

第七届ORTHOMaterials™骨科及齿科植入器械制造技术论坛

The 7th ORTHOMaterials™ Orthopaedic and Dental Devices Manufacturing Technology Forum



2024年9月12日-13日
12-13 September 2024



江苏常州中吴宾馆
Zhongwu Hotel, Changzhou, Jiangsu, China



会议日程

CONFERENCE AGENDA

2024年9月12日		12 September 2024
08:00 – 09:30	签到	Registration
09:30 – 09:40	欢迎辞 ORTHOMaterials 翁益良	Welcome Speech ORTHOMaterials Yiliang WENG
09:40 – 10:10	协同共创-产业价值链的融合和再造 中国生物材料学会 副理事长 聂洪鑫	Integration and Recreation of the Industrial Value Chain by Collaboration Chinese Society for Biomaterials Vice Chairman Hongxin NIE
10:10 – 10:40	人工关节润滑体系的构建及应用 上海理工大学 教授 曾祥琼	The Construction and Application of Artificial Joint Lubrication System University of Shanghai for Science and Technology Professor Xiangqiong ZENG
10:40 – 11:00	茶歇及互动	Tea Break & Networking
11:00 – 11:30	骨植入物表面钽金属涂层的应用研究 中国科学院金属研究所 副教授 王青川	Application Research of Ta Coatings on Bone Implants Institute of Metal Research, Chinese Academy of Sciences Associate Professor Qingchuan WANG
11:30 – 12:00	体外实验和计算机模拟：加速骨科植入器械开发 上海大学机电工程与自动化学院 特聘讲师 朱俊俊	In Vitro Experiments and Computer Simulations: Accelerating the Development of Orthopedic Implants School of Mechatronic Engineering and Automation, Shanghai University Distinguished Lecturer Junjun ZHU
12:00 – 13:00	午餐	Lunch

先进制造分会场		Session on Advanced Manufacturing
13:00 – 13:40	一站式骨科植入物磨削解决方案 昂科（中国） 售前技术 & 特殊项目经理 张伟	One-Stop Solution for Orthopaedic Implant Grinding ANCA (China) Pre-Sales Technical & Special Projects Manager David ZHANG
13:40 – 14:20	典型骨科植入物加工解决方案 山高刀具（中国） 医疗行业及整硬产品经理 沈波	Typical Orthopedic Implants Machining Solutions SECO TOOLS (China) Product Manager Bo SHEN
14:20 – 15:00	桌面级五轴加工中心在植入物产品的工艺应用 巨浪（中国） 医疗行业销售经理 赵鹏	Process Application of Tabletop Level 5-axis Machining Center in Medical Implants CHIRON (China) Sales Manager - Medical Austin ZHAO
15:00 – 15:20	茶歇及互动	Tea Break & Networking
15:20 – 16:00	高效的清洗：脉冲变压清洗 埃克科林（中国） 高级区域销售经理 熊英	Efficient &Validated Cleaning: PPC ECOCLEAN (China) Senior Regional Sales Manger Richard XIONG
16:00 – 16:40	医疗植入物的高效生产与精密夹持技术 雄克（中国） 产品工程技术总监 麻晓杰	The Efficient Production and Precision Clamping Technology of Medical Parts SCHUNK (China) Component Engineering Director Mark MA
16:40 – 17:20	Studer 陶瓷植入件的磨削工艺 联合磨削（中国） 销售总监 呼杨	Studer Grinding Solution for Ceramic Implants UNITED GRINDING (China) Sales Director Eric HU
17:20 – 18:00	高精度多轴数控机床在齿科植入体及骨科领域的高效率及创新应用技术 托纳斯（中国） 应用部经理 陈耀	High Efficiency and Innovative Application of High Precision Multi-Spindle CNC Machine in Dental Implants and Orthopedics TORNOS (China) Application Manager Yao CHEN
18:15 – 20:00	晚宴	Banquet

材料和检测分会场		Session on Materials and Testing
13:00 – 13:40	硬组织病理技术与骨科学研究 艾伟科技 联合创始人 & 技术总监 王东胜	Hard Tissue Pathology Techniques and Orthopedic Research AICA Sci-Tech Co-Founder & CTO Dongsheng WANG
13:40 – 14:20	植入材料无损检测方法的可能性和局限性 EZM 质量总监 Jan Felix LOHMANN	Possibilities and Limitations of Non-Destructive Quality Testing Methods for Implant Materials EZM Head of Quality Department Jan Felix LOHMANN
14:20 – 15:00	使用计量型工业 CT 全面测量骨科和齿科零件 惟德（中国） 总经理 Zhichao LI	Comprehensive Measurement of Orthopaedic and Dental Parts Using Metrological Industrial CT WERTH (China) General Manager Zhichao LI
15:00 – 15:20	茶歇及互动	Tea Break & Networking
15:20 – 16:00	骨科应用中的医用金属材料 韦恩堡金属 新产品开发高级工程经理 Adam ANSPACH	Medical Grade Metals in Orthopaedic Applications FORT WAYNE METALS Senior Engineering Manager of New Product Development Adam ANSPACH
16:00 – 16:40	医疗技术中拥有完美表面的秘密 BRUKER ALICONA 全球应用主管 Kevin MATHY & 高级应用工程师 黄堃	The Secret of Flawless Surfaces in Medical Technology BRUKER ALICONA Head of Global Application Kevin MATHY & Senior Application Engineer Billy HUANG
16:40 – 17:20	特殊钛合金为医疗植入行业带来更多可能 大同特殊钢 副总经理 矢野弘周	Special Titanium Alloys Bring More Possibilities to the Medical Implant Application DAIDO STEEL Deputy General Manager Hirochika YANO
17:20 – 18:00	解锁骨科及齿科植入器械全流程质量管控 蔡司（中国） 医疗行业销售经理 杨浚杰	Unlocking the Whole Process of Quality Control for Orthopedic and Dental Implantable Devices ZEISS (China) Medical Sales Expert Ryan YANG
18:15 – 20:00	晚宴	Banquet

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先进制造分会场

Session on Advanced Manufacturing

09:00-09:40	基于仿真技术工程化的骨科应用方案 海克斯康（中国） 医疗仿真专家 王进
09:40-10:20	植入物和医疗器械的光饰技术及其数字智能化 罗斯勒 全球医疗行业销售专家 Michael STRIEBE
10:20-10:40	茶歇及互动
10:40-11:20	髋关节植入物加工难点应对方案 德马吉精森机（中国） 医疗卓越中心负责人 言柏超
11:20-12:00	医疗器械超短脉冲激光标识应用解决方案 FOBA（中国） 销售经理 郑宇

