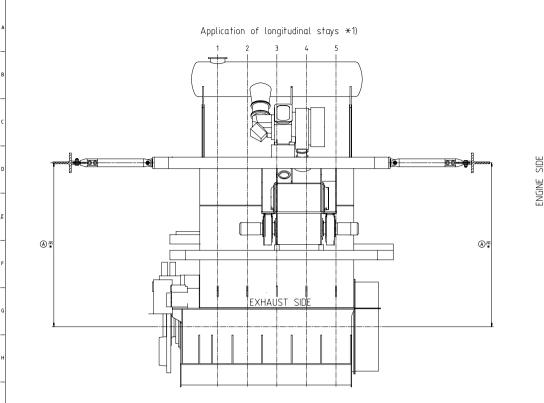
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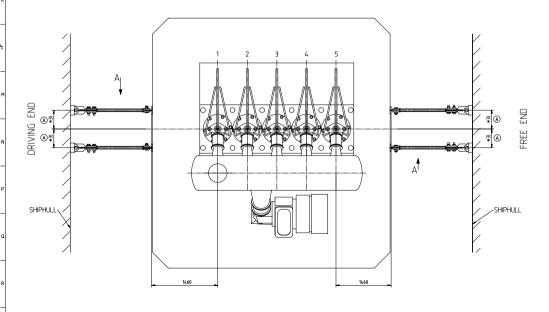


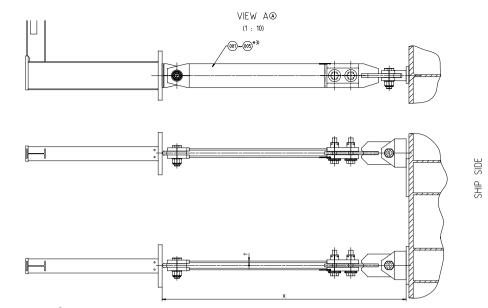
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- Requirements for the installation and operation of friction type *1) engine stays according to WinGD design
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- Depending on the project