

Available executions

| Execution No. | Material ID | Cylinder No. | Attribute 1: Crankshaft parts | | Attribute 2: Bedplate Split | |
|---------------|-------------|--------------|-------------------------------|---|-----------------------------|-----------------|
| | | | 1 | 2 | standard | Weight Levelled |
| 001 | PTAA117991 | 6 | X | | X | |
| 002 | PAAD370399 | 7 | X | | X | |
| 003 | PTAA059869 | 8 | X | | X | |
| 004 | PTAA003754 | 8 | | X | X | |
| 005 | PAAD295494 | 9 | | X | X | |
| 006 | PAAD202723 | 10 | | X | X | |
| 007 | PAAD142162 | 11 | | X | X | |
| 008 | PAAD279802 | 12 | | X | X | |
| 009 | PAAD374048 | 12 | | X | | X |

NOTE
 The above executions can be configured using the Engine Configurator.
 Detailed guidance for the executions is provided within the Marine Installation Manual (MIM). If a specific execution of interest is not shown in the above table, then it may still be under development or not available. For further information or in case of a project-specific request, WinGD must be contacted directly.

This publication is designed to provide accurate and authoritative information with regard to the subject-matter covered as it was available at the time of printing. However, the publication deals with complicated technical matters suited only for specialists in the area, and the design of the subject-products is subject to regular improvements, modifications and changes. Consequently, the publisher and copyright owner of this publication cannot accept any responsibility or liability for any eventual errors or omissions in this document or for discrepancies arising from the features of any actual item in the respective product being different from those shown in this publication. The publisher and copyright owner shall under no circumstances be held liable for any financial consequential damages or other loss, or any other damage or injury, suffered by any party making use of this publication or the information contained herein.

| | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------|----------------------------------------------|-----------------|----------------|-----------------|---------------|-------|----------------|-----|
| Prod. | X92-B X92DF | | X92DF-2.0 | | | | | | | |
| Change History | | | | | | | | | | |
| | - | npa101 | | | new Design | | | | | |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Activity Code | E C | | |
| WINGD | | | TOOL ENGINE ALIGNMENT MIDS master drawing | | | | | | | |
| separate BOM available | | | Dimension | | | | | | | |
| Scale | - | | NX | Units [mm] [kg] | Basic Material | | Net Weight | 0.001 | | |
| Copyright WinGD Ltd. All rights reserved. By taking possession of the drawing the recipient recognizes and honours these rights. Neither the whole nor any part of this drawing may be used in any way for construction, 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. | | | | Main Design | Design Group | 9710-01 | Q-Code | X X M | Standard | WDS |
| | | | | Qty per | A4 | Item ID | PTAA054057 | | Drawing Page/s | 1/1 |

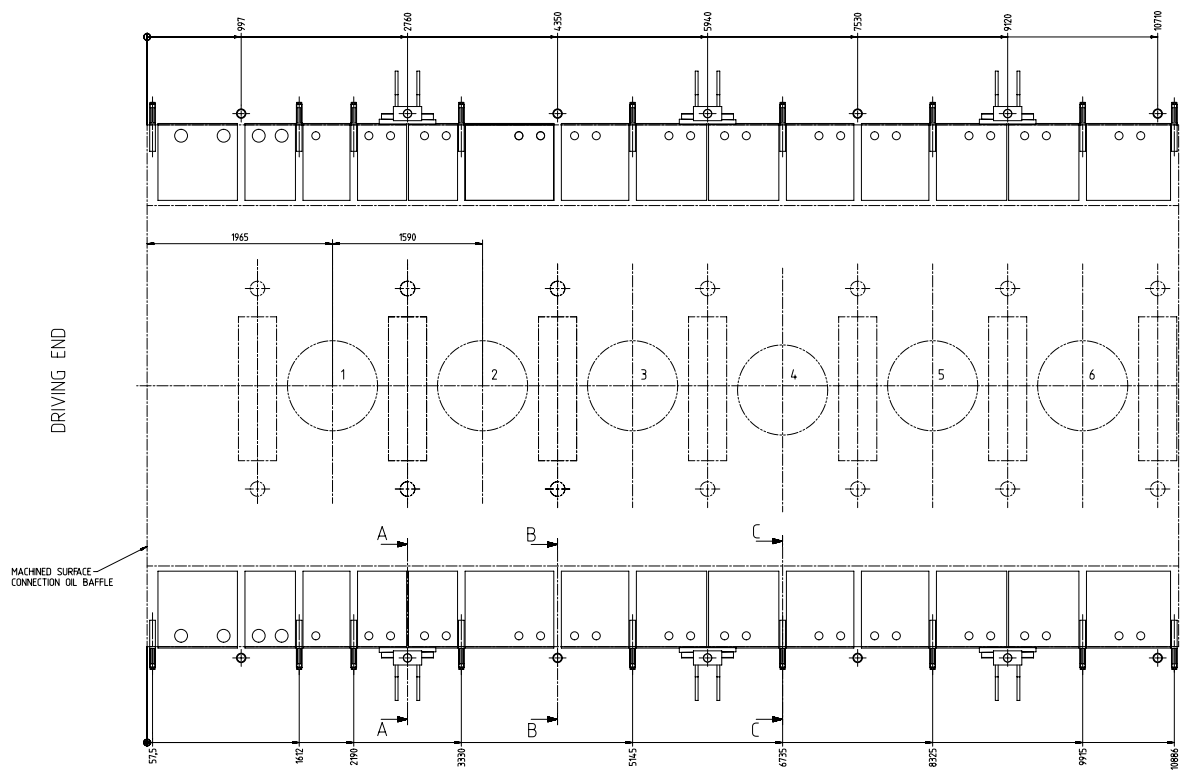
| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|-----------------|----------------|-----------|-------------|----------------|------------|
| 001 | 18 | 107.245.895.200 | WEDGE | | | | 8.51 |
| 002 | 14 | PAAD318478 | HYDRAULIC JACK | | | | |
| 003 | 6 | PAAD318479 | SUPPORT PLATE | | | | |
| 004 | 8 | PAAD318480 | SUPPORT BLOCK | | | | |

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|----------------|------------------------------|----------|---------------|------------|-----------------|---------------------------|-------------------|
| Prod. | 6 X92DF-2.0 6 X92DF-A-1.0 | | 6 X92DF-M-1.0 | | | | |
| Change History | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | - | npa101 | mhu019 | 17.10.2024 | CNAA006683 | New MainDesign introduced | - |
| Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved | Activity Code E C |

| | |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|
|  | <h2>TOOL ENGINE ALIGNMENT</h2> <p>Alignment with: Wedges</p> |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|

| | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|----------------|---------|-------------------|------------|--------------|
| Bill Of Material | | Dimension | | | | | |
| Copyright WinGD Ltd. All rights reserved. By taking possession of the document the recipient recognizes and honours these rights. Neither the whole nor any part of this document may be used in any way for construction, 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. | Units | [m] [kg] | Basic Material | | | Net Weight | 136 |
| | Main Design | Yes | Design Group | 9710-01 | Q-Code | X X O | Standard WDS |
| | Qty per | Engine | A4 | Item ID | PTAA117991 | | BOM Page/s |



CAUTION

Risk:
Tool and/or bedplate damage

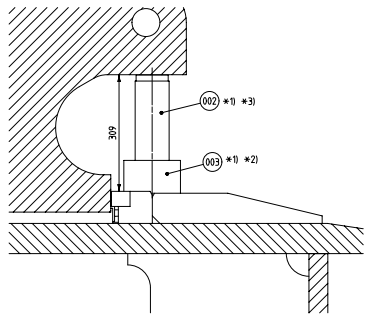
Countermeasure:
Avoid overloading of bedplate areas by observing the appropriate engine alignment/assembly procedure as follows:

- 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 of 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.

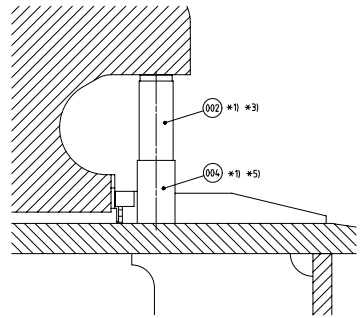
Remarks

- #1 To be provided by the shipyard
- #2 Height depending on the requirement (check thickness in correlation with maximum permissible extension of the hydraulic jack)
- #3 Hydraulic jack proposal
Type: Enerpac RCH-1003
Load at 700 bar: 931 kN

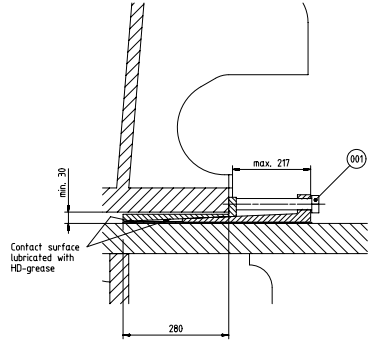
SECTION A-A
SCALE 1:5



SECTION B-B
SCALE 1:5



SECTION C-C
SCALE 1:5



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--|---|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|
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| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
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| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
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| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
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| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
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| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
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| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
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| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
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| 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | |
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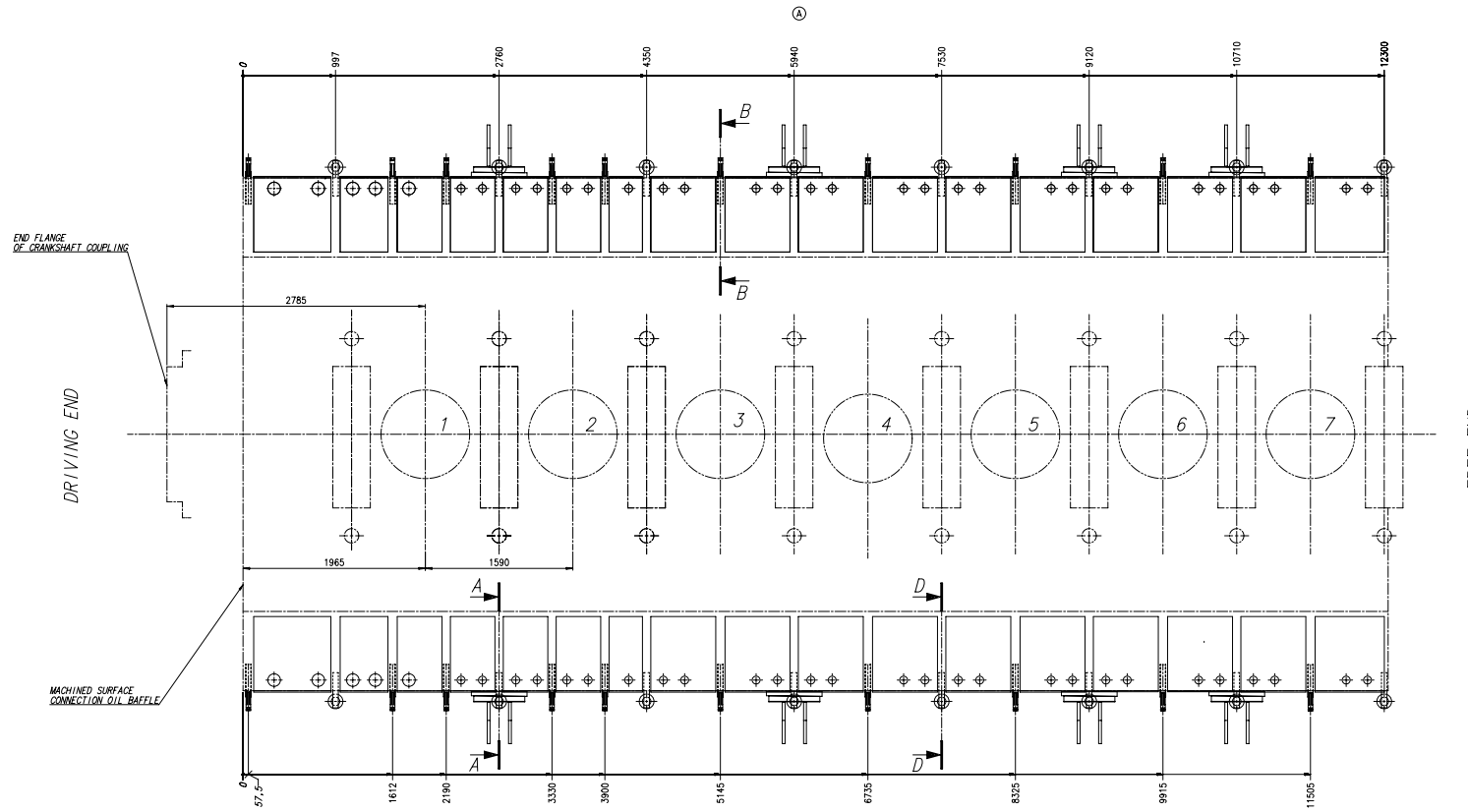
| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|-----------------|----------------|-----------|-------------|----------------|------------|
| 001 | 20 | 107.245.895.200 | WEDGE | | | | 8.51 |
| 003 | 16 | PAAD318478 | HYDRAULIC JACK | | | | |
| 004 | 8 | PAAD318479 | SUPPORT PLATE | | | | |
| 005 | 8 | PAAD318480 | SUPPORT BLOCK | | | | |

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|----------------|--------------------|---------|------------------------------|---------------|---------------|-----------------|----------------------------|
| Proc. | 7 X92-B 7 X92DF | | 7 X92DF-2.0 7 X92DF-A-1.0 | | 7 X92DF-M-1.0 | | |
| Change History | | | | | | | |
| | A | npa101 | mhu019 | 13.02.2024 | CNAA005217 | Drawing updated | 4 3 |
| | - | sde101 | mhu019 | 12.01.2021 | EAAD786939 | - | - - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved Activity Code E C |

| | |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|
|  | <h2>TOOL ENGINE ALIGNMENT</h2> <p>Alignment with: Wedges</p> |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|

| | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|----------------|---------|-------------------|------------|--------------|
| Bill Of Material | | Dimension | | | | | |
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| | Main Design | Yes | Design Group | 9710-01 | Q-Code | X X O | Standard WDS |
| | Qty per | Engine | A4 | Item ID | PAAD370399 | | BOM Page/s |



