

SURE TO BE HEARD

The LEB® SpA company was founded in 1967 with headquarters in Brendola (Vicenza), between Venice and Milan, in North-East Italy.

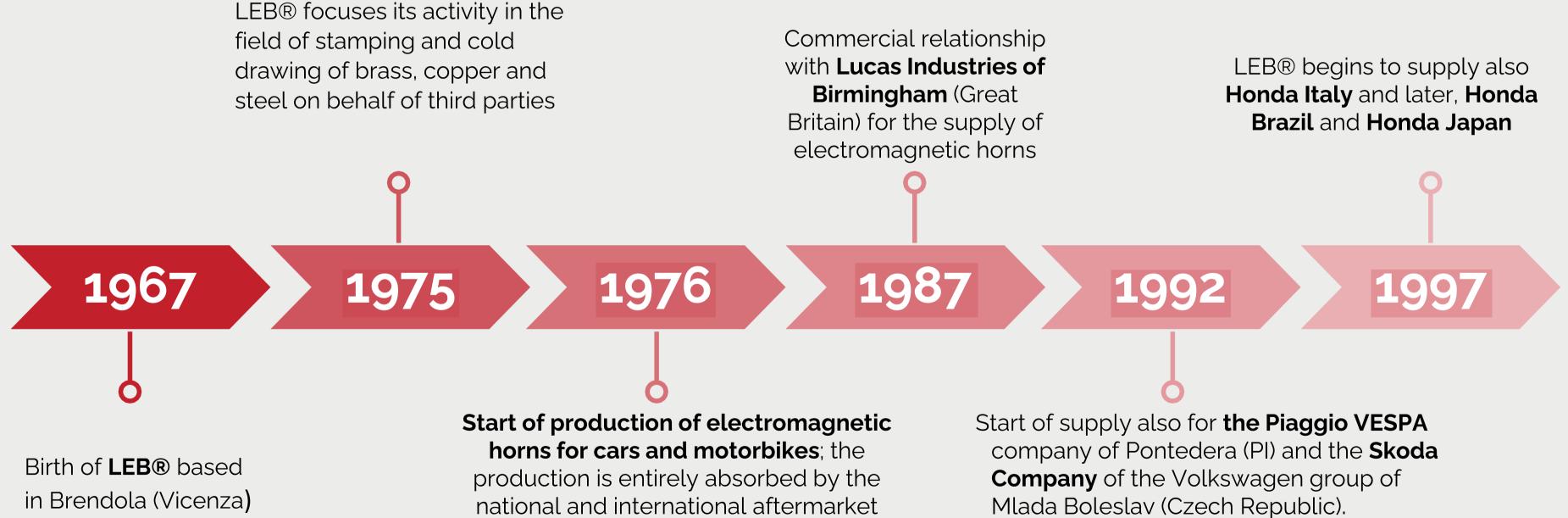
The factory occupies a total area of 17,000 m2, of which 8,300 covered and close to the Montecchio Maggiore tollbooth of the A4 Milan-Venice motorway.





THE FIRST 30 YEARS

LEB® focuses its activity in the



BIRTH OF NEW MATERIALS

Hand in hand with the growth of the production of horns, the activity of sheet metal deformation also intensifies which will lead LEB® to become an important supplier, specialized in the production of **fan covers**, for manufacturers of electric motors and water pumps. **Since 1999** it has been carrying out its activity according to the quality principles of the **ISO 9001** standard. In its production activity it makes use of machinery (mechanical presses, hydraulic presses, robots) and computerized and technologically advanced assembly systems. It has an internal research and development laboratory assisted by modern and advanced tooling



QUALITY

Currently LEB® is certified according to the ISO 9001:2015 Standard and is developing the **Quality Management** System in accordance with the IATF 16949:2016 Technical Specification



L.E.B. S.P.A. Main site: Via Pacinotti 34, 36040, Brendola, Vicenza, Italy

has been assessed by Intertek as conforming to the requirements of:

UNI EN ISO 9001:2015

The Management System is applicable to

Design, manufacturing of warning horns. Sheet cold forming

The validity of the present certificate is subject to periodic surveillances

CERTIFICATE **OF REGISTRATION**

This is to certify that the Management System of:

IAF: 19-17

Certificate Numbe 2317447

Initial Certification Date (from other CB): 12 June 2012

intertek

Certification Decision Date: 27 May 2024

Certification Issue Date: 27 May 2024

Certificate Expiry Date: 11 June 2027

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Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC intertek

