

**COPY**

**DNV·GL**

## APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMT000009D**

### This is to certify:

That the Manufacturer

**Kobe Steel, Ltd. Takasago Equipment Plant**  
**Takasago, Hyogo, Japan**

is approved for the  
**Manufacture of Welded Pressure Vessels, Class I & II**

The approval is granted on condition that  
**DNV GL class programme DNVGL-CP-0261 – Manufacture of pressure equipment**  
**DNV GL class programme DNVGL-CP-0352 – Manufacture of welded products – Welding workshop**

are complied with in all respect

Welding of pressure equipment has been approved with the following particulars:

Welding supervisor : **Yoshiya Akishita**  
Deputy welding supervisor : **Toshiki Tachibana**

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules.

Issued at **Høvik** on **2018-10-05**

This Certificate is valid until **2021-06-29**.

DNV GL local station: **Kobe**

Approval Engineer: **Iselinn Vindstad**

for **DNV GL**



Digitally Signed By: **Marveng, Marianne Spæren**

Location: **DNV GL Høvik, Norway**

**Marianne Spæren Marveng**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in production facilities and methods may render this Certificate invalid.



Form code: AM 301

Revision: 2018-03

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Page 1 of 2

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Job Id: **263.11-004584-2**  
Certificate No: **AMT000009D**

## Approval basis

Product categories:

- Diffusion Bonded Compact Heat Exchangers – DCHE (according to ASME Section IX Part QW and ASME Section VIII Div. 1 Appendix 42) and DNVGL-RU-SHIP Pt.4 Ch.7

Activity categories:

- production of pressure equipment (DNV GL-CP-0261)
- welding of pressure equipment (DNV GL-CP-0352)
- non-destructive testing

Diffusion bonding is performed by MetalTechnology Co. Ltd, Himeji Plant, 970 Shimoise, Hayashida-cho, Himeji-shi, Hyogoken, 679-4233, Japan.

The following facilities are not available in manufacturing place and if required (according to DNV GL ship rules Pt.4 Ch.7), then:

- heat treatment to be performed at an approved heat treatment workshop (as per DNV GL-CP-0351)
- manufacturing of pressed parts shall be from an approved facility (as per DNV GL-CP-0350)
- for non-destructive tests pertaining to pressure equipment class I and II, the procedure and requirements stipulated in specific class guidance DNVGL-CG-0051 & DNV GL Pt.4 Ch.7 Sec.7 [4] shall be applied.

Surveyor may decide to visit the subcontractor as a part of approval survey.

## Approval documentation

- Application for initial approval of pressure equipment manufacturers (CP 0261), PEM 901, dated 2018-06-12
- Checklist for initial approval of pressure equipment manufacturers (CP 0261), PEM 601, dated 2018-06-14
- Application for Welding Workshop approval, WELD 901, dated 2018-06-03
- Welding workshop qualification record, WELD 521, dated 2018-06-14
- Checklist for renewal of approved manufacturers, form 20.96a, dated 2018-06-14
- Approval of Manufacturer, Sheet no. KOB071114-2, dated July 11<sup>th</sup> 2014 (212 pages)
- Checklist for initial approval of pressure equipment manufacturers (CP 0261), PEM 601, for Metal Technology Ltd. dated 2018-09-28.
- Checklist for renewal of approved manufacturers, form 20.96a, for Metal Technology Ltd. dated 2018-09-28

## Certificate Retention Survey

The AoM certificate is valid for three years with no intermediate assessment unless otherwise requested by the Society. Application for renewal should be made not later than three months before the expiry date of the certificate.

Manufacturer shall invite the Society's surveyor for renewal survey in order to revisit the critical manufacturing steps and to verify that the approved conditions are maintained.

During the survey the manufacturer shall provide evidence that the applicable versions of relevant rules, standards and approval programs are applied, and that all requirements given therein are implemented.