FREE END

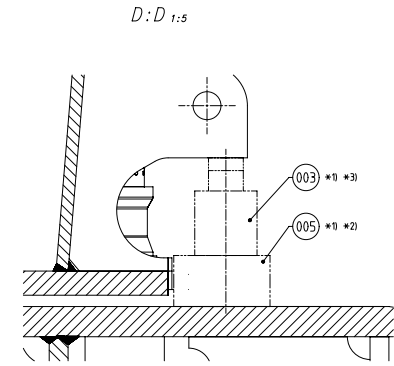
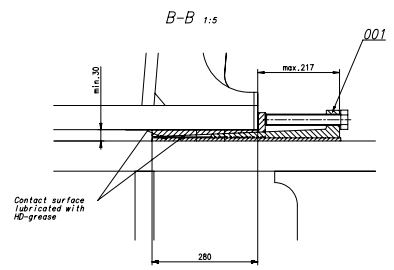
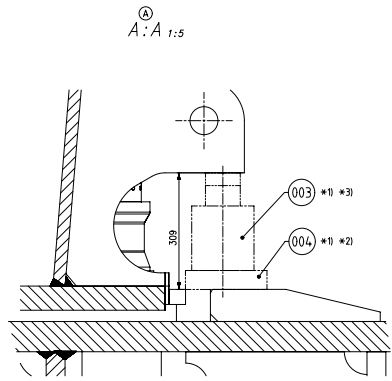
CAUTION
 Risks:
 Tool and/or bedplate damage

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 (check thickness in correlation with maximum permissible extension of the hydraulic jack)
- *3) Hydraulic jack proposal
 Type: Enerpac RHM-1003
 Load at 700 bar: 931 kN



| | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|
| DATE | | DRAWING NO. | | PROJECT NO. | |
| DATE | DESCRIPTION | DATE | DESCRIPTION | DATE | DESCRIPTION |
| 12/01/2021 | 001 | 12/01/2021 | 002 | 12/01/2021 | 003 |
| 12/01/2021 | 004 | 12/01/2021 | 005 | 12/01/2021 | 006 |
| 12/01/2021 | 007 | 12/01/2021 | 008 | 12/01/2021 | 009 |
| 12/01/2021 | 010 | 12/01/2021 | 011 | 12/01/2021 | 012 |
| 12/01/2021 | 013 | 12/01/2021 | 014 | 12/01/2021 | 015 |
| 12/01/2021 | 016 | 12/01/2021 | 017 | 12/01/2021 | 018 |
| 12/01/2021 | 019 | 12/01/2021 | 020 | 12/01/2021 | 021 |
| 12/01/2021 | 022 | 12/01/2021 | 023 | 12/01/2021 | 024 |
| 12/01/2021 | 025 | 12/01/2021 | 026 | 12/01/2021 | 027 |
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| 12/01/2021 | 034 | 12/01/2021 | 035 | 12/01/2021 | 036 |
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| 12/01/2021 | 061 | 12/01/2021 | 062 | 12/01/2021 | 063 |
| 12/01/2021 | 064 | 12/01/2021 | 065 | 12/01/2021 | 066 |
| 12/01/2021 | 067 | 12/01/2021 | 068 | 12/01/2021 | 069 |
| 12/01/2021 | 070 | 12/01/2021 | 071 | 12/01/2021 | 072 |
| 12/01/2021 | 073 | 12/01/2021 | 074 | 12/01/2021 | 075 |
| 12/01/2021 | 076 | 12/01/2021 | 077 | 12/01/2021 | 078 |
| 12/01/2021 | 079 | 12/01/2021 | 080 | 12/01/2021 | 081 |
| 12/01/2021 | 082 | 12/01/2021 | 083 | 12/01/2021 | 084 |
| 12/01/2021 | 085 | 12/01/2021 | 086 | 12/01/2021 | 087 |
| 12/01/2021 | 088 | 12/01/2021 | 089 | 12/01/2021 | 090 |
| 12/01/2021 | 091 | 12/01/2021 | 092 | 12/01/2021 | 093 |
| 12/01/2021 | 094 | 12/01/2021 | 095 | 12/01/2021 | 096 |
| 12/01/2021 | 097 | 12/01/2021 | 098 | 12/01/2021 | 099 |
| 12/01/2021 | 100 | 12/01/2021 | 101 | 12/01/2021 | 102 |
| 12/01/2021 | 103 | 12/01/2021 | 104 | 12/01/2021 | 105 |
| 12/01/2021 | 106 | 12/01/2021 | 107 | 12/01/2021 | 108 |
| 12/01/2021 | 109 | 12/01/2021 | 110 | 12/01/2021 | 111 |
| 12/01/2021 | 112 | 12/01/2021 | 113 | 12/01/2021 | 114 |
| 12/01/2021 | 115 | 12/01/2021 | 116 | 12/01/2021 | 117 |
| 12/01/2021 | 118 | 12/01/2021 | 119 | 12/01/2021 | 120 |
| 12/01/2021 | 121 | 12/01/2021 | 122 | 12/01/2021 | 123 |
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SOURCE PROTECTION SEE GROUP 004
 TOLERANCING FROM FILE 0005
 GENERAL TOLERANCES ACCORDING TO ISO 2768-MK

WINGD TOOL ENGINE ALIGNMENT
 Alignment with Wedges

Scale: 1:20
 Drawing updated
 9710-01
 PAAD370399

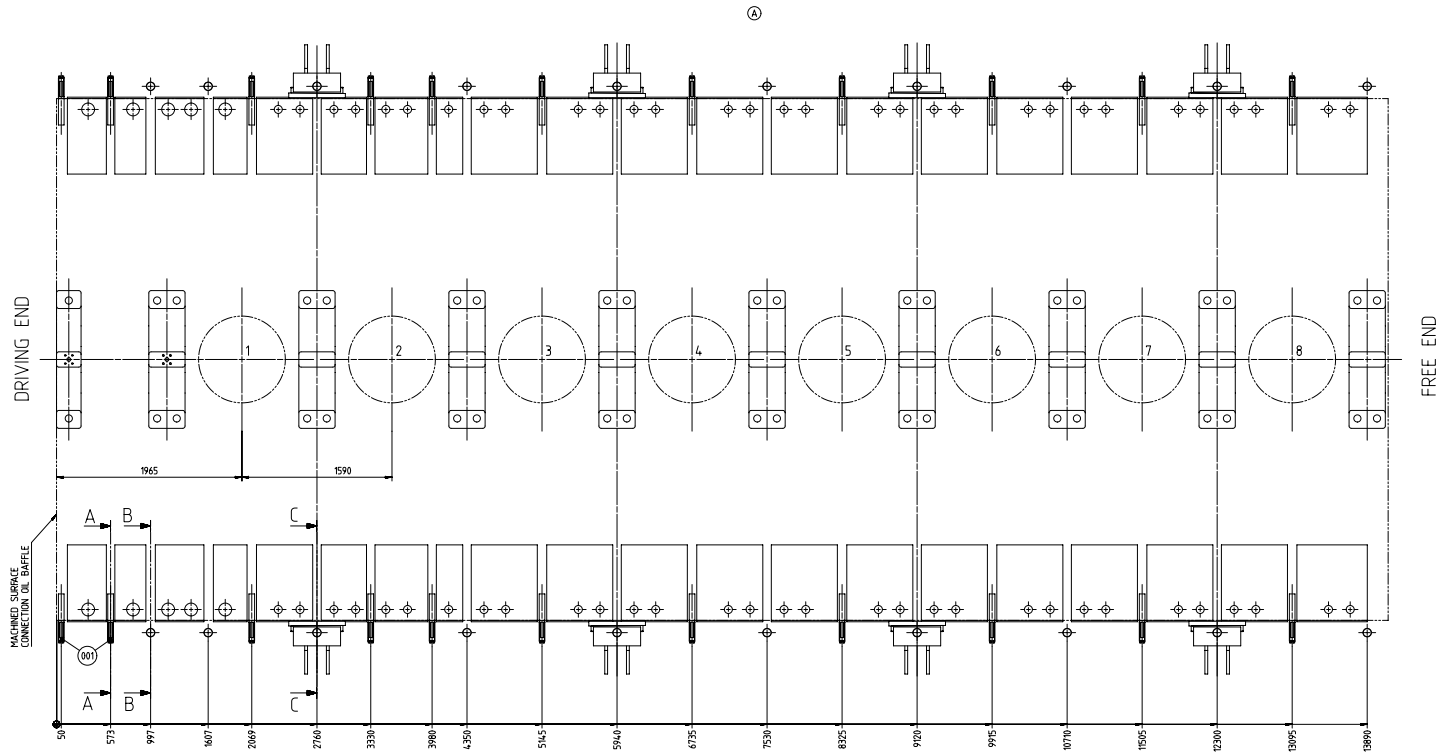
| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|-----------------|----------------|-----------|-------------|----------------|------------|
| 001 | 22 | 107.245.895.200 | WEDGE | | | | 8.51 |
| 002 | 20 | PAAD318478 | HYDRAULIC JACK | | | | |
| 003 | 12 | PAAD318480 | SUPPORT BLOCK | | | | |
| 004 | 8 | PAAD318479 | SUPPORT PLATE | | | | |



| | | | | | | | |
|----------------|--------------------|---------|------------------------------|---------------|------------|-----------------|----------------------------|
| Prod. | 8 X92-B 8 X92DF | | 8 X92DF-2.0 8 X92DF-M-1.0 | | | | |
| Change History | | | | | | | |
| | A | npa101 | mhu019 | 22.02.2024 | CNAA005327 | Drawing updated | 4 3 |
| | - | npa101 | mhu019 | 19.09.2023 | CNAA004488 | New MainDesign | - - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved Activity Code E C |

| | |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <h2>TOOL ENGINE ALIGNMENT</h2> <p>Alignment with: Wedges + Crankshaft Parts: 1</p> |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|------------------|
| Bill Of Material | | Dimension | |
| Copyright Winterthur Gas & Diesel Ltd. All rights reserved. By taking possession of the document the recipient recognizes and honours these rights. Neither the whole nor any part of this document may be used in any way for 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. | Units [m] [kg] | Basic Material | Net Weight 187 |
| Main Design Yes | Design Group 9710-01 | Q-Code X X M | Standard WDS |
| Qty per Engine | A4 | Item ID PTAA059869 | BOM Page/s 01/01 |



CAUTION

Risk:
Tool and/or bedplate damage

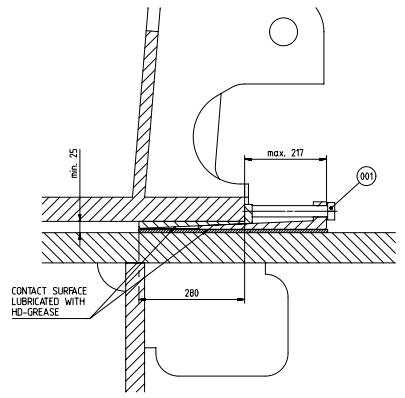
Countermeasure:
Avoid overloading of bedplate areas by observing the appropriate engine alignment/assembly procedure as follows:

- 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 to 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.

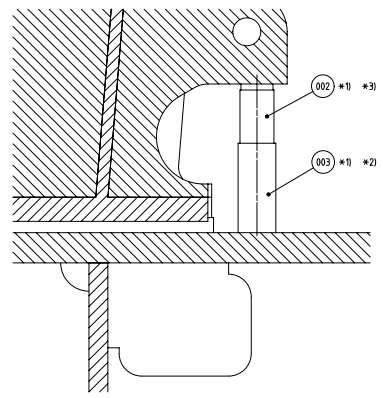
Remarks

- *1) To be provided by the shipyard.
- *2) Height depending on the requirement (check thickness in correlation with maximum permissible extension of the hydraulic jack).
- *3) Hydraulic jack proposal
Type: Enerpac RCH-1003
Load at 700 bar: 931 kN