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Calin Moldovean President, Business Assurance

Intertek Italia S.p.A. Via Miglioli, 2/A 20063 Cernusco sul Naviglio (MI)

ITALIA

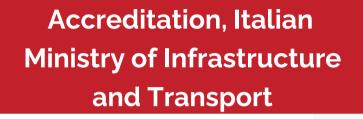
ice of this certificate, intertek assumes no liability to any party other than to the Client, and the dity is subject to the organization maintaining their system in accordance with h



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CERTIFICATIONS

The satisfaction of our customers is the basis of the success of our company, which has continuously taken care of the updating of products and processes



 Imposibilità Indiana assolte misiliana constanentiche e possibile al secoli Idan'int. 7:66/00 Idappia (6-07.75) to⁵ (70) 	S	9
	I TRASPORTI, LA NA VIGA Direzione General ntro Superiore Ricerche e RC OCEDURE DI CONFORM	trutture e dei Trasporti ZIONE, GLI AFFARI GENERALI E IL PERSONAL 5 Territoriale Centro Prove Autoveicoli e Dispositivi MA ITTA' DELLA PRODUZIONE DUCTION PROCEDURES
medificazioni ed integrazio La Direttiva 2007/46/CI integrazioni La Direttiva 2007/46/CI integrazioni La Direttiva 2003/27/CI integrazioni La Direttiva 2003/27/CI integrazioni E di decreto legislativo 30 medificazioni ed integrazio medificazioni ed integrazio Hi decreto 1 aprile 2009, dell'11 maggio 2009, n. 10 Visto il verbale n. [012/207 Acting in accordance with M	n del 20 Marzo 1958, e successive ni; e successive modificazioni ed e successive modificazioni ed e successive modificazioni ed aprile 1992, n.285, e successive ni; pubblicato nella Gazzetta Ufficiale 7- serie generale; 0 del [23/07/2020] dell'	 Having regard to: The Revised ECE Agreement of 20 March 1955; The Directive 2007/46/CE, and his following updates integrations; The Directive 2003/37/CE, and his following updates integrations; The Directive 2002/21/CE, and his following updates integrations; The legislative decree 30 April 1992, n. 285 and his following updates and integrations; The legislative decree 30 April 1992, n. 285 and his following updates and integrations; The legislative decree 30 April 1992, n. 285 and his following updates 11 May 2009, no.107 – general arries; unità di ispezione, designata per l'effettuazione dell'ispezion 57/2020 of the committee appointed to carry ont the impediates to the committee appointed to carry ont the impediates to the committee appointed to carry ont the impediates to the committee appointed to carry ont the impediates to the carry ont the impediates to the
per l'impianto di produzione for the manufacturing plant i		notti, 34 -36040 Brendola (VI)
e per il prodotto and for the product Av	visatori acustici	
	produzione in serie. for the production in series.	
CERTIFICATO NUM STATEMENT NUMBI		
Roma, 07/08/2020 Questo certificato è valido fi <i>This certificate is valid un</i>		IL DIRETTORE THE DIRECTOR dott. ing. Grazingo TABELLI

CQCC

Chinese certification body

VSCC Taiwan certification body

Cec
PRODUCT CERTIFICATE
CERTIFICATE NO.: CQC2017011106999445
NAME AND ADDRESS OF THE APPLICANT L.E.B. S.P.A via Pacinotti, 34 - 36040 Brendola (VI) ITALY
NAME AND ADDRESS OF THE MANUFACTURER L.E.B. S.P.A via Pacinotti, 34 - 36040 Brendola (VI) ITALY
NAME AND ADDRESS OF THE FACTORY L.E.B. S.P.A (V033251) via Pacinotti, 34 - 36040 Brendola (VI) ITALY
PRODUCT NAME, MODEL AND SPECIFICATION
Horn for motor vehicles K70-H-12V
THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS
GB15742-2019
TYPE OF CERTIFICATION SCHEMES
Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC16-491283-2018. Valid from: Dec.23,2019 The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body. Date of original issued: Sep.01,2018
President:
CHINA QUALITY CERTIFICATION CENTRE

