

CERTIFICATE OF Manufacturing Assessment

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CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

25-0220344-PDA
28-Apr-2025
27-Apr-2030
Gdynia Engineering Department

CERTIFICATE OF

Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

KRAL GMBH

located at

BILDGASSE 40, INDUSTRIE NORD, A-6890 LUSTENAU, Austria

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Pump, Multiple Screw Rotary Displacement

Model: ALP/DALP-S Series,
CKC / CL/CG Series,
ECA/DCA Series,
DL/DS/DCL/DCS Series,
DKC/DKB/EKL/EKS Series,
DKL/DKS/TKL/TKS Series,
ELL/ELS/DLC/DLB Series,
L/ DM / M / R / K Series,
Z Series

Endorsements:

Tier: 4 - Enrolled in PQA Program.

This Product Design Assessment (PDA) Certificate remains valid until 27/Apr/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Tomasz Marszewski, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)



<https://ABSeCert.Eagle.org>

Certificate Number 105123-7233906-007
Effective Date 08 October 2025
Expiry Date 08 November 2030
ABS Port Office Hamburg Port

CERTIFICATE OF Product Quality Assurance

This is to certify that the Undersigned evaluated the manufacturing quality procedures of

KRAL GMBH

located at

Bildgasse 40, 6890 Lustenau / Austria

attend its facilities on the date and location stated, in order to carry out an audit of its quality system procedures. The system is considered to be in compliance with the ABS Quality Assurance Certificate criteria, subject to continued compliance with the most recent ISO 9000 Standard based on semi-annual audits by a representative of ABS, and periodic review and renewal of this Certificate, and alignment with Manufacturer Assessment Certificate validity.

Products covered by valid PDA(s)

Pumps, Multiple Screw Rotary Displacement

This Certificate is manufacturer and location specific and is subject to annual audits. Consult the ABS Type Approval website to confirm the continued validity of this certificate and the status of products.

The ABS Office issuing the certificate is to be kept updated with changes to the production methods, quality control systems, products and models and any changes made.

Electronically Signed By
Baryatynskyy, Oleksandr, Hamburg Port

Surveyor

NOTE: This Certificate evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.



First Semi-annual Endorsement

Surveyor _____

WO _____ Date _____

First Annual Endorsement

Surveyor _____

WO _____ Date _____

Second Semi-annual Endorsement

Surveyor _____

WO _____ Date _____

Second Annual Endorsement

Surveyor _____

WO _____ Date _____

Third Semi-annual Endorsement

Surveyor _____

WO _____ Date _____

Third Annual Endorsement

Surveyor _____

WO _____ Date _____

Fourth Semi-annual Endorsement

Surveyor _____

WO _____ Date _____

Fourth Annual Endorsement

Surveyor _____

WO _____ Date _____

Fifth Semi-annual Endorsement

Surveyor _____

WO _____ Date _____