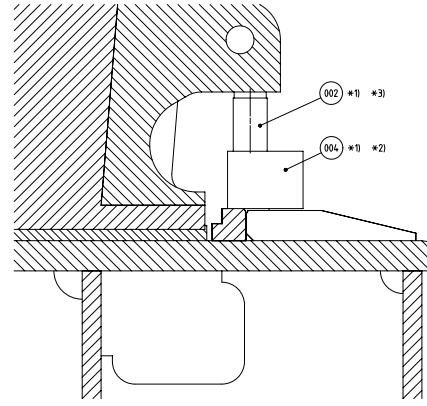
SECTION A-A $\odot 90^\circ$
SCALE 1:5



SECTION B-B $\odot 90^\circ$
SCALE 1:5



SECTION C-C $\odot 90^\circ$
SCALE 1:5



| | | | | | | | | | | | | | | | | | |
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| AW | AW | AW | AW | 1:5 | 10X | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Drawn</td> <td>Checked</td> <td>Design</td> <td>Drawn</td> <td>Scale</td> <td>Material</td> </tr> <tr> <td>AW</td> <td>AW</td> <td>AW</td> <td>AW</td> <td>1:5</td> <td>10X</td> </tr> </table> | | | | | | Drawn | Checked | Design | Drawn | Scale | Material | AW | AW | AW | AW | 1:5 | 10X |
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| AW | AW | AW | AW | 1:5 | 10X | | | | | | | | | | | | |
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| Drawn | Checked | Design | Drawn | Scale | Material | | | | | | | | | | | | |
| AW | AW | AW | AW | 1:5 | 10X | | | | | | | | | | | | |
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| Drawn | Checked | Design | Drawn | Scale | Material | | | | | | | | | | | | |
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| AW | AW | AW | AW | 1:5 | 10X | | | | | | | | | | | | |
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| AW | AW | AW | AW | 1:5 | 10X | | | | | | | | | | | | |
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| AW | AW | AW | AW | 1:5 | 10X | | | | | | | | | | | | |
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| AW | AW | AW | AW | 1:5 | 10X | | | | | | | | | | | | |
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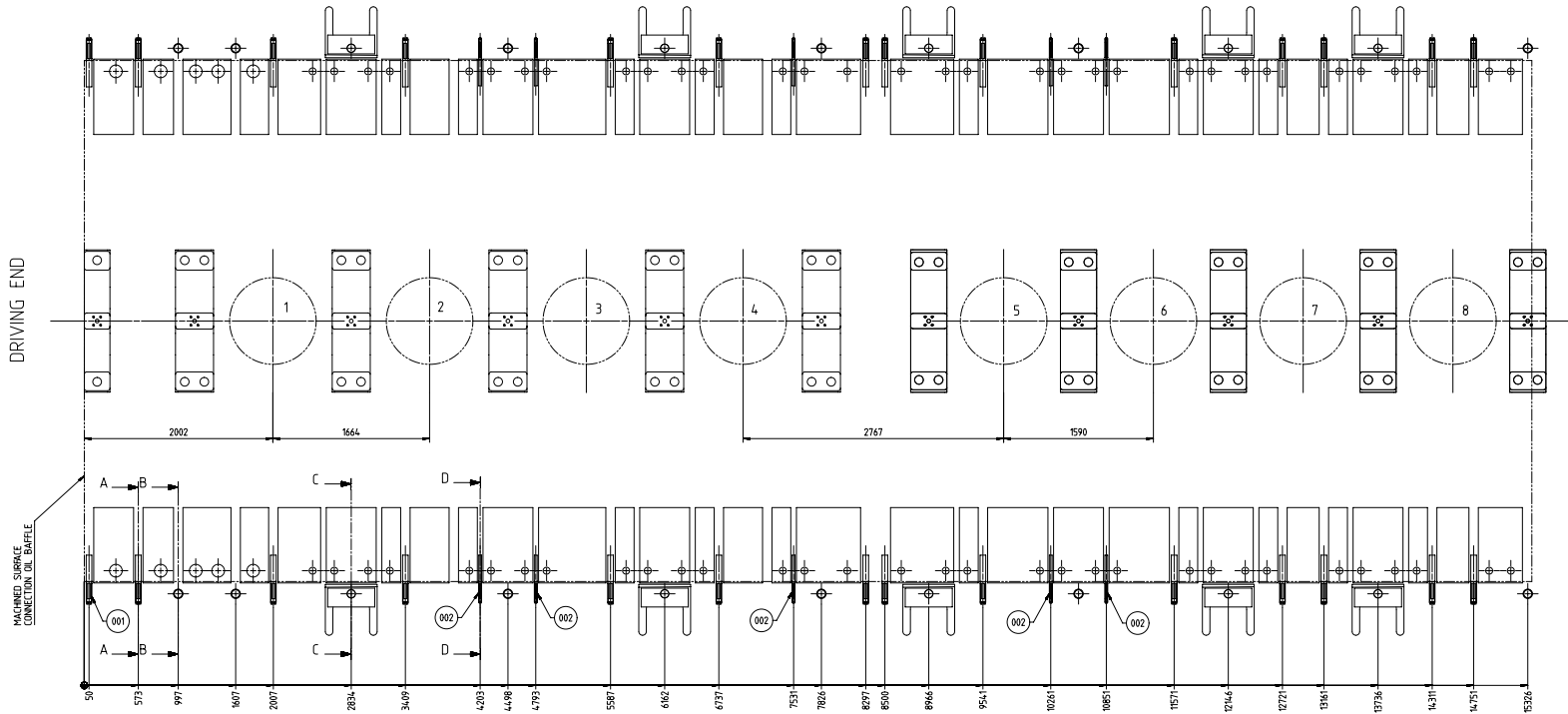
| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|-----------------|-----------------------|-------------|-------------|----------------|------------|
| 1 | 28 | 107.245.895.200 | WEDGE | | | | 8.51 |
| 2 | 10 | 107.424.346.200 | WEDGE | NARROW TYPE | | W-FU-235-JR | 3.8 |
| 3 | 1 | PAAD318478 | TOOL ENGINE ALIGNMENT | | | | 75 |
| 4 | 1 | PAAD318480 | TOOL ENGINE ALIGNMENT | | | | 75 |
| 5 | 1 | PAAD318479 | TOOL ENGINE ALIGNMENT | | | | 75 |



| | | | | | | | | |
|----------------|---------|---------|----------|---------------|------------|-----------------|----------|---------------|
| Prod. | 8 X92-B | | | | | | | |
| Change History | | | | | | | | |
| | | | | | | | | |
| | - | dkl021 | dst 009 | 21.07.2021 | CNAA000279 | new Drawing | | - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved | Activity Code |

| | |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|
|  | <h2>TOOL ENGINE ALIGNMENT</h2> <p>Alignment with: Wedges</p> |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-----------------------------------|
| Bill Of Material | | Dimension | |
| Copyright Winterthur Gas & Diesel Ltd. All rights reserved. By taking possession of the document the recipient recognizes and honours these rights. Neither the whole nor any part of this document may be used in any way for 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. | Units | [m] [kg] | Basic Material |
| | Main Design | Yes | Design Group 9710-01 Q-Code XXXXX |
| | Qty per | Engine A4 | Item ID PTAA003754 |
| | | | Net Weight 276.3 |
| | | | Standard WDS |
| | | | BOM Page/s 01/01 |



CAUTION

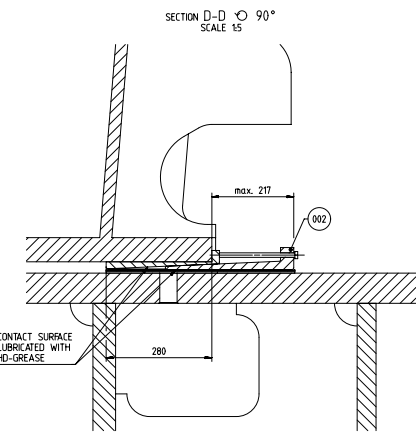
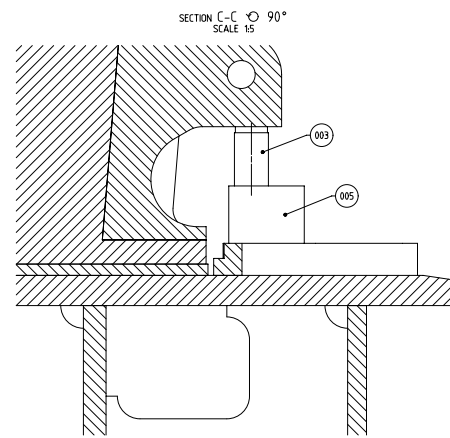
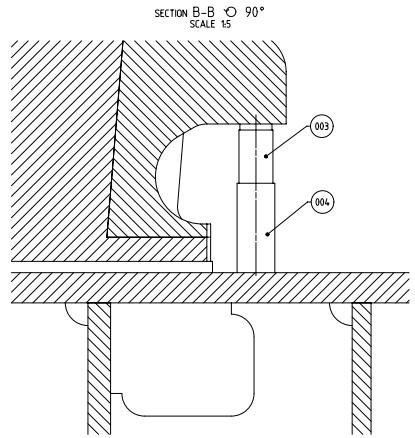
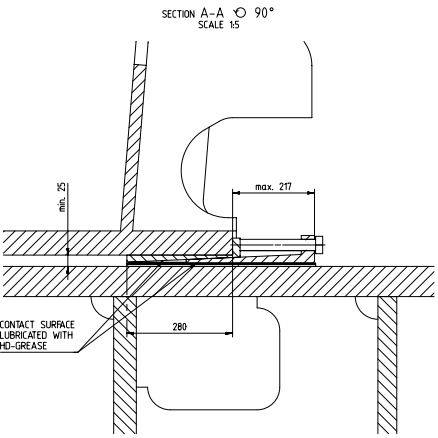
Risk:
Tool and/or bedplate damage

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.

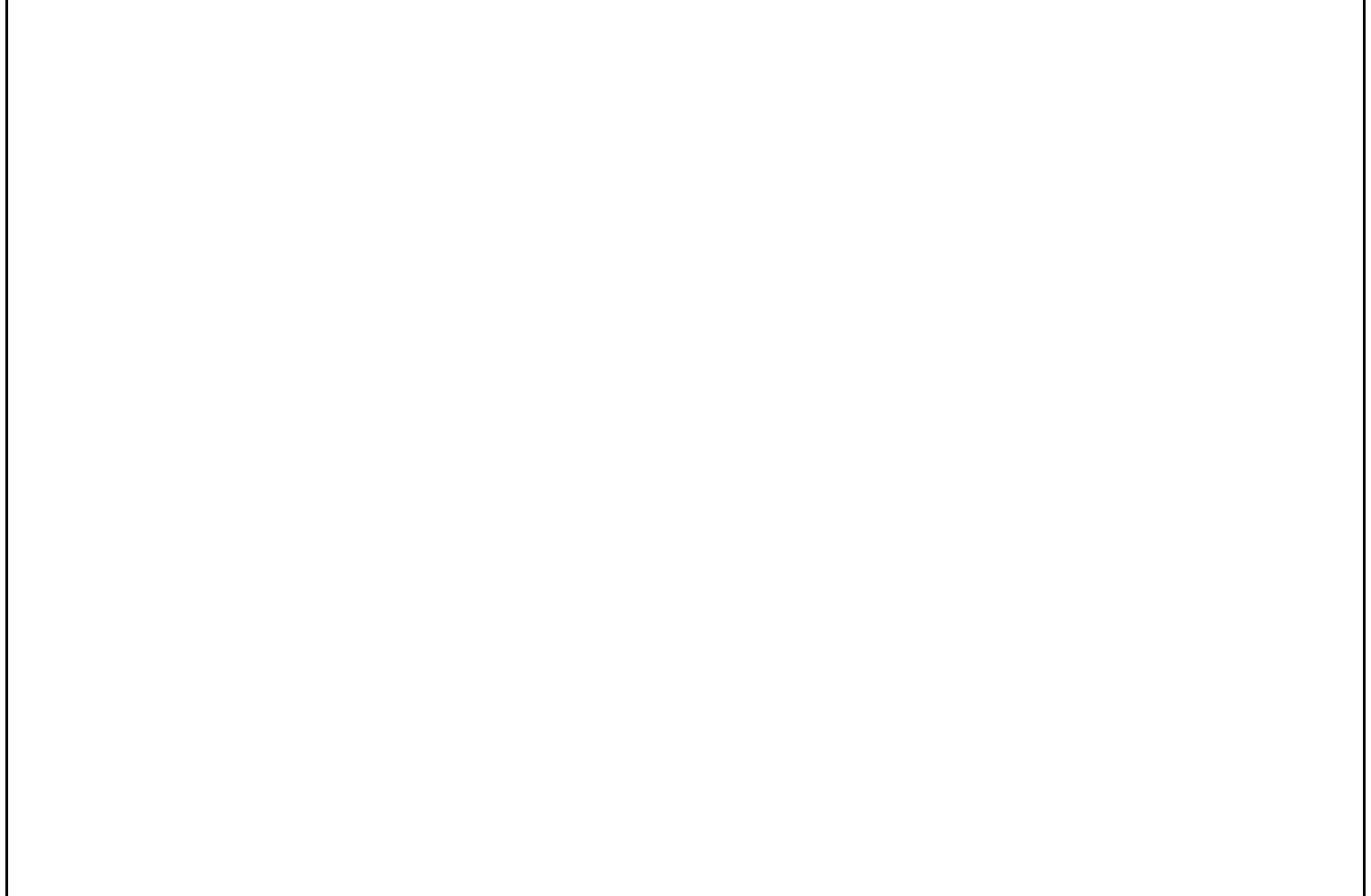
Remarks

- *1) To be provided by the shipyard.
- *2) Height depending on the requirement (check thickness in correlation with maximum permissible extension of the hydraulic jack).
- *3) Hydraulic jack proposal
Type: Enerpac RCH-1003
Load at 700 bar: 931 kN



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------|------------|------------------------------------------------|--------|-------------------------|----------|------|----|-------|-------|------------|------------|------------|--|--|--|--|--|----|--------|------|----------|-------------|--------|----------|----------|------|----|
| REV | | DATE | | BY | | CHK | | APP | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 40021 | 40000 | 2023-02-02 | 2000000270 | new Design | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR | DESIGN | DATE | QUANTITY | DESCRIPTION | STATUS | APPROVED | REVISION | DATE | BY | | | | | | | | | | | | | | | | | | | | |
| | | TOOL ENGINE ALIGNMENT Alignment with Wedges | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| separate BOM available | | Drawing Code | | Basic Material | | Part Weight: 276.3 | | | | | | | | | | | | | | | | | | | | | | | |
| Scale: 1:20 | | Unit: mm | | Tolerance: ITX | | Drawing Code: 9710-01 | | | | | | | | | | | | | | | | | | | | | | | |
| SOURCE PROTECTION SEE GROUP 004 | | TOLERANCING PROBLEMS FORBIDDEN | | DIMENSIONS TOLERANCES ACCORDING TO ISO 2768-MS | | Drawing Code: PTA003754 | | | | | | | | | | | | | | | | | | | | | | | |
| Max. Disp. 9710-01 | | Yes | | No | | Drawing Code: WDS | | | | | | | | | | | | | | | | | | | | | | | |
| Engine A0 | | Yes | | No | | Drawing Code: 1/1 | | | | | | | | | | | | | | | | | | | | | | | |