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 ahicle Safety Certification Center **車輛安全檢測基準審**查報告 Examination Report for Vehicle Safety Testing Directions 製作日期: 2019/05/14 報 告 Report A108CCC4O-211 報告類別,新型式審查 Report Examination of New Type Category 請 者 Applicant 者 者 申請者地址:臺北市大安區敦化南路2段230號 Address of Applicant 法 規 項 目 名 稱 : ニキー之一、聲音警告裝置(喇叭) 廠 牌:L.E.B. S.P.A. Trade Name 型式系列:K70H Type (Series) 型式名稱。参照附頁第1頁 Variant See the attachment(Page 1) 檢測機構: Technical Service 檢測報告編號: A108NS0003M01 Test Report No. report NO. 審查結果: Examination Result 符合「車輛型式安全審驗管理辦法」第十四條規 定及「車輛安全檢測基準」二十一之一規定 周 維果 Complies with article 14 of "Vehicle Safety Type Approval Management Regulations" and 21-1 of "Vehicle Safety Testing Directions" 依照分層負責規定 授權單位主管決行 本報告含附頁共2頁。不得摘錄複製。 Examination report and the attachments: 2 pages. Copy and distribution are prohibited. 補充 說 明 . Additional Information 財團法人車輛安全審驗中心 執行長 Vehicle Safety Certification Cent Accounting minormation 1.本書書書報告記宣告失效、有效期限國滿或申請者主動宣告停用即失其效力。 The examination report will be invalid instantly orce Ministry of Transportation and Communications terminates upon the expiration of the report. eclares the lanse of it or

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CERTIFICATION

Compliance with the Ethical, Environmental and Safety Standards of its employees and products is a primary commitment of the Organization

UL 583 CERTIFICATION

Certificate of Compliance Certificate Number 20110818-AU5014

Report Reference AU5014-20051223 Issue Date 2011-August-18

Issued to: LEB SPA VIA PACINOTTI 34 36040 BRENDOLA VI ITALY

representative samples of POWERED

12+80 Vdc versions).

the Standard(s) indicated on this Certificate.

Standard(s) for Safety: Electric-Battery-Powered Industrial Trucks, UL 583

Additional Information: See UL On-line Certification Directory at WWW.UL.COM for additional information.

Only those products hearing the UL Recognized Component Mark should be considered as being covered by UL's Recognition and Follow-Up Service,

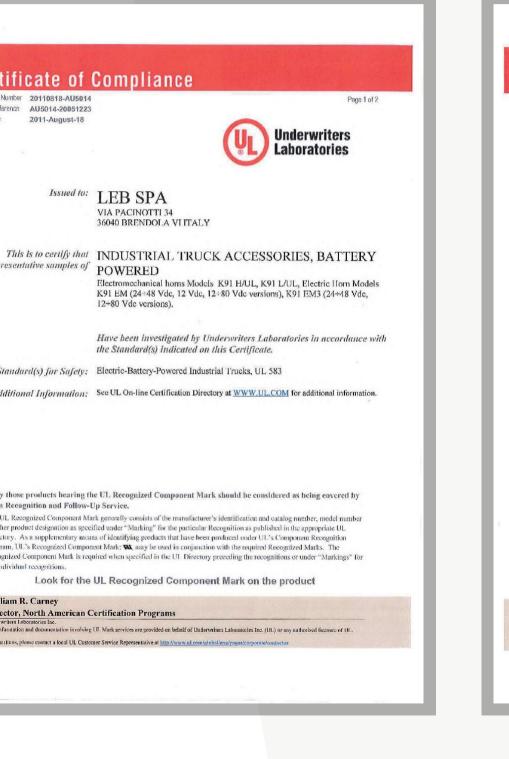
The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UU's Component Recognition Program, UL's Recognized Component Mark: W, may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions

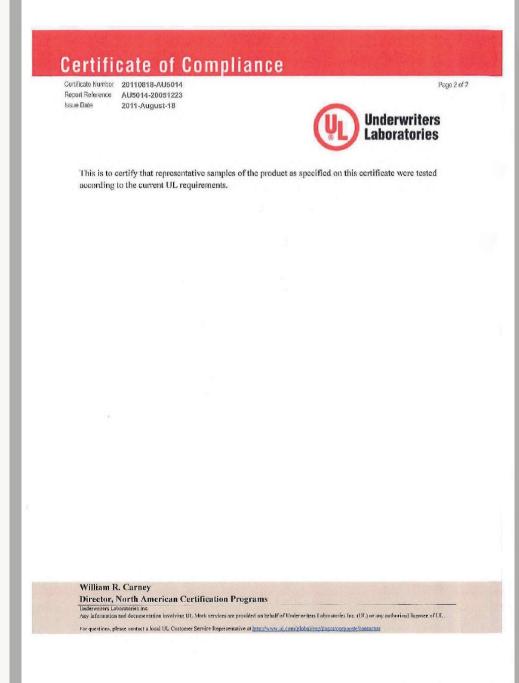
Look for the UL Recognized Component Mark on the product

