



KUM HWA

FOR

☐ APPROVAL ☐ WORKING ☒ FINAL

DATE :  
01-Oct-08

**Title :**

9,225 KG ANCHOR DETAIL DRAWING  
FOR  
HIGH HOLDING POWER TYPE  
STOCKLESS ANCHOR

**Customer :**

HYUNDAI SAMHO HEAVY INDUSTRIES CO.,LTD

**Project No. : S371/72**

**Project Name :**

4,400 TEU CLASS CONTAINER CARRIER

**Classification Society : B.V**

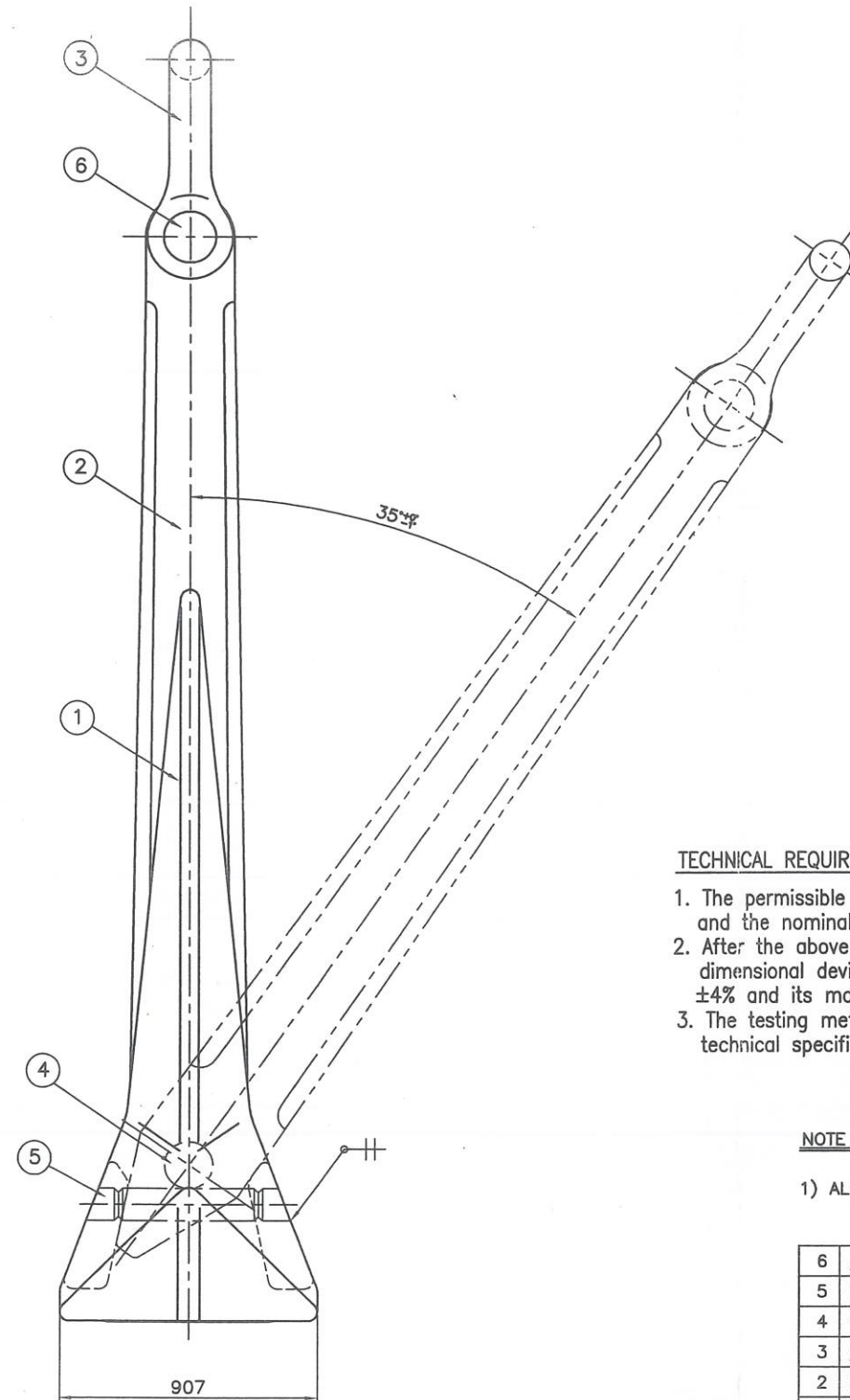
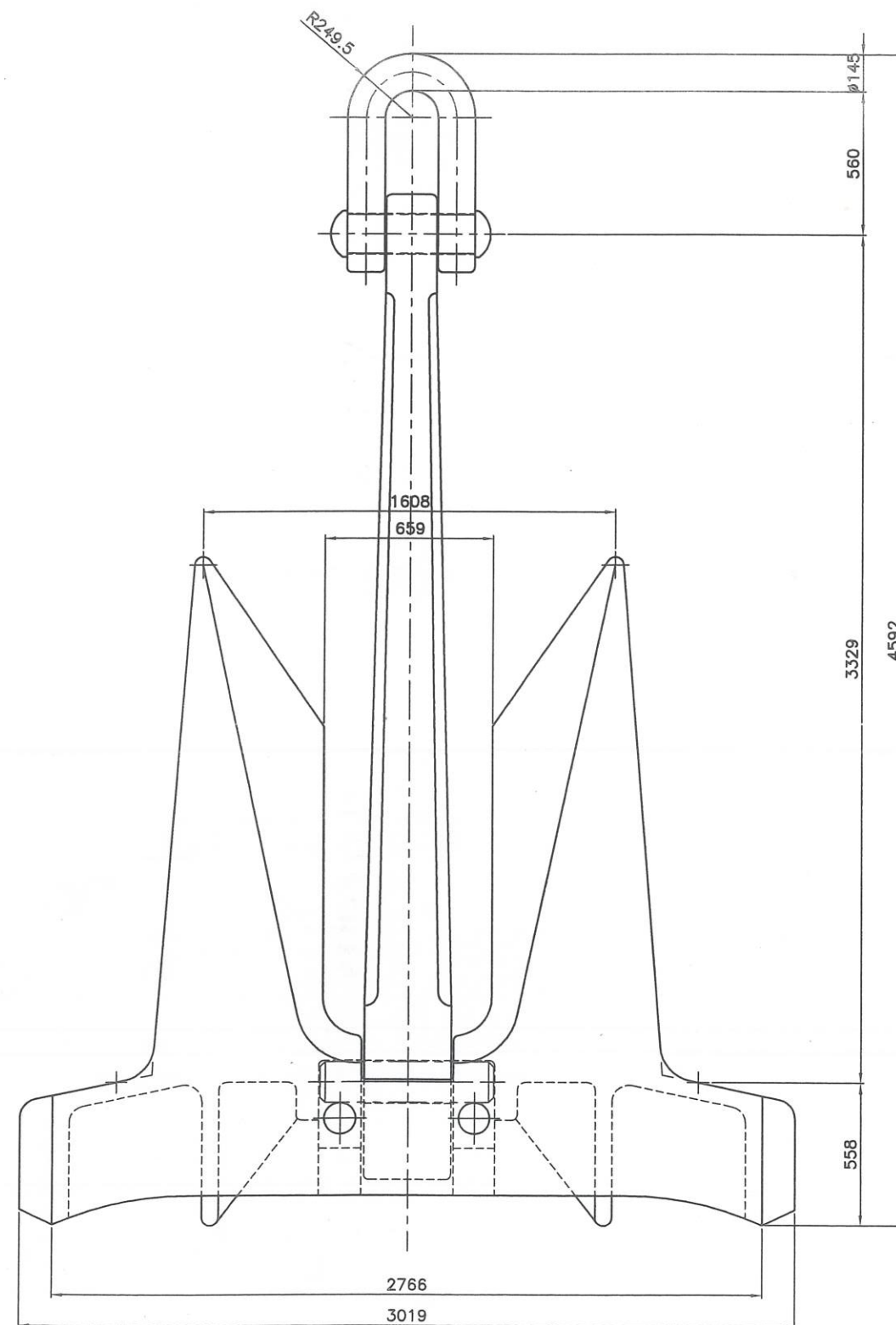
Kum Hwa Cast Steel & Ind. Mach. Co., Ltd