Engineering-based Orthopedic Application Scheme Utilizing Simulation Technology HEXAGON (China) Medical Simulation Expert Jin WANG
The Mass Finishing of Implant and Medical Device and its Smart Digitization RÖSLER Global Sales Expert Medical Michael STRIEBE
Tea Break & Networking
Hip Joints Machining Challenge Solution DMG MORI (China) Head of Excellence Center Medical Bochao YAN
Medical Device USP Laser Marking Solutions FOBA (China) Sales Manager Eric ZHENG


材料和检测分会场

Session on Materials and Testing

09:00-09:40	聚醚酮酮材料在可植入医疗器械中的 3D 打印性能研究 SEQENS大中华区代理 - 乐信新材料科技 总经理 余红兵
09:40-10:20	三类植入类产品注册要点和案例分析 奇敏儿信息咨询 培训经理 周双全
10:20-10:40	茶歇及互动
10:40-11:20	如何与 CRO 合作开展骨 / 齿科器械功效性及生物相容性评估 药明康德医疗器械测试中心 生物相容性实验室技术负责人 徐彪 & 手术服务中心资深专题负责人 穆钰峰
11:20-12:00	涂层和薄膜材料表征和失效分析 毅博科技（中国） 高级经理 杨丽洁 & 首席科学家 刘亦非

The Study of PEKK in Additive Manufacturing for Implant Device Agent of SEQENS in Greater China - Lexsyn New Material Technology General Manager Hongbing YU
Class III Medical Device Registration Tips and Cases Analysis QME Consulting Training Director Shuangquan ZHOU
Tea Break & Networking
How to Work with CRO to Evaluate the Efficacy and Biocompatibility of Bone/Dental Devices Wuxi AppTec Medical Device Testing Center Technical Director of Biocompatibility Laboratory Biao XU & Senior Study Director of Surgical Services Yufeng MU
Coating and Thin Film Material Characterization and Failure Analysis EXPONENT (China) Senior Manager Lijie YANG & Principal Scientist Yifei LIU

金属材料	METALLIC MATERIALS	
	提供符合医疗器械行业质量标准的精密薄壁不锈钢管的市場领导者。	Market leader in supplying precision stainless steel thin wall tubing that meets medical device industry quality standards.
	提供 TC4/TC4ELI/TC20/TA1G/TA2G/TA3G/TA4G 棒、丝材的专业医用钛合金材料制造商。	Professional medical titanium alloy material manufacturer offering bars and wires in GR5/GR23/Ti-6Al-7Nb/GR1/GR2/GR3/GR4.
	主要生产用于医疗器械行业的植入体、牙科以及手术用纯钛和钛合金产品，包括圆棒、盘条等，明星材料有 Ti-6Al-7Nb 和 Ti-15Mo。	Mainly produces implants, dental and surgical pure titanium and titanium alloy products for the medical device industry, including round bars, wire rods, etc, including star materials Ti-6Al-7Nb and Ti-15Mo.
	专业生产高精度钛合金和不锈钢丝材、棒材、板材及型材，为骨科和齿科的植入物及手术器械制造提供可靠材料解决方案。	Professional manufacturer of wires, bars, sheets and sections in medical titanium and stainless seel with high precision for application orthopaedic and dental implants and instruments.
	金属中空材的全球领导者，提供用于骨科和齿科植入物及手术器械应用的钛合金和不锈钢中空材、薄壁管和实心棒的一站式金属解决方案，以及聚合物系列植入物的注塑成型代工服务。	World's leading producer of cannulated bars in titanium and stainless steel for the production of orthopaedic implants and surgical instruments in trauma, spine and sports medicine applications, as well as supply of thin wall tubing and solid bars to offer one-stop solution of metallic materials, and also offering injection molding service of polymers for implants.
	世界领先的精密线材材料制造商，专注于为全球医疗器械行业提供定制材料解决方案。50 多年来，我们致力于为各种对材料有极高要求的应用上提供一系列的定制化的解决方案，包括线材、棒材、线缆、定型部件和机械组件。	A leading manufacturer of precision wire-based materials that our customers use in their medical devices to help improve people's lives around the globe. For more than 50 years, we have supported the most demanding applications by providing an array of customized material solutions, including wire, bar, strands, cables, shape-set parts, and mechanical assemblies.
	全球领先的钛合金制造商，提供骨科、创伤植入物和手术医疗器械用的钛合金原材料，并提供关节、创伤植入物和人工髋关节。	A trusted, fully-integrated, worldwide supplier of specialty Titanium products, including bars, coils, fine wire, net shapes and hot rolled products, together with finished medical implants for knees, spine and trauma and hips.
	生产研发钛合金、钴基合金、锆钼合金等常规及新产品医用棒丝材。代表牌号：TC4Eli、TC20、高强纯钛、Ti15Zr、CoCrMo、CoCrWNI、Zr2.5Nb。	Production, research and development of wires and rods for orthopedic implants of titanium alloys, cobalt-based alloys and zirconium alloys, such as Grade 5, Grade 23, Ti6Al7Nb, CoCrMo, CoCrWNI, Zr2.5Nb, and so on.
	钛及钛合金薄板领域业内领先者，拥有完整的钛及钛合金板材全流程生产线，专业提供 0.4mm 以上钛及钛合金厚度医用板材。	Leading producer in the field of sheet and plate for titanium and titanium alloy, with a complete full-process production line, providing thickness 0.4mm and above 0.4mm medical grade sheets and plates of titanium products.
	近百年历史的欧洲医疗产业原材料供应商，提供骨科植入物和手术医疗器械的钛合金、钴铬钼及不锈钢原材料。	Almost a century of European medical raw material supplier, providing implantable and instrumental material ranges from titanium alloys, CCM and stainless for medical market.
	全球最大的全产业链钛材生产商，供应医疗用途的钛板和钛棒，并提供完整的仓储物流和切割服务。	World's largest fully vertically integrated titanium producer, providing titanium plates and bars for medical application as well as warehousing, logistics and cutting services.
非金属材料	NON-METALLIC MATERIALS	
	可吸收骨科植入材料，具有的生物相容性和生物降解性优势，在运动医学、外伤、颅颌面等手术领域中，可作为治疗肌肉骨骼系统损伤。	Especially developed for resorbable orthopedic implant devices and serve as the matrix in a wide variety of applications to treat injuries such as sports medicine, trauma and spinal surgery.
	生产和销售符合医疗行业规范的高性能工程塑料型材（板 / 棒 / 管），并提供塑料精密加工及注塑成型服务。	Manufacture and sell high-performance engineering stock shape, including sheets, rods and tubes, that comply with medical industry standards, and also provide plastic precision machining and injection molding services.
	提供植入级聚醚醚酮 VESTAKEEP®，植入级可降解聚合物 RESOMER®，以及医疗级尼龙等高性能聚合物。	A global leading supplier of high performance polymers for medical application, including implantable PEEK (VESTAKEEP®), bioresorbable polymers (RESOMER®), and PA12 etc.
	为医疗器械制造商提供高性能可植入 PEEK 材料解决方案的全球领先企业，提供的产品和服务用于脊柱、创伤和骨科医疗领域的组件的制造，旨在研发使用寿命更长的植入式医疗器械。	A global leader in providing high-performance implantable PEEK solutions to medical device manufacturers. The company provides products and services for spine, trauma and orthopaedic and dental medical segments for the development of long-term implantable medical devices.
	生产和销售 AKSOPEEK 品牌植入级 PEEK 材料、植入级碳纤维增强 PEEK，医用碳纤维增强 PEEK、PPSU、PEI 等医用高分子材料，可配套客户完成从原料采购到制品代工的一站式服务。	Manufacture and sale of AKSOPEEK Implant-grade PEEK, Implant-grade carbon fiber reinforced PEEK, Medical carbon fiber reinforced PEEK, PPSU, and PEI. One-stop services to customers from raw material procurement to product OEM.
	提供 优质可植入 PEEK（聚醚醚酮）- Zeniva® PEEK 和 UHMW-PE（超高分子量聚乙烯）- Chirulen® / Extrulen® UHMW-PE 型材。	Offers a product range that includes both high quality PEEK (polyetheretherketone) Zeniva® PEEK and UHMW-PE (ultra-high molecular weight polyethylene) - Chirulen® / Extrulen® UHMW-PE products.
	提供植入级聚醚醚酮 IMPEKK®，植入级可降解聚合物 EXPANSORB®，以及植入级聚氨酯等其他高性能聚合物的定制服务。	A global leading supplier of high performance polymers for medical application, including implantable PEKK (IMPEKK®), bioresorbable polymers (EXPANSORB®), and Custom production of PU.
	专注于医疗器械和生命科学领域。主要提供洁净室塑料注塑，后道加工及组装服务。同时，集团旗下 Orthoplastics 公司作为植入级 UHMWPE 制品的行业领导者，提供 UHMWPE 材料的压缩成型及性能测试服务。	As a global medical device manufacturer, we provide injection molding, secondary process and assembly for medical devices. As a world leader in the development and supply of implantable-grade UHMWPE for orthopedics applications, we provide Direct Compression Moulding and Laboratory Services.
	作为高性能热塑性型材挤出和模压成型技术的世界领先制造商，我们的先进技术让我们将全系列的热塑性树脂转化为棒材、片材和薄膜。	As a world leading manufacturer in extrusion and compression molding technologies of high performance thermoplastics, our advanced technologies allow us to convert the full range of thermoplastic resins into rods, sheets, and film.