William R. Carney

Director, North American Certification Programs iderwriters Laboratories Inc. y information and documentation involving UT. Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensec of UL or questions, please contact a local UL Customer Service Representative at http://www.ul.com/









DIVISIONS

HORNS





FAN COVER SHEET METAL DEFORMATION



HORNS

LEB[®] is recognized as a leading company in the panorama of horns manufacturers worldwide characterized by the necessary know -how to design and build internally production equipment and high productivity automatic assembly lines. In this way it can offer its customers great flexibility both in the design phase and in the production phase

STANDARD AND AVAILABILITY OF PRODUCT CUSTOMIZATION

We produce high quality horns, applicable to various types of vehicles.

LEB® designs and manufactures horns with the **highest standards** for correct and constant operation over time.















QUALITY

The molding department of LEB SpA fully serves the needs of the horn division with all the products intended for the car and motorcycle sector.

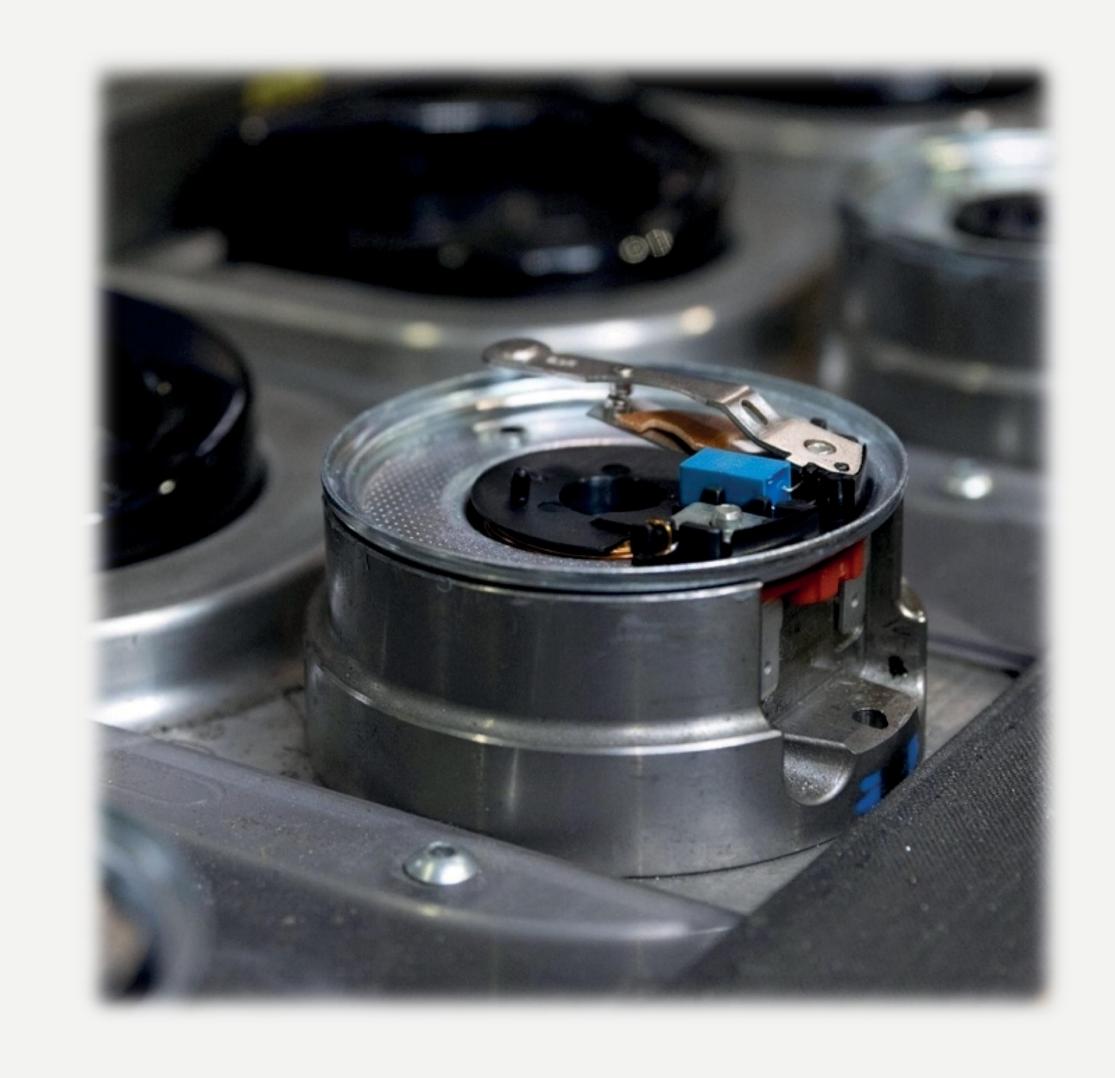
More in detail, it deals with the production of some details that make up the horns and trumpets, for productions that are now around a few million specimens produced.