11-5, Soju-Ri, Woong sang-Eup, Yangsan City, Kyung nam, Korea

Tel. : +82(0)55-365-3300~4 Fax. : +82(0)55-365-3305

|                                                                                                                                                                                         |           |                                                                                                  |     |                              |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|-----|------------------------------|-------|
| <div style="text-align: center;"> <br/> <b>KUM HWA</b> </div>                                        |           | <b>P L A N   H I S T O R Y</b>                                                                   |     |                              |       |
|                                                                                                                                                                                         |           |                                                                                                  |     |                              |       |
| Rev.                                                                                                                                                                                    | Date      | Description                                                                                      | DWG | CHK'D                        | APP'D |
| A                                                                                                                                                                                       | 31-Mar-07 | - Prepared by Kumhwa C.S.<br>- Submission for yard approval                                      |     |                              |       |
| 0                                                                                                                                                                                       | 06-May-08 | - Approved by yard with comments                                                                 |     |                              |       |
| 1                                                                                                                                                                                       | 01-Oct-08 | - Submission for final (S372)                                                                    |     |                              |       |
| NOTES :                                                                                                                                                                                 |           |                                                                                                  |     |                              |       |
| PROJ' NO<br><b>S371/72</b>                                                                                                                                                              |           | PROJECT<br><b>4,400 TEU CLASS CONTAINER CARRIER</b>                                              |     |                              |       |
| APP'D BY                                                                                                                                                                                |           | TITLE<br><br><b>9,225 Kg ANCHOR DWG<br/>for<br/>HIGH HOLDING POWER TYPE<br/>STOCKLESS ANCHOR</b> |     | Class : <b>B.V</b>           |       |
| CHK'D BY<br><b>D. C. RYU</b>                                                                                                                                                            |           |                                                                                                  |     | Scale : <b>As shown</b>      |       |
| DWG BY                                                                                                                                                                                  |           |                                                                                                  |     | REV. NO : <b>0</b>           |       |
|                                                                                                                                                                                         |           |                                                                                                  |     | DWG. NO.<br><b>KHC-09225</b> |       |
| <b>Kum Hwa Cast Steel &amp; Ind. Mach. Co., Ltd</b><br><b>11-5, Soju-Ri, Woong sang-Eup, Yangsan City, Kyung nam, Korea</b><br>Tel. : +82(0)55-365-3300~4      Fax. : +82(0)55-365-3305 |           |                                                                                                  |     |                              |       |

