



机械检测事业中心

--国际准入认证

--激光安全认证

机械产品检测认证

Mechanical equipment testing and certification

CTNTTM

深圳市中为检验技术有限公司

关于我们 About us

深圳市中为检验技术有限公司由从事检测认证行业十余年的多位认证专家，对检测技术具有多年开发经验的技术专家、以及具有高学历背景的创新人才团队组成。拥有国家资质认定的第三方检测机构、中国认可国际互认检测实验室、中国能效标签备案实验室，所在地发改局备案的“量子光电磁检验检测技术公共服务平台”、检测行业创新技术研究基地等多项资质荣誉。是一家对于检测技术有绝对实力、对于市场准入和检测认证具有较深入研究和剖析的专业、权威第三方检测机构。

中为检验技术以“科学、创新、严谨、高效”为生存和发展的质量方针。在运行和管理过程中严格按照 ISO 17025 (GB/T 27025) 检测及校准实验室能力通用要求、GB/T 27425 科研实验室良好规范进行实验室规范运作，力求检测结果精准、认证过程高效、客户服务满意。

中为检验技术现建激光实验室、电气性能实验室、光学性能实验室、可靠性实验室、材料实验室、能效实验室共六大实验科室。特别对于光学和美容仪器有创新性和领先于行业的检测技术研究。能为社会提供激光、电子电器、蓝光防护、机械设备、家用电器、照明电器、信息通讯、人工智能、医疗美容等众多产品的质量分析、检测认证、市场准入咨询等多方位专业技术服务。

中为检验技术将为客户提高产品质量和减小合规风险作为第一社会责任，在检测认证过程中秉持公正科学的原则，为客户为社会提供专业优质的检验检测技术服务。同时为质量传递信任、为推动科学技术进步做出有力的贡献。

权威资质授权

- 中国认可、国际互认实验室（证书号 L15898）
- 资质认定第三方检测机构（证书号 202119015918）
- 中国能效标签备案实验室（证书号 2021-032260）
- 公共技术服务平台（深龙岗发改〔2021〕0184号）

五大事业中心

- 激光检测事业中心
- 美容仪检测事业中心
- 机械检测事业中心
- 家电电器检测事业中心
- 综合检测认证事业中心

CTNT is composed of multiple certification experts who have been engaged in the testing and certification industry for more than ten years, technical experts with years of development experience in testing technology, and a team of innovative talents with a high degree of education. Third-party testing institutions with national qualifications, China accredited international mutual recognition testing laboratories, China energy efficiency label filing laboratories, "quantum photoelectromagnetic inspection technology public service platform" filed by the local Development and Reform Bureau, and innovative technology research bases for the testing industry. And many other qualifications and honors. It is a professional and authoritative third-party testing organization with absolute strength in testing technology and in-depth research and analysis on market access and testing certification.

CTNT adheres to the quality policy of "science, innovation, rigor, and efficiency" for survival and development. In the process of operation and management, strictly follow the ISO 17025 (GB/T 27025) general requirements for testing and calibration laboratory capabilities, GB/T 27425 scientific research laboratories, and conduct laboratory standardized operations, and strive for accurate test results, efficient certification processes, and customers Satisfactory service.

CTNT currently has six major laboratory departments: laser laboratory, electrical performance laboratory, optical performance laboratory, reliability laboratory, materials laboratory, and energy efficiency laboratory. Especially for optical and beauty equipment, it has innovative and industry-leading testing technology research. It can provide the society with multi-faceted professional technical services such as laser, electronic appliances, blue light protection, mechanical equipment, household appliances, lighting appliances, information communication, artificial intelligence,

As the first social responsibility of improving product quality and reducing compliance risks for customers, CTNT will uphold the principles of fairness and science in the testing and certification process, and provide customers with professional and high-quality inspection and testing technical services for the society. At the same time, it delivers trust in quality and makes a strong contribution to the advancement of science and technology.