包装材料	PACKAGING MATERIALS	
	<p>作为超净包装集团的全资子公司，于 2005 年在中国成立，集团不仅和全球医疗公司合作，还重点发展其在亚洲市场的服务。作为全球第一批深耕在骨科和牙科领域的企业，依托超净集团在国际 90 多年丰富的技术经验，目前我们的服务范围已扩展到医疗器械合同制造的领域。</p>	<p>Combining 90 years' experience & international technical know-how, we are part of Top Clean Packaging group network to accompany global medical companies but also to better adapt to and serve local Asian players since 2005. Pioneer for medical packaging standards in China with a strong expertise in orthopaedics and dental field, we now extend our service to medical device contract manufacturing.</p>
	<p>百分百专注于医用包装，为医疗器械、诊断及制药行业提供高品质的医用包装解决方案。提供灭菌袋、盖材、卷材、支撑卡等多种医用包装。</p>	<p>100% focus on medical packaging, providing high quality medical packaging solutions for the medical device, diagnostic and pharmaceutical industries. Provide sterilization Pouch, Lids, rollstock, HDPE cleancut card and other medical packaging.</p>
	<p>提供通用标准化和定制化硬质塑料医用包装解决方案，广泛应用于医疗器械、齿科器械、健康护理产品和实验室诊断仪器设备等。</p>	<p>Focusing on providing universal standardized and customized hard-plastic packaging solutions for applications such as medical devices, dental devices, health care products, and laboratory diagnostic equipment.</p>

工艺服务	PROCESSING SERVICES	
	作为技术开创者,50 年专注等离子热喷涂,为北美、欧洲、亚太客户关节、脊柱、创伤和齿科种植体等骨科植入物,以及手术工具,提供专业涂层服务,拥有喷涂纯钛、钛合金、羟基磷灰石、钽涂层等领先技术与国际品质。	Provider of advanced and high quality plasma coating service for orthopedic implants and surgical tools in the area of joints, spine, trauma and dental implants. Coating services include coating of pure titanium, titanium alloy, hydroxyapatite and tantalum coatings.
	国内领先的人工关节植入物铸件供应商,提供高品质高性能的股骨髁、胫骨托、股骨柄、双极杯、球头、试模件等毛坯铸件。	Leading implant casting supplier in domestic market, providing high quality&performance casting parts such as Femoral Component, Tibial Baseplate, Hip Stem, Bi-polar cup, Hip Head, Femoral Trial, etc.
	亚太地区独家获得多家国际知名骨科企业认证的医疗骨科植入物精锻件供应商,提供钛合金、高氮不锈钢材质的高质量人工关节精锻髋臼杯、股骨柄和胫骨托与航空高端零部件,致力于专业化和精益管理,以高效率的运营和高质量的产品满足客户需求。	The only medical orthopedic implant precision forgings supplier in the Asia-Pacific region that has been certified by several internationally renowned orthopedic companies. Provide high quality precision forged acetabular cup, femur stem and tibial tray made of titanium alloy and high nitrogen stainless steel and high-end aviation parts. Dedicated to specialization and lean management, to meet customer needs with efficient operations and high-quality products.
	我们的 Medthin™系列涂层具有高硬度、良好的结合力、高断裂韧性、低摩擦特性,这些涂层现在广泛应用于医学植入物及手术器械中。	Our Medthin™ series of coatings features high hardness, excellent adhesion, fracture toughness and low friction that are widely used in medical implants and surgical instruments.
	为种植体生产企业提供种植体、基台及其他种植体附件数控加工及表面处理(喷砂酸蚀,阳极氧化)的代工服务;为骨科生产企业提供脊柱创伤类产品的数控加工及表面氧化的代工服务;椎体成形工具、骨科手术工具、模具加工、注塑件加工等加工业务。	CNC machining and surface treatment (sandblasting, acid etching, anodizing) of implants, abutment and other implant accessories for implant manufacturers; Provide CNC machining and surface oxidation OEM services for orthopedic manufacturers of spinal trauma products; Vertebra forming tools, orthopedic surgery tools, mold processing, injection parts processing and other processing business.
	向创伤、脊柱、关节、齿科种植体、工具器械类产品的生产商提供全套超声波清洗及各项表面处理工艺研发、代工服务、设备及附属设施。	Total solution provider of ultrasonic cleaning, R&D of cleaning and surface treatment process and service of surface treatment for trauma, spine, joint, dental implant and instrument products.
	为脊柱、关节重建、运动医学、创伤和四肢市场提供全方位医疗器械开发和制造服务的全球解决方案提供商。也是医疗领域铸造、机加工、等离子喷涂、阳极氧化和增材制造方面的技术专家。	A global provider of full-solution medical device development and manufacturing for spine, reconstruction, sports medicine & trauma, and extremities markets. And a recognized expert in casting, machining, plasma spray coatings, anodization, additive manufacturing technologies in the medical field.
	专注于金属材料高端热处理整体解决方案及加工业务。公司主要服务于:汽车发动机动力核心零部件热处理加工;精密磨具的表面硬化处理;精密医疗器械及零部件的光亮处理;航空零部件功能处理。	Focusing on high-end heat treatment solutions and processing business for metal materials. The company mainly serves: heat treatment processing of core components of automotive engine power; Surface hardening treatment of precision grinding tools; Bright treatment of precision medical devices and components; Functional processing of aviation components.
	我们致力于满足医疗植入物公司对金属表面处理的需求,提供植入物和相关器械的钛和铝阳极氧化服务。专业致力于高端表面处理技术的创新、研发、推广和应用。	By approaching the needs of medical implants companies for metal finishing, we are providing titanium and aluminum anodizing services of implants and instruments. We are committed to innovation, R&D, promotion, and application of high-end surface treatment techniques.