|                                                                                                                                                                                                               |       |                        |                        |      |                    |       |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|------------------------|------|--------------------|-------|-------------------|
| <div><div>KH</div><div>KUM HWA</div></div>                                                                                                                                                                    |       | PAINTING SPECIFICATION |                        |      |                    |       |                   |
| DWG No. : KHC-09225                                                                                                                                                                                           |       |                        |                        |      | Kumhwa's standards |       |                   |
| Item                                                                                                                                                                                                          | mat'l | Shop<br>Primer         | Surface<br>Preparation | Coat | Brand Name         | Color | D.F.T<br>(micron) |
| ANCHOR                                                                                                                                                                                                        | SC410 | -                      | Sa2                    | 1st  | Hempadur<br>1503   | Black | 125               |
|                                                                                                                                                                                                               |       | -                      |                        | 2nd  | Hempadur<br>1503   | Black | 125               |
|                                                                                                                                                                                                               |       |                        |                        |      |                    |       |                   |
|                                                                                                                                                                                                               |       |                        |                        |      |                    |       |                   |
|                                                                                                                                                                                                               |       |                        |                        |      |                    |       |                   |
| <div><div>Kum Hwa Cast Steel &amp; Ind. Mach. Co., Ltd</div><div>11-5, Soju-Ri, Woong sang-Eup, Yangsan City, Kyung nam, Korea</div><div>Tel. : +82(0)55-365-3300~4      Fax. : +82(0)55-365-3305</div></div> |       |                        |                        |      |                    |       |                   |



| PREPARED FOR                      |                                      | REVISION HISTORY |             |      |      |     |     |
|-----------------------------------|--------------------------------------|------------------|-------------|------|------|-----|-----|
| <input type="checkbox"/> APPROVAL | <input type="checkbox"/> ESTIMATION  | SYM              | DESCRIPTION | DATE | SIGN |     |     |
|                                   |                                      |                  |             |      | DWN  | CHK | APP |
| <input type="checkbox"/> WORKING  | <input type="checkbox"/> PRELIMINARY |                  |             |      |      |     |     |
| <input type="checkbox"/> FINAL    |                                      |                  |             |      |      |     |     |

#### TECHNICAL REQUIREMENT

1. The permissible deviation between the actual weight and the nominal weight of anchor is  $\pm 5.0\%$
2. After the above item has been satisfied, the permissible dimensional deviation on each part of the anchor shall be  $\pm 4\%$  and its maximum value shall be within  $\pm 20\text{mm}$
3. The testing method of anchor is to comply with the approved technical specifications.

#### NOTE

- 1) ALL EDGE SMOOTH ROUNDING.