specific requirements the engine stays can be installed with one of the following arrangements:
- two engine stays on engine driving end side
 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 *2)	Fh _{eex.}	(kN)	90
Minimum stiffness	k _{nin.}	(N/m)	0.8 × 10°
Permissible deflection per 100 kN	Def _{max}	(mm)	0.125

A 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".

۲	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

(A) *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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enterin, entree interstory execution of or Pos. 005 must be selected.



Friction type stays according to WinGD design

<u>ONLY</u>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.

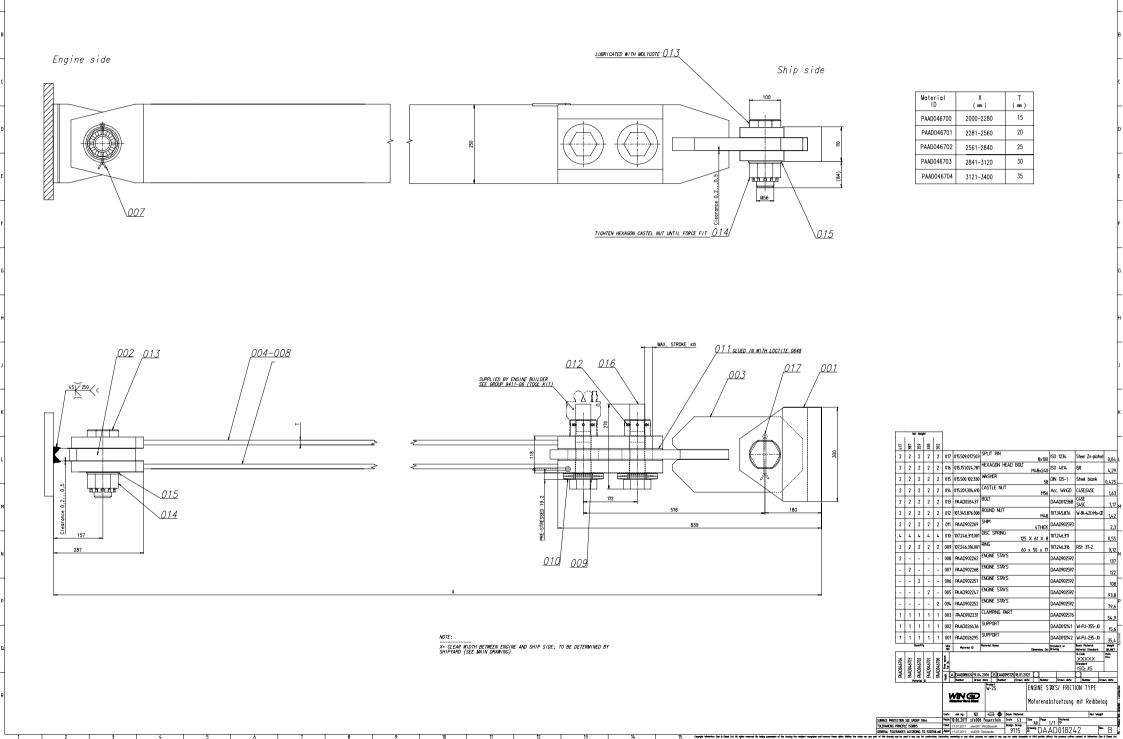
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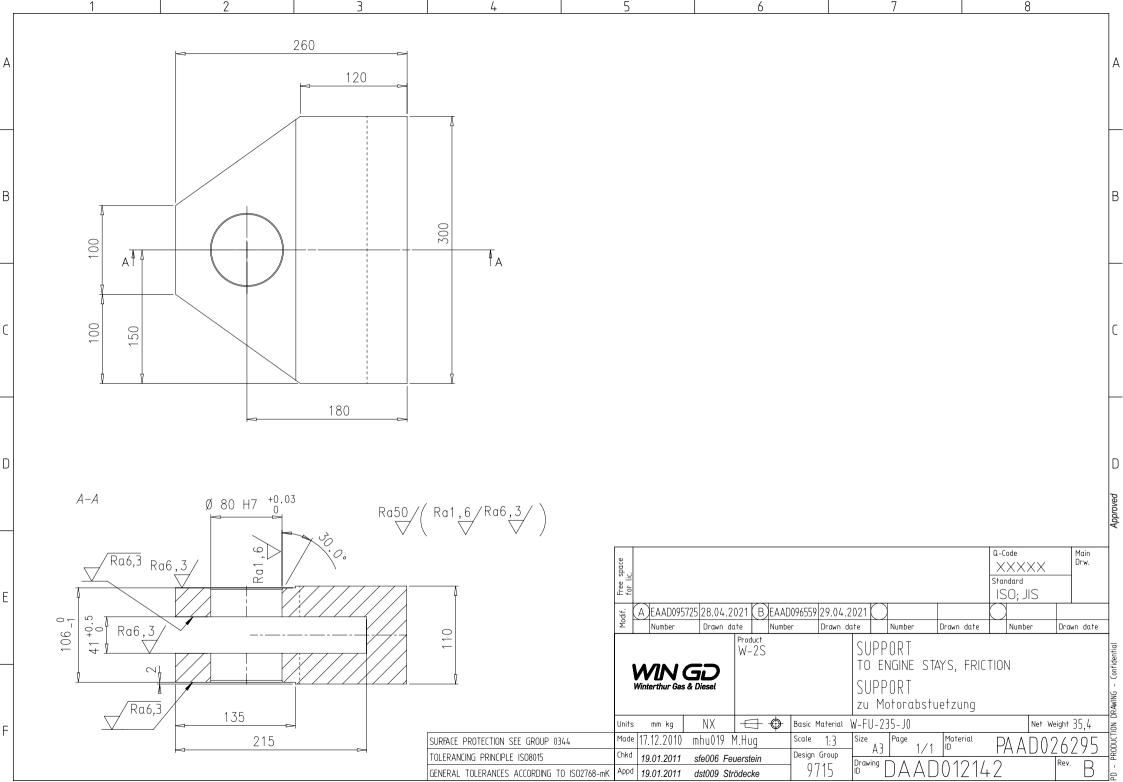