咨询及检测服务

CONSULTING AND TESTING SERVICES



从事医学软组织、脱钙骨组织、不脱钙硬组织、种植体、含有植入物骨组织等病理组织的处理、样本切磨片、常规、特殊染色和免疫组化染色、骨形态学计量分析等服务。

Engaged in the treatment of pathological tissues such as medical soft tissue, decalcified bone tissue, non-decalcified hard tissue, implants, and bone tissue containing implants, sample sectioning and grinding, routine staining, special staining and immunohistochemical staining, and bone morphometric analysis services.



专注生物力学测试，涉及产品包括：骨科材料及植入物；牙科材料及植入物；运动医学产品；各种金属、高分子、陶瓷以及复合材料等。

Our experts assess strength, resistance, durability and ageing of various joint endoprosthesis, osteosynthesis products, trauma products, surgical instruments and PE/ ceramic and composite material.



美国FDA及欧盟CE全球取证一站式服务领航者。提供骨科化学表征及毒理学评价、生物相容性测试、动物实验、及欧美注册咨询服务。为全球知名第三方验证公司合作方并為亮宇OECD GLP国际级生物学实验室指定代表。

One-stop shop medical device consulting company providing the material chemical analysis and toxicology evaluation, biocompatibility and preclinical animal testing, US FDA and CE consulting service. We are the global third-party partner and agent of LEON OECD GLP biocompatibility laboratory.



整合了德国实验室、德国设备制造商及国内优秀资源的第三方植入物检测实验室，使用各类国际先进的检测设备，可以为客户提供各种产品注册检测服务和研发检测服务。

A professional third-party implant testing laboratory by integrating German test service provider, German equipment manufacturer and domestic excellent resources, using a large number of international advanced testing equipments, which can provide customers with various product registration testing services and R & D testing services.



服务骨科齿科行业多年，服务项目包含：法规咨询；临床前研究（新材料/产品性能研究、磁共振兼容性、全套生物学、大动物试验、工艺确认）；注册检测；临床试验，真正做到了全流程一站式服务。

Being serving the orthopedic and dental industry for many years with service projects including regulatory consulting; Pre clinical research (new material/product performance research, magnetic resonance compatibility, complete biology, large animal testing, process confirmation); Registration testing; Clinical trials, and have truly achieved one-stop service throughout the entire process.



在医疗器械领域我们提供MRI安全性和兼容性测试、失效分析、实验设计和测试、有限元分析、工厂审核、美国和欧盟监管文件提交、植入物取出分析、产品召回相关的技术咨询服务。

As an engineering and scientific consulting firm, we provide technical services including MRI safety and compatibility test, failure analysis, experimental design and testing, finite element analysis, quality assurance and factory audit, regulatory submissions in USA and Europe, explanted device analysis and product recalls in medical device industry.



专业第三方检测服务平台，服务以动物、微生物、物理、化学为基础，植入、介入产品为特色，可为全球医疗器械生产企业新产品快速上市提供专业、快捷、可靠的验证方案及测试服务。

Professional third-party testing service platform, the service is based on animal, microbial, physical, chemical, implant, interventional products as the characteristics, for the global medical device manufacturers to quickly market new products to provide professional, fast, reliable verification solutions and testing services.



为医药企业提供全生命周期服务的专业公司并拥有 20 年的行业经验。我们的检测机构是首家获得国家级资质的非公有制机构并拥有多样的检测能力。我们的咨询机构为客户定制策略，加速上市。

Professional services provider for medical enterprises with 20 years experience. Testing lab is the first non-public institution that obtains ChinaLaboratory Mandatory Approval with strong testing capacity. Consulting service assists client to establish global market strategy and speed the access to the market.



外科植入物力学性能检测的第三方检测平台，拥有自主研发的检测设备，具有ISO17025等资质，报告可提交至NMPA、CE、FDA进行产品注册。

The third-party testing platform for Mechanical properties testing of surgical implants, has self-developed testing equipment and ISO 17025 certification. Reports can be submitted and used to NMPA, CE, and FDA for product registration.



2004年成立，专注于全球医疗器械注册和临床试验服务，为医疗器械企业提供一站式解决方案，帮助客户实现可持续的竞争优势。我们精通中国及欧美等国际医疗器械注册法律法规、技术规范，在法规解读、标准理解、申报文件编写、临床试验等方面具有明显的优势。

Founded in 2004, being specialized in global medical device registration and medical device clinical trial services, to provide one-stop solutions for medical device manufacturers and dealers, and help customers achieve sustainable competitive development. We are proficient in NMPA and international medical device registration regulations. With customer-oriented service idea, we have supported almost 1000 clients all over the world and achieved more than 3800 NMPA certificates successfully.



上理检测

一家第三方检测（CMA/CNAS）服务平台。以专业技术为驱动，以客户服务为核心，为国内外客户提供检测、研发、注册咨询及临床比对服务。

We are a professional third-party testing (CMA/CNAS) service platform. Driven by professional technology and customer service as the core, we provide testing, research and development, registration consultation and clinical comparison services for customers at home and abroad.



始于1984年，源于苏州医学院，检测行业学院派。为全球医疗器械研发生产企业提供清洗验证、动物实验、生物相容性、包装验证、化学表征等检测服务，报告符合NMPA、FDA、CE注册要求。

Being deep-rooted in Suzhou Medical College since 1984, traditional academic testing facility. Provide global medical device R&D and production enterprises with cleaning verification, animal experiments, biocompatibility, packaging verification, chemical characterization and other testing services. Report fully meets requirement of NMPA, FDA, CE registration.