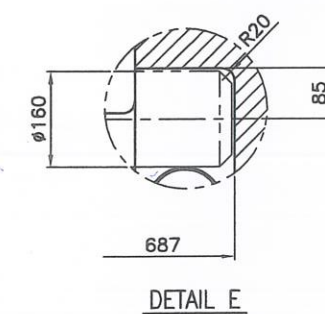
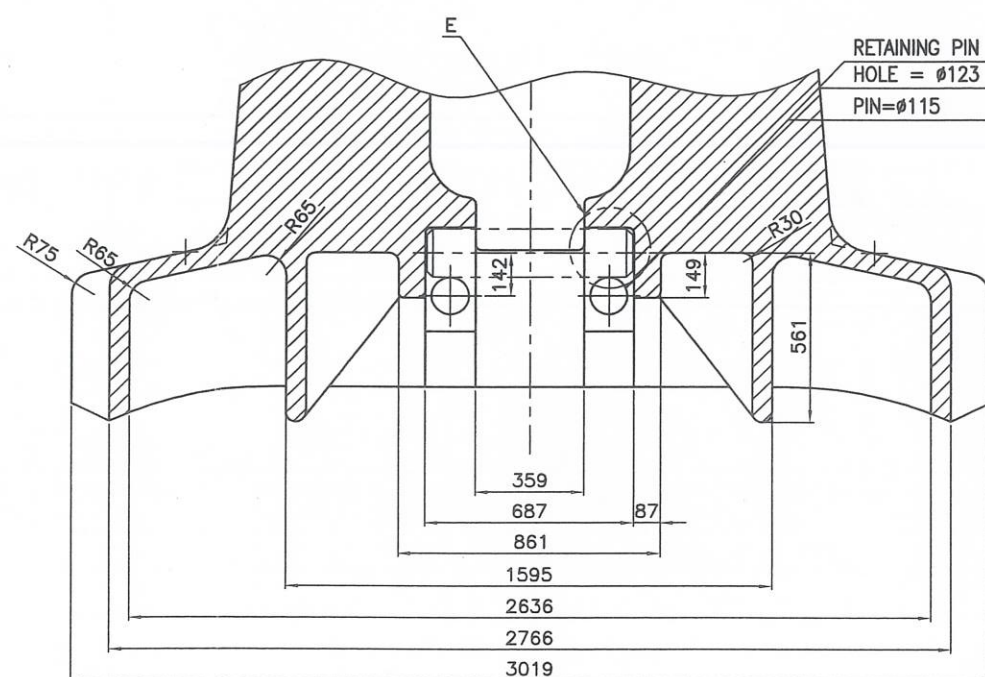
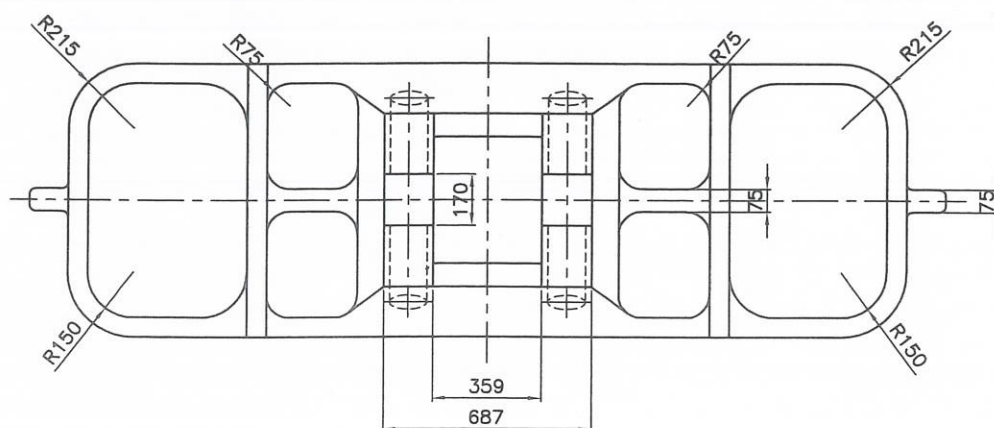
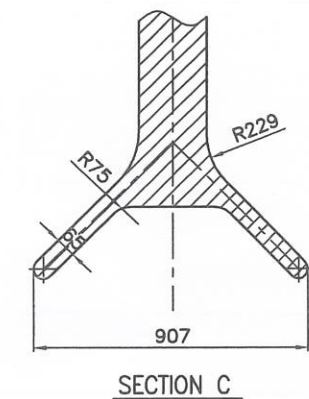
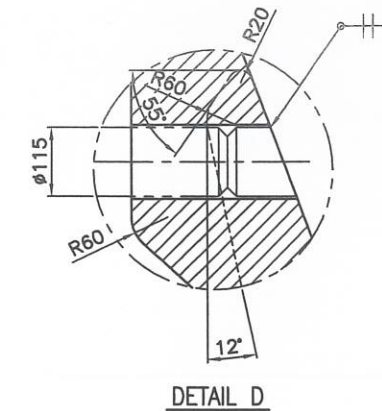
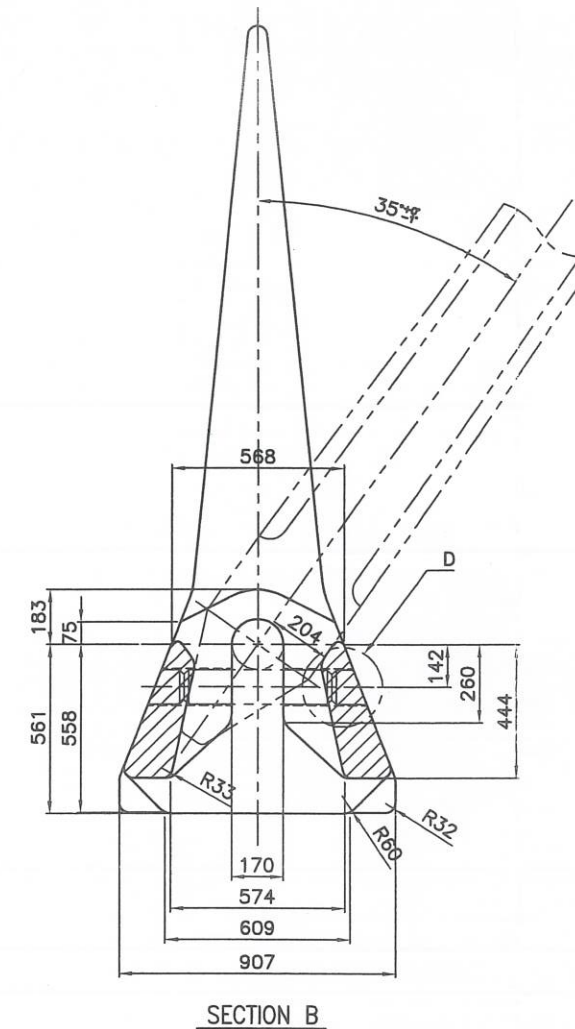
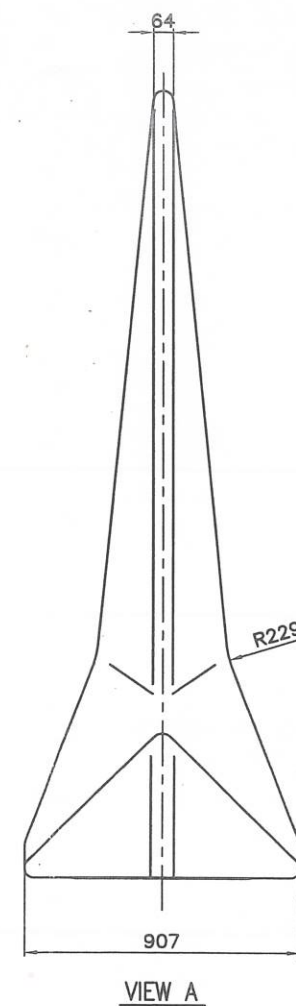
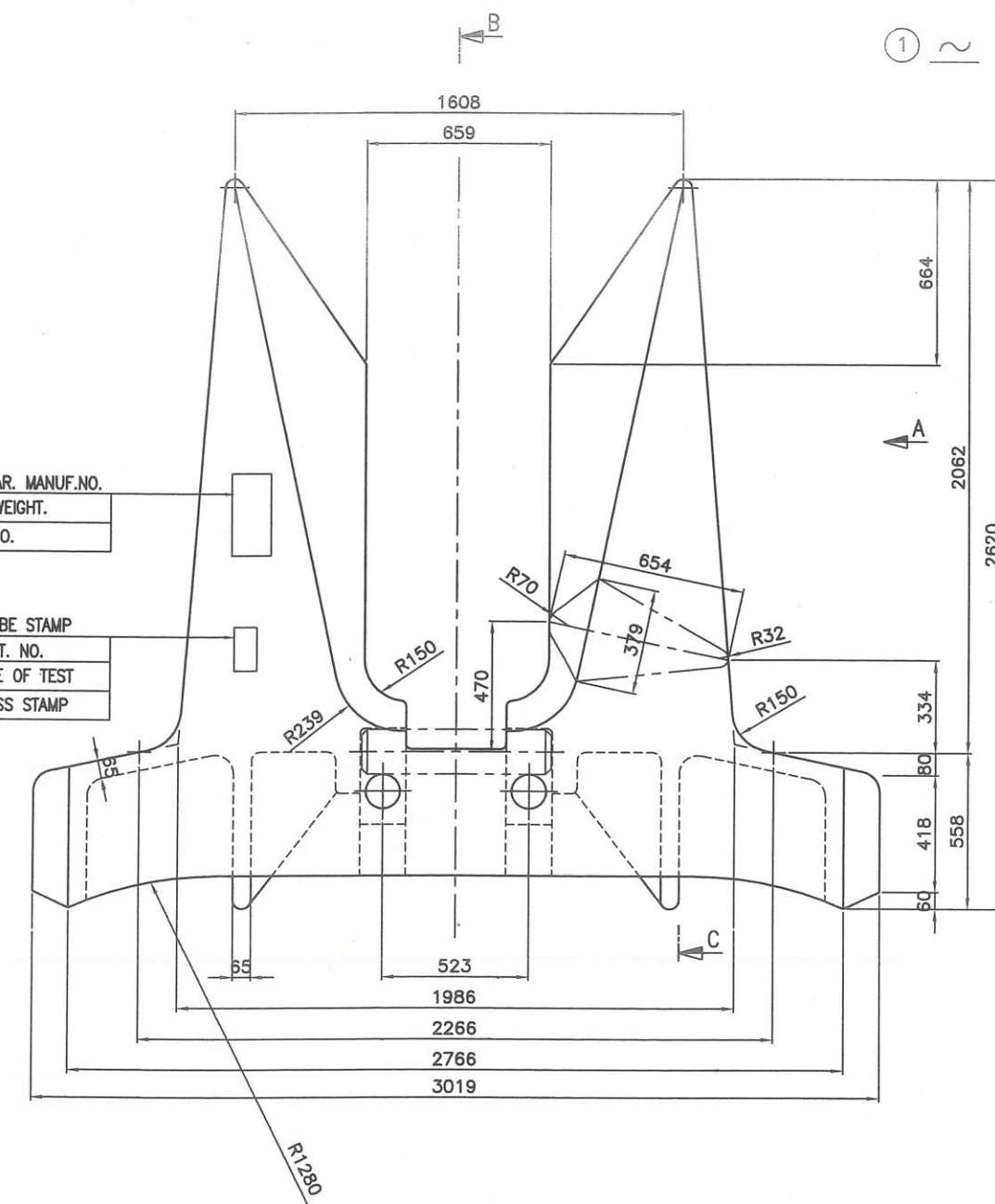
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|-----------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|---------|------------------------|---------------|------------|
| 6                                                                                                                                 | ANCHOR RING PIN | S25C                        | 1       |                        | 90            |            |
| 5                                                                                                                                 | RETAINING PIN   | S25C                        | 2       | 55                     | 110           |            |
| 4                                                                                                                                 | HEAD PIN        | S25C                        | 1       |                        | 107           |            |
| 3                                                                                                                                 | ANCHOR RING     | CLASS RULE                  | 1       |                        | 267           |            |
| 2                                                                                                                                 | SHANK           | CLASS RULE                  | 1       |                        | 2723          |            |
