

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Constant Velocity (CV) Drive Shaft.**with type designation(s)  
**GKN Driveline/Aquadrive CV Drive Shafts**Issued to  
**GKN Service International GmbH**  
**Rösrath, Germany**is found to comply with  
**DNV GL rules for classification – Ships**  
**DNV GL rules for classification – High speed and light craft****Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2017-12-21**This Certificate is valid until **2022-12-20**.DNV GL local station: **Essen**for **DNV GL**Approval Engineer: **Stanislav Avanesov**

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**Burkhard Lilienthal**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-006223-3**  
Certificate No: **TAM00000S5**

### Product description

Constant velocity drive shafts.

### Place of Production

GKN Service International GmbH, Offenbach am Main, Germany

### Application/Limitation

The approval is valid for propulsion and auxiliary purposes.

Selection of drive shaft to be done according to procedures in the manufacturer's catalogue GKN PTS 08/2012.

The following shafts are covered by this approval:

| GKN Driveline Service Scandinavia Part No. | GKN Service International Part No. |
|--------------------------------------------|------------------------------------|
| 60 700 01                                  | 06 105 05 00 0130                  |
| 60 700 05                                  | 06 111 05 00 0000                  |
| 60 700 09                                  | 06 104 10 00 0173                  |
| 60 700 21                                  | 06 110 10 00 0000                  |
| 60 700 06                                  | 06 105 10 01 0150                  |
| 60 700 19                                  | 06 111 10 01 0000                  |
| 60 700 25                                  | 06 105 15 00 0170                  |
| 60 700 35                                  | 06 111 15 00 0000                  |
| 60 700 40                                  | 06 105 21 00 0210                  |
| 60 700 49                                  | 06 111 21 00 0000                  |
| 60 700 90                                  | 06 105 30 00 0245                  |
| 60 700 91                                  | 06 105 30 01 0245                  |
| 60 700 95                                  | 06 111 30 00 0000                  |
| 60 700 94                                  | 06 111 30 01 0000                  |
| 60 700 97                                  | 06 105 32 00 0300                  |
| 60 700 98                                  | 06 111 32 00 0000                  |
| 60 700 83                                  | 06 200 42 01 0270                  |
| 60 700 87                                  | 06 201 42 01 0000                  |
| 60 701 50                                  | 06 200 48 00 0320                  |
| 60 701 56                                  | 06 201 48 00 0000                  |
| 60 701 00                                  | 06 200 60 00 0370                  |
| 60 701 01                                  | 06 200 60 01 0370                  |
| 60 701 09                                  | 06 201 60 00 0000                  |
| 60 701 08                                  | 06 201 60 01 0000                  |

### Type Approval documentation

#### Marking of product

Manufacturers name or trademark and joint number identification.

#### Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform a survey after 2 years and after 3.5 years and before the expiry date of this certificate to verify that the conditions of the type approval are complied with.

The objective of the Periodical Assessment is to verify that the conditions for the Type Approval are not altered since the Type Approval Certificate was issued. The main scope of the Periodical Assessment will normally include:

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- Verification of the Type Approval applicant's production and quality system w.r.t. ensuring continued consistent production of the Type Approved products at the Type Approval applicant's own premises and at other companies that are given the responsibility for manufacturing of the products.
- Review of the Type Approval documentation and that this is still used as basis for the production
- Review of possible changes to the design, the material and the performance of the product
- Verification of the product marking.

In cases where the Type Approved product is manufactured at other companies, the Periodical Assessment shall verify that the Type Approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore Periodical Assessment shall be carried out randomly at these companies.

When a Type Approved product is manufactured at other companies, the Type Approval applicant takes the sole responsibility for the conformity of the product to the applicable requirements.