

Company **profile**

公司简介



ma.ti.ka.[®]

Our **vision**, your **evolution**.

您的发展是我们的愿景。



Our vision,
your evolution.

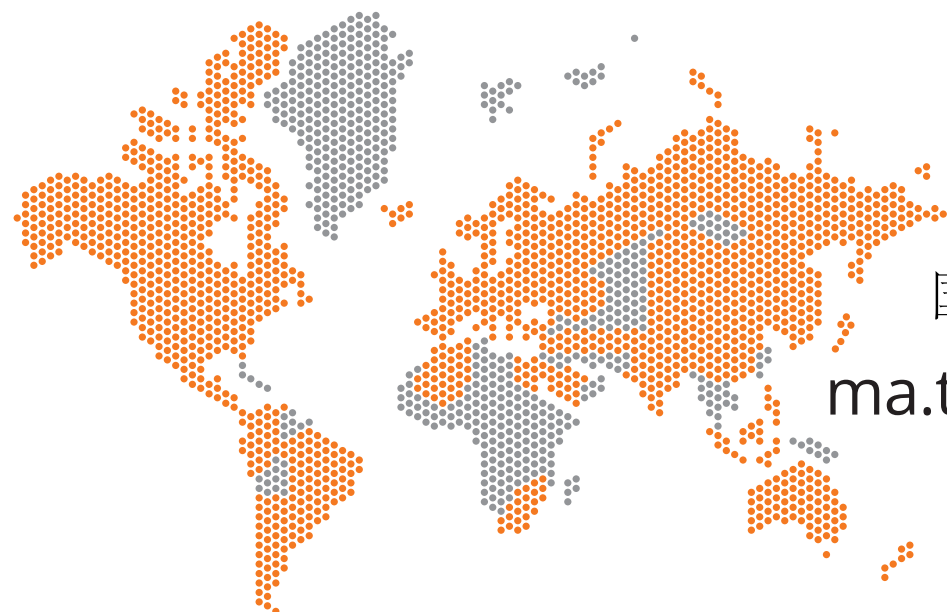
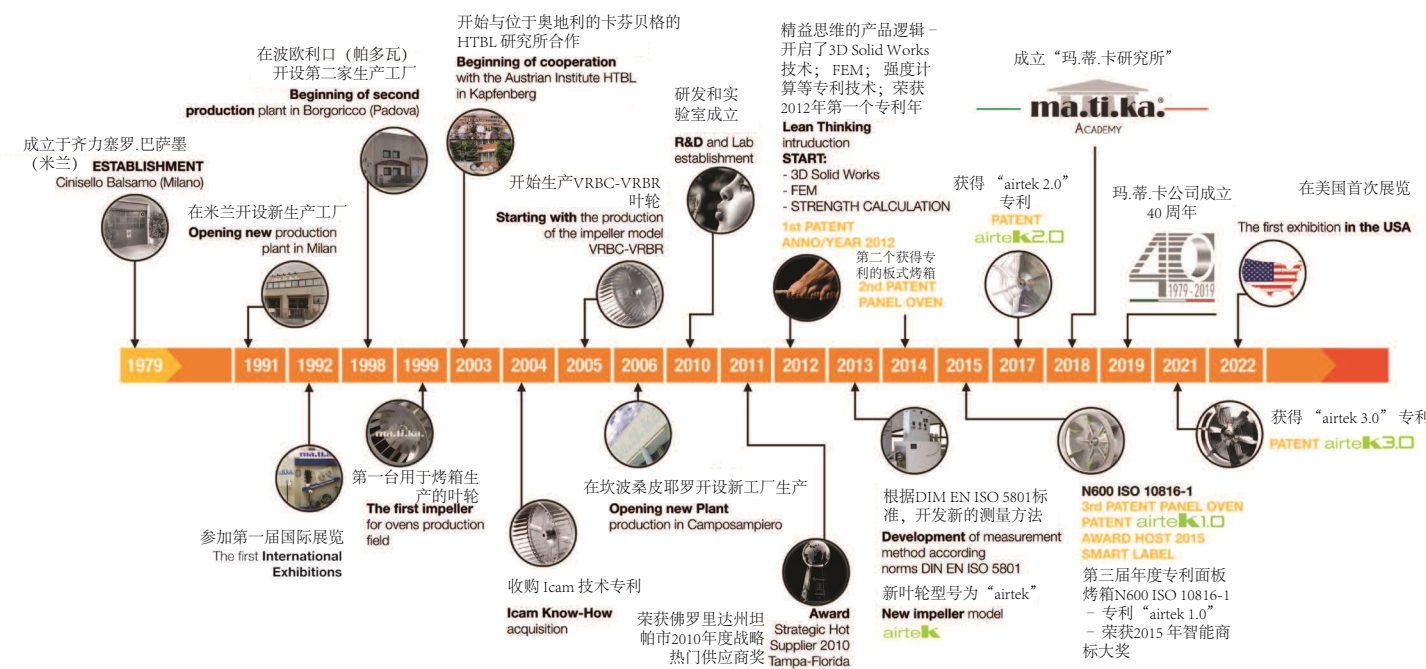
ma.ti.ka.®