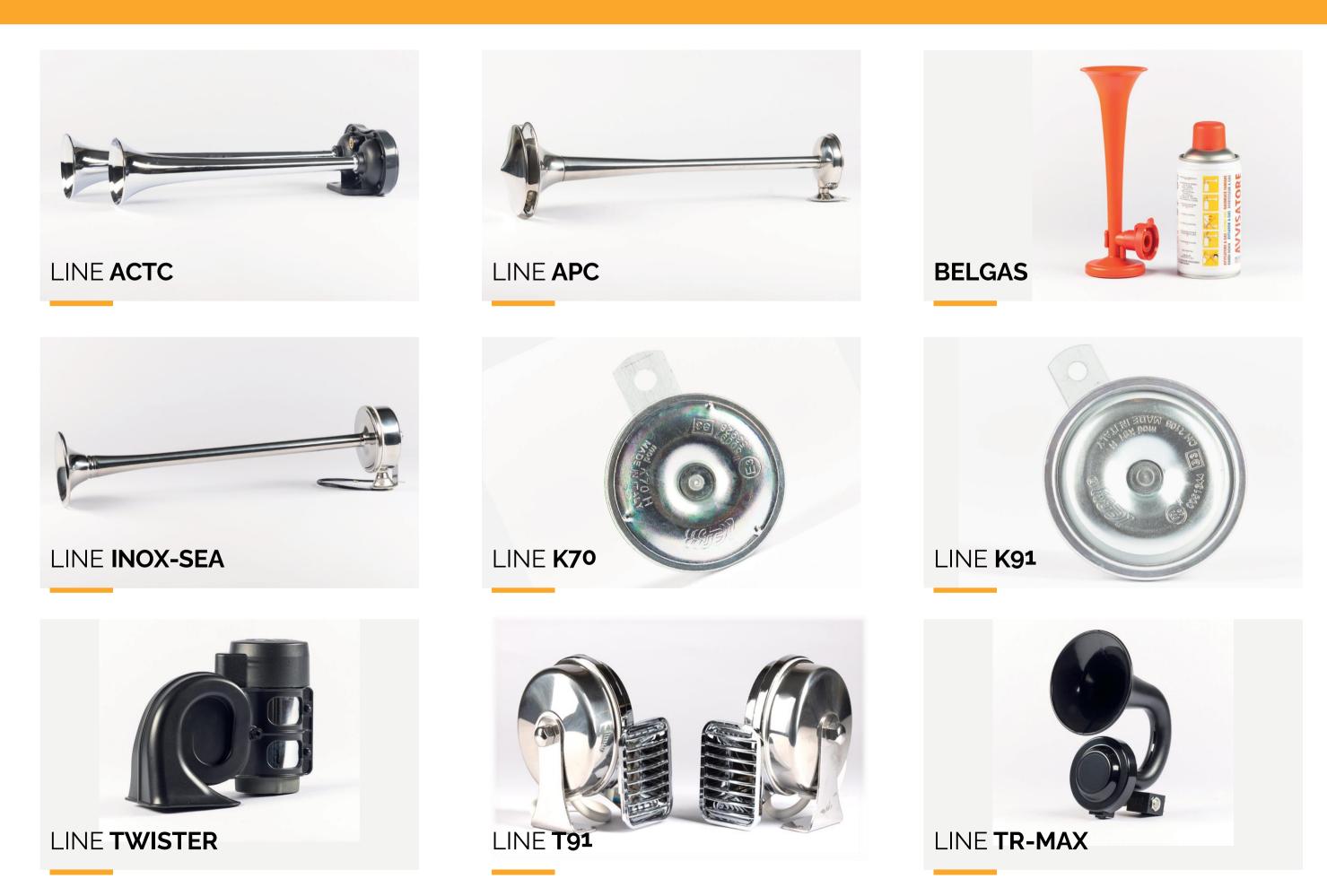
DIVISION HORNS

LEB[®] is equipped with high productivity automatic lines for the following product ranges





HORNS: RANGE









LINE TW80

LINE K70



Small disc horn (**Diameter 70 mm**) <u>designed for motor vehicles</u>

LINE K91



90 mm diameter disc horn, specifically designed for heavy vehicles and forklifts with electric or electronic operation at voltages between 12 and 80 V and with a minimum duration of 50,000, 200,000 or 1,000,000 cycles.

