

**MARINE DIVISION**

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**Certificate number:** 01644/G1 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*

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

*This certificate is issued to*

**PINTSCH BUBENZER GMBH**

Kirchen-Wehbach - GERMANY

*for the type of product*

**MAGNETIC BRAKES**

Type: SFB - Electromagnetic brakes.

**Regulations and standards :**

BV 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 of the Regulations and standards mentioned above.*

**This certificate is valid until : 15 Apr 2010**

At Neuilly, on : 28 Nov 2008

**For BUREAU VERITAS,**  
By order of the Secretary

Approval office

Local office : BV HAMBURG  
Surveyor : J. Bauermeister

**L.COURREGELONGUE**



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 Division. 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 SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

Magnetic Brakes

Type: **SFB - Electromagnetic 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 manufactured, examined and tested by **PINTSCH BUBENZER GmbH** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **PINTSCH BUBENZER GmbH** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - **PINTSCH BUBENZER GMBH** has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production site :

**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 N° 01644/G0 BV issued on 15/04/2005 by the Society.

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