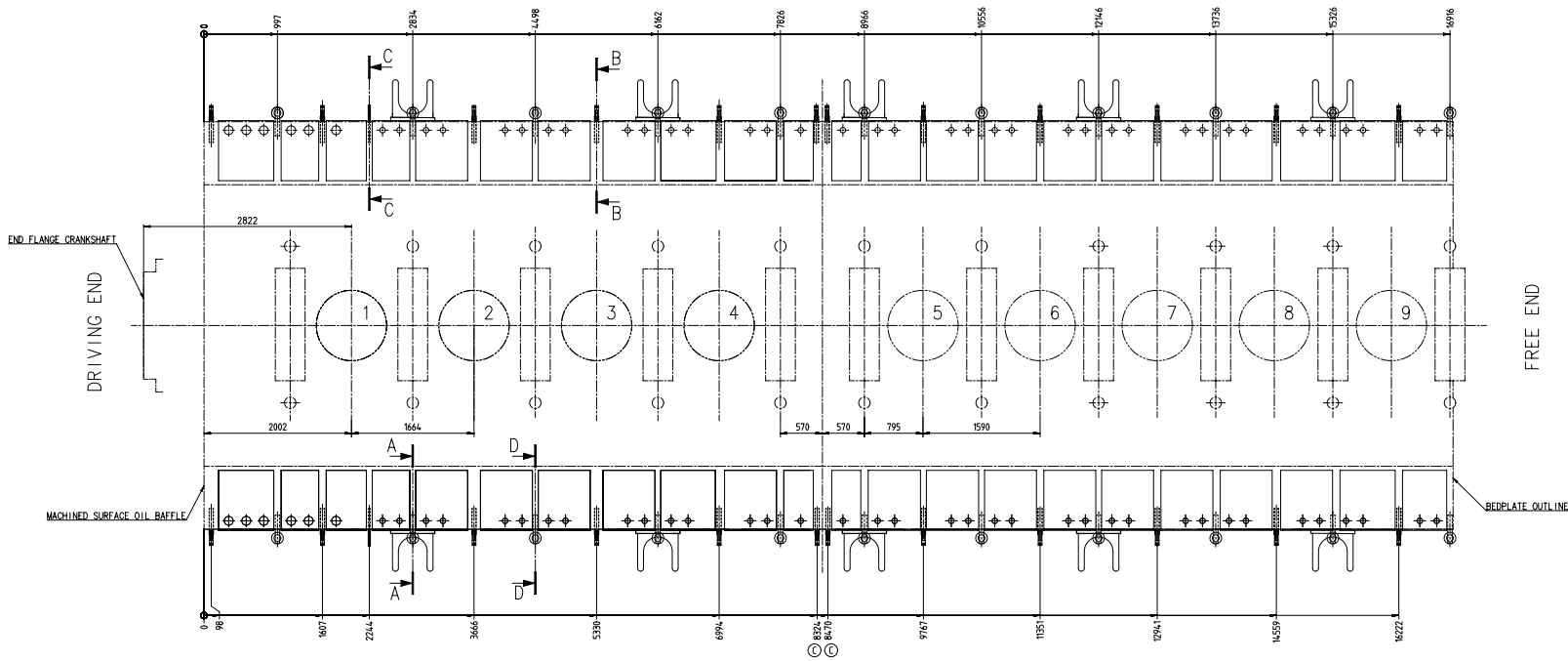
| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|-----------------|----------------|-------------|-------------|----------------|------------|
| 1 | 24 | 107.245.895.200 | WEDGE | | | | 7.511 |
| 2 | 2 | 107.424.346.200 | WEDGE | NARROW TYPE | | | 3.357 |
| 3 | 22 | PAAD318478 | HYDRAULIC JACK | | | | |
| 4 | 10 | PAAD318479 | SUPPORT PLATE | | | | |
| 5 | 12 | PAAD318480 | SUPPORT BLOCK | | | | |



| Prod. | 9 X92 9 X92-B | | 9 X92DF 9 X92DF-2.0 | | 9 X92DF-A-1.0 9 X92DF-M-1.0 | | | | |
|----------------|------------------|---------|------------------------|---------------|--------------------------------|----------------------------------------------------|----------|---------------|---|
| Change History | C | sde101 | mhu019 | 10.01.2023 | CNA002424 | Drawing Updated | | 4 | 3 |
| | B | sde101 | mhu019 | 17.01.2022 | CNA001401 | Drawing Updated | | 4 | 3 |
| | A | sde101 | mhu019 | 02.10.2019 | EAAD090713 | Legacy information. See corresponding ChangeNotice | | 4 | 3 |
| | - | sde101 | dst009 | 11.06.2018 | | - | | - | - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved | Activity Code | E |

| | |
|------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <h1>TOOL ENGINE ALIGNMENT</h1> <h2>Alignment with: Wedges</h2> |
|------------------------------------------------------------------------------------|----------------------------------------------------------------|

| Bill Of Material | | Dimension | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|--------------|----------------|--------|------------|----------|-----|
| Copyright Winterthur Gas & Diesel Ltd. All rights reserved. By taking possession of the document the recipient recognizes and honours these rights. Neither the whole nor any part of this document may be used in any way for 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. | | Units | [m] [kg] | Basic Material | | Net Weight | 211.8 | |
| Main Design | | Yes | Design Group | 9710-01 | Q-Code | XXXXX | Standard | WDS |
| Qty per | Engine | A4 | Item ID | PAAD295494 | | BOM Page/s | 01/01 | |



CAUTION

Risk:
Tool and/or bedplate damage

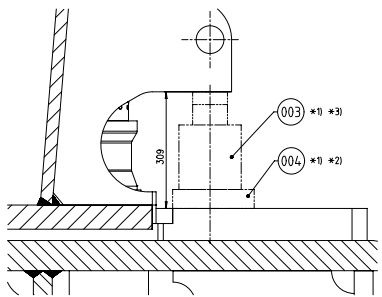
Countermeasure:
Avoid overloading of bedplate areas by observing the appropriate engine alignment/assembly procedure as follows:

- 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.

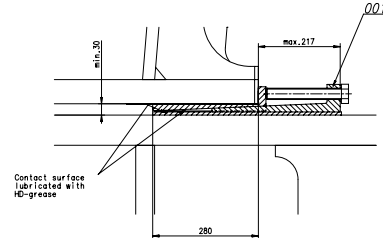
Remarks

- +1) To be provided by the shipyard
- +2) Height depending on the requirement (check thickness in correlation with maximum permissible extension of the hydraulic jack)
- +3) Hydraulic jack proposal
Type: Enerpac RCH-1003
Load at 700 bar: 931 kN

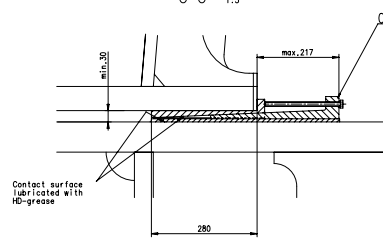
A:A 1:5



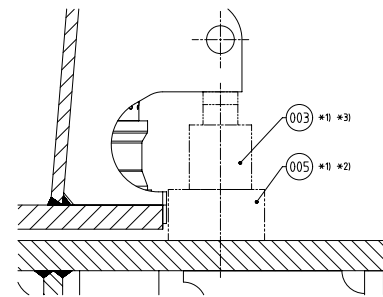
B-B 1:5



C-C 1:5



D:D 1:5




| Rev | Description | Date | By | Check |
|-----|-------------|----------|-------|-------|
| C | 01/2023 | 20230214 | WINGD | WINGD |
| B | 01/2022 | 20220214 | WINGD | WINGD |
| A | 01/2022 | 20220214 | WINGD | WINGD |
| 1 | 01/2022 | 20220214 | WINGD | WINGD |

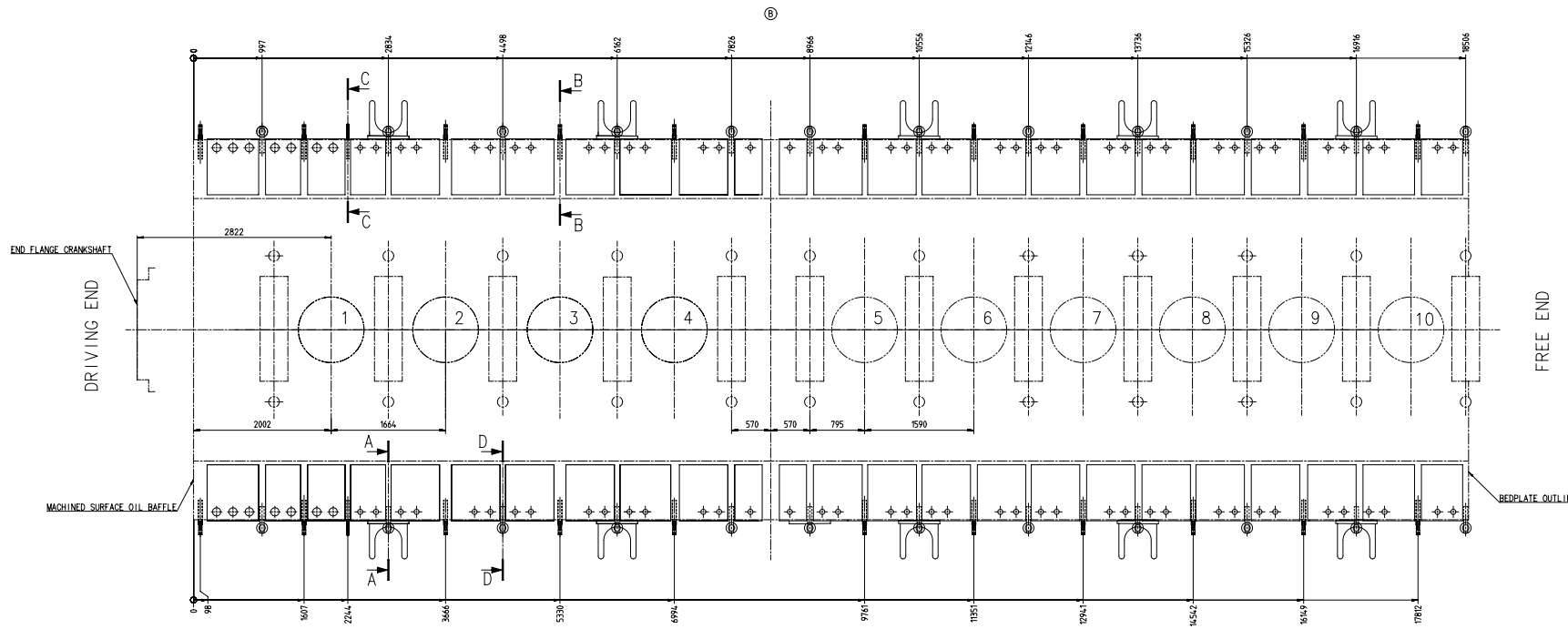
| | | | |
|------------------------------------|-------------|-------------------------------------------------------|-----------|
| WINGD Wingard & Olofsson | | TOOL ENGINE ALIGNMENT Alignment with Wedges | |
| Scale: 1:25 | Unit: [mm] | Proj: [] | Rev: 2118 |
| Material: [] | Design: [] | 9710-01 | XXXXX |
| Engine: AD | PAAD295494 | 22 | 23 |

| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|-----------------|----------------|-------------|-------------|----------------|------------|
| 1 | 26 | 107.245.895.200 | WEDGE | | | | 8.51 |
| 2 | 2 | 107.424.346.200 | WEDGE | NARROW TYPE | | W-FU-235-JR | 3.8 |
| 3 | 24 | PAAD318478 | HYDRAULIC JACK | | | | |
| 4 | 10 | PAAD318479 | SUPPORT PLATE | | | | |
| 5 | 14 | PAAD318480 | SUPPORT BLOCK | | | | |



| Prod. | 10 X92 10 X92-B | 10 X92DF 10 X92DF-2.0 | | | | | | | |
|----------------|--------------------|--------------------------|----------|---------------|------------|----------------------------------------------------|----------|---------------|---|
| Change History | B | ssh102 | mhu019 | 17.01.2022 | CNA001401 | Drawing Updated | | 4 | 3 |
| | A | sde101 | mhu019 | 02.10.2019 | EAAD090713 | Legacy information. See corresponding ChangeNotice | | 4 | 3 |
| | - | dk1021 | bha009 | 11.09.2015 | | - | | - | - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved | Activity Code | E |

| | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|----------|----------------|---------|------------|--------|------------|------------|-------|
|  | | <h1>TOOL ENGINE ALIGNMENT</h1> <p>Alignment with: Wedges</p> | | | | | | | | |
| Bill Of Material | | Dimension | | | | | | | | |
| <small>Copyright Winterthur Gas & Diesel Ltd. All rights reserved. By taking possession of the document the recipient recognizes and honours these rights. Neither the whole nor any part of this document may be used in any way for 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.</small> | | Units | [m] [kg] | Basic Material | | | | Net Weight | 228.9 | |
| | | Main Design | Yes | Design Group | | 9710-01 | Q-Code | XXXXX | Standard | WDS |
| | | Qty per | Engine | A4 | Item ID | PAAD202723 | | | BOM Page/s | 01/01 |



CAUTION
 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

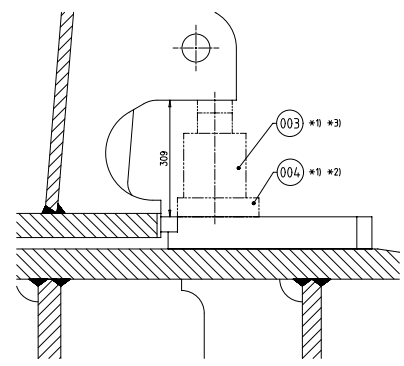
- 1) To be provided by the shipyard
- 2) Height depending on the requirement (check thickness in correlation with maximum permissible extension of the hydraulic jack)
- 3) Hydraulic jack proposal
 Type: Emerpac R01-1003
 Load at 700 bar: 931 kN