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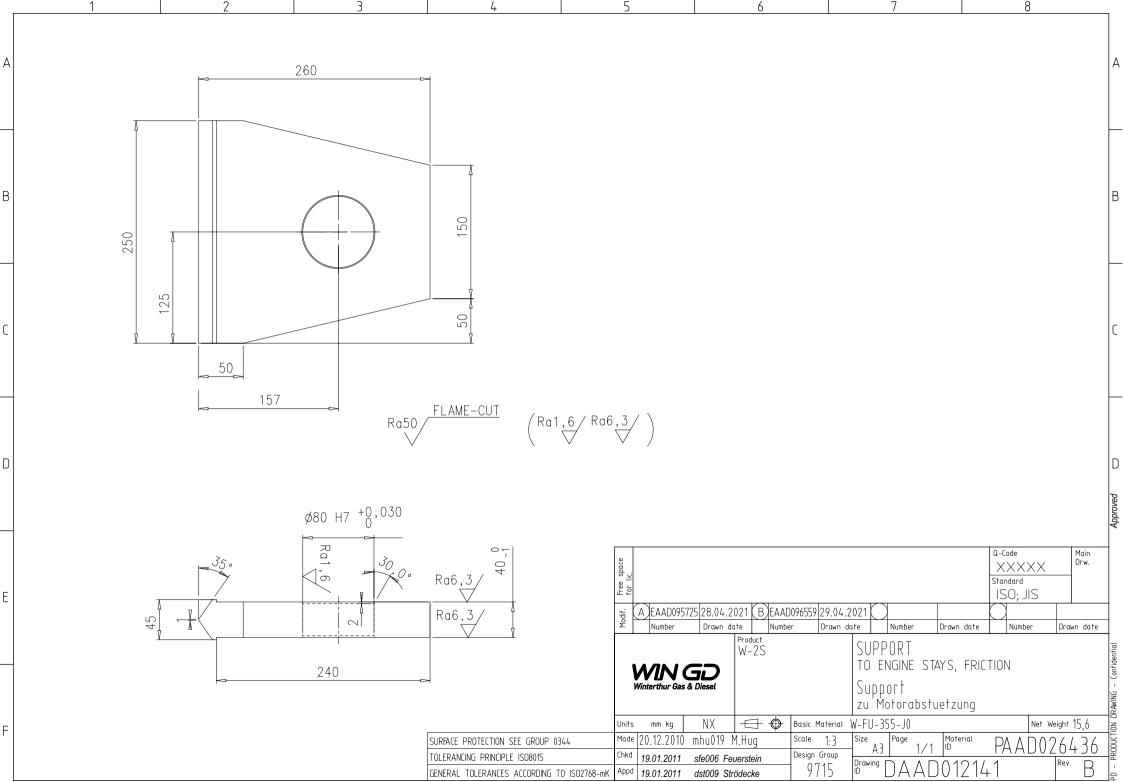
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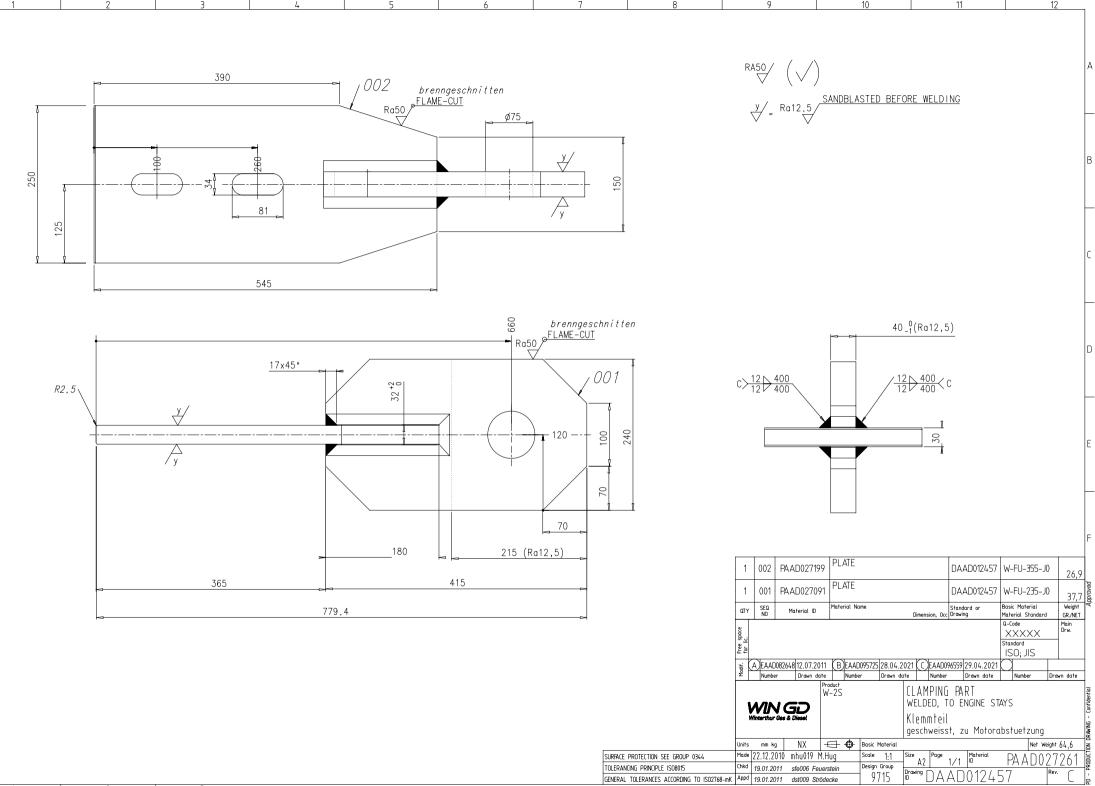




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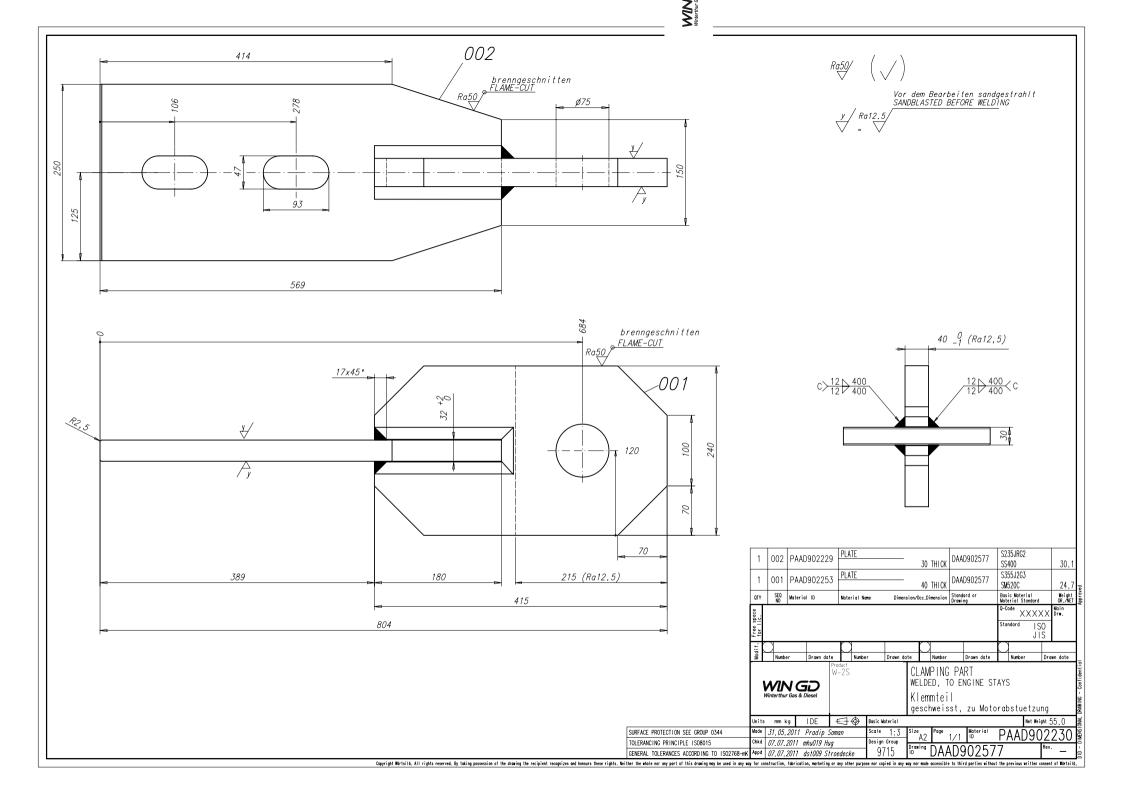
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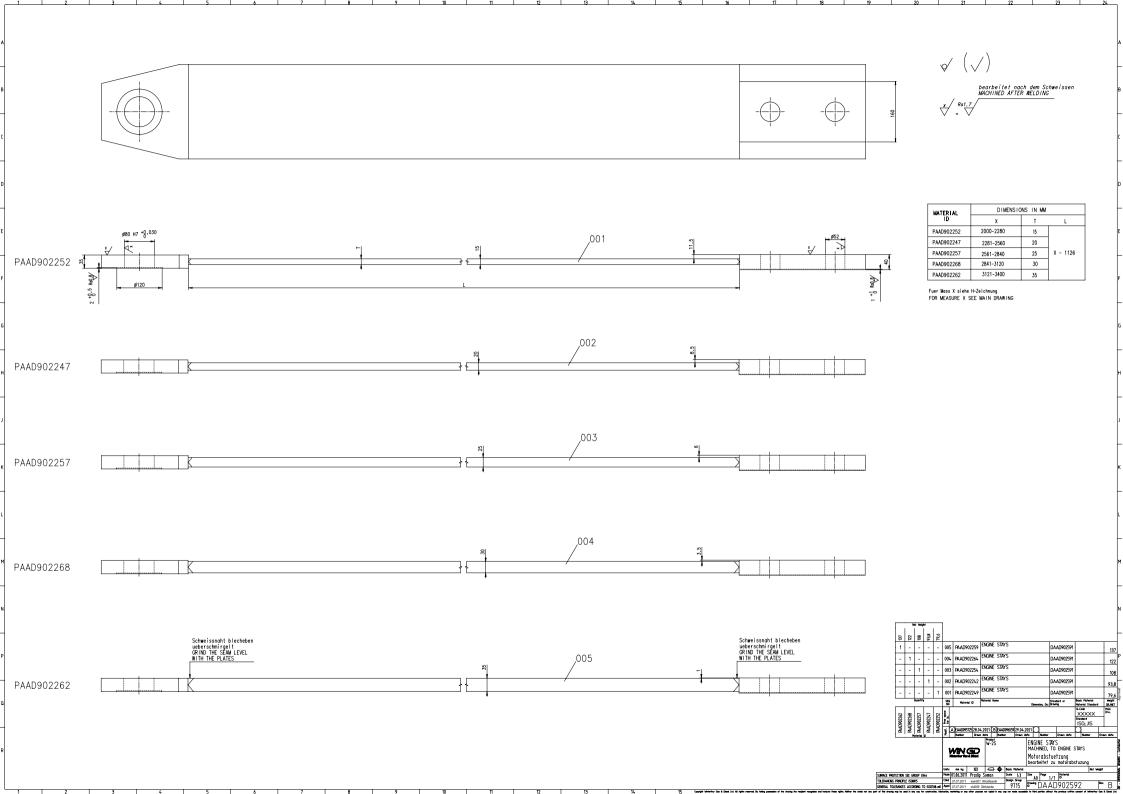