医疗器械赋能平台，提供生物相容性、化学测试、毒理学风险评估、微生物检测和大动物研究等服务。拥有目前亚太唯一一家获得FDA ASCA认证的生物相容性实验室。

A medical device empowerment platform that provides services including biocompatibility testing, chemical testing, toxicology risk assessment, microbiological testing, and large animal studies. It is currently the only biocompatibility laboratory in the Asia-Pacific region that has obtained FDA ASCA accreditation.



专注为医疗器械企业提供临床前动物实验研究服务，致力于医疗器械的安全性和有效性评价，实验室先后通过了实验动物CNAS 认证和 AAALAC 认证。在骨科、齿科、运动医学等产品的临床前大动物实验板块深耕多年，助力多款产品在 NMPA 及 FDA 取证，加速医疗器械产品在国内外上市。

Focusing on providing pre-clinical animal experimental research services for medical device enterprises, and committed to the safety and effectiveness evaluation of medical devices, the laboratory has passed the laboratory animal CNAS certification and AAALAC certification. In orthopedics, dentistry, sports medicine and other products of the pre-clinical large animal experiment plate for many years, to help a number of products in NMPA and FDA forensics, accelerate the medical device products in the domestic and foreign market.

加工设备	MACHINING EQUIPMENTS	
	提供骨科磨削方案的五轴数控磨床制造商，全球医疗领域磨削应用的领跑者。	5 axes grinding machines manufacturer and solution provider for orthopaedics, a global leading company in grinding application for medical industry.
	一站式骨科植入物解决方案，包含设计、粗磨、磨光、抛光一系列生产工艺，配合使用 Fanuc 机器人可自动化连续无人值守的生产。	One-stop solution for orthopaedic implants including design, rough grinding, fine grinding and polishing, automating continuous unattended production with Fanuc robots.
	德国高端数控机床与自动化方案的可靠供应商，凭借丰富经验为医疗行业提供植入体与器械等产品的高精度加工与生产解决方案。	As a reliable supplier of high-end CNC machine tools and automation, we provide high precision machining centers and production solutions for implants and instruments in the medical industry with our rich experience.
	专为骨科植入材料切割而设计的精密水刀，以高速、高压水流实现精准切割，避免热损伤和振动。无论是硬质植入物还是柔软生物组织，都能以卓越精度完成，为骨科手术提供创新解决方案。	Precision Waterjet specifically designed for the cutting of orthopedic implant materials, achieving precise cutting with high-speed, high-pressure water jets, eliminating thermal damage and vibration. Whether it's hard implants or soft biological tissues, it can accomplish the task with exceptional accuracy, providing innovative solutions for orthopedic surgeries.
	提供包括车削、铣削以及先进加工技术，例如超声加工技术、激光加工技术和增材制造技术等全方位医疗产品加工行业方案。	Medical full-service provider for turning Technology, milling technology as well as new technologies (Ultrasonic, LaserTec, Additive Manufacturing).
	全球机加工市场的重要参与者，与众多医疗客户建立了密切的关系，基于我们强大的机床产品阵容和应用工程领域的专业知识，我们能够针对客户需求提供优化的解决方案。	A key player in the global machining markets, and has built up close relationships with diverse medical customers. Based on our extensive line-up of machines and our know-how in the field of application engineering, we provide solutions optimized for customer needs.
	主要针对小批量、多品种、加工质量要求高等骨科医疗器械零件行业，提供自动化加工、智能设备联网解决方案，帮助企业降本增效。	Focused on the orthopedic medical device parts industry with characteristics of small batches, multiple varieties, and high processing quality requirements, we provide automated processing and intelligent equipment networking solutions to help enterprises reduce costs and increase efficiency.
	无论是植入体、假体，还是医疗器械，我们的 5 轴联动通用加工中心可满足医学工程行业的最高要求，确保精密工件的完美制造。	Whether implants, prostheses or medical devices, our 5-axis universal machining centers meet the highest demands of the medical engineering industry and ensure the perfect manufacture of precision parts.
	为医疗产品加工提供高效高精解决方案的多轴自动机床、自动走心车床、车铣中心、和通用车床等。	Providing high efficient and high precision technology solutions for medical products by Multi-spindle automatics, sliding headstock automatic lathes, turn-mill centers and universal turning machine.
	通过超高性能运动学和 5 轴联动加工，为医疗产品带来了高效可靠的整体高精加工解决方案。	Providing an efficient and reliable complete high-precision machining solutions for medical products through the ultra-high performance kinematics with five simultaneous axes machining.
	源于德国，植根中国，是世界知名的多主轴加工中心制造商，以丰富的经验和高效加工解决方案在医疗加工行业闻名遐迩。	Originated from Germany and rooted in China, the world-renowned multi-spindle machining center is well known in the medical machining industry for its extensive experience and efficient machining solutions.
	移动式主轴箱技术及瑞士型自动车床的发明者及行业领导者。我们凭借在整个医疗技术生产链中的丰富经验、全面的解决方法、完整的生产计划和全球性业务，成为医疗器械和仪器制造商及其供应商的完美合作伙伴。	The inventor and a pioneer of sliding headstock technology and the Swiss-type automatic lathes. Vast experience throughout the medtech production chain, a holistic approach, a complete production program and a global presence make us the perfect partner to medical device and instrument manufacturers and their suppliers.
	有着 60 多年技术经验的工业液体过滤技术权威，一直致力为不同应用领域提供最先进的无耗材过滤系统。	With more than 60 years of technical experience in the industrial liquid filtration technology authority, committed to providing the most advanced non consumable filtration system for different applications.
	集团旗下拥有专注于内外圆磨削并以高精度和高品质著称的 STUDER，对于医疗领域髋关节陶瓷股骨头以及膝关节和髌关节股骨柄的磨削加工，有着成熟的磨削解决方案。以及工具磨床 WALTER，在医疗领域特别是牙钻等医疗刀具的磨削加工上，亦有相应的解决方案。	STUDER, one of our subsidiariys, is a market and technology leader in universal, external and internal cylindrical grinding and is known for its high precision and high quality, has mature solutions for the grinding of ceramic hip femoral head, knee joint and hip femoral shaft in the medical field. In addition, another brand company of the group, WALTER, which produces CNC machines for grinding PCD tools also has corresponding solutions in the medical field, especially in the grinding of medical tools such as dental drills.
	为全球医疗领域提供创新加工方案的多轴数控铣车复合机床制造商。我们致力于提高行业制造水平、生产效率和零件质量。多种类、小批量，柔性化加工，既能满足您的研发需求，同时也能满足您的生产需求。自动化机器人系统，让您 7×24 小时加工无忧。用瑞士精密技术，赋能中国制造。	A multi-axis CNC milling and turning machine tool manufacturer that provides innovative processing solutions for the global medical field. We are committed to improving the industry's manufacturing level, production efficiency and part quality. Multiple varieties, small batches, and flexible processing can meet both your R&D needs and your production needs. Automated robot system allows you to process worry-free 7*24hours. Use Swiss precision technology to empower Made in China.
	致力于改善工厂环境及实现省力化做贡献的系统供应商，提供金属切屑压块和切削油 / 液集中过滤的全自动处理方案。油液回收利用节约成本，压块减容改善工厂环境，定制化全自动处理提高效率，打造绿色健康企业。	A system supplier that contributes to the improvement of the factory environment and the realization of labour saving, providing fully automated treatment solutions for metal chip briquetting and centralized filtration of cutting oil/fluid.Oil and fluid recycling saves costs, briquetting reduces capacity and improves the factory environment, and customized fully automated treatment improves efficiency, creating a green and healthy company.