A-A 1:5

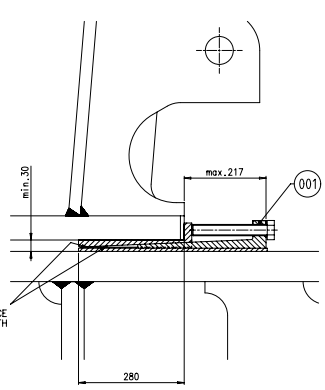
B-B 1:5

C-C 1:5

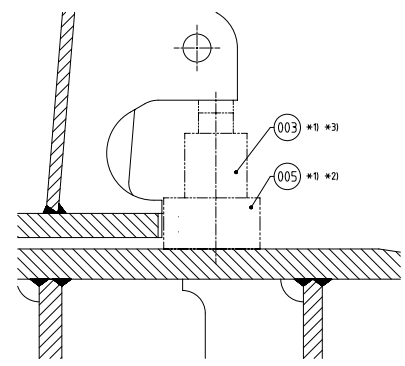
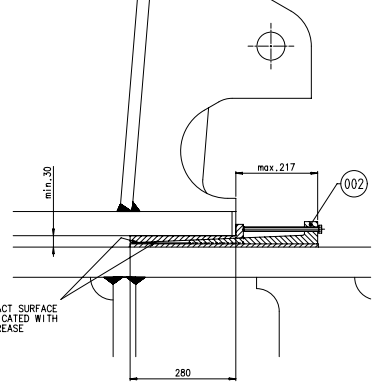
D-D 1:5



CONTACT SURFACE LUBRICATED WITH HD-GREASE



CONTACT SURFACE LUBRICATED WITH HD-GREASE



| | | | |
|---------------------------------------------|-----------------|-------------------------------|------------------------|
| WINGD | | TOOL ENGINE ALIGNMENT | |
| Alignment with Wedges | | | |
| Scale: 1:25 | Unit: [mm] [kg] | Basic Material: | Net Weight: 228.9 |
| separate BOM available | | | |
| Drawn: | Checked: | Design: | 9710-01 Scale: XXXXX |
| Man: | Yes | Design: | 9710-01 Scale: XXXXX |
| Eng: | Engine A0 | Part: | PAAD202723 |
| SOURCE PROTECTION SEE GROUP 0044 | | TOLERANCING PRINCIPLE ISO8015 | |
| DIMENSIONAL TOLERANCES ACCORDING TO ISO2768 | | | |

| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|-----------------|----------------|-----------|-------------|----------------|------------|
| 001 | 26 | 107.245.895.200 | WEDGE | | | | 8.51 |
| 003 | 28 | PAAD318478 | HYDRAULIC JACK | | | | |
| 004 | 12 | PAAD318479 | SUPPORT PLATE | | | | |
| 005 | 16 | PAAD318480 | SUPPORT BLOCK | | | | |

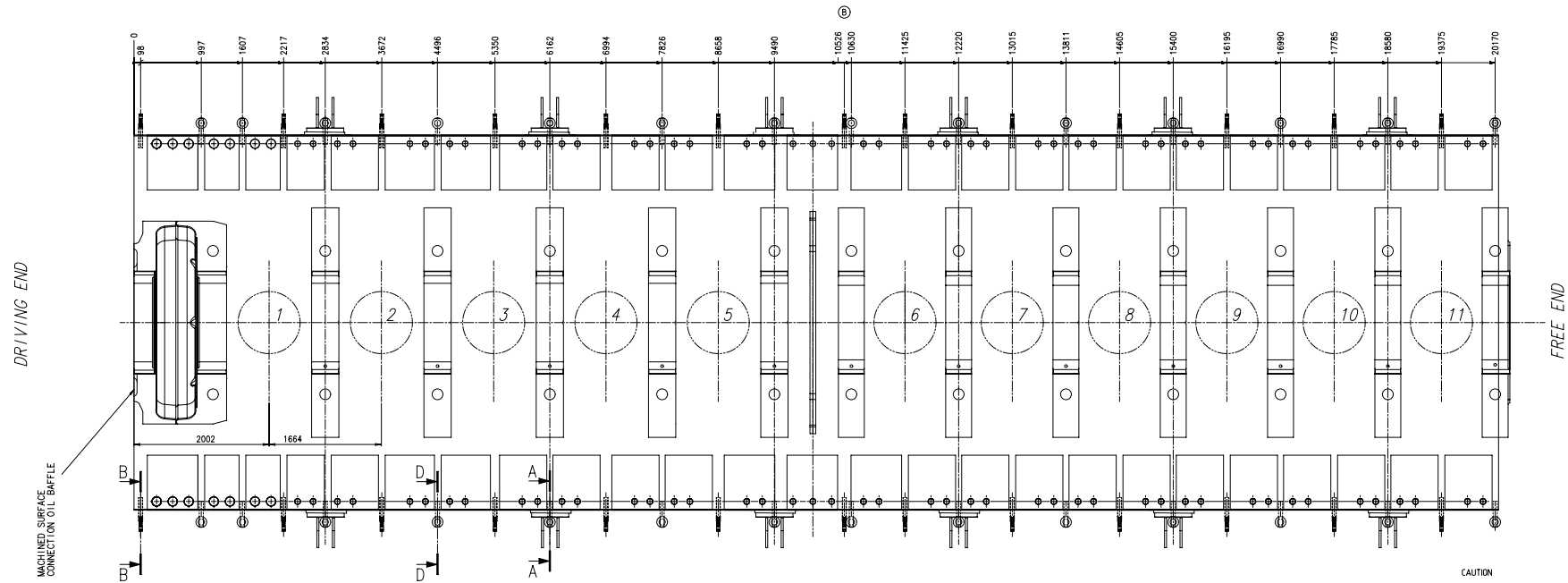
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|-------|--------------------|--------------------------|----------------|
| Prod. | 11 X92 11 X92-B | 11 X92DF 11 X92DF-2.0 | 11 X92DF-A-1.0 |
|-------|--------------------|--------------------------|----------------|

| Change History | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved | Activity Code | E | C |
|----------------|--------|---------|------------|---------------|----------------------------------------------------|-----------------|----------|---------------|---|---|
| | B | sj0101 | mhu019 | 13.02.2024 | CNA005217 | Drawing Updated | | | 4 | 3 |
| A | sde101 | mhu019 | 02.10.2019 | EAAD090713 | Legacy information. See corresponding ChangeNotice | | | 4 | 3 | |
| - | grpadm | bha009 | 11.09.2015 | EAAD778960 | - | | | - | - | |

| | |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|
|  | <h2>TOOL ENGINE ALIGNMENT</h2> <p>Alignment with: Wedges</p> |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|----------------|
| Bill Of Material | | Dimension | |
| Copyright Winterthur Gas & Diesel Ltd. All rights reserved. By taking possession of the document the recipient recognizes and honours these rights. Neither the whole nor any part of this document may be used in any way for 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. | Units | [m] [kg] | Basic Material |
| | Main Design | Yes | Design Group |
| | Qty per | Engine | A4 |
| | | | Item ID |
| | | | PAAD142162 |
| | | | Net Weight |
| | | | 221.3 |
| | | | Q-Code |
| | | | X X O |
| | | | Standard |
| | | | WDS |
| | | | BOM Page/s |
| | | | 01/01 |



CAUTION

Risk:
Tool and/or bedplate damage

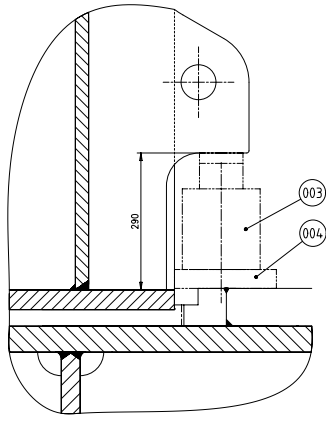
Countermeasure:
Avoid overloading of bedplate areas by observing the appropriate engine alignment/assembly procedure as follows:

- 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.

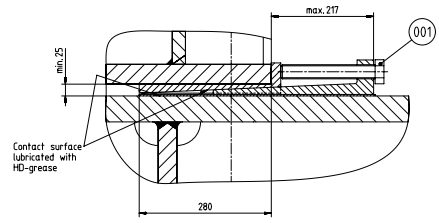
Remarks

- *1) To be provided by the shipyard
- *2) Height depending on the requirement (check thickness in correlation with maximum permissible extension of the hydraulic jack)
- *3) Hydraulic jack proposal
Type: Enerpac RCH-1003
Load at 700 bar: 931 kN

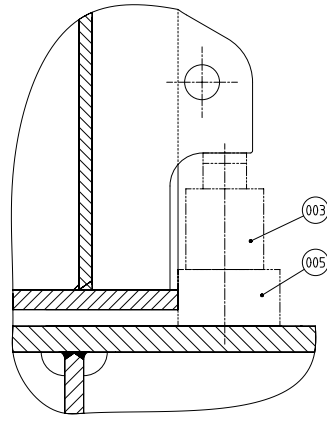
A-A 1:5



B-B 1:5



D-D 1:5



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------|-------|-----------|-------|-------|-------|-------------|-------------|-------|-----------|--------|-------|-----------------|-------|-------|-------|--------|-----------|----------------------------------------------------|--|--|--|--|-------|--|--|-------|--|-----------|--|------|--|--------|-----|--|--|--|--|------|--|--|---------|--|---------|--|-----|--|-------|-----------|--|--|--|--|------|--|--|-------------|--|---------|--|------|--|
| EQUIPMENT | | EQUIPMENT | | EQUIPMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT | | EQUIPMENT | | EQUIPMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>REV</td> <td>DATE</td> <td>DESCRIPTION</td> <td>BY</td> <td>CHK</td> <td>APP</td> </tr> <tr> <td>1</td> <td></td> <td>Drawing Updated</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>Legacy information. See corresponding ChangeNotice</td> <td></td> <td></td> <td></td> </tr> </table> | | | | | | REV | DATE | DESCRIPTION | BY | CHK | APP | 1 | | Drawing Updated | | | | 2 | | Legacy information. See corresponding ChangeNotice | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REV | DATE | DESCRIPTION | BY | CHK | APP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | Drawing Updated | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | Legacy information. See corresponding ChangeNotice | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOOL ENGINE ALIGNMENT Alignment with Wedges | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Scale</td> <td>1:25</td> <td>1:50</td> <td>1:100</td> <td>1:150</td> <td>1:200</td> <td>1:250</td> <td>1:300</td> <td>1:400</td> <td>1:500</td> <td>1:600</td> <td>1:800</td> <td>1:1000</td> </tr> <tr> <td>Sheet No.</td> <td colspan="5">9710-01</td> <td colspan="3">Scale</td> <td colspan="2">X X 0</td> <td colspan="2">Sheet No.</td> <td colspan="2">2213</td> </tr> <tr> <td>Design</td> <td colspan="5">Yes</td> <td colspan="3">Date</td> <td colspan="2">9710-01</td> <td colspan="2">Checked</td> <td colspan="2">WDS</td> </tr> <tr> <td>Appr.</td> <td colspan="5">Engine AD</td> <td colspan="3">Date</td> <td colspan="2">PAAD14/2162</td> <td colspan="2">Checked</td> <td colspan="2">Date</td> </tr> </table> | | | | | | Scale | 1:25 | 1:50 | 1:100 | 1:150 | 1:200 | 1:250 | 1:300 | 1:400 | 1:500 | 1:600 | 1:800 | 1:1000 | Sheet No. | 9710-01 | | | | | Scale | | | X X 0 | | Sheet No. | | 2213 | | Design | Yes | | | | | Date | | | 9710-01 | | Checked | | WDS | | Appr. | Engine AD | | | | | Date | | | PAAD14/2162 | | Checked | | Date | |
| Scale | 1:25 | 1:50 | 1:100 | 1:150 | 1:200 | 1:250 | 1:300 | 1:400 | 1:500 | 1:600 | 1:800 | 1:1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sheet No. | 9710-01 | | | | | Scale | | | X X 0 | | Sheet No. | | 2213 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Design | Yes | | | | | Date | | | 9710-01 | | Checked | | WDS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Appr. | Engine AD | | | | | Date | | | PAAD14/2162 | | Checked | | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>SEPARATE BDM available</p> <p>SOURCE PROTECTION SEE GROUP 04A</p> <p>TOLERANCES FROM THE ISO 2768</p> <p>FINISHES: TOLERANCES ACCORDING TO ISO 2768</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|-----------------|----------------|-----------|-------------|----------------|------------|
| 1 | 28 | 107.245.895.200 | WEDGE | | | | 8.51 |
| 3 | 30 | PAAD318478 | HYDRAULIC JACK | | | | |
| 4 | 12 | PAAD318479 | SUPPORT PLATE | | | | |
| 5 | 18 | PAAD318480 | SUPPORT BLOCK | | | | |

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|-------|--------------------|--------------------------|----------------------------------|
| Prod. | 12 X92 12 X92-B | 12 X92DF 12 X92DF-2.0 | 12 X92DF-A-1.0 12 X92DF-M-1.0 |
|-------|--------------------|--------------------------|----------------------------------|

| Change History | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved | Activity Code | E | C |
|----------------|--------|---------|------------|---------------|----------------------------------------------------|--------------------------------|----------|---------------|---|---|
| | B | sde101 | mhu019 | 01.02.2023 | CNAA003170 | Main Design/Drawing Introduced | | | 4 | 3 |
| A | sde101 | mhu019 | 02.10.2019 | EAAD090713 | Legacy information. See corresponding ChangeNotice | | | 4 | 3 | |
| - | dki021 | mhu019 | 17.11.2017 | EAAD782032 | - | | | - | - | |

| | |
|------------------------------------------------------------------------------------|---------------------------------------------------------------|
|  | <h2>TOOL ENGINE ALIGNMENT</h2> <h3>Alignment with Wedges</h3> |
|------------------------------------------------------------------------------------|---------------------------------------------------------------|