马.蒂.卡成立于1979年，是该领域的全球行业领导者之一；在其 43 年的发展经营活动中，凭借高科学技术和对细节的全情关注，它成功地扩展和积累了丰富的技术知识和经验，使人们能够拥有全球视野。

得益于其自己的专利和创新解决方案，如今，马.蒂.卡已成为专业烤箱、电控技术、空气流动技术、抽气技术和空气处理技术以及供暖领域重要公司的行业楷模。

Ma.ti.ka. was founded in 1979, it's one of the major global players in the field; in 43 years of activity it has managed to expand and establish its technological know-how, thanks to the scientific method and to the attention for the details, allowing to have an overall view.

Thanks to its own patents and to the innovative solutions, Ma.ti.ka. is nowadays point of reference for important enterprises in the world of professional ovens, of electrical appliances, of air movement, of aspiration and air treatment and of the heating.

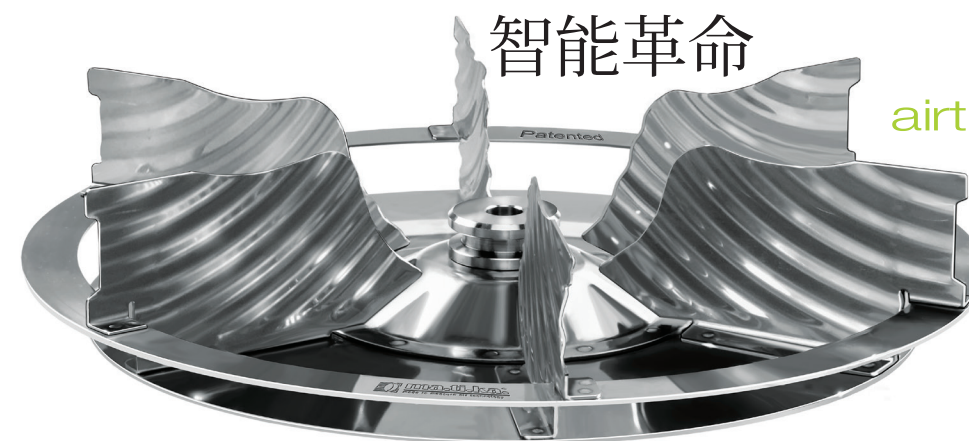


国际舞台上的马.蒂.卡
ma.ti.ka. in the World

THE AIR evolution.

智能革命

airtek 3.0



保持叶片尺寸不变，新的表面设计将...