LINE TW 80



All horns for road vehicles are approved in compliance with the following European Directives and Regulations: Reg28 and Dir 93/30/EEC (acoustic approval), Reg10 and Dir 2004/108/EC (electromagnetic compatibility)



LINE TW 80 ELECTRONIC VERSION

Compared to the standard TW80, the electronic version guarantees over 1,000,000 cycles while maintaining the initial electroacoustic characteristics unaltered . • Powerful sound > 108 dBA at 13V • Reverse polarity protection and compliance with EMI specifications • High quality standard electronic components and absence of delicate sensors to increase the robustness of the horn • Adaptive control with microprocessor for a powerful sound and safe to any electrical and environmental variation

ELECTROMAGNETIC TYPE MARINE MARKET



ELECTROMAGNETIC TYPE MARINE MARKET



OTHER PRODUCTS FOR THE MARINE MARKET



All metal components are in **AISI 304 stainless steel** to guarantee absence of corrosion and facilitate cleaning, stability to environmental changes and long life

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APC 500/600 OUTDOOR USE FOR INDUSTRIAL VEHICLES – AMERICAN TRUCKS

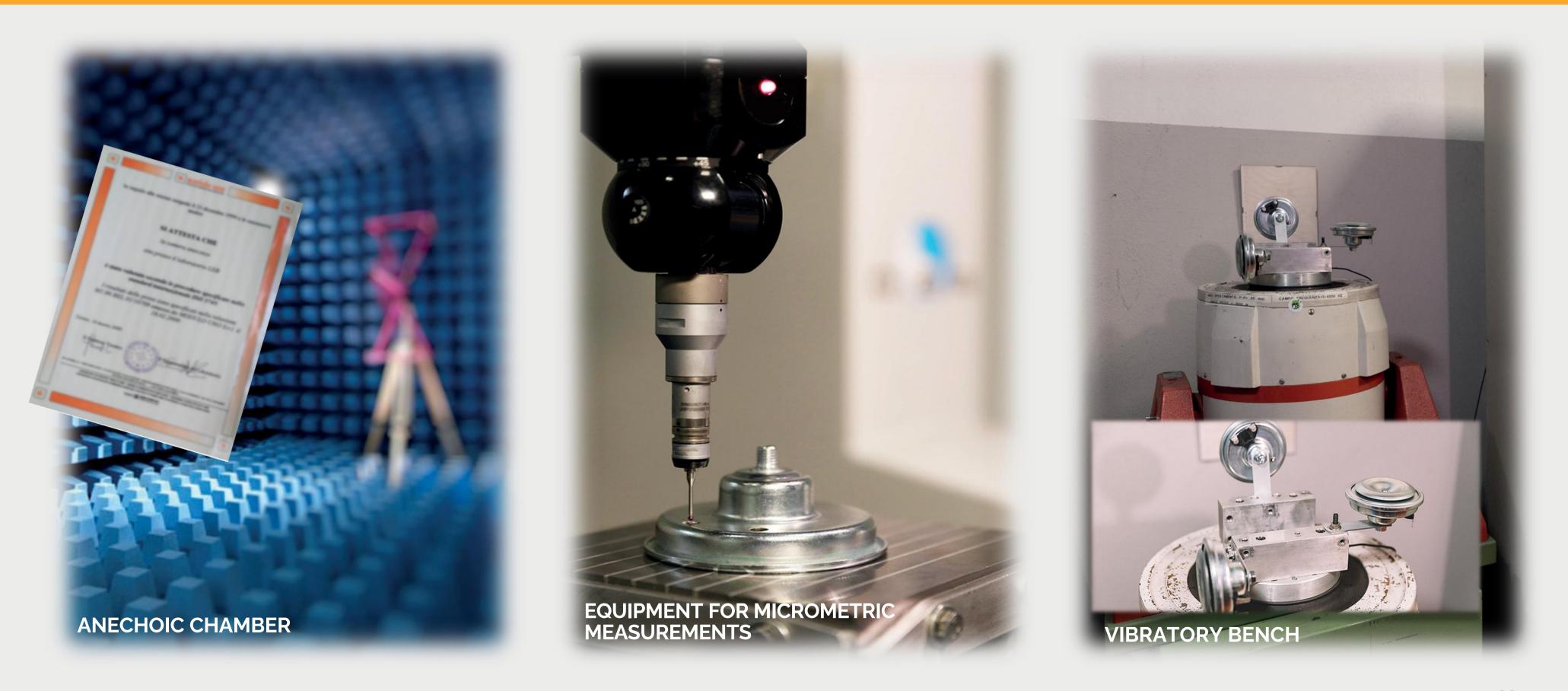


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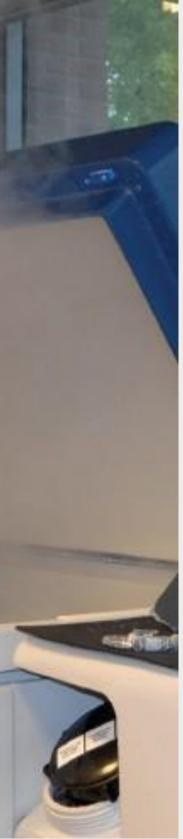
TESTING BENCH : DURATION OF HORNS

INSTRUMENTATION



INSTRUMENTATION









FAN COVER

The production takes place with equipment and molds owned by LEB® or Customers.

The division is specialized in the production of fan covers for standard or custom electric motors customized

FAN COVER: RANGE







STANDARD AND AVAILABILITY OF PRODUCT CUSTOMIZATION