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-----------------------------------|
| Bill Of Material | | Dimension | |
| Copyright Winterthur Gas & Diesel Ltd. All rights reserved. By taking possession of the document the recipient recognizes and honours these rights. Neither the whole nor any part of this document may be used in any way for 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. | Units | [m] [kg] | Basic Material |
| | Main Design | Yes | Design Group 9710-01 Q-Code XXXXX |
| | Qty per | Engine A4 | Item ID PAAD279802 |
| | | | Net Weight 238.3 |
| | | | Standard WDS |
| | | | BOM Page/s 01/01 |

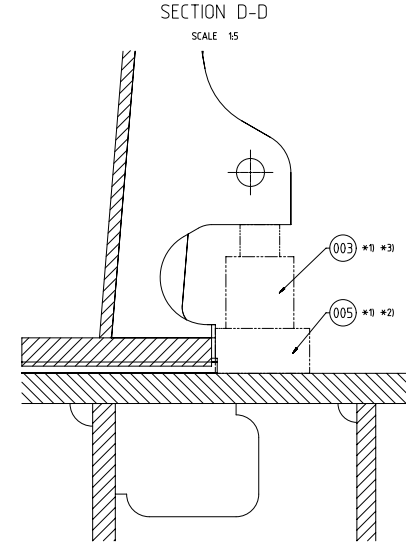
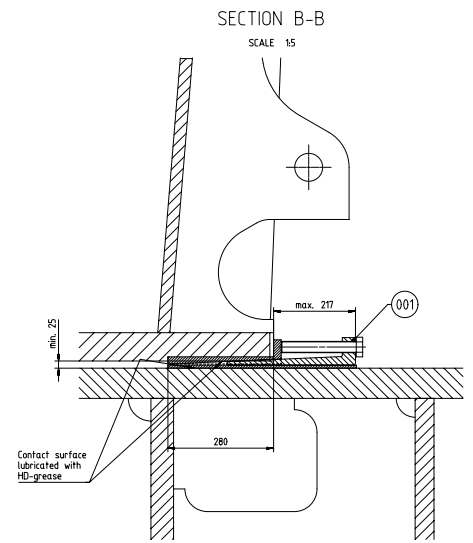
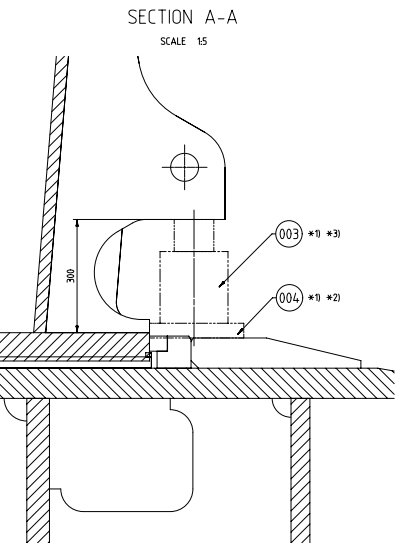
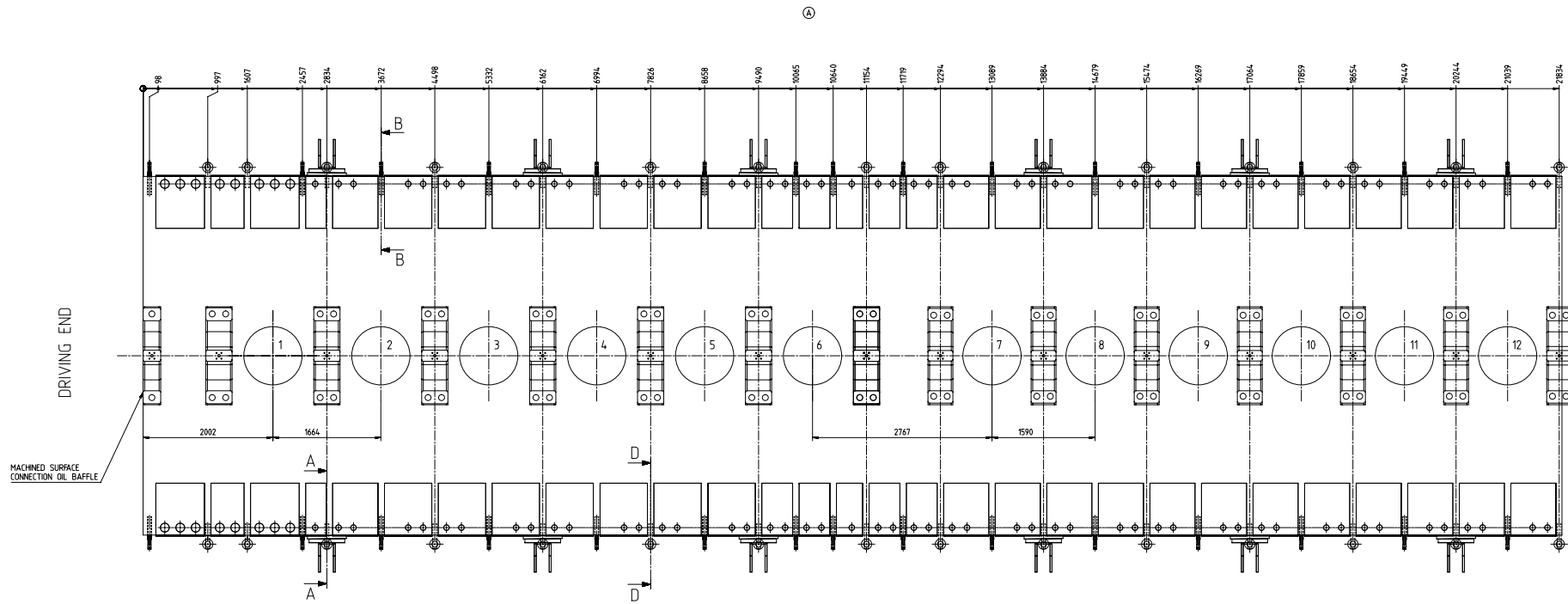
| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|-----------------|----------------|-----------|-------------|----------------|------------|
| 1 | 30 | 107.245.895.200 | WEDGE | | | | 7.511 |
| 3 | 30 | PAAD318478 | HYDRAULIC JACK | | | | |
| 4 | 12 | PAAD318479 | SUPPORT PLATE | | | | |
| 5 | 18 | PAAD318480 | SUPPORT BLOCK | | | | |



| | | | | | | | | |
|----------------|----------------------|---------|--------------|---------------|------------|-----------------|----------|---------------|
| Prod. | 12 X92-B 12 X92DF | | 12 X92DF-2.0 | | | | | |
| Change History | | | | | | | | |
| | A | sj0101 | mhu019 | 13.02.2024 | CNAA005217 | Drawing Updated | 4 | 3 |
| | - | sde101 | mhu019 | 16.02.2021 | EAAD787057 | - | - | - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved | Activity Code |

| | |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  | <h2>TOOL ENGINE ALIGNMENT</h2> <p>Alignment with: Wedges + STD bedplate split</p> |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-----------------------------------|
| Bill Of Material | | Dimension | |
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| | Main Design | Yes | Design Group 9710-01 Q-Code X X O |
| | Qty per | Engine A4 | Item ID PAAD374048 |
| | | | Net Weight 225.3 |
| | | | Standard WDS |
| | | | BOM Page/s 01/01 |



CAUTION

Risk:
Tool and/or bedplate damage

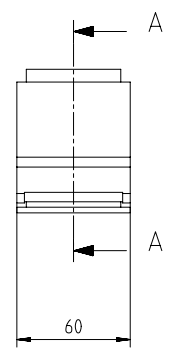
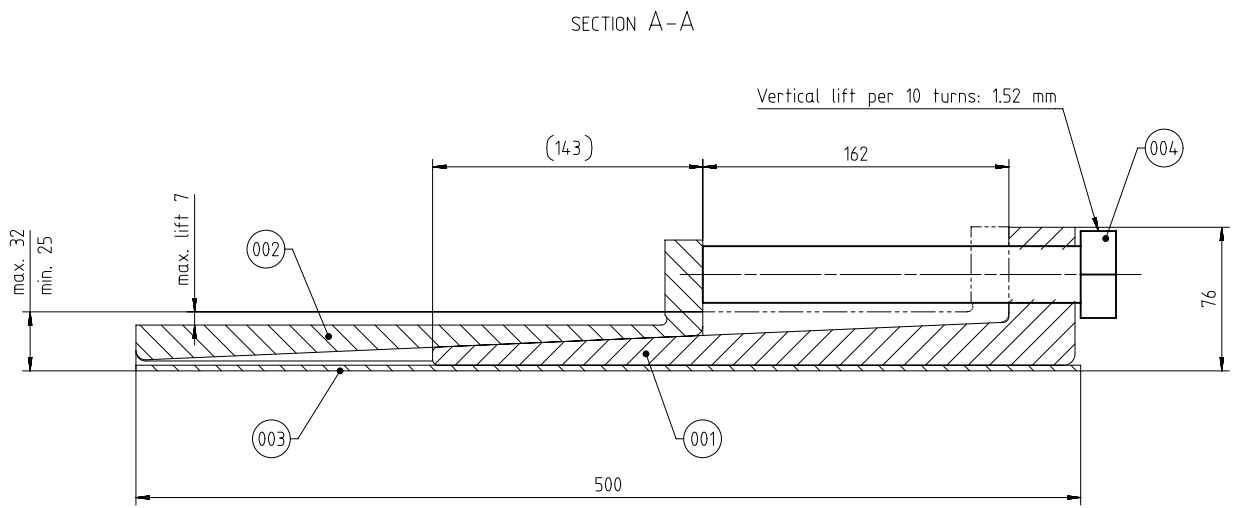
Countermeasure:
Avoid overloading of bedplate areas by observing the appropriate engine alignment/assembly procedure as follows:

- 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 (±mm) require a gradual process where all wedges and/or shims are successively adjusted in stages, to ensure the best possible load distribution.

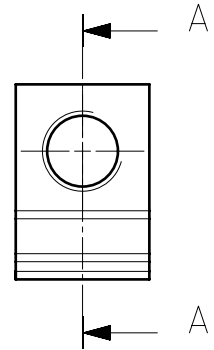
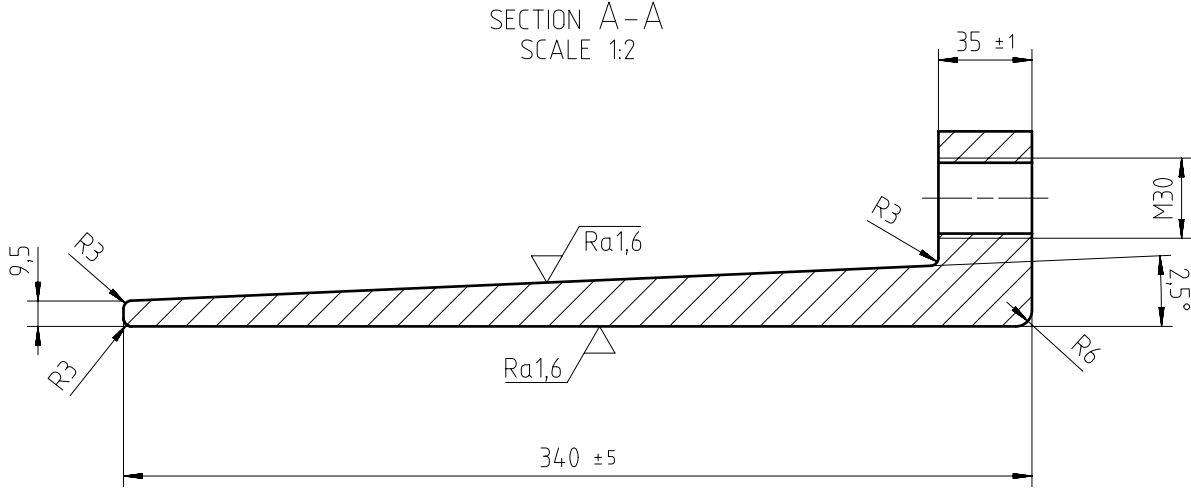
Remarks

- *1) To be provided by the shipyard
- *2) Height depending on the requirement (check thickness in correlation with maximum permissible extension of the hydraulic jack)
- *3) Hydraulic jack proposal
Type: Enerpac RCH-003
Load at 700 bar: 931 kN