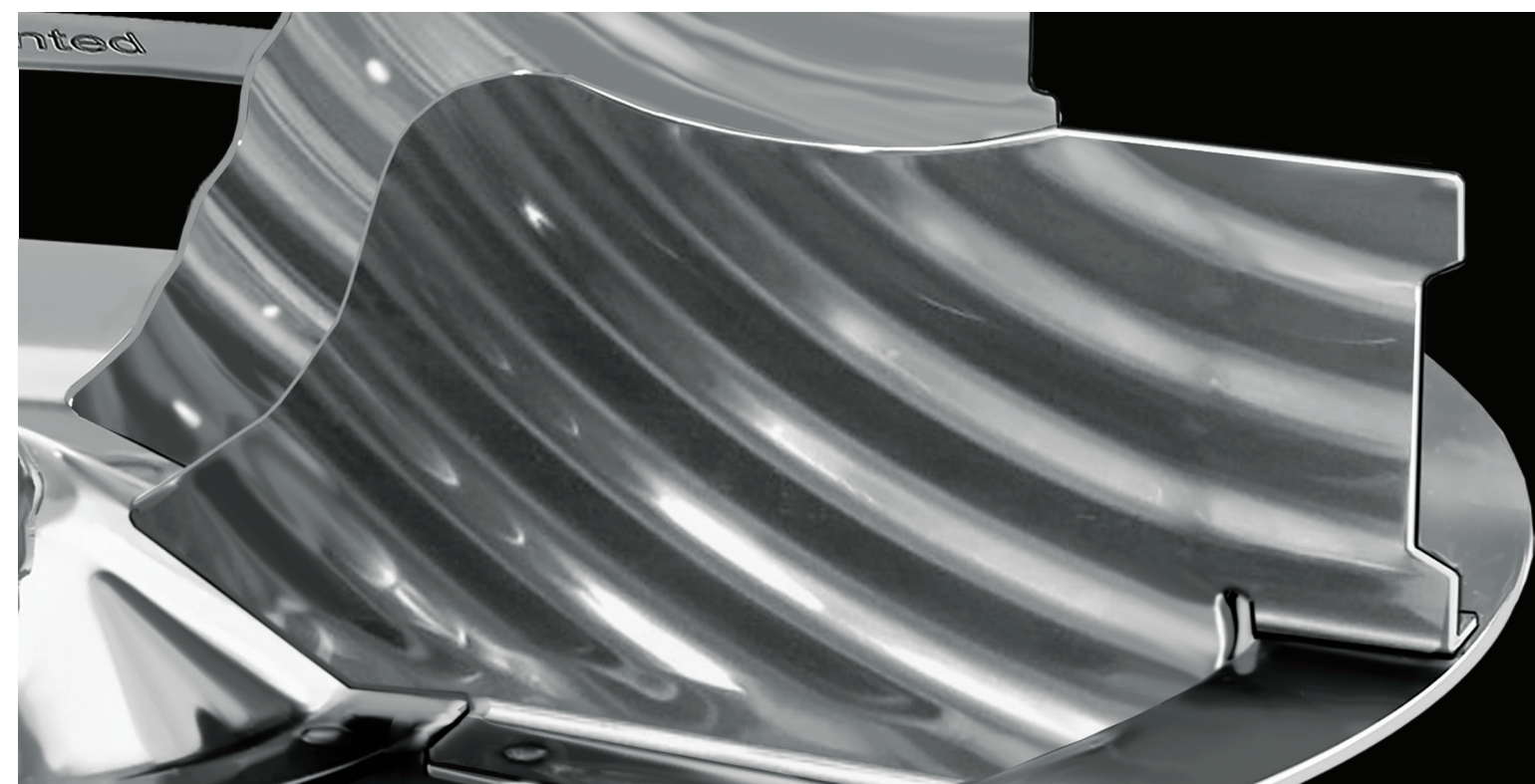
Keeping unchanged the blade dimension, the new surface design will...

...风扇轮气流增加 3%。
...节能增加 11%。
...提高风扇叶轮效率。
...减轻重量并改善倒转时间。
...最大化热交换的优化 流量分布。
...确保倒转时的对称性。
...改善水雾化。

...increase by 3% the fan-wheel **airflow**.
...increase by 11% the **energy saving**.
...increase the fan-wheel **efficiency**.
...reduce the **weight** and improve **the time of reversing**.
...**maximize the thermal exchange** to optimize the flows distribution.
...ensure **symmetry** when reversing.
...improve the water **nebulization**.

