



CERTIFICATE NUMBER 22-2319562-PDA  
EFFECTIVE DATE 15-November-2022  
EXPIRATION DATE 14-November-2027  
ABS TECHNICAL OFFICE Singapore Engineering Services

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## CERTIFICATE OF Product Design Assessment

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

### **KOCKUM SONICS AB**

located at

**INDUSTRIGATAN 39, PO BOX 1035, MALMO, Sweden SE-212 10**

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 Ship Sound Signal, Horn**

**Model ELECTRO-TYFON**

This Product Design Assessment (PDA) Certificate remains valid until 14-November-2027 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

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Yong Hui Liang, Engineer

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

**KOCKUM SONICS AB**

INDUSTRIGATAN 39

PO BOX 1035

MALMO

Sweden SE-212 10

Telephone: 46-40-671-8800

Fax: 46-40-216-513

Email: info@kockumsonics.com

Web: www.kockumsonics.com

**Tier: 2 - PDA Issued**

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**Product:** Ship Sound Signal, Horn

**Model:** ELECTRO-TYFON

**Endorsements:**

**Intended Service:**

For use on ABS classed vessels and offshore facilities in accordance with the listed ABS Rules and International Standards.

**Description:**

Ship's whistle - ELECTRO-TYFON MT 150/130 and MTX 150/130

For Installation on board ship for Preventing Collision at Sea.

MT 150/130 for ships of 75 meters to 200 meters in length.

MTX 150/130 for ships of length greater than or equal to 200 meters.

**Rating:**

Power supply: For MT and MTX - 380-440 or 660-690 VAC 3 phase for Y-coupling. For MT, 230VAC supply can be used by D-coupling.

Sound frequency: 130 Hz

Sound pressure (1/3 octave IMO limit): >138dB/1m for MT and >143dB/1m for MTX

Protection class: IP 56

**Service Restriction:**

Unit Certification is not required for this product.

If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Not suitable for hazardous area applications.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**

Drawing No. KSM520EN-2040, ELECTRO-TYFON MT 150/130, Revision: -, Pages: 4

Drawing No. KSM521EN-2020, ELECTRO-TYFON MTX150-130, Revision: -, Pages: 4

Delta Report No. T208342, Kockum Sonics AB test report for marine whistles dated 05-11-2014, Revision: -, Pages: 24

Delta Report No. T209200, Kockum Sonics AB Main report for Electro-Tyfon and Supertyfon dated 05-04-2016, Revision: -, Pages: 171

Delta Report No. 117-27575, Arctic test of tyfon, valve unit TV784, electro-tyfon MTX150/130 and MT-150/130 dated 14-06-2017, Revision: -, Pages: 19

Force Technology Report no. 121-30853-1, Supplementary IACS E10 Rev.8 Corr. 1 tests of Kockum Sonics AB products (EMC) dated 28-10-2022, Revision: 1, Pages: 32

Delta Report No. T209200-1, IP56 tests for Marine Type Approval of horns dated 17-03-2016, Revision: -, Pages: 29

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate remains valid until 14/Nov/2027 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.

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**STANDARDS**

**ABS Rules:**

2022 Rules for Conditions of Classification 1-1-4/7.7, 1-1-A3 and A4, which covers the following:

2022 Rules for Building and Classing Marine Vessel Rules: 4-8-3/1.3, 4-8-3/1.7, 4-8-3/1.9, 4-8-3/1.11.1, 4-9-9/ Table 1

2022 Rules for Conditions of Classification - Offshore Units and Structures 1-1-4/9.7, 1-1-A2 and A3, which covers the following:

2022 Rules for Building and Classing Mobile Offshore Units: 4-3-1/9, 4-3-1/11, 4-3-1/15, 6-1-1/9, 6-1-1/13

2022 Rules for Conditions of Classification - Light and High Speed Craft 1-1-4/11.9, 1-1-A2 and A3, which covers the following:

2022 Rules for Building and Classing High Speed Crafts: 4-6-1/9, 4-6-1/11, 4-6-1/15, 4-7-9/Table 9

**National:**

NA

**International:**

IACS UR E10 Test specification for type approval, Rev.8 Corr.1: 2022

IEC 60945 Ed 4.0 b: 2002 Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results Corr 1, 2008

International Regulations for Preventing Collisions at Sea 1972 as amended

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA