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The official



第一天 Day1
星期二, 2024年9月24日
Tuesday, September 24th, 2024

智驭未来，引领全球工业创新风潮

2024 数控机床与金属加工展和 2024 工业自动化展今日启幕

中国国际工业博览会（以下简称“中国工博会”）自1999年创办以来，历经二十余年发展创新，通过专业化、市场化、国际化、品牌化运作，已发展成为通过国际展览业协会（UFI）认证、中国工业领域规模最大、功能最全、水平最高、影响力最强的展览盛会之一，是我国工业领域面向世界的一个重要窗口和经贸交流合作平台。

在全球工业领域翘首以盼的目光中，第二十四届中国国际工业博览会旗下核心专业展——2024 数控机床与金属加工展（以下简称“MWCS”）和 2024 工业自动化展（以下简称“IAS”）今日在上海虹桥国家会展中心隆重开幕。

本届中国工博会吸引了来自全球近 28 个国家和地区的 2,800 家企业齐聚申城。汉诺威米兰展览会（中国）有限公司董事总经理刘国良表示，今年数控机床与金属加工展和工业自动化展汇聚了来自世界各地的工业巨头、科技创新企业以及行业专家，瞄准我国新型工业高质量发展的核心技术和重点领域，为推动全球工业的持续进步与革新、产业转型升级提供良好的示范样板。

MWCS 2024: 科技新力量汇聚

机床产业一直是我国高精尖技术研发的重要领域。目前，国产机床行业彰显出强大的自主创新力与市场活力，正向高端市场转型，尤其在新能源和半导体领域迎来机遇。作为业界持续关注的焦点盛会，2024 数控机床与金属加工展览会（MWCS 2024）今年展商阵容依旧强大，集结了来自全球 600 多家独具优势、专业化、高质量的行业翘楚，展览面积超过 8 万平方米。其中，117 家专精特新中小企业，33 家专精特新“小巨人”同台亮相，展现出中国制造业尖兵矩阵的技术创新硬实力。

通快、天田、百超、大族、华工、萨瓦尼尼、普玛宝、亚威、爱克、村田、金方圆、扬力、邦德、瑞铁、奔腾、海天、蓝昊、东海、金强、新天、谊科、锐科等国内外品牌悉数参展，围绕金属成形、金属切削、特种加工机床、数控系统、机床零部件、磨料磨具刀具 / 工夹具、检测和测量设备等细分领域的尖端技术和产品，在本次展会上大放异彩。

今年 MWCS 新增三大展区——锻压技术与装备展区、国际品牌展团展示区、劳保严选展团，为推动全球绿色低碳发展贡献智慧方案。上海锻压技术与装备展区吸引了包括扬力集团、扬锻、营口锻压、安徽中冶、北京机电所、上海彻能、安徽中冶等业界翘楚，集中展现锻压领域的新装备、新产品、新材料和新工艺。此外，用于电动车电池结构件、氢能燃烧电池

和氢能电解槽的金属双极板冲压成形技术也在此展示。除了通快、天田、百超、萨瓦尼尼、普玛宝、村田等国际巨头外，国际品牌展团展示区也云集了 Haeusler、Langtech、Baublie、Gutekunst、Kohler、Siegmond、Atlanta、Formdrill、Wila、InspecVision、PEM、Metalix、Wilson 等大批细分领域的国际顶尖品牌，集中展示高效的板材加工解决方案。劳保严选品牌展团聚焦展示前沿的劳动保护用品和安全防护技术，致力于为企业提供全方位的安全解决方案。

通快此次携两款首发产品——亚洲首发新品 TruMatic 5000 激光冲裁复合机，以及全球首发的 TruLaser Tube 7000 fiber 激光切管机强势登场，将固体激光器的快速与灵活性融入广泛加工领域，助力企业高效提升产量与质量。天田 FLWENSIS 光纤激光焊接机器人首次亮相 MWCS，凭借模态可变技术和独特的光束摆动机构，可实现焊接模式智能切换。瑞士百超带来的中国首发新品——全新一代 ByCut Nova 激光切割产品，能够利用高达 20 千瓦的激光功率以高精度切割厚度达 40 毫米的碳钢。大族激光双展台联动，现场气密、CNC、3D 打印等新品齐发，专为海外市场打造的 HF Expert 系列光纤激光切割机重磅亮相，向世界传递大族激光“主动向外”的新脉动。萨瓦尼尼 P2 多边形折弯中心集成机器人自动化解决方案、普玛宝机器人全自动智能折弯解决方案等集成方案展示了钣金制造的无限可能。华工激光 AUTOBOT3015 汽车热成形件三维五轴激光切割智能装备、海天光机双悬臂结构三维五轴激光切割机床也于本届展会上重磅首发，有效解决了切孔修边及复杂曲面薄板类的高速切割难题。

此外，超高功率激光切割机、机器人自动折弯单元、门式单点精密伺服压力机、光纤激光焊接系统、纯电伺服折弯机、电伺服数控转塔冲床、激光成型复合机、六轴机器人涂胶设备、冷弯辊轧成型设备、复合双透镜焊接头、高功率光纤激光冷水机、各式烟雾净化器等近百款产品也于现场完成首发亮相，共同呈现最前沿的板材及管材加工解决方案，赋能金属管材切割新未来。

IAS 2024: 全球首发新品荟萃

工业自动化作为现代制造业的核心驱动力，正以前所未有的速度重塑着全球工业新格局。随着科技的飞速发展和市场需求的不断变化，工业自动化领域正在迎来一系列新趋势和技术创新。本届展会特别推出了七大主题板块，包括智能

(下转 P2 页)

展会亮点
Highlights C1,P2,4

论坛日程
Conference Program P6

展区平面图
The Exhibition Floor Plan P8-11

展商精选
Selected Exhibitors P12-15

- 大族激光: G3015HF 高速光纤激光切割机
Han's Laser: G3015HF Expert Laser Cutting Machine
- 百超: ByCut Nova 激光切割机
Bystronic: ByCut Nova
- 天田: 光纤激光焊接系统
- 萨瓦尼尼: P2 紧凑型多边形折弯中心 + 机器人解决方案
- 通快: 高端 7000 系列激光切管机
- 维司卡: 电缆防水接头 TriShot™
WISKA: Cable Glands TriShot™
- 施迈赛: 电磁安全锁 AZM40
Schmersal: Electromagnetic safety lock AZM40
- 穆尔电子: Vario-X 自动化系统
Murrelektronik: Vario-X automation system
- 费斯托: VTUX 新一代阀岛自动化控制平台
Festo: The next generation VTUX valve terminal

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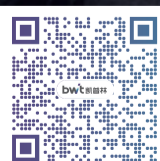
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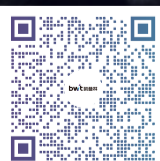
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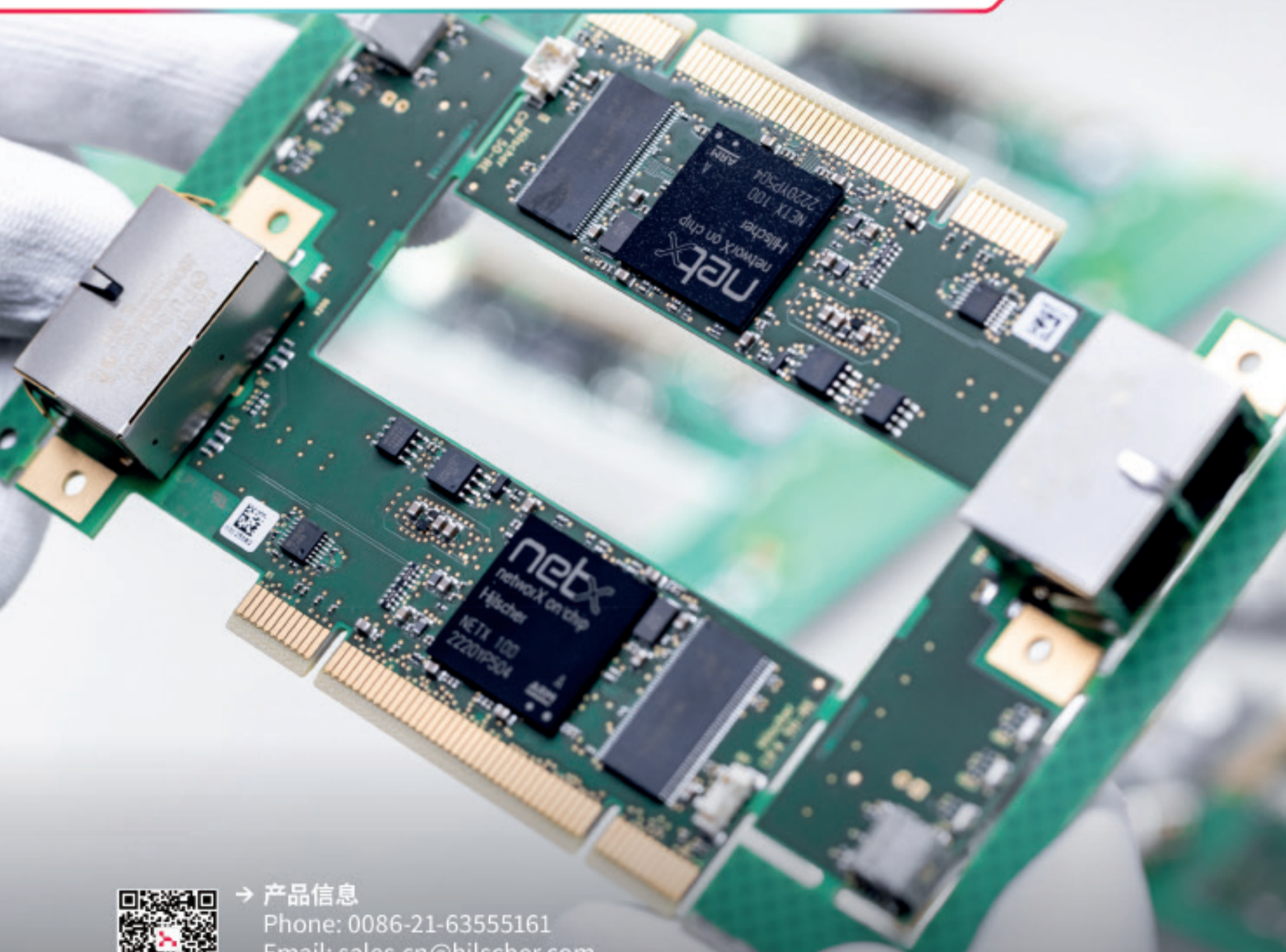


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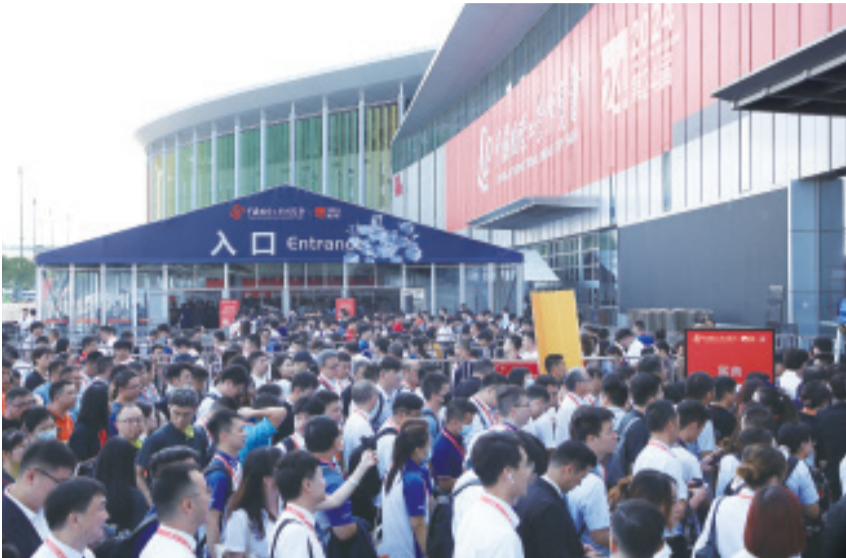


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MWCS 2024 and IAS 2024 Kick off Pioneering Global Industrial Innovation



China International Industry Fair (CIIF) has been established since 1999. Over more than twenty years of development and innovation, it has developed into one of the largest, highest-level, most comprehensive and influential UFI-certified exhibitions in China's industrial field through its specialized, market-oriented, internationalized, and branded operations, which serves as an important window and platform for economic and trade exchanges and cooperation between China's industrial field and the world.

Highly anticipated by global industries, the core specialized exhibitions under the 24th China International Industry Fair - Metalworking and CNC Machine Tool Show 2024 (MWCS) and Industrial Automation Show 2024 (IAS) are grandly held today at the National Exhibition and Convention Center (Shanghai).

This year's CIIF has attracted 2,800

enterprises from nearly 28 countries and regions around the world. Gary Liu, Managing Director of Hannover Milano Fairs China Ltd., noted that MWCS 2024 and IAS 2024 have gathered industrial giants, technology innovation enterprises, and industry experts from all over the world. They focused on the core technology and key areas of the high-quality development of China's new industry and provided exemplary models for accelerating the continuous progress and innovation of global industries as well as industrial transformation and upgrading.

MWCS 2024: Pooling New Technological Powerhouses

The machine tool industry has always been one of China's key areas highlighting the R&D of high-end, high-precision, and advanced technology. Currently, domestic machine tool

industry has demonstrated strong independent innovation capability and market vitality and is transforming toward high-end markets, with new opportunities discovered in the new energy and semiconductor areas. As a key event attracting constant attention in the industry, MWCS 2024 continues to boast a strong lineup, gathering more than 600 leading enterprises featuring unique advantages, professionalism, and high-quality products and services, with an exhibition area of over 80,000 square meters. Among the enterprises, there are 117 specialized, sophisticated, differential and innovative SMEs and 33 "little giant" firms, showcasing the substantial technological innovation ability of the top enterprises in China's manufacturing sector.

Domestic and international brands including Trumpf, Amada, Bystronic, Han's Laser, HG Laser, Salvagnini, Prima Power, YaWei, Accurpress, Murata, JFY, Yangli, Bodor, Deratech, Penta, Haitian, Lanhao, ADH, JQ Laser, XTLASER, EKO, Raycus, etc. are expected to showcase top-notch technologies and products in the segments of metal forming, metal cutting, special processing machine tools, CNC systems, machine tool parts, abrasives, grinding tools, cutting tools/fixtures, as well as testing and measuring equipments.

This year, three new exhibition areas are added to MWCS, namely, the Exhibition Area for Forging Technologies and Equipment, International Brand Exhibition Area, and Labor Protection Selection Area, contributing wisdom and solutions to global green and low-carbon development. Shanghai

Forging Technology and Equipment Zone gathers industry top-tier enterprises including Yangli Group, Yadon, Yingkou Forging, Anhui Zhongye, BRIMET, Shanghai Cheneng, etc., which collectively showcase the new equipment, products, materials, and processes in the metalforming sector. In addition, metallic bipolar plate pressing technology for electric vehicle battery structural components, hydrogen combustion cells, and hydrogen electrolytic bath is also showcased in this area. Besides international giants such as Trumpf, Amada, Bystronic, Salvagnini, Prima Power, and Murata, the International Brand Exhibition Area also brings together a large number of top international brands in industrial segments, including Haeusler, Langtech, Baublie, Gutekunst, Kohler, Siegmund, Atlanta, Formdrill, Wila, InspecVision, PEM, Metalix, and Wilson, all showcasing solutions for efficient sheet metal processing in a concentrated way. The Labor Protection Selection Area focuses on top-tier labor protection products and safety protection technologies, which is committed to providing comprehensive safety solutions for enterprises.

Trumpf makes a strong debut with its two new products: the TruMatic 5000 punch laser processing cell, Asia debut, and the global premiere of the TruLaser Tube 7000 fiber laser tube cutting machine, global debut. The products integrate the speed and flexibility of solid state lasers in a wide range of processing applications, assisting enterprises efficiently improve production and product quality. The Tianmen FLW ENSIS fiber laser welding robot also made its

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制造系统解决方案展区、运动控制系统展区、嵌入式技术展区、智能传感与连接展区、动力传动展区、测量技术与仪器仪表展区以及工业自动化行业解决方案展区，全球首发、中国首秀接连不断。

智能制造系统解决方案展区内，西门子、倍福、博世力士乐、菲尼克斯、三菱电机、欧姆龙、松下、施耐德、英特尔、台达、汇川、和利时、研华、东土科技等行业领军企业齐聚一堂，集中展示了高端智能制造的成功案例和技术应用。作为自动化新技术的领军企业和基于 PC 控制技术的先驱，倍福此次带来了 MX-System 无控制柜解决方案、超紧凑型工业 PC、嵌入式控制器、平面磁悬浮输送系统、AI 辅助工程、磁驱柔性输送系统、系统集成式机器视觉解决方案等一系列创新产品。海康机器人携手持读码新品 IDH9000 系列等涵盖 2D 视觉、智能 ID、3D 视觉、移动机器人、数字孪生等技术领域的产品及方案亮相展会。

运动控制系统作为自动化技术的核心分支，在工业控制领域扮演着至关重要的角色，并广泛应用于各种工业场景及日常生活中。运动控制系统板块汇集了 ABB、汇川、KEBA、茵梦达、山洋电气、埃莫、信捷、东方马达、雷赛、安浦鸣志、步科、禾川、英威腾、士林电机、华龙讯达、矩控新辰、固高、维控、超德创、科伺等知名厂商，带

来先进的伺服驱动技术和一系列创新产品。华硕、繁易、诺达佳、研祥、新汉、显控、超恩、德承、泓格、研智、稳信、大唐计算机、触沃、辰竹、阿普奇、研凌、科拉德等业界领先企业也齐聚嵌入式技术展区。

智能传感与连接展区内的行业领军企业如图尔克、西克、倍加福、宜科、堡盟、科瑞、巴鲁夫、穆尔电子、易福门、奥托尼克斯、宁波高松、厦门宏发、唯恩、明治、深浦、光子精密、友邦、长江、倍仕得、精奇等展示了丰富的传感器执行器解决方案、信号连接器以及工业以太网无源器件等产品系列。图尔克本次携全球首发的 RFID 样品追踪、TAS 云等最新技术和个性化解决方案重磅亮相。倍加福 R200 系列激光测距传感器也迎来全球首发，致力于为用户提供前瞻性的实用创新产品及解决方案。相较于传统的直插式弹簧连接，宁波高松全球首发的触联式弹簧技术支持各类导线免工具连接，为用户大大提升了接线效率。

动力传动展区汇集了费斯托、SMC、上银、亚德客、气立可、金器工业、全传科技、吉尼尔、直得机械、祥银、SATA 等知名展商。费斯托带来了 ELGD 电缸模块以及全球首发的新一代阀岛。气力可电动回转机械夹 EM、滑轨型平行机械夹 HMF、药液阀 LAQ/LMQ 全球首发，为智能制造和工业

4.0 提供了强有力的支持。测量技术与仪器仪表展区和工业自动化行业解决方案展区同样星光熠熠，汇聚了基恩士、汇萃、聚华、个元科技、虹润、宇电、华益中亨、亚盈铝业、卓怡恒通、聚强科技、恒立液压、格尔、艾迪克、米克、众辰、德纪特、孚瑞肯、烽禾升、哈博、雷子克、冠泰等知名企业集中亮相。

同期精彩：激荡前沿思想火花

除了产品展示，多场高端论坛和交流活动也是本届展会的重头戏。紧扣“新质领航·数字赋能”的全新主题，本届中国工博会构建了独特的“1+3+N”活动体系，包括 1 场主旨论坛、3 场行业峰会及 N 场涉及专题讨论、行业研讨会和新产品发布的活动。这些活动将与中国工博会的展览展示紧密结合，重点突出前沿性、前瞻性、专业性、学术性等特点，为线下论坛赋值、赋智，进一步加强行业交流，推动产业与行业的数字化转型和可持续发展。

展会期间，工业自动化展和数控机床与金属加工展将现场配套举办近 20 场专题会议，包括：2024 智汇上海·创新引领——数字化解决方案论坛、数字驱动·绿色赋能，共筑新型工业化未来、APS Asia 亚洲动力总成产业技术大会、智能工业、低碳制造——机器人 & 工业数字化与零碳工厂实践交流会、第二十一届 MES（制造执行

系统）开发与应用专题研讨会——工业数字化转型和智能制造、上海市自动化学会学术年会——工业互联网与工业智能、新质生产力赋能制造业数字化转型研讨会、支持智能制造的 PLCopen 技术研讨会、ALAT 2024 中国工业激光技术峰会、2024 金属切削高层论坛、海智在线 X 第 24 届工博会工业零部件采供对接会·上海站等。国际专家、两院院士、企业创始人、学术机构负责人等“政、产、学、研、媒、用、资”代表齐聚一堂，共话行业未来发展趋势，为企业把握市场先机提供智力支持，助力我国新型工业发展。

开展首日，来自机械制造、电子/信息通讯、医疗器械、汽车及零部件、轨道交通等相关行业的高质量专业观众纷纷涌入展会现场，参观采购、交流洽谈。刘国良说道：“本届数控机床与金属加工展和工业自动化展的成功举办，对于推动国际工业合作、加强技术交流具有重要的现实意义。不仅为企业提供了展示自身实力和寻找潜在合作伙伴的平台，也为全球工业的发展注入了新的活力和创新动力。”

大幕已启，未来已至。数控机床与金属加工展和工业自动化展再次成为汇聚全球新质生产力的璀璨舞台。9月24-28日，在中国国际工业博览会感受全球智慧，共谋发展大计，共创工业新篇章！

多维柔性 智赋智造

中国国际工业博览会

2024.9.24 ▶ 28

国家会展中心（上海） **5.1H-B177**



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(上接 P2 页)



first appearance at MWCS, featuring modal variable technology and a unique beam swing mechanism that allows for intelligent switching of welding modes. Bystronic's new product - the new-generation ByCut Nova laser cutting system, China debut—is capable of utilizing up to 20 kW of laser power to cut carbon steel up to 40 mm thick with high precision. Han's Laser presents a dual booth with a simultaneous release of new products in air seal, CNC and 3D printing at the scene. The HF Expert series fiber laser cutting machines specially developed for overseas markets make a stunning debut, conveying to the world Han's Laser's new momentum of "actively reaching out". Integrated solutions such as Salvagnini's automation solution integrating its P2 panel bender with robots and Prima Power's fully automated robotic intelligent bending solution demonstrate the infinite possibilities of sheet metal manufacturing. HGTECH's AUTOBOT3015 3D Laser Cutting 5-Axis Machine and Haitian's 3D 5-Axis laser cutting machine for double cantilever structures of lasers will also be launched at this exhibition. These products effectively solve the difficulty with cutting holes and trimming edges, as well as high-speed cutting for complex curved thin plates.

Additionally, nearly a hundred products are expected to make their debut at the exhibition, including ultra-high power laser cutting machines, robotic automatic bending units, portal single-point precision servo presses, fiber laser welding systems, pure electric servo bending machines, electric servo CNC turret punching machines, laser forming combination machines, six-axis robotic glue coating equipment, cold bending roll forming equipment, composite double galvanometer scanner welding heads, high-power fiber laser chillers, and various smoke purifiers, presenting the cutting-edge solutions for sheet metal and pipe processing and opening a new chapter in metal pipe cutting.

IAS 2024: Featuring a Collection of Globally Debuted Products

Industrial automation, as the core driving force of modern manufacturing, is reshaping the new global industrial landscape at an unprecedented speed.

With the rapid development of technology and the constant change of market demand, the industrial automation field is ushering in a series of new trends and technological innovations. IAS 2024 has specially launched seven theme sections, including the Exhibition Area for Intelligent Manufacturing System Solutions, Exhibition Area for Motion Control Systems, Exhibition Area for Embedded Technology, Exhibition Area for Intelligent Sensing and Connectivity, Exhibition Area for Power Transmission, Exhibition Area for Measurement Technology and Instrumentation, and Exhibition Area for Industrial Automation Industry Solutions, with a number of global and domestic debuts expected at the scene.

In the Exhibition Area for Intelligent Manufacturing System Solutions, industry leaders such as Siemens, Beckhoff, Bosch Rexroth, Phoenix Contact, Mitsubishi Electric, Omron, Panasonic, Schneider, Intel, Delta, INOVANCE, HollySys, Advantech, and Kyland Technology gather together and showcase the successful cases and technical applications in high-end intelligent manufacturing. As a leading enterprise in new automation technologies and a pioneer in PC-based control technologies, Beckhoff presents a series of innovative products such as the MX System cabinet-free solution, ultra compact industrial PCs, embedded controllers, planar magnetic levitation conveyor systems, AI assisted engineering, magnetic-driven flexible conveyor systems, and system integrated machine vision solutions. Hikrobot showcases products and solutions covering 2D vision, intelligent ID, 3D vision, mobile robots, and digital twins, including the new hand-held code reading IDH9000 series products.

Motion control systems, as a core branch of automation technology, play a critical role in the field of industrial control and are widely applied in various industrial sites and daily life. The motion control systems section gathers well-known manufacturers such as ABB, Inovance, KEBA, Innometrics, SANYO DENKI, Elmo, XINJE, Oriental Motor, Leadshine, Moons', Kinco, HCFA, INVT, Shihlin Electric, Hualong, MatriBOX, Googoltech, Wecon, Chaodechuang,

and Kossi, bringing advanced servo drive technologies and a series of innovative products. The Exhibition Area for Embedded Technology welcomes industry leaders such as ASUS, Flexem, NODKA, EVOG, NEXCOM, Samkoon, Vecow, Cincoze, ICP DAS, Yanzhi, Vensin, Maxtang Computer, TouchWo, Chenzhu, APQ, Yanling, and CESIPC.

In the Exhibition Area for Intelligent Sensing and Connectivity, industry leaders such as TURCK, SICK, Pepperl+Fuchs, ELCO, Baumer, Controlway, Balluff, Murrelektronik, IFM, Autonics, DEGSON, HONGFA, WAIN, MEIJIDENKI, Senpum, Phoskey, UPUN, CHANKO, Beisit, Marvtech, etc. display a wide range of sensor-actuator solutions, signal connectors, and industrial Ethernet passive components. TURCK makes a significant appearance with RFID sample tracking, TAS Cloud and other latest technologies and personalized solutions for the first time. The Pepperl+Fuchs R200 series of distance laser sensors, aiming to provide users with forward-looking and practical innovations and solutions, will also make their global debut. Compared with the traditional direct insertion spring connection, DEGSON's world-first touch-connection spring technology supports tool-free connections of all kinds of wires, which greatly improves the wiring efficiency for users.