QUALIFICATION & AUTHORIZATION

- CNAS ILAC (L15898)
- China Metrology Accreditation (202119015918)



激光加工机械全球激光安全认证

Global Laser Safety Certification for Laser Processing Machinery

- 中国、美国 FDA、欧盟、英国、澳洲、俄罗斯、中亚、中东、非洲等全球国家地区激光安全认证
- China, US FDA, EU, UK, Australia, Russia, Central Asia, Middle East, Africa and other global countries and regions laser safety certification
- 中为检验技术是全国唯一同时有国内外激光标准 IEC/EN/BS/AS 60825、GB 7247.1、FDA 21CFR 1040.10 授权认可实验室
- CTNT is the only accredited laboratory has laser standards IEC/EN/BS/AS 60825, GB 7247.1 and FDA 21CFR 1040.10

国家和地区标准 Test standard

- GB 7247.1 激光安全等级 (中国)
GB 7247.1 laser safety class (China)
- IEC 60825 国际电工激光安全等级 (适用于中亚、中东、非洲)
IEC 60825 laser safety class (Central Asia, Middle East, Africa)
- EN 60825 激光安全等级 (欧盟)
EN 60825 laser safety class (European Union)
- BS 60825 激光安全等级 (英国)
BS 60825 laser safety class (United Kingdom)
- FDA 21CFR 1040.10 激光安全等级 (美国)
FDA 21CFR1040.10 laser safety class (America)
- AS 60825 激光安全等级 (澳洲)
AS 60825 laser safety class (Australia)

测试产品类别 Test product

- 激光雕刻机
Laser engraving machine
- 激光打标机
Laser marking machine
- 激光焊接机
Laser welding machine
- 激光切割机
Laser cutter
- 激光视觉导航机器人
Laser Vision Navigation Robot
- 其他激光加工机械
Other Laser Processing Machinery

同时提供激光产品 CNAS 盖章检测报告、FDA 注册号

机械国际认证

CE认证

IEC国际电工

机械产品国际认证

Machinery product International Certification

- 激光加工机械、工业机器人、服务机械人、消毒机械人
- Laser processing machinery, Industrial robots, Service robots, Disinfection robots

- 中为检验技术是全国唯一具有国际电气工程师协会工业激光标准 P2065/D5:2020 授权认可检测机构
- CTNT is the only accredited laboratory for International Electrical Engineers Industrial Laser Standard P2065/D5:2020

认证标准 Test standard

●A 类标准 Type A standard

- ISO/EN ISO 12100

●B 类标准 Type A standard

- IEC/EN IEC 60204-1
- ISO 14120
- ISO 13849
- ISO 14119
- ISO 14118
- ISO 61508-1
- ISO 13857
- ISO 61508-1

●C 类标准 Type C standard

- ISO 10218-1
- ISO 11553-1
- ISO 11553-2
- IEC 60335-1

合格评定程序 Certification item

- 欧盟 CE 认证/英国 UKCA 认证(MD、LVD、EMC 指令)
CE/UKCA-MD/LVD/EMC
- 其他国家机械合格评定 Other National Countries

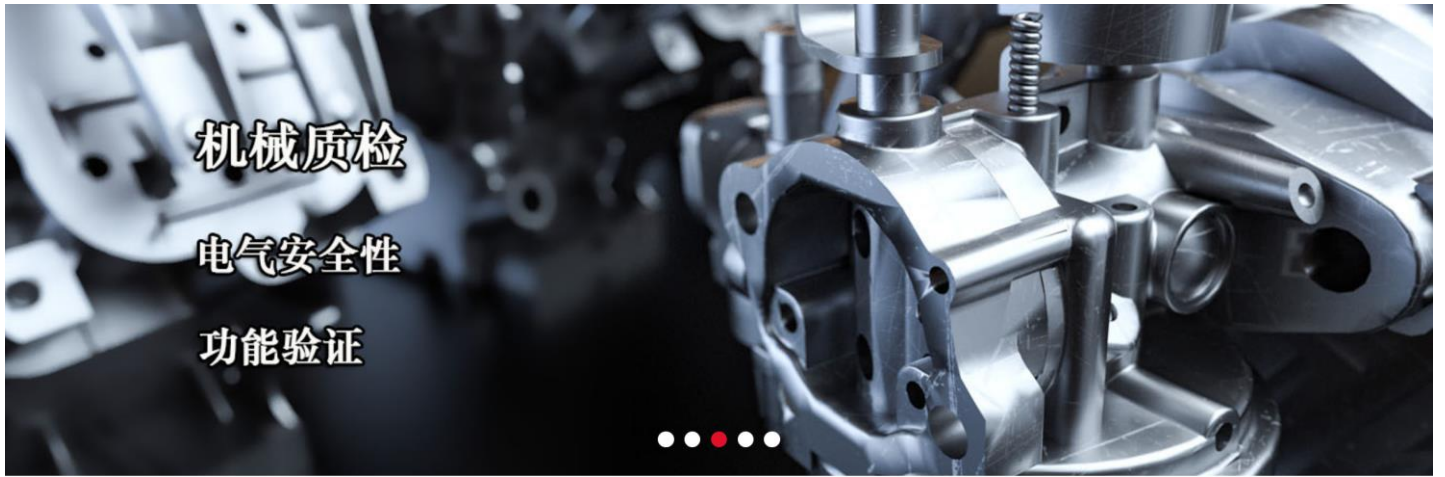
注：欧盟和英国有特定合格评定程序 CE/UKCA 认证外，其他很多国家地区对机械类产品的管制，常以法律法规角度出发，更加注重与消费者和环境相关产品安全的问题。如美国的职业安全卫生、环境保护、消费保护相关法律；日本的劳动安全卫生规则、产品责任法；韩国的安全健康法；中国的产品质量法和标准化法等。