.....而且产品更漂亮!

.....and it is beautiful!





We create endless solutions

我们创造无尽的解决方案



创新、金属研究、科研、对环境的关注使得玛.蒂.卡设计发明了高科技空气运动系统，并一起与客户解决方案开发和科研，旨在所有项目定制应用中达到最高效率。

*The innovation, the study of metals, the research, the attention to environment allow **Ma.ti.ka.** to design high-technological air movement systems, developing together with the Client solutions aimed to reach the maximum efficiency in all custom-made applications.*



马.蒂.卡 的研究都是在自己的测试室中实现的，该测试室经过近二十年的研究和开发。并根据 ISO 5801 规范建立与奥地利研究所 HTBL 合作，。旨在满足业内的迫切需要，例如开发高效、现代化空气流动产品的意愿。马.蒂.卡的高科技技术在实验室中不断发展，以满足不断增长的市场需求。具备始终满足具体项目的实际要求和专项定制研究的能力，其中包括烤箱的工作点和热交换分析。这要归功于“测量方法”和内部处理的数学模式的发展。

*In **Ma.ti.ka.** the Research is actualized with the Testing Chamber, arised from an almost twenty-years cooperation with the Austrian Institute HTBL, built according to the norm ISO 5801. Thought to satisfy internal exigencies, such as the will to develop efficient and modern products in the air movement world, it has then evolved within **Ma.ti.ka.**'s laboratory in order to meet the market's growing requests for always more specific competence and custom-made study, among them the oven's working point and the thermic exchange analysis. This is thanks to the development of the "measuring method" and internally processed mathematic patterns.*

玛.蒂.卡的产品范围和不同的应用领域 Ma.ti.ka.'s products range and the different application ields



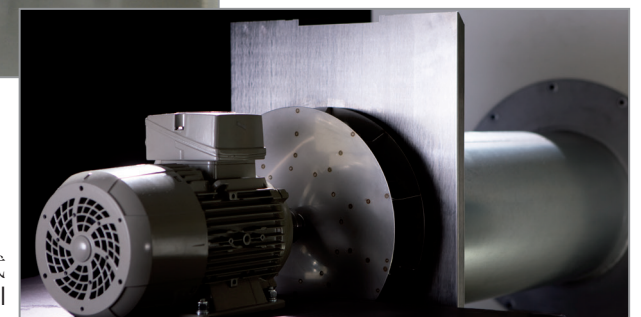
如需了解更多技术规格，请访问 matikasrl.it 网站上的“拳头产品”部分 - For more technical specifications, please visit our Key Production section on the web site matikasrl.it



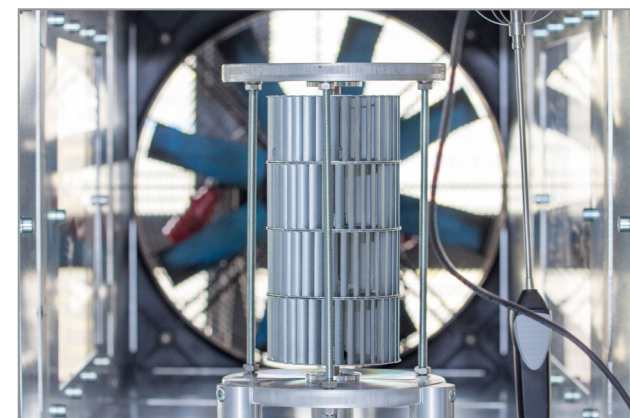
试验机规范 UNI EN ISO 5801
Testing Machine norms UNI EN ISO 5801