| 1                                                                                                                                 | HEAD            | CLASS RULE                  | 1       |                        | 5928          |            |
| NO                                                                                                                                | DESCRIPTION     | MATERIAL                    | Q'TY    | UNIT                   | TOTAL WEIGHT  | REMARK     |
| PROJECT NO                                                                                                                        |                 |                             | S371/72 |                        | SHIPYARD HSHI |            |
| APPROVED BY                                                                                                                       |                 | TITLE                       |         | CLASSIFICATION SOCIETY |               |            |
| CHECKED BY                                                                                                                        |                 | 9225(KGF) ANCHOR DETAIL DWG |         | B.V                    |               |            |
| DESIGNED BY                                                                                                                       |                 | FOR                         |         | REFERENCE NO           |               |            |
| D. C. RYU                                                                                                                         |                 | HIGH HOLDING POWER TYPE     |         | KAXH092251             |               |            |
| DRAWN BY                                                                                                                          |                 | STOCKLESS BOWER ANCHOR      |         | DATE                   | SCALE         | PROJECTION |
|                                                                                                                                   |                 |                             |         | 081001                 | 1/12          |            |
|                                                                                                                                   |                 | KUMHWA CAST STEEL           |         | DRAWING NO             |               |            |
|                                                                                                                                   |                 | IND. MACH. CO., LTD         |         | KHC-09225 (1/3)        |               |            |
| THIS DRAWING IS OUR PROPERTY. IT IS NOT TO BE TRACED, COPIED OR PUBLISHED WITHOUT THE WRITTEN CONSENT. NOT TO BE USED IN ANY WAY. |                 |                             |         |                        |               |            |
| SHEET                                                                                                                             |                 |                             |         |                        |               | A3         |