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------|------------|
| 123456789101112131415161718192021222324 | | 123456789101112131415161718192021222324 | |
| A | 001 | 002 | 003 |
| A | 004 | 005 | 006 |
| <p>WINGD TOOL ENGINE ALIGNMENT Alignment with Wedges + STD bedplate split</p> <p>separate BOM available</p> <p>Scale: 1:25 1:50 1:100 1:200</p> <p>SOURCE PROTECTION SEE GROUP 00A</p> <p>TOLERANCING FROM FILE 03016</p> <p>DESIGN: TOLERANCES ACCORDING TO ISO2768-MS</p> | | | |
| Rev | Author | Checked | Released |
| 1 | 001 | 002 | 003 |
| Date: 19/01/2024 | | Date: 19/01/2024 | |
| Unit | Unit | Unit | Unit |
| mm | mm | mm | mm |
| Yes | Yes | Yes | Yes |
| Design | Design | Design | Design |
| 9710-01 | 9710-01 | 9710-01 | 9710-01 |
| PAAD374048 | PAAD374048 | PAAD374048 | PAAD374048 |
| Sheet | Sheet | Sheet | Sheet |
| 22 | 22 | 23 | 24 |
| <p>Net Weight: 225.3</p> <p>WDS</p> | | | |



| 1 | 004 | 015.151.048.701 | HEXAGON HEAD SCREW M30x200 | ISO 4017 | 88 | 1,21 | | | | | | |
|--------------------------------------------|--------|-----------------|-------------------------------|----------------|---------------------|------------------------------------------|----------------|------------|-------------|-----------------|------------|------------|
| 1 | 003 | 107.245.898.001 | PLATE | 107.245.898 | W-FU-235-JR | 1,0 | | | | | | |
| 1 | 002 | 107.246.894.001 | KEY | 107.246.894 | W-FU-235-JR | 3,0 | | | | | | |
| 1 | 001 | 107.246.895.001 | KEY | 107.246.895 | W-FU-235-JR | 3,3 | | | | | | |
| QTY | SEQ NO | Material ID | Material Name | Dimension, Occ | Standard or Drawing | Basic Material Material Standard | Weight GR./NET | | | | | |
| Free space for ill. | | | | | | Q-Code XXXXXX Standard ISO; JIS | Main Drw. | | | | | |
| Modif. | B | EAAD014493 | 05.02.2002 | C | 7-73552 | 19.10.2009 | D | EAAD084635 | 27.06.2013 | E | EAAD091472 | 11.11.2019 |
| | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | Drawn date | | |
| | | | Product W-2S | | WEDGE | | Schraeger Keil | | | | | |
| Units | mm kg | NX | Basic Material | | Net Weight 8,51 | | | | | | | |
| SURFACE PROTECTION SEE GROUP 0344 | | | Made | 10.07.1996 | D.Scheffler | | Scale | 1:2 | Size | A2 | Page | 1/1 |
| TOLERANCING PRINCIPLE ISO8015 | | | Chkd | | | Design Group | | | Material ID | 107.245.895.200 | | |
| GENERAL TOLERANCES ACCORDING TO ISO2768-mK | | | Appd | 30.08.1996 | WCH001 Service User | | 9710-01 | Drawing ID | 107.245.895 | | Rev. | E |



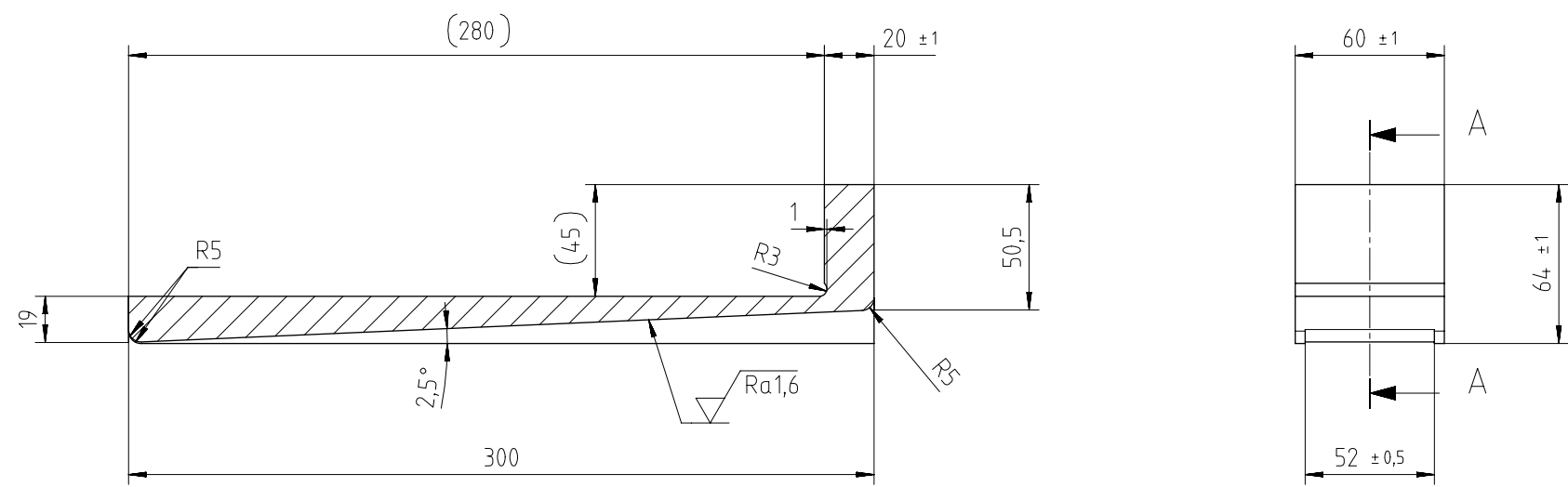
Ra50 (
 Ra1,6
)

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|----------------------------------------------|----------------------|------------|------------|-----------------|----------------------------|-----------------|--------------|----------------|--------|------------|
| Free space for lic. | Q-Code XXXXXX | | | | | | | Main Drw. | | |
| | Standard ISO; JIS | | | | | | | | | |
| Modif. | A | 7-73.552 | 19.10.2009 | B | EAAD091472 | 04.11.2019 | | | | |
| | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | Drawn date |
| WIN GD Winterthur Gas & Diesel | | | | Product W-2S | | KEY Keil | | | | |
| Units | mm kg | NX | | Basic Material | W-FU-235-JR | | | Net Weight 3,3 | | |
| SURFACE PROTECTION SEE GROUP 0344 | | | | Made | 16.05.2001 D.ADMINISTRATOR | | Scale | 1:2 | | |
| TOLERANCING PRINCIPLE ISO8015 | | | | Chkd | | | Design Group | 9710-01 | | |
| GENERAL TOLERANCES ACCORDING TO ISO2768-mK | | | | Appd | 27.12.2001 WDMS2 | | Size | A3 | Page | 1/1 |
| | | | | Drawing ID | | 107.246.895.001 | | | Rev. | B |

1 2 3 4 5 6 7 8

A
B
C
D
E
F

SECTION A-A
SCALE 1:2



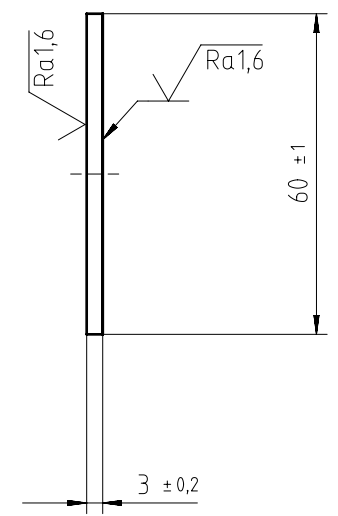
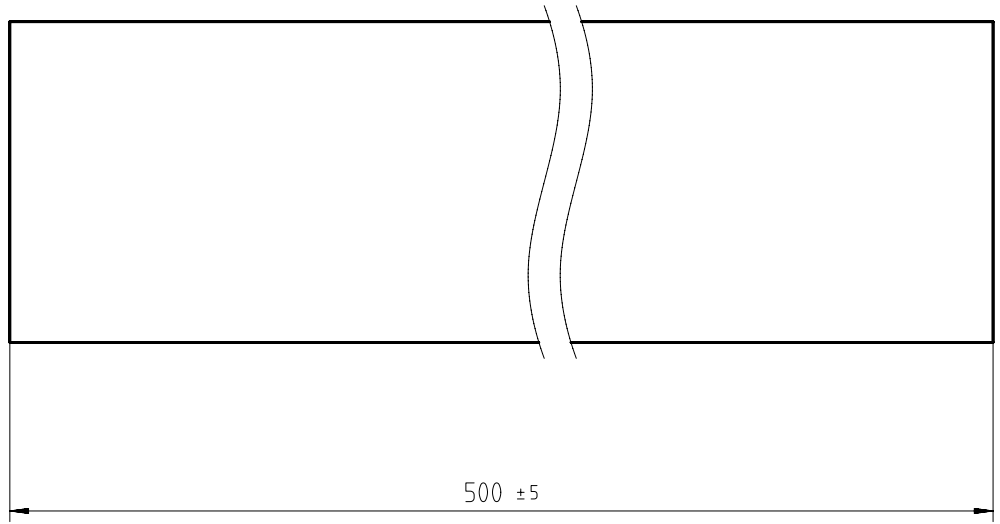
$\sqrt{Ra50}$ ($\sqrt{Ra1,6}$)

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|--------------------------------------------|--------------|------------|-----------------|----------------|-----------------|--------------|---------|----------------------|-----------------|
| Free space for lic. | | | | | | | | Q-Code XXXXXX | Main Drw. |
| | | | | | | | | Standard ISO; JIS | |
| Modif. | (A) 7-73.552 | 19.10.2009 | (B) EAAD091472 | 05.11.2019 | ○ | | ○ | | |
| | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | Drawn date | |
| | | | Product W-2S | | KEY Keil | | | | |
| Units | mm kg | NX | | Basic Material | | W-FU-235-JR | | Net Weight 3 | |
| SURFACE PROTECTION SEE GROUP 0344 | | | Made | 16.05.2001 | D.ADMINISTRATOR | | Scale | 1:2 | |
| TOLERANCING PRINCIPLE ISO8015 | | | Chkd | | | Design Group | 9710-01 | | |
| GENERAL TOLERANCES ACCORDING TO ISO2768-mK | | | Appd | 27.12.2001 | WDMS2 | | Size | A3 | |
| | | | | | Page | 1/1 | | Material ID | 107.246.894.001 |
| | | | | | Drawing ID | 107.246.894 | | Rev. | B |

Approved
DIM - DIMENSIONAL DRAWING - Confidential

1 2 3 4 5 6 7 8

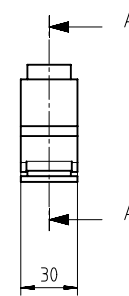
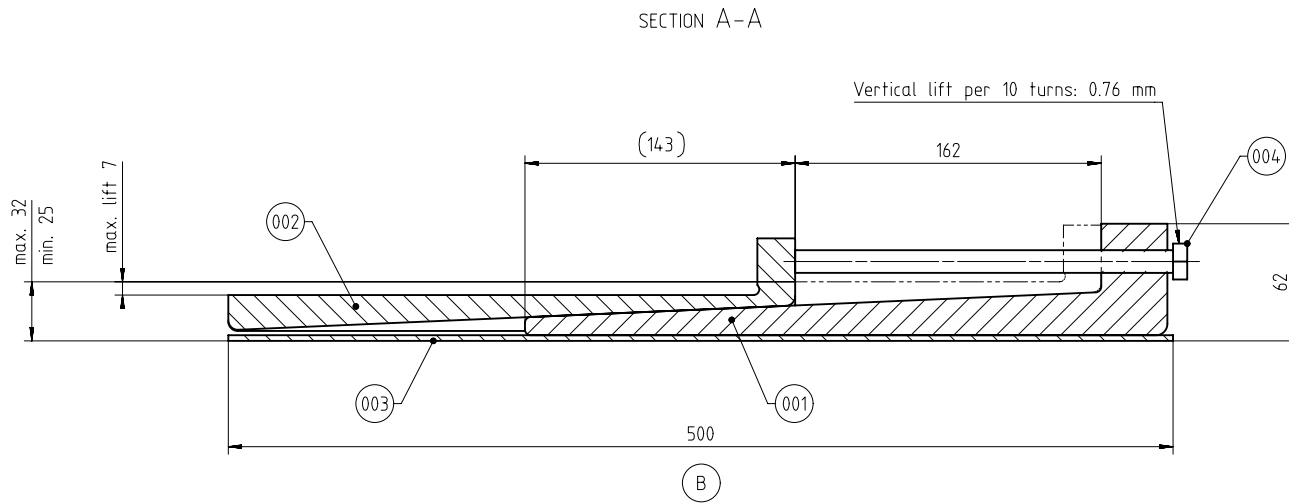
A
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$\sqrt{Ra50}$ ($\sqrt{Ra1,6}$)

| | | | | | | | | | | | | | | |
|--------------------------------------------|-------|-----------------|--------------------------|-------|----------------|-------------|--------|----------------------|--------------|------------|-----|-------------|-----------------|--|
| Free space for lic. | | | | | | | | Q-Code XXXXXX | Main Drw. | | | | | |
| | | | | | | | | Standard ISO; JIS | | | | | | |
| Modif. | A | EAAD014305 | 11.09.1996 | B | EAAD091472 | 05.11.2019 | | | | | | | | |
| | | Number | Drawn date | | Number | Drawn date | Number | Drawn date | Number | Drawn date | | | | |
| | | Product W-2S | | PLATE | | | | | | | | | | |
| | | | | Blech | | | | | | | | | | |
| Units | mm kg | NX | | | Basic Material | W-FU-235-JR | | | Net Weight 1 | | | | | |
| SURFACE PROTECTION SEE GROUP 0344 | | Made | 11.07.1996 D. Schaeffler | | Scale | 1:1 | | Size | A3 | Page | 1/1 | Material ID | 107.245.898.001 | |
| TOLERANCING PRINCIPLE ISO8015 | | Chkd | | | Design Group | 9710-01 | | Drawing ID | 107.245.898 | | | Rev. | B | |
| GENERAL TOLERANCES ACCORDING TO ISO2768-mK | | Appd | 22.07.1996 MLU011 Lüthi | | | | | | | | | | | |

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UID - DIMENSIONAL DRAWING - Confidential



| QTY | SEQ NO | Material ID | Material Name | Dimension, Occ | Standard or Drawing | Basic Material Material Standard | Weight GR./NET |
|-----|--------|-----------------|-------------------------------|----------------|---------------------|----------------------------------|----------------|
| 1 | 004 | 015.151.040.701 | HEXAGON HEAD SCREW M12x200 | | ISO 4017 | 88 | 0,156 |
| 1 | 003 | FAAD34.3262 | PLATE | | DAAD1234.06 | W-FU-235-JR | 0,4 |
| 1 | 002 | 107.424.348.001 | KEY | | 107.424.348 | W-FU-235-JR | 1,5 |
| 1 | 001 | 107.424.347.001 | KEY | | 107.424.347 | W-FU-235-JR | 1,7 |

| Modif. | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | Drawn date |
|--------|------------|------------|--------|------------|------------|------------|--------|------------|
| A | EAAD084635 | 27.06.2013 | B | EAAD091472 | 06.11.2019 | | | |

Free space for ill.