后道处理设备

POST-PROCESSING EQUIPMENTS



专注于研发生产各种喷砂设备，测试并掌握完整的工艺参数。为齿科、脊柱、关节、创伤、运动医学、心脑血管、手术器械等提供完整的喷砂工艺及前后端解决方案。

Focus on the development and production of various sandblasting equipment, test and master the complete process parameters. For dental, spine, joint, trauma, sports medicine, cardiovascular and cerebrovascular, surgical instruments to provide a complete sandblasting process and front-end solutions.



干冰清洗机，使用干冰作为清洗介质，应用于工业设备、模具和产品的清洗，是一种绿色环保、无损、干燥、不会产生二次污染的清洗方式。

Dry ice cleaning machine, using dry ice as cleaning medium, applied to industrial equipment, molds and products cleaning, is a green, non-destructive, dry, no secondary waste cleaning way.



全球领先的超声波清洗设备制造商，为医疗器械和植入物等行业提供非标钝化和清洗设备。

The world's leading manufacturer of ultrasonic cleaning equipment, providing customized passivation and cleaning equipment for medical devices, implants and other industries.



全球著名的专业清洗解决方案供应商，针对植入物的不同生产工艺，提供相应高效可靠的清洗技术，如溶剂清洗和水基精密清洗。

Worldwide famous professional cleaning solution supplier, against implants mfg. Processing, providing efficient and validated cleaning technology, such as solvent and aqueous fine cleaning.



用于医疗器械产品 UDI 直接标识 (DPM) 的激光打标机供应商，提供稳定可靠的性能和高质量的打标效果，智能精准定位、及打标前和打标后检测，为不脱标、耐腐蚀，超黑超快打标效果，符合 FDA 和 MDR 医疗法规提供定制化解决方案。

A leading supplier of marking laser used for UDI direct part marking (DPM) for medical devices & instruments, offering end-user comstom-made solutions with stable and reliable laser performance, high-quality marking effect, intellegent marking positioning (IMP) for pre-marking detection and after marking verification, to meet with no fading, corrosion resistance, ultra black and ultra fast marking effects, and compliance with FDA and MDR medical regulations.



为骨科植入物、医疗器械及其它工程医疗用品提供各种表面光饰工艺、设备以及相配套的工艺水处理及光饰耗材。

We provide finishing processes and equipments as well as process water treatment and consumables for a variety of surface finishes on orthopaedic implants, medical devices and other engineered medical products.



专注优质医疗产品酸蚀处理设备，提供全自动、半自动、手动及个性化定制方案，半导体行业领先设备商，深耕酸处理、检测及包装的自动化设备多年。

Focus on high-quality medical products acid corrosion treatment equipment, providing automatic, semi-automatic, manual and personalized customized solutions, semiconductor industry leading equipment manufacturers, deep cultivation of acid treatment, inspection and packaging automation equipment for many years.



主要提供用于关节类产品、骨板、骨螺钉、心血管支架、手术器械等表面抛光处理设备及相关耗材，并全程提供技术支持服务。

Mainly provides surface polishing equipment and corresponding consumables for joint products, bone plates, bone screws, cardiovascular stents, surgical instruments, etc., and provides technical support services throughout the process.



为医疗行业提供抗腐蚀打标、精密焊接、精密切割以及3D打印等一站式解决方案的高科技公司。

As a high-tech company we provide solutions for the medical industry such as anti-corrosion marking, laser cutting, laser welding and 3D printing.



金属产品纳米抛光、去毛刺、表面光亮，提供设备以及配套服务；牙科种植体系统整体解决方案（喷砂、酸蚀、超亲水自动线）。

Metal products nano polishing, deburring, surface bright, provide equipment and supporting services; Dental implant system total solution (sandblasting, acid etching, super hydrophilic automatic line).



精益求精的医疗与齿科行业表面处理成套解决方案。更具成本效益的抛光和喷砂设备，满足定制化的平滑、去毛刺、抛光需求。

Rapid, cost-efficient surface processing in consistently high quality for medical and dental industries. An efficient way to meet the specific need for homogeneous, smooth surfaces with our mass finishing/sandblasting machines.