而对于合格评定程序并未有强制的特定认证规则，部分国家有制定自愿性认证，如美国的 UL 和 ETL 认证、日本的 JIS 标志认证、韩国的 S 标志认证、中国的机械人 CR 认证均为自愿性认证

产品的质量安全评定依据大多时候可以参考国际标准化组织的 ISO 标准、国际电工 IEC 标准。评定程序可以参考 CE 执行。

Note: In many other countries the control of mechanical products and regions often starts from the perspective of laws and regulations, and pays more attention to product safety issues related to consumers and the environment. Such as the US occupational safety and health, environmental protection, consumer protection related laws; Japan's occupational safety and health rules, product liability law; South Korea's safety and health law; China's product quality law and standardization law.

Most of the time, the quality and safety assessment of products can refer to the ISO standards of the International Organization for Standardization and the International Electrotechnical IEC standards. The program can be executed with reference to CE.



机械产品中国质检

China Quality Inspection of Mechanical Products

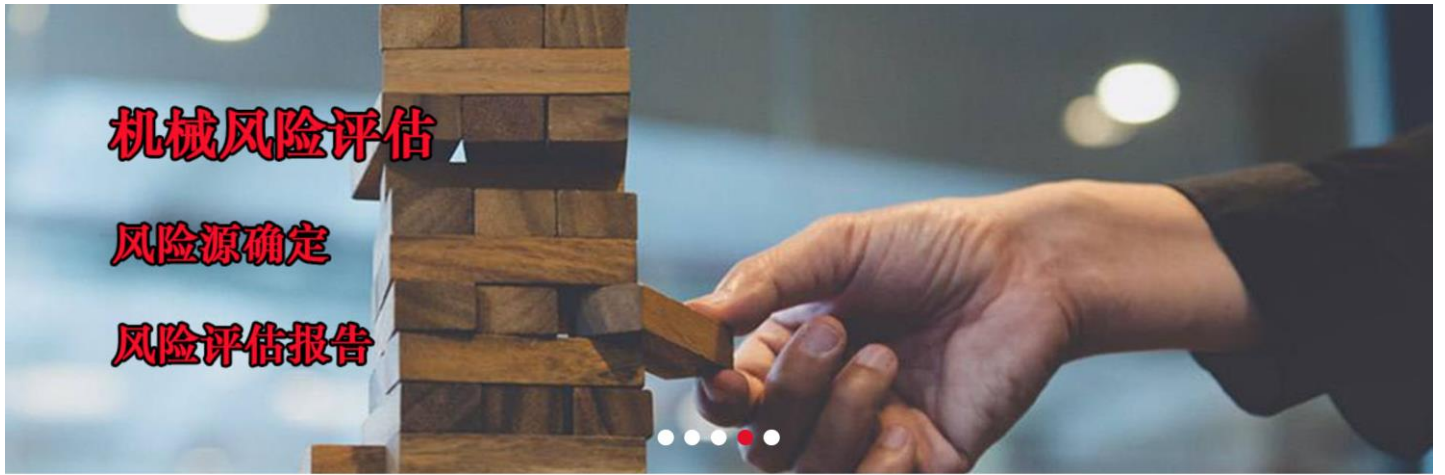
- 中为检验技术为全国极少数同时具有机械产品安全要求和功能要求双重能力的 CNAS、CMA 资质授权第三方检测机构
- CNAS ILAC (L15898)、CMA (202119015918) for machines safety requirements and functional requirements