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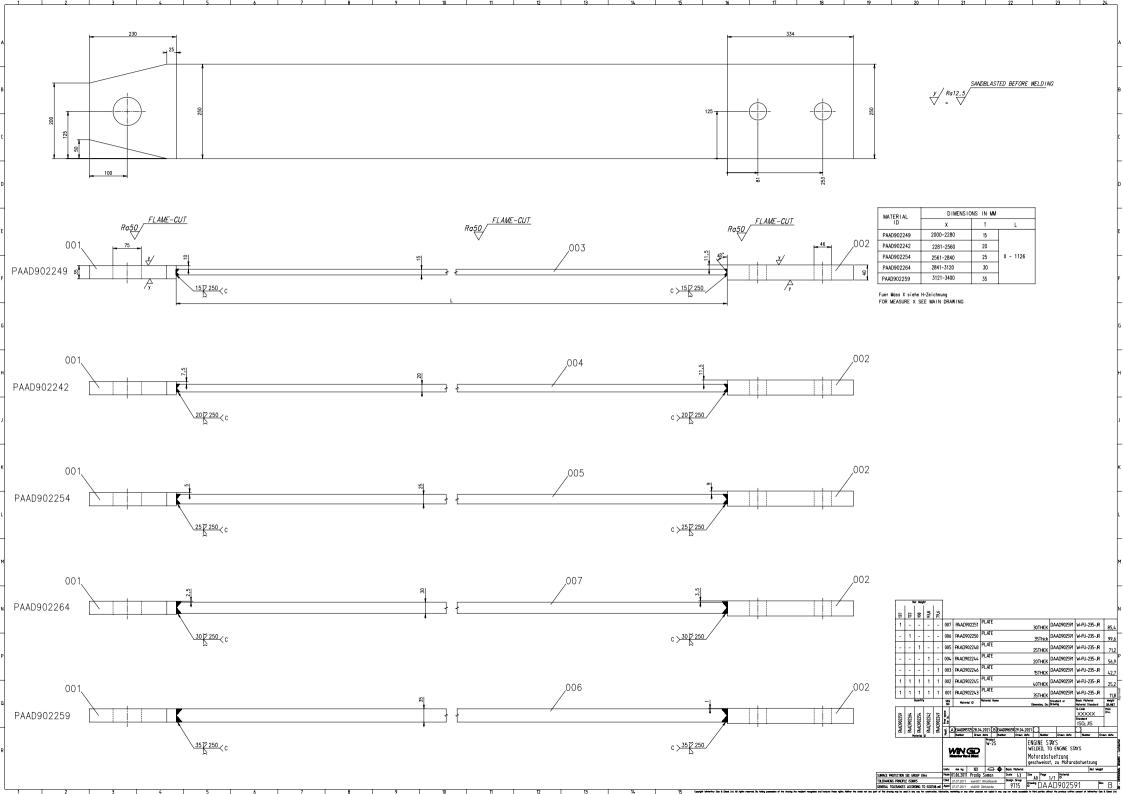
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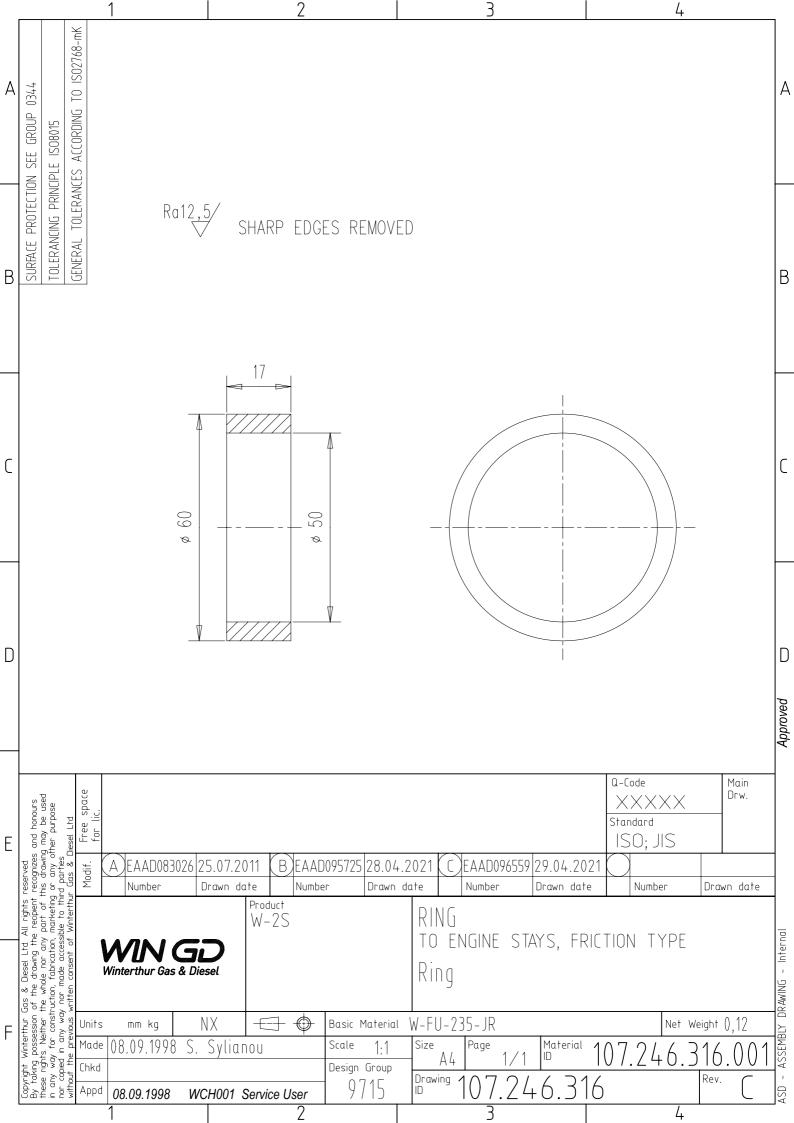
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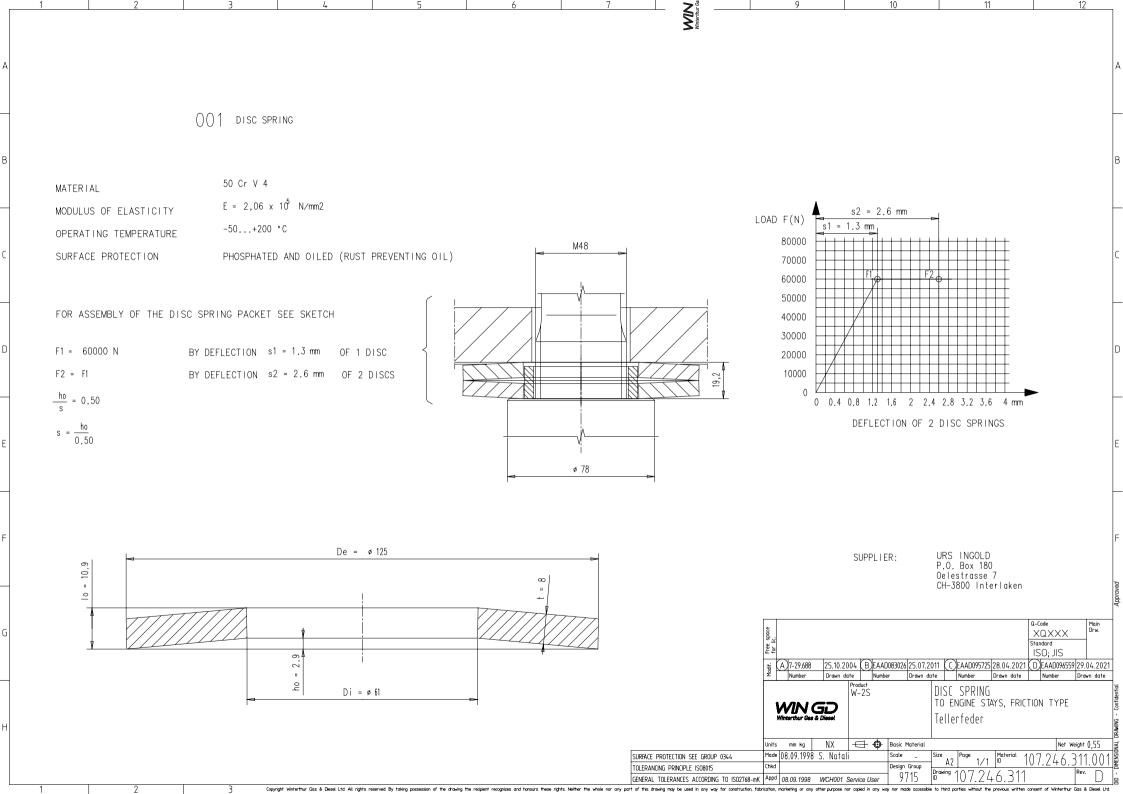
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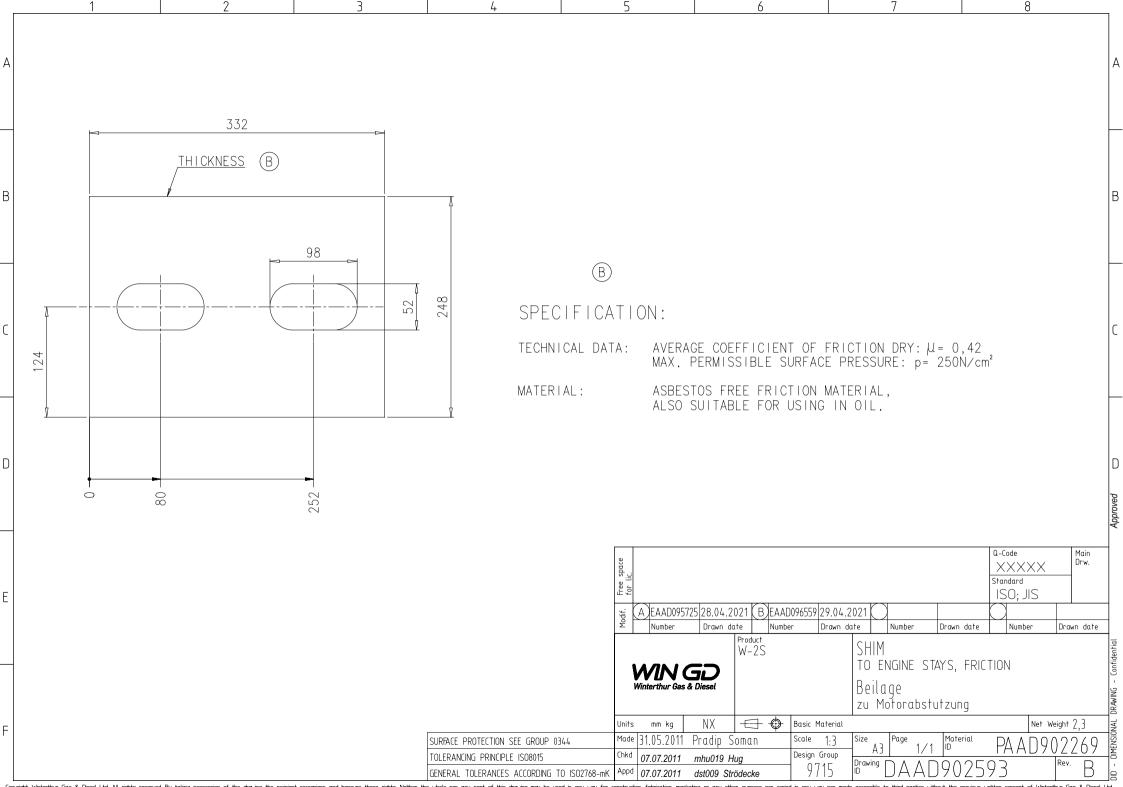






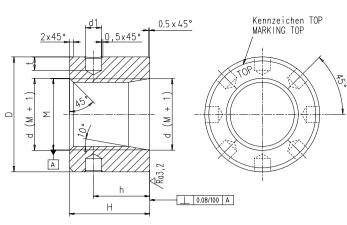