设备附件及耗材	EQUIPMENT ACCESSORIES AND CONSUMABLES	
	全球金属加工液领域活跃的制造商，致力于高质量的切削液和磨削油的研发及生产。	A globally active company in the metalworking fluid sector, developing and producing high-quality cutting and grinding fluids.
	主要提供辐照、环氧乙烷、高压蒸汽、过氧化氢等灭菌方式的灭菌检测耗材，其中灭菌化学指示剂、生物指示剂销往全球 100 多个国家。	Mainly provides sterilization testing consumables for sterilization methods such as irradiation, ethylene oxide, high-pressure steam, and hydrogen peroxide. Among them, sterilization chemical indicators and biological indicators are sold to more than 100 countries around the world.
	凭借多年的经验开发专业各类喷涂遮蔽保护胶带，为航天、航空、医疗和特殊领域产品制造商广泛应用和认可。	With years of experience, we have developed various professional spray shielding protective tapes, which are widely used and recognized by product manufacturers in aerospace, aviation, medical, and special fields.
	深入研究和应用前沿的精密小零件加工解决方案，帮助中国骨科植入物和种植牙客户解决各种加工难题，实现降本增效的目标。	Making a profound study and applying cutting-edge precision small part processing solutions, to help Chinese orthopedic implant and dental implant customers to solve various processing problems and achieve the goal of cost reduction and efficiency increase.
	公司在全球钨材料领域享有盛誉。凭借完整的钨产业链，自主研发的高稳定性、高精度切削工具已在国内多家骨科客户获得认可。提供富有竞争力的骨科及齿科整体解决方案。	Our company enjoys a good reputation in the global tungsten material field. With a complete tungsten industry chain, the self-developed high-stability and high-precision cutting tools have been recognized by many domestic orthopedic customers. Providing competitive orthopedic and dental total solutions.
	创建于 1969 年，专注于硬质合金刀具的设计和制造，特别在槽加工领域。我们在整个全球的汽车、航空航天、工程机械、液压、能源、医疗行业都有很高的市场份额和客户赞誉度。非标刀具领域更是我们的强项。	Established in 1969, we've been dedicated our resources to the design and manufacture of tooling specifically for grooving applications. We have good global market share on industrials of Automotive, Aerospace, Machinery, Hydraulic, Energy, Medical and trusted and praised by our customer. Especially customized tools are our strengths.
	专业配套三、四、五轴机床的零点快换系统和工件高精度十字随形自适应装夹系统;提供医疗器械及人体植入物零件加工和自动化生产整体解决方案。	Specialised in supporting three-, four- and five-axis machine tools with zero-point quick-change systems and high-precision cross-following adaptive clamping systems for workpieces; providing total solutions for the machining and automated production of medical devices and human implant parts.
	在医疗行业拥有成功的合作案例的刀具整包管理服务提供商，针对高端医疗、机械替代性医疗等，均有丰富的刀具管理服务经验。	Outsourcing management service provider of cutting tools with successful cooperation cases and abundant of service experience in high-end medical products and mechanical alternative medical products areas.
	致力于专业开发、生产五轴机床配套的零点快换系统、工件夹持系统。提供植入物及器械零件加工自动化一体化方案。	Focus on the development and production of QuickPoint and Workholding system for 5-axis machine. We supply the complete module or special automation solution to the trauma, spine, joint parts and other field components.
	专业医学仿真人体模型制造企业，为医学培训及医疗器械制造商提供可用于手术训练及器械研发、测试的各类模型产品及服务。	Producer of professional medical simulation model , providing full range of model products for medical institutions and medical device manufacturers that can be used by surgical training or equipment development and testing.
	1951 年成立于美国，是全球金属加工液领导者，开发了 TRIM®，WEDOLIT™和 Master STAGES™等品牌全系列切削液、清洗剂以及防锈剂产品，满足苛刻的高品质加工要求。与 XYBEX 冷却液循环再生过滤系统结合，可降低客户的总运营成本，提供持久稳定的金属加工液体解决方案。	A global leader in the metalworking community, offers a full line of environmentally responsible, extremely durable, and stable cutting and grinding fluids, straight oils, parts cleaners, pipe and tube expansion, forming, and corrosion control fluids under the TRIM®, WEDOLIT™, and Master STAGES™ brands. Master Fluid Solutions' XYBEX® fluid management systems lower customers' total cost of operations.
	始于 1917 年的瑞士家族企业，超过 50% 的瑞士市场份额，针对要求苛刻的牙科和骨科植入体行业研制专属的金属加工液，优化工艺安全性、较传统产品可缩短 33% 的加工节拍、延长了刀具寿命，从而显著节省总生产成本，并符合 ISO 10993-5 检测标准中的“无细胞毒性”要求。	Founded in 1917, a Swiss family-owned enterprise with more than 50% of the Swiss market share offers premium metalworking fluids designed specifically for the demanding dental and orthopedic implant manufacturing industry that optimize process security, shorter cycle time up to 33% compared to conventional cutting oils, longer tool life, resulting in significant savings in TCO and qualified as "Non-Cytotoxic" in accordance with ISO10993-5 test standard.
	以“切削液公司”著称，我们作为水溶性切削液的顶级专家，为全球客户提供个性化订制解决方案。	As “The Coolant Company”, we specialize in water-miscible coolants, and we provide individual, tailor-made solutions for your business all over the world.
	我们的开创性的 hyperMILL CAD/CAM 解决方案，无缝结合 CAD 功能和 CAM 编程，并且为车削、车铣和铣车提供了广泛的功能和策略。能够实现各种材料的零件加工，例如医疗器械、骨科植入物、牙科个性化基台、种植桥和杆卡等。	Our innovative hyperMILL CAD/CAM solution seamlessly combines CAD functionality with CAM programming and offers a wide range of features and strategies for Turning, Mill-Turn and Turn-Milling. It enables the machining of parts in a variety of materials, such as medical instruments, orthopedic implants, customized abutments, implant bridges and bars and so on.
	作为全球领先的整体式刀具制造商，在骨科以及齿科方面拥有丰富的加工经验，致力于为客户提供高效，高精度的加工解决方案。	As the world's leading manufacturer of solid tools, we have rich machining experience in orthopedics and dentistry, and are committed to providing customers with efficient and high-precision machining solutions.
	一家拥有 74 年历史的瑞士家族企业，专注于高精度刀具夹持系统的研发和生产。我们产品系统中的 powRgrip® 冷压夹持系统以其卓越的精度和强大的夹持力，可显著提升骨科植入物的生产质量和效率，优异的兼容性和一致性降低了生产成本，是制造高精度医疗器械的理想之选。	A family-owned Swiss company with a history spanning 74 years, specializing in the research and production of high-precision tool holding systems. Our product line, the powRgrip® tool holding system, stands out with its excellent precision and powerful clamping force, significantly enhancing the quality and efficiency of orthopedic implant manufacturing. With outstanding compatibility and durability, it effectively reduces production costs, making it the ideal choice for manufacturing high-precision medical equipment.
	行业领先的夹持技术和抓取系统供应商，针对骨关节内植入物、小型手术器械、齿科植入物加工等提供系列广泛的工件和刀具夹持产品。	International technology leader in clamping technology and gripping systems. The company provides wide range of workholding and toolholding solutions for orthopedic and dental implant, as well as surgical instruments.
	全球刀具领袖之一，作为“铣削之王”，在航空、医疗、能源等领域享有盛誉。通过与全球医疗器械商的多年紧密合作，我们已成为富有经验和创新精神的整体解决方案提供者，助您取得成功。	With an established reputation as a leading manufacturer and supplier of carbide cutting tools and associated equipment. As the medical industry continues to innovate and grow, we are here to help you understand and overcome the metal cutting challenges you encounter.
	专注于走芯机医疗小零件加工，提供包括软件、刀具、夹具、切削液、加工方案设计、试切等系统解决方案。	Focus on CNC machining of medical small parts, providing system solution of software, cutting tools, fixtures, cutting fluid, processing scheme design, product trial cutting etc.
	自 1915 年成立以来，致力于在骨科植入物、器械、关节及齿科产品加工领域提供高效率、高精度切削刀具。我们的产品在钛合金、不锈钢、钴铬钼以及镍钛合金加工都有极其显著的优势。	Since foundation in 1915 it has been our declared goal to forge ahead in the production of high performance and precision cutting tools for implant, instruction, knee and teeth industry. Our products have particular advantages in the finish machining of titanium, stainless, CoCrMo and Nitinol.
	我们致力于研发和生产高精密的零点定位系统和定心虎钳系统，为医疗器械制造商提供完善的骨科类零件自动化夹持方案。	We are committed to the development and production of high-precision zero point clamping systems and centering vise systems, providing medical device manufacturers with complete automatic clamping solutions for bone plate parts.