验证指标 Validation metrics

- 机械安全项目
Machinery Safety items
- 电气安全项目
Electrical Safety items
- 激光安全项目
Laser safety items
- 功能验证项目
Functional Verification items
- 其他企业自定义项目
Other Enterprise Customization Items

检测对象 Test product

- 激光雕刻机 Laser engraving machine
- 激光打标机 Laser marking machine
- 激光焊接机 Laser welding machine
- 激光切割机 Laser cutter
- 生产加工类机械 Production and processing machinery
- 填充类机械 Filling machinery
- 物流类机械 Logistics machinery
- 工业机器人 Industrial robot
- 服务机器人 Service robot
- 消毒机器人 Disinfection robot



机械产品风险评估

Mechanical Product Risk Assessment

- 风险源检测、风险抑制措施指导、风险评估报告
- Electrical safety, Optical safety, Chemical safety

检测指标 Test Item

- 机械风险 Mechanical risk
- 电气风险 Electrical risk
- 热风险 Thermal risk
- 噪声风险 Noise risk
- 振动风险 Vibration risk
- 辐射危险（包括激光）Radiation Hazards (Including Lasers)
- 材料物质风险（粉尘中毒、爆炸等）Material substance risks
- 人体工学风险 Ergonomic Risk
- 与机械使用环境相关的风险 Risks associated with environment
- 组合风险 Portfolio risk
- 结构和标识检查 Construction and marking Checks

检测对象 Test product

- 激光雕刻机 Laser engraving machine
- 激光打标机 Laser marking machine
- 激光焊接机 Laser welding machine
- 激光切割机 Laser cutter
- 生产加工类机械 Production and processing machinery
- 填充类机械 Filling machinery
- 物流类机械 Logistics machinery
- 工业机器人 Industrial robot
- 服务机器人 Service robot
- 消毒机器人 Disinfection robot



含激光类机械 FDA 认证

FDA certification for laser machines

- 依据美国联邦法规 21 CFR Subchapter J 的规定，所有使用激光（含加工、指示、测量、对准、视觉）的机械均被视为辐射发射体，受辐 FDA 辐射放射安全中心 CDRH 的监管，进入美国产品需符合激光标准要求并按规定进行报告
- According to the regulations of 21CFR Subchapter J of the United States Federal Regulations, all machines using lasers (including processing, indicating, measuring, aligning, and visual) are regulated by FDA Radiation Safety Center CDRH.
- 中为检验技术是全国唯一具有激光标准 FDA 21CFR 1040.10 授权认可的检测机构
- CTNT is the only accredited laboratory has laser standards FDA 21CFR 1040.10

服务产品 Service product

- 激光雕刻机 Laser engraving machine
- 激光打标机 Laser marking machine
- 激光焊接机 Laser welding machine
- 激光切割机 Laser cutter
- 物流类机械（激光视觉）Logistics machinery (Laser vision)
- 工业机械人（激光视觉）Industrial robot (Laser vision)
- 服务机械人（激光视觉）Service robot (Laser vision)
- 消毒机器人（激光视觉）Disinfection robot (Laser vision)
- 其他机械（含激光）Other machine (Including laser)

服务项目 Service items

- 激光 FDA 21CFR1040.10 检测
Laser FDA 21CFR1040.10 testing
- 激光 FDA 首次报告（取得登录号）Laser FDA first time report (obtain Accession Numbers)
- 激光 FDA 年度报告 Laser FDA Annual Report
- 激光 FDA 注册资料指导 Laser FDA requit document guide
- 激光产品出口前通报 FDA FORM 2877 指导
FDA FORM 2877 Guidance for Notification of Laser export
- 激光机构设计和标志指导 Laser construction and marking
- 美代服务 US Agent Services
- 法规咨询 Regulatory Consulting



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