如今马.蒂.卡能够对所检查的系统提供流体动力学分析，从而在实际测量和计算模型之间达到正确的校准。这使客户能够始终更详细地了解和掌握自己的产品。

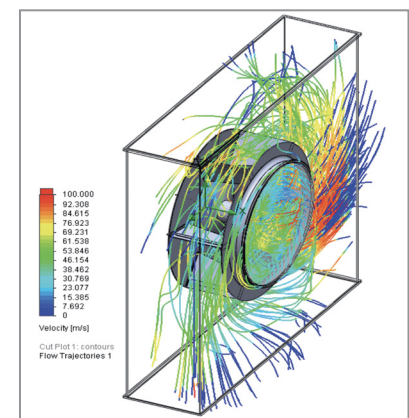
***Ma.ti.ka.** is nowadays competent to supply fluid-dynamics analysis of the examined systems, reaching a correct calibration between real measurements and computational models. This allows the client to have an always more detailed view of their own product.*



用面板和风扇轮进行测试
Test with panel and fan wheel



风道 - Wind tunnel



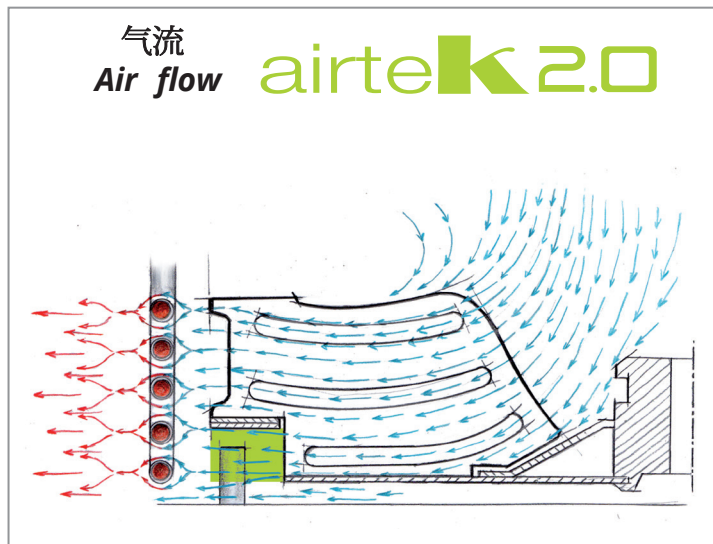
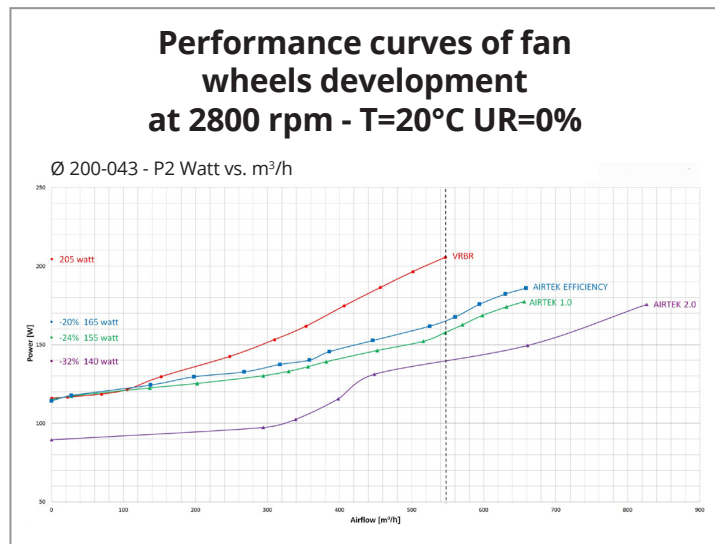
CFD 计算流体动力学 - CFD Computational Fluid Dynamic