LEB® has developed a series of modular products able to fulfill the most varied requests in terms of length and housing of servo fans, encoders, brakes, which covers the entire series from IEC/MEC56 to IEC/MEC180. In addition to the already vast range of standard fan covers, a wide variety of special models are produced, customized in shape and size, according to the customer's design, for a total annual production of 8 million pieces.





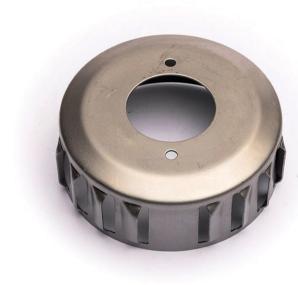
SHEET METAL DEFORMATION

The production takes place with equipment and molds owned by LEB® or customers. The molding division also offers a large number of steel products for gates and frames, for cal heating dairies etc



A wide variety of special shapes and sizes are also produced according to customer design. LEB® intends to fully satisfy every particular requirement of the customer, evaluating the fat viability of new products, taking care of the design and construction of molds and equipment respecting the timescales required.

CAP WITH LOOPHOLES





ELECTRIC MOTOR FAN RING



LEAF STOP FOR GATES



WHEEL SUPPORT FOR GATE

WHEEL SUPPORT FOR GATE





LEAF STOP FOR GATES

STAINLESS STEEL SUCTION BASE FOR









TECHNICAL EQUIPMENT

Technologies recently landed in LEB:

- Vertical machining centers,
- Wire EDM (Electrical Discharge Machining)
- Sinker EDM (Electrical Discharge Machining)

have allowed us to improve production efficiency, reducing production times, further improving quality, and expanding the possibility of product customization.

ATTREZZERIA

LEB® has its own tool shop recently equipped with: -Wire EDM,

-Sinker EDM,

For:

- maintenance,
- creation of new equipment
- study of new projects.

(ATTREZZERIA: In the Italian Industry, is a special department of a factory used for the construction and regulation of equipment intended for machine tools.)