The Exhibition Area for Power Transmission brings together famous exhibitors including Festo, SMC, HIWIN, AirTAC, CHELIC, MINDMAN, TBI Motion, Ginier, CPC Chieftek, CSK Motion, SATA etc. Festo showcases its ELGD electric cylinder module and the world's first new generation valve terminal. This exhibition area will also see the global debut of pneumatic motorized rotary mechanical clamp EM, slide rail parallel mechanical clamp HMF, and drug liquid valve LAQ/LMQ, providing strong support for intelligent manufacturing and Industry 4.0 era. The Exhibition Area for Measurement Technology and Instrumentation and the Exhibition Area for Industrial Automation Industry Solutions also boast a strong lineup including KEYENCE, HC Vision, JANPOS, UnitX, Hongrun, Yudian, Huayi Zhongheng, Yaying Aluminum, EA Excelsior, Co-Strong, Hengli Hydraulics, KOAL, BEI-IDEACOD, P neulead, ZONCN, Dejite, FRECON, FHS, HABO, LEIZIG, Golten and other well-known enterprises.

Other Highlights: Forums and Exchanges Inspiring Sparks of Thought

In addition to product display, a number of high-end forums and exchange activities are also the highlights of this year's show. Adhering to the new theme of "Advanced Productivity & Digital Empowerment", CIIF 2024 has established a unique "1+3+N" event system, including a keynote forum, three industry summits, and N events involving panel discussions, industry seminars, and new product launches. These events will be closely connected with the

exhibitions of CIIF and focus on cutting-edge, forward-looking, professional, and academic discussions and exchanges, with an aim to empower and contribute wisdom to the offline forums, further enhance industry exchanges, and promote the digital transformation and sustainable development of industries.

During IAS 2024 and MWCS 2024, nearly 20 sessions will be held on site, including the 2024 Zhihui Shanghai Innovation Leading-Digital Solution Forum, Digital Drive & Green Empowerment - Building a New Industrialized Future, APS Asia Powertrain Industrial Technology Conference, Intelligent Industry, Low-Carbon Manufacturing - Robotics & Industrial Digitalization and Zero-Carbon Factories Practice Exchange Conference, the 21st MES (Manufacturing Execution System) Development & Application Conference - Industrial Digital Transformation and Intelligent Manufacturing, Academic Annual Conference of Shanghai Association of Automation - Industrial Internet and Industrial Intelligence, Symposium on Digital Transformation of Manufacturing Industry Empowered by New Quality Productive Forces, Seminar on PLC open Technology for Supporting Intelligent Manufacturing, 2024 Asia Laser Application Technology China Summit, 2024 Metal Cutting High-Level Forum, HAIZOL x 24th CIIF Matchmaking Meeting between Procurement and Suppliers of Parts and Components Shanghai Session, etc. International experts, academicians of the Chinese Academy of Engineering, founders of enterprises, heads of academic institutions and other representatives will gather here to discuss the future development trend of the industry, provide intellectual support for enterprises to grasp market opportunities, and contribute wisdom to China's new industrial development.

The first day of the exhibitions has witnessed large numbers of professional visitors from machinery manufacturing, electronics/information communication, medical devices, automotive parts, rail transit and other related industries flocked to the venue for purchases, exchanges and negotiations with their interested exhibitors. Liu said, "The success of this year's MWCS and IAS is of great practical significance to promote international industrial cooperation and strengthen technical exchanges. Both of the shows not only provide a platform for enterprises to display their strength and identify potential partners, but also inject new vitality and innovation momentum into the development of global industry."

With the unveiling of the highly-anticipated shows, we are ready to embrace the future. MWCS and IAS have once again become the splendid stage for showcasing global new quality productive forces. Let's witness the achievements of global wisdom, draw up industrial development plans, and write a new chapter in global industrial development together from September 24 to 28, 2024, at CIIF!

EC+Ophit

MWCS

METALWORKING
AND TOOL MACHINING
TOOL SHOW

2024中国国际工业博览会 (数控机床与金属加工展)

2024年9月24日-28日 国家会展中心 (上海虹桥)

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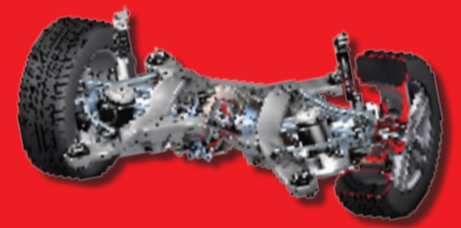
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2024 IAS & MWCS 同期会议活动 2024 IAS & MWCS Concurrent Conferences & Activities

