



Marine & Offshore  
Division

Certificate number: 01644/I0 BV

File number: ACM 194/02

Product code: 2596H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**PINTSCH BUBENZER GMBH**

Kirchen-Wehbach - GERMANY

*for the type of product*

**MAGNETIC BRAKES**

Type: SFB - Electromagnetic brakes.

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships.

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

*This certificate is a renewal of certificate N° 01644/H0 BV expiring on 22/04/2015*

**This certificate will expire on: 22 Apr 2020**

**For BUREAU VERITAS,**

At BV HAMBURG, on 17 Apr 2015,

Sandro Schmidt



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site [www.veristar.com](http://www.veristar.com). Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=qepmfty49k>

BV Mod. Ad.E 530 October 2014

This certificate consists of 2 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

Product model or type designation:

- **SFB - Electromagnetic brakes.**

Product designation:

- Magnetic Brakes

### 2. DOCUMENTS AND DRAWINGS :

According to the following documents:

Data sheet PE 214 0012 blatt 1-0.

Drawings:	Type:
00598900.951	SFB 6.3
00597400.951	SFB 10
00595900.951	SFB 16
00594300.951	SFB 25
00590100.951	SFB 40
00585900.951	SFB 63
00586600.951	SFB 100
00588300.951	SFB 160
00579600.951	SFB 250
00579900.951	SFB 400
00592500.951	SFB 630

### 3. TEST REPORTS :

According to documents filed in File Number: ACM 194/02.

### 4. APPLICATION / LIMITATION :

4.1 - According to BV Rules for the Classification of Steel Ships.

4.2 - The inspection and the replacement of the wearing parts are to be carried out in accordance with Manufacturer's instructions.

### 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be supplied by **PINTSCH BUBENZER GmbH** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - **PINTSCH BUBENZER GmbH** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

**PINTSCH BUBENZER GmbH**  
**Friedrichshüttenstr. 1**  
**D - 57548 Kirchen-Wehbach**  
**GERMANY**

### 6. MARKING OF PRODUCT :

- Maker's name or trade mark.

- Serial number of the units.

- Equipment type or model identification under which it was type-tested.

### 7. OTHERS :

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the **Electromagnetic brakes** at any time, and that **PINTSCH BUBENZER GmbH (Kirchen-Wehbach - GERMANY)** will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate No. 01644/H0 BV issued on 22 Apr 2010 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*