Q-Code
XXXXXX
Standard
ISO; JIS

Main Drw.

Product
W-2S

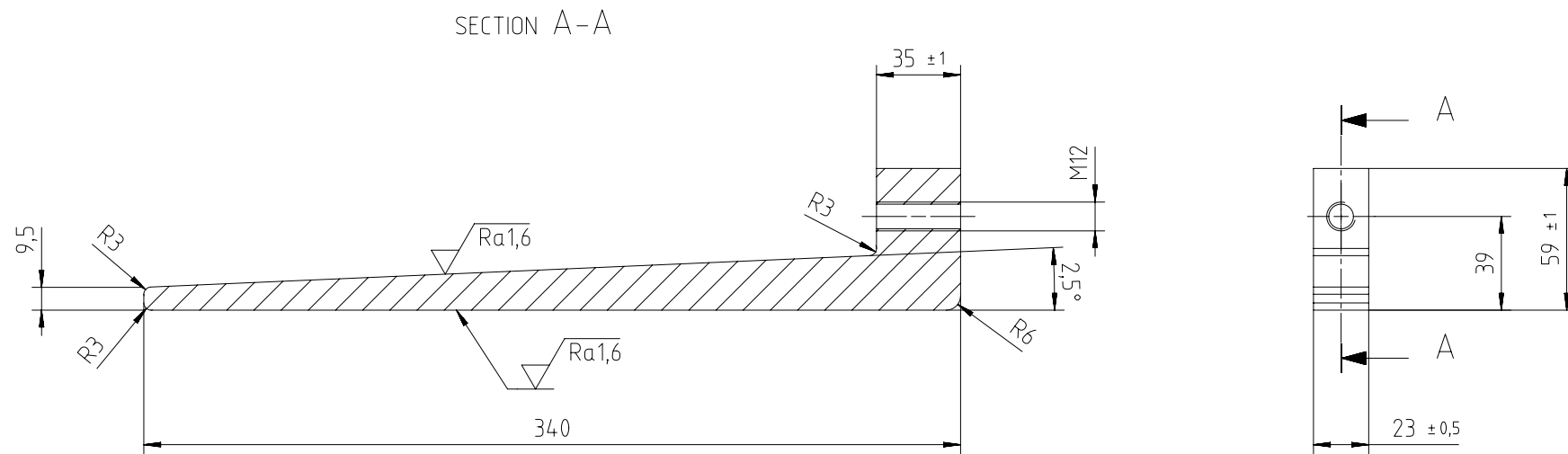
WEDGE
Schraeger Keil

Units mm kg NX

Basic Material W-FU-235-JR

Net Weight 3,8

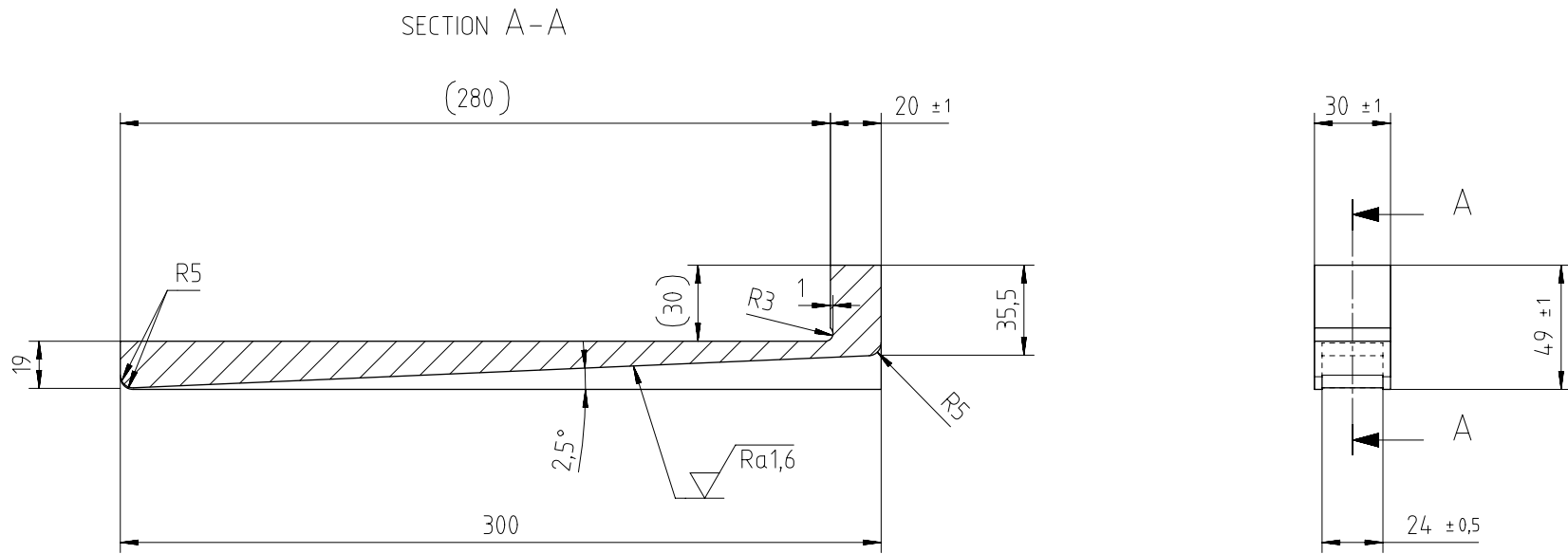
| | | | | | | | | | | | | |
|--------------------------------------------|------|------------|--------|-----------|--------------|-----|------------|-------------|------|-----|-------------|-----------------|
| SURFACE PROTECTION SEE GROUP 0344 | Made | 05.08.2009 | jba029 | J.BAUMANN | Scale | 1:2 | Size | A2 | Page | 1/1 | Material ID | 107.424.346.200 |
| TOLERANCING PRINCIPLE ISO8015 | Chkd | | | | Design Group | | Drawing ID | 107.424.346 | Rev. | B | | |
| GENERAL TOLERANCES ACCORDING TO ISO2768-mK | Appd | 28.09.2009 | JBA029 | Baumann | 9710-01 | | | | | | | |



$\sqrt{\text{Ra}50}$ ($\sqrt{\text{Ra}1,6}$)

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|--------------------------------------------|----------------------|------------|---------------------------|----------------------------|--------------|------------|--------|----------------|--------------|-----|-------------|-----------------|
| Free space for lic. | Q-Code XXXXXX | | | | | | | | Main Drw. | | | |
| | Standard ISO; JIS | | | | | | | | | | | |
| Modif. | A | EAAD091472 | 05.11.2019 | | | | | | | | | |
| | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | | | |
| | | | | Product W-2S | | KEY | | | | | | |
| | | | | | | Keil | | | | | | |
| Units | mm kg | NX | | Basic Material W-FU-235-JR | | | | Net Weight 1,7 | | | | |
| SURFACE PROTECTION SEE GROUP 0344 | | Made | 05.08.2009 J.BAUMANN | | Scale | 1:2 | Size | A3 | Page | 1/1 | Material ID | 107.424.347.001 |
| TOLERANCING PRINCIPLE ISO8015 | | Chkd | | | Design Group | 9710-01 | | Drawing ID | 107.424.347 | | Rev. | A |
| GENERAL TOLERANCES ACCORDING TO ISO2768-mK | | Appd | 28.09.2009 JBA029 Baumann | | | | | | | | | |

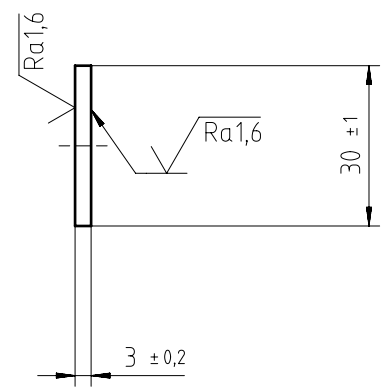
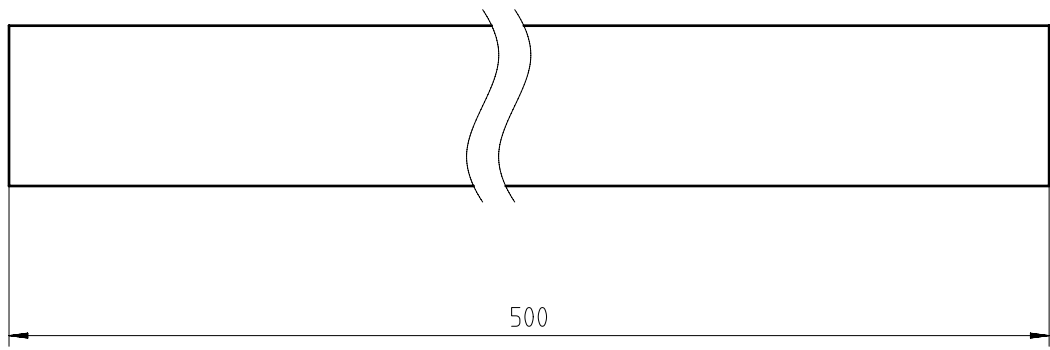
UID - DIMENSIONAL DRAWING - Confidential



$\sqrt{Ra50}$ ($\sqrt{Ra1,6}$)

| | | | | | | | | | | | | | | |
|---------------------------------------------------------|--------|------------|---------------------------|-----------------|----------------------------|-----------------|---------|------------|----------------------|--------------|-------------|-------------|-----------------|---|
| Free space for lic. | | | | | | | | | Q-Code XXXXXX | Main Drw. | | | | |
| | | | | | | | | | Standard ISO; JIS | | | | | |
| Modif. | A | EAAD091472 | 06.11.2019 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | |
| | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | Drawn date | | | | |
| WIN GD <i>Winterthur Gas & Diesel</i> | | | | Product W-2S | | KEY Keil | | | | | | | | |
| Units | mm kg | NX | | | Basic Material W-FU-235-JR | | | | Net Weight 1,5 | | | | | |
| SURFACE PROTECTION SEE GROUP 0344 | | Made | 05.08.2009 J.BAUMANN | | Scale | 1:2 | | Size | A3 | Page | 1/1 | Material ID | 107.424.348.001 | |
| TOLERANCING PRINCIPLE ISO8015 | | Chkd | | | Design Group | | 9710-01 | | Drawing ID | | 107.424.348 | | Rev. | A |
| GENERAL TOLERANCES ACCORDING TO ISO2768-mK | | Appd | 28.09.2009 JBA029 Baumann | | | | | | | | | | | |

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$\sqrt{Ra50}$ ($\sqrt{Ra1,6}$)

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|--------------------------------------------|--------|-----------------|--------------------------|--------------------|--------------|-------------|------------|----------------------|--------------|
| Free space for lic. | | | | | | | | Q-Code XXXXXX | Main Drw. |
| | | | | | | | | Standard ISO; JIS | |
| Modif. | ○ | | ○ | | ○ | | ○ | | |
| | Number | Drawn date | Number | Drawn date | Number | Drawn date | Number | Drawn date | |
| | | Product W-2S | | PLATE Blech | | | | | |
| Units | mm kg | NX | | Basic Material | W-FU-235-JR | | | Net Weight 0,4 | |
| SURFACE PROTECTION SEE GROUP 0344 | | Made | 06.11.2019 dki021 DH.Kim | | Scale | 1:1 | | Size A3 | |
| TOLERANCING PRINCIPLE ISO8015 | | Chkd | 26.11.2019 jpi101 Pickup | | Design Group | 1/1 | | | |
| GENERAL TOLERANCES ACCORDING TO ISO2768-mK | | Appd | 02.12.2019 mhu019 Hug | | 9710-01 | Material ID | PAAD343262 | | |
| | | | | | Drawing ID | DAAD123406 | | Rev. | |
| | | | | | - | | | | |

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Approved

MIDS – Tool Engine Alignment (DG9710-01)

WinGD X92-B/DF/DF-2.0

TRACK CHANGES

| DATE | SUBJECT | DESCRIPTION |
|------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 2017-01-13 | DRAWING SET | First web upload |
| 2017-11-17 | DAAD094562 | Tool Arrangement, 12cyl drg - new added |
| 2018-06-13 | DAAD100823 | Tool Arrangement, 9cyl drg - new added |
| 2019-10-03 | DAAD044462 DAAD044255 DAAD094562 DAAD070098 DAAD100823 | Tool Arrangement drgs - new revision |
| 2020-09-29 | DAAD044462 107.245.895 107.246.895 107.246.894 107.245.898 107.424.346 107.424.347 107.424.348 | System and wedge assembly drgs – new revision |
| 2021-01-13 | DAAD137841 | Drawing set for 7 cyl. engine variant - added |
| 2021-02-17 | DAAD139723 | Drawing set for 12 cyl. with weight levelled split design - added |
| 2021-07-21 | PTAA003754 | 8X92-B, 2-part CS, mid drive – new drawing |
| 2022-01-20 | PAAD202723 PAAD295494 | Main drgs – new revisions |
| 2022-01-20 | PAAD295494 | Main drg – new revision |
| 2023-01-12 | PAAD295494 | Main drg – new revision |

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| | | |
|------------|----------------------------------------------|--------------------------|
| 2023-02-01 | PAAD279802-B | Main drg – new revision |
| 2023-11-20 | PAAD279802-B | New MIDS-master revision |
| 2024-02-15 | PAAD374048-A PAAD142162-B PAAD370399-A | New revision |
| 2024-02-22 | PTAA059869-A | New revision |
| 2024-10-18 | PTAA117991_ | New execution for 6 Cyl. |

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