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| PREPARED FOR                      |                                      | REVISION HISTORY |             |      |     |     |     |
|-----------------------------------|--------------------------------------|------------------|-------------|------|-----|-----|-----|
| <input type="checkbox"/> APPROVAL | <input type="checkbox"/> ESTIMATION  | SYM              | DESCRIPTION | DATE | DIM | CHK | APP |
| <input type="checkbox"/> WORKING  | <input type="checkbox"/> PRELIMINARY |                  |             |      |     |     |     |
| <input type="checkbox"/> FINAL    |                                      |                  |             |      |     |     |     |

KH. YEAR. MANUF.NO.  
TYPE. WEIGHT.  
HULL NO.

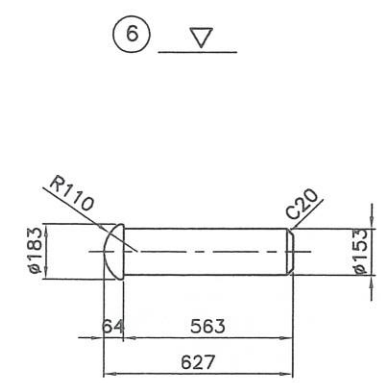
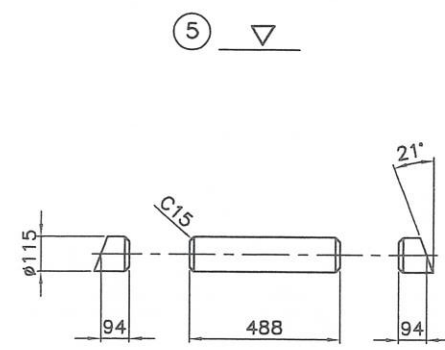
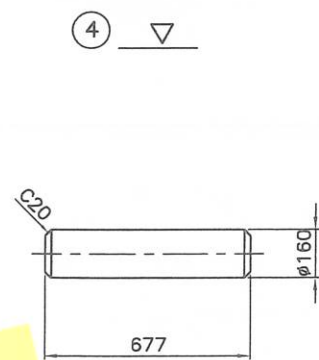
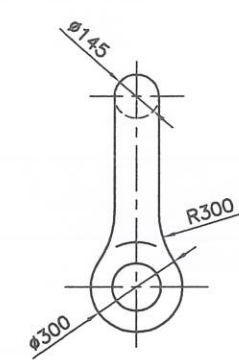
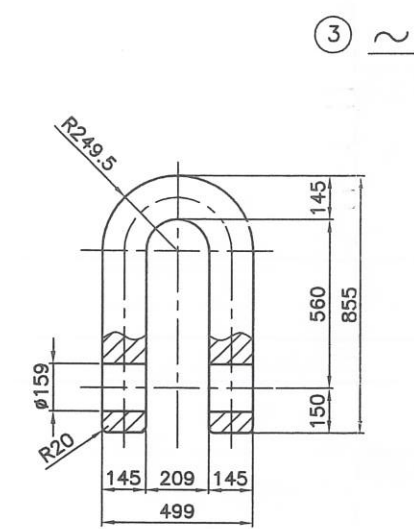
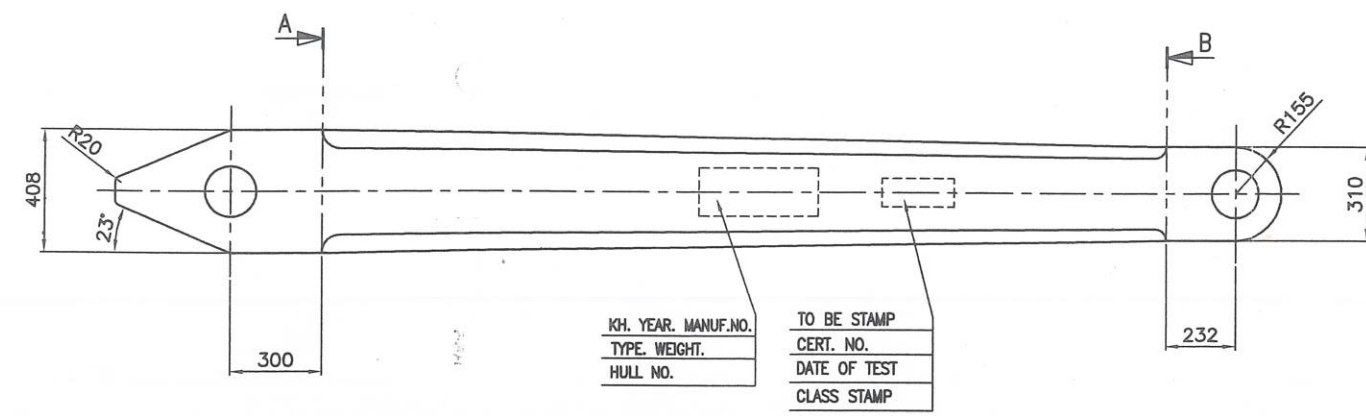
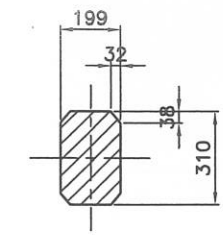
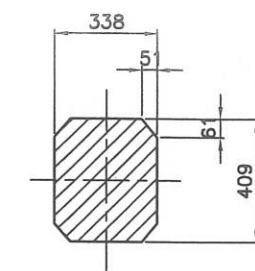
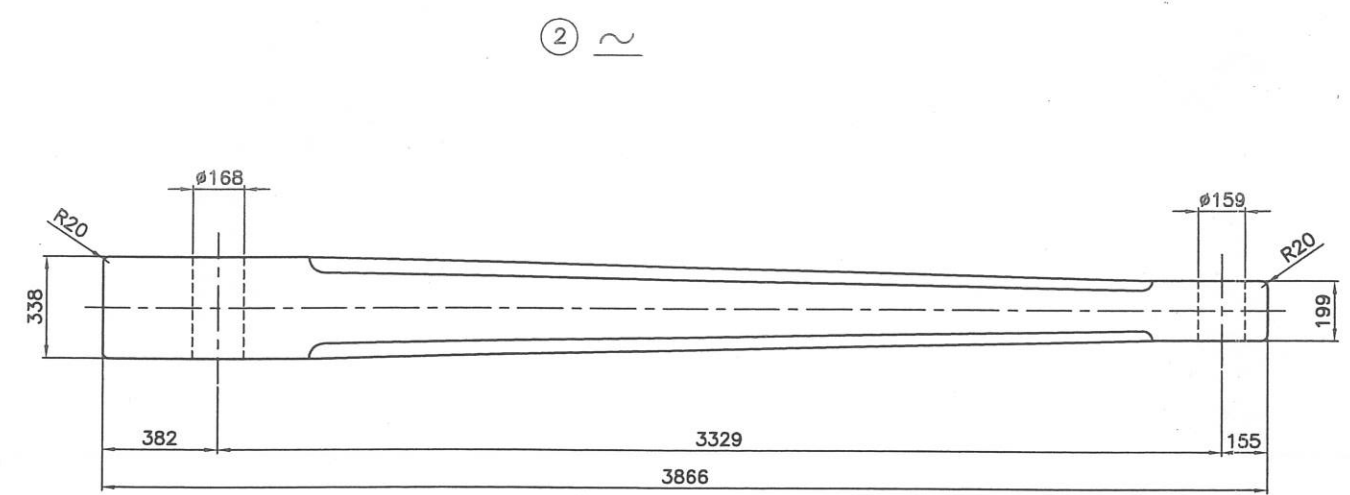
TO BE STAMP  
CERT. NO.  
DATE OF TEST  
CLASS STAMP