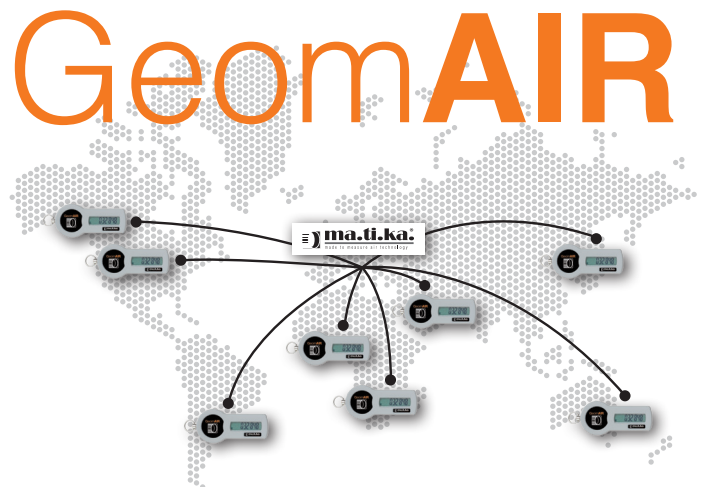
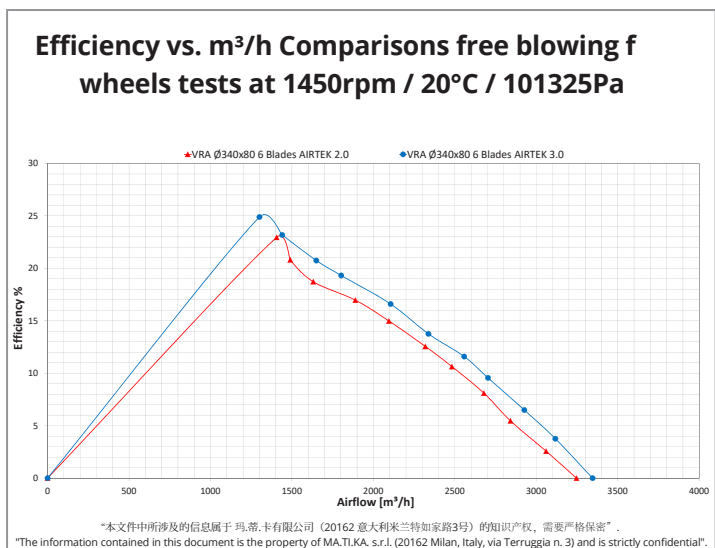
自2012年以来，伴随着变革，从设备重组到工程技术提升，从开发到生产，一切都与我们公司在精益逻辑的公司文化上形成的新理念保持一致
...精益创新诞生了，它由革命性的想法组成，就像 **Airtek 2.0** 的诞生一样。

*Since 2012 along with the changing, from the re-organization to the engineering, from the development to the production, all in a continuum with the new philosophy of ours company shaped on the Lean Thinking ...Lean Innovation has born, made of revolutionary ideas, without Muda as the **Airtek 2.0**.*

2800 rpm 时风扇叶轮发展的性能曲线



效率与 m³/h 比较 1450rpm / 20°C / 101325Pa 下的自由吹风轮测试



GeomAIR 可以从实验室测量的数据开始，确定烤箱基本参数修改时的工作点。这使得设计师能够缩短开发时间，始终保持拥有其现在和未来的专业知识，一切尽在掌握...

*GeomAIR allows, starting from data measured in laboratory, to determine the oven's working point, when its fundamental parameters are getting modified.
This enables the designer to shorten the time for development, always keeping its know-how - present and future - under control...*

服务 Services

新一代所有设备的空气运动复杂性有所不同，始终具有更多动态电子系统、更轻的结构、“更丰富”的直接注水，针对振动问题，测振仪测量由与流体相互作用引起的结构共振点、不平衡和热机械应力，为客户提供基本指导，以确保其产品处于 ISO 10816-1 标准规定的安全条件下运行。