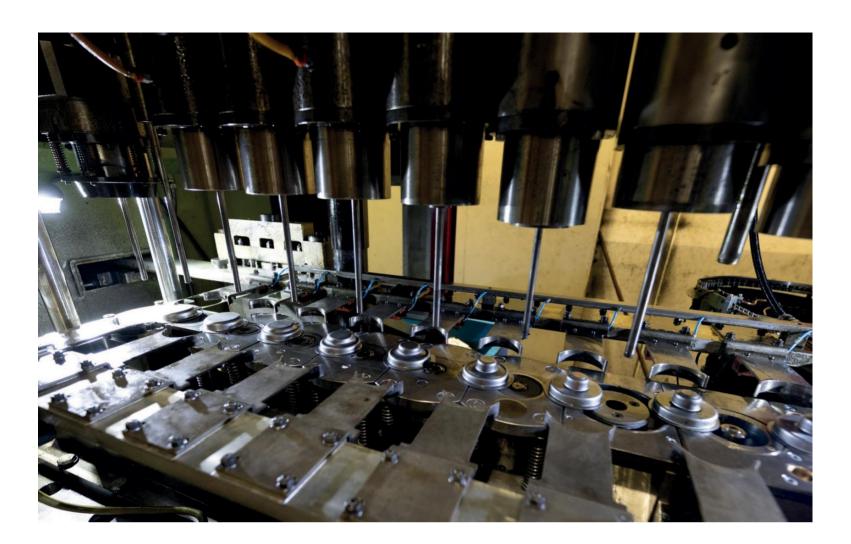


PRESSES:

We have the availability of presses

- Hydraulics
- Mechanics
- Transfers

I with a tonnage from 60 to 400T and worktops from a minimum of 450×800 up to a maximum of 1150x2000mm which allow to work sheets of thicknesses variable from 0.25 to 6mm.





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CLIENT & SALES





Division: HORNS

APRILIA CROWN FANTIC GASGAS, HONDA **HUSQUARNA** JAWA **KION GROUP**

KTM Logisnext MITSUBISHI **EUROPE MOTO GUZZI MV AUGUSTA** PIAGGIO **SHERCO TM RACING**

Division: FAN COVER

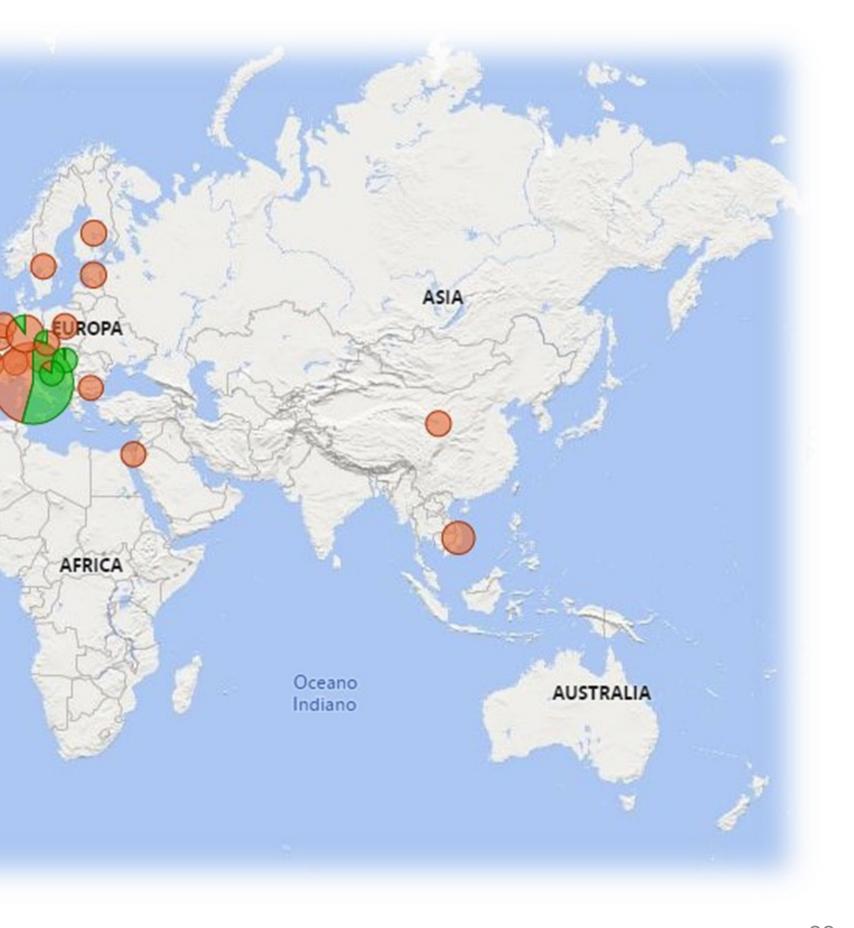
DAB **EBARA KMMP LAFERT GROUP - SUMITOMO MORATTO** MOTEK **ORANGE 1 ELECTRIC MOTORS**

PENTAX PRESSOL ROSSI SOGA ENERGYTEAM SCHABMULLER VENETA PRESS

NIDEC









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