|                                                                                                                                     |                             |            |                                   |          |                                                                                       |        |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------|-----------------------------------|----------|---------------------------------------------------------------------------------------|--------|
| 1                                                                                                                                   | HEAD                        | CLASS RULE | 1                                 | 5928     |                                                                                       |        |
| NO                                                                                                                                  | DESCRIPTION                 | MATERIAL   | Q'TY                              | UNIT     | TOTAL WEIGHT                                                                          | REMARK |
| PROJECT NO                                                                                                                          |                             | S371/72    |                                   | SHIPYARD |                                                                                       | HSHI   |
| APPROVED BY                                                                                                                         | TITLE                       |            | CLASSIFICATION SOCIETY            |          |                                                                                       |        |
| CHECKED BY                                                                                                                          | 9225(KGF) ANCHOR DETAIL DWG |            | REFERENCE NO<br>B.V<br>KAXH092252 |          |                                                                                       |        |
| DESIGNED BY                                                                                                                         | FOR                         |            | DATE                              | SCALE    | PROJECTION                                                                            |        |
| D. C. RYU                                                                                                                           | HIGH HOLDING POWER TYPE     |            | 081001                            | 1/12     |  |        |
| DRAWN BY                                                                                                                            | STOCKLESS BOWER ANCHOR      |            |                                   |          |                                                                                       |        |
|  KUMHWA CAST STEEL                             |                             |            | DRAWING NO                        |          | KHC-09225 (2/3)                                                                       |        |
| IND. MACH. CO., LTD                                                                                                                 |                             |            | SHEET                             |          | A3                                                                                    |        |
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|-----------------------------------|--------------------------------------|------------------|-------------|------|-----|-----|-----|
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| <input type="checkbox"/> WORKING  | <input type="checkbox"/> PRELIMINARY |                  |             |      |     |     |     |
| <input type="checkbox"/> FINAL    |                                      |                  |             |      |     |     |     |



|             |                 |                             |      |                        |              |
|-------------|-----------------|-----------------------------|------|------------------------|--------------|
| 6           | ANCHOR RING PIN | S25C                        | 1    | 90                     |              |
| 5           | RETAINING PIN   | S25C                        | 2    | 55                     | 110          |
| 4           | HEAD PIN        | S25C                        | 1    | 107                    |              |
| 3           | ANCHOR RING     | CLASS RULE                  | 1    | 267                    |              |
| 2           | SHANK           | CLASS RULE                  | 1    | 2723                   |              |
| NO          | DESCRIPTION     | MATERIAL                    | Q'TY | UNIT                   | TOTAL WEIGHT |
| PROJECT NO  |                 | S371/72                     |      | SHIPYARD               |              |
| APPROVED BY |                 | TITLE                       |      | CLASSIFICATION SOCIETY |              |
| CHECKED BY  |                 | 9225(KGF) ANCHOR DETAIL DWG |      | B.V                    |              |
| DESIGNED BY |                 | FOR                         |      | REFERENCE NO           |              |
| D. C. RYU   |                 | HIGH HOLDING POWER TYPE     |      | KAXH092253             |              |
| DRAWN BY    |                 | STOCKLESS BOWER ANCHOR      |      | DATE                   |              |
|             |                 |                             |      | 081001                 |              |
|             |                 |                             |      | SCALE                  |              |
|             |                 |                             |      | 1/12                   |              |
|             |                 |                             |      | PROJECTION             |              |
|             |                 |                             |      | 1/12                   |              |
|             |                 |                             |      | DRAWING NO             |              |
|             |                 |                             |      | KHC-09225 (3/3)        |              |
|             |                 |                             |      | SHEET                  |              |
|             |                 |                             |      | A3                     |              |

end 1