测量及检测设备

MEASURING AND TESTING MACHINES

	Advanced Focus-Variation 技术对骨科和齿科的复杂的组件进行高分辨率和高精度的测量。对骨科植入体及齿科的精确磨损测量、高光泽表面分析。	Advanced Focus-Variation technology provides high-resolution and high-precision measurements of complex components in orthopedics and dentistry. Accurate wear measurement and high-gloss surface analysis of orthopedic implants and dentistry.
	外科植入物动态力学解决方案服务商，包括骨钉、接骨板、椎间融合器、髌关节等。	Dynamic mechanical solutions for surgical implants service provider. Consist of metallic medical bone screws, metallic bone plates, intervertebral body fusion device, hip joint prostheses, etc.
	动态试验机集成专利高性能直线电机，广泛适用于骨科植入物及材料的动态力学性能测试和多自由度多轴定制化动态测试。	Dynamic test platform integrates patented high-performance linear motor, which can be widely used in dynamic mechanical properties test of various materials and orthopedic implants, as well as customized multi-axis dynamic test.
	拥有 200 多年的精密计量经验，以及对智能制造领域先进技术的重组，为医疗行业提供贯穿产品全生命周期的质量提升解决方案。	Provides quality improvement solutions throughout the product life cycle for the healthcare industry, with more than 200 years of experience in precision metering and reengineering advanced technologies in intelligent manufacturing.
	一家提供 8 大种类逾 5500 款产品的全球综合性测量仪器制造商，针对医疗行业可提供多元可靠的测量解决方案。	A global manufacturer of comprehensive measurement instruments offering more than 5500 products in eight categories, providing a wide range of reliable measurement solutions for the medical industry.
	致力于为客户提供完整测量方案的服务商，20 年以上自主品牌光学检测仪器产销经验，同时提供一站式骨科齿科产品综合测量解决方案。	A service provider dedicated to providing customers with complete measurement solutions, with over 20 years of experience in the production and sales of independent brand optical testing instruments, and providing one-stop comprehensive measurement solutions for orthopedic and dental products.
	工业 CT：观测内部缺陷，分辨率高达 0.4 微米；光学测量仪：一键检测回转体零件的外形尺寸。致力于为医疗行业提供最佳的无损检测方案。	Industrial CT: observing internal defects with a resolution of up to 0.4 micrometers. Optical measuring instrument: detecting the external dimensions of rotating parts with one key. We dedicated to providing the best non-destructive testing solutions for the medical industry.
	来自德国的精密测量设备制造商，针对外科植入物的尺寸测量提供复合式三坐标或 CT 解决方案。	Precision measurement equipment manufacturer from Germany, providing multi-sensor coordinate measuring or CT measuring solutions for surgical implants.
	三维光学测量测试仪器与方案提供商，为骨科和骨科植入物提供原材料力学性能测试、高精度几何尺寸检测、加载下的应变和变形分析等。	Provider of 3D optical measurement testing instruments and solutions, offering mechanical performance testing of raw materials for orthopedics and orthopedic implants, high-precision geometric dimension inspection, strain and deformation analysis under loading, etc.
 Seeing beyond	携手掌控质量：医学工程的生产工艺和技术正在发生变化，产品质量标准更加严格。质量是我们不懈的追求。我们凭借独有且广泛的技术和软件产品组合、专有技术和遍布全球的业务子公司，始终孜孜不倦，努力实现我们的雄心壮志，即成为客户的创新先锋和首选合作伙伴。	MASTERING QUALITY TOGETHER： Medical engineering is changing rapidly. At the same time, product quality specifications are more exacting. Quality is our passion. With our unique, broad technology and software portfolio, know-how and global footprint, we are constantly striving to fulfill our ambition to be recognized as the innovative pioneer and preferred partner of our customers.
 智能光学	致力于引进德国先进的紧固装配设计、测试验证技术，助力中国智能设计、制造；专业提供牙科种植体连接全寿命周期的软、硬件产品及服务，从设计到验证及优化全方位解决方案。	Committed to introducing advanced German fastening assembly design and testing verification technology to support intelligent design and manufacturing in China. Professionally provides full life cycle software and hardware products and services for dental implant connections, offering comprehensive solutions from design to verification and optimization.
	全球技术领先的材料试验机供应商，为 20 多个工业领域的研发及质量保证提供全面的材料试验解决方案。	A worldwide leading supplier of materials testing machines, provides testing solutions for test methods in R&D, as well as for quality assurance in more than 20 industries.

合约制造

CONTRACT MANUFACTURE

	提供各式骨科钻头、骨锉、铰刀、丝锥及各类牙科钻头、丝锥等医疗工具代工及协同开发服务。	Specialized in providing professional orthopedic instrument OEM and R&D support service, supplying various kinds of orthopedic instrument such as drills, broaches, reamers, taps. Dental drills and taps are also our strength products.
	全球化的合约制造商，精密制造加工骨科手术钻头、起子、螺钉、骨板、切割工具，以及其他复杂、高度工程化的外科植入物、器械和手件等。	A global contract manufacturer of precision-machined surgical drill bits, drivers, screws, plates, cutting tools and other complex, highly engineered surgical implants, instruments, and handpieces, as well as other device components.
	ODM 服务商，提供口腔种植、运动医学、骨科器械、器械盒设计开发、协同开发及受托生产服务。在刀具切削、产品耐腐蚀方面方案卓越。	ODM supplier providing design, collaborative development and contract manufacture of dental implants, sports medicine, orthopaedic instruments, cases and trays with excellent solutions in sharp tool cutting and product corrosion resistance.
	为美国、欧洲著名医疗器械公司提供优质的 OEM 服务，产品包括螺钉、骨板、衬板、胫骨平台、融合器、改锥及器械等，广泛应用于医疗设备、医疗工具、以及脊柱、创伤、牙科、运动医学、颅颌面、眼科、心脏起搏器等领域。	Provider of OEM service for the most famous medical companies in USA and Europe. Our products, which include screws, plates, buttons, Tibial tray, cages, drivers and instruments, are widely used in trauma, spine, dental, sports medicine, cranial maxillofacial, ophthalmic surgery and components of pacemaker, etc.
	提供骨科的创伤、脊柱、关节、运动医学，以及齿科的种植类工具、神经外科等产品协同开发及受托生产服务。	Provide collaborative development and commissioned production services for products such as orthopedic trauma, spine, joint, sports medicine, as well as dental implant tools, and neurosurgery.

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