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	1	014 1	107.345.876.01			M72	107.345.876	W-FA-42CrMo-QT	5,0	
	1	013 1	107.345.876.01			M68	107.345.876	W-FA-42CrMo-QT	4,2	Ļ
	1		107.345.876.01	DOLIND		M64	107.345.876	W-FA-42CrMo-QT	3,5	
	1	011 1	107.345.876.01			M60	107.345.876	W-FA-42CrMo-QT	2,9	н
	1		107.345.876.01	DOLIND		M56	107.345.876	W-FA-42CrMo-QT	2,36	
	1	009 1	107.345.876.00			M52	107.345.876	W-FA-42CrMo-QT	1,86	L
	1	008 1	107.345.876.00			M48	107.345.876	W-FA-42CrMo-QT	1,42	
	1		107.345.876.00	POLIND		M45	107.345.876	W-FA-42CrMo-QT	1,2	Ļ
	1		107.345.876.00	POLIND		M42	107.345.876	W-FA-42CrMo-QT	0,96	ľ
	1		107.345.876.00	DOLIND		M39	107.345.876	W-FA-42CrMo-QT	0,79	L
	1		107.345.876.00	DOLIND		M36	107.345.876	W-FA-42CrMo-QT	0,05	ſ
	1		107.345.876.00	DOLIND		M33	107.345.876	W-FA-42CrMo-QT	0,49	ĸ
	1		107.345.876.00	POLIND		M30	107.345.876	W-FA-42CrMo-QT	0,37	K
	1		107.345.876.00)1 ROUND Material N		M27	107.345.876 Standard or	W-FA-42CrMo-QT Basic Material	0,25 Weight	Approved
	aty S	seq. No	Material ID	end N	#	Dimension, Occ	Standard or Drawing	Material Standard Q-Code	Weight GR./NET Main Drw.	ſ
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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 execution

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