有多种测量方法：冲击测试、FFT 分析和耐久性测试，以及由于该仪器是便携式的，因此可以在客户所在地立即平衡叶轮的便捷。

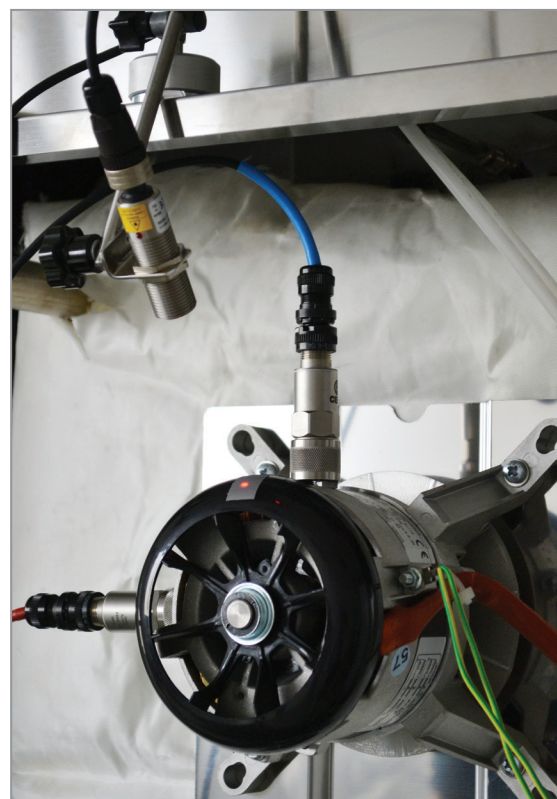
The complexity distinguishing all the devices for air movement of new generation, having always more dynamic electronic systems, lighter structures, “richer” direct water injections, this gives the start to the problem of vibrations.

Structural resonance points, un-balances and thermo-mechanical stress caused by the interaction with fluids are measured by the VIBROMETER, which gives the clients fundamental directions in order to keep its own products under safe conditions, prescribed by the Standards ISO 10816-1.

There are various possibilities to measure: Impact Test, FFT analysis and Endurance Test, in addition to an immediate balancing of the impellor at the client's place, as the instrument is portable.

便携式设备 N600

- 冲击试验
- 快速傅里叶变换
- 平衡机
- 忍耐力测试
- 总振动分析;
- 振动的同步分量;
- 振动阶段;
- I类：电机输出功率不超过 15 KW 的小型机器



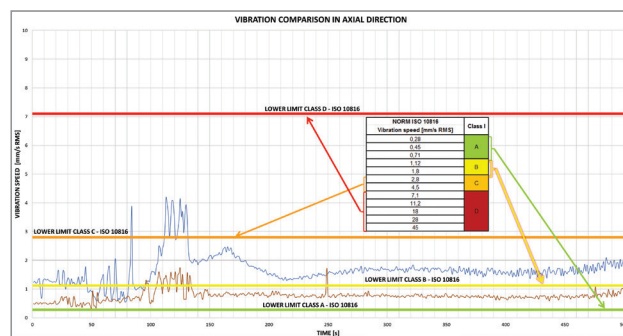
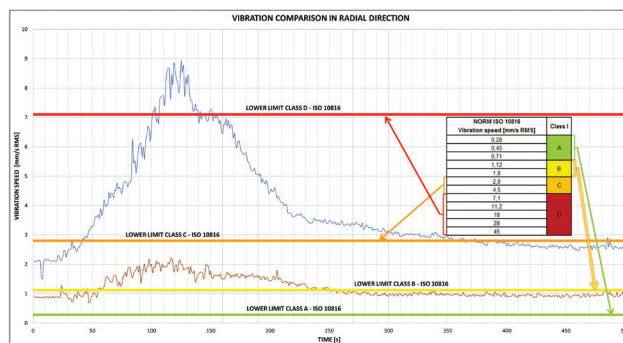
PORTABLE EQUIPMENT N600

- Impact Test
- FFT
- Balancing machine
- Endurance Test
- Analysis of Total vibration;
- Synchronous component of the vibration;
- Vibration phase;

Class I: small machine with motor outputs up to 15 KW

| VIBRATION SPEED: RMS [m/s] | Class I |
|----------------------------|---------|
| 0,28 | A |
| 0,45 | |
| 0,71 | |
| 1,12 | B |
| 1,8 | |
| 2,8 | C |
| 4,5 | |
| 7,1 | D |
| 11,2 | |
| 18 | |
| 28 | |
| 45 | |

参考规范 ISO 10816-1
Reference Norms ISO 10816-1



Our **vision**, your **evolution**.
您的发展是我们的愿景。

 **ma.ti.ka.**[®]