项目 Project	日期 / 时间 Date/Time	地点 Venue	会议主题 Topics
IAS INDUSTRIAL AUTOMATION SHOW	9月24日 Sep.24 09:30-16:00	M5-01 会议室 Meeting Room M5-01	2024 智汇上海·创新引领——数字化解决方案论坛 2024 Zhihui Shanghai Innovation Leading the Forefront - Digital Solution Forum
	9月24日 Sep.24 13:00-16:30	M5-02 会议室 Meeting Room M5-02	支持智能制造的 PLCopen 技术研讨会 Smart Manufacturing Oriented PLCopen Technology Seminar
	9月24日 Sep.24 13:30-15:30	M5-03 会议室 Meeting Room M5-03	数字驱动·绿色赋能，共筑新型工业化未来 Digitally Driven-Green Empowerment, Building a New Industrialized Future Together
	9月24日 Sep.24 13:00-16:00	M6-02 会议室 Meeting Room M6-02	2024 宏集 Solution Day 数字化生产构建企业发展新引擎 Digital Manufacturing: The New Growth Engine for Enterprises
	9月25日 Sep.25 13:00-17:30	M4-02 会议室 Meeting Room M4-02	新质生产力赋能制造业数字化转型研讨会 Seminar on New Productive Forces Enabling the Digital Transformation of Manufacturing Industry
	9月25日 Sep.25 13:30-16:30	M5-01 会议室 Meeting Room M5-01	APS Asia 亚洲动力总成产业技术大会 Asian Powertrain Industry Technology Conference
	9月25日 Sep.25 09:30-16:00	M5-03 会议室 Meeting Room M5-03	【上海】OPC UA — 数字化赋能企业转型 【Shanghai】OPC UA — Empowering Digital Transformation for Enterprises
	9月26日 Sep.26 10:00-16:30	M5-01 会议室 Meeting Room M5-01	智能工业、低碳制造 -- 机器人 & 工业数字化与零碳工厂实践交流会 Smart Industry, Low-Carbon Manufacturing: Robotics & Industrial Digitalization and Zero-Carbon Factory Practice Conference
	9月26日 Sep.26 10:00-15:45	M5-02 会议室 Meeting Room M5-02	第二十一届 MES (制造执行系统) 开发与应用专题研讨会 — 工业数字化转型和智能制造 The 21 st MES (manufacturing execution system) Development & Application Conference — Industrial Digital Transformation and Intelligent Manufacturing
	9月27日 Sep.27 10:00-16:00	M5-02 会议室 Meeting Room M5-02	2024 第二届上海市自动化学会产学研年会暨上海市自动化学会青年科技论坛 The 2 nd Annual Conference of Shanghai Association of Automation and Youth Science and Technology Forum of Shanghai Association of Automation in 2024
MWCS METALWORKING AND CNC MACHINE TOOL SHOW	9月24日 Sep.24 13:00-17:00	M3-02 会议室 Meeting Room M3-02	海智在线 X 第 24 届工博会工业零部件采购对接会·上海站主会场 HAIZOL X 24 th MWCS · Industrial Parts Sourcing Forum · Shanghai Main Venue
	9月24日 Sep.24 13:00-17:00	M4-02 会议室 Meeting Room M4-02	海智在线 X 第 24 届工博会工业零部件采购对接会·上海站VIP分会场+采购对接 HAIZOL X 24 th MWCS · Industrial Parts Sourcing Forum · Shanghai VIP Room + Matchmaking
	9月25日 Sep.25 10:00-17:00	M3-02 会议室 Meeting Room M3-02	ALAT 2024 中国工业激光技术峰会 ALAT 2024 China Industrial Laser Technology Conference
	9月26日 Sep.26 09:30-12:00	M4-02 会议室 Meeting Room M4-02	2024 金属切削高层论坛 Application and Development Forum of High Speed Metal Cutting 2024

由中国机械工程学会塑性工程分会、中国机械总院集团北京机电研究所有限公司主办，《锻压技术》编辑部、《金属板材成形》杂志/金属成形商务咨询(北京)有限公司等单位协办的“2024 上海锻压技术与装备展区”在 MWCS2024 数控机床和金属加工展期间首次亮相。本报采访了精密成形国家工程研究中心副主任/中国机械总院集团北京机电研究所有限公司锻压中心主任石一馨先生，了解该展团在以铝合金为代表的轻合金成形产业的情况。



问：新能源汽车铝合金精密成形技术发展现状是怎么样的？



精密成形国家工程研究中心副主任/中国机械总院集团北京机电研究所有限公司锻压中心主任石一馨

石一馨：轻量化是汽车产业的核心技术之一，铝合金由于低密度、高强度、耐腐蚀等优异特性，在新能源汽车的车身、底盘系统、动力系统关键部位的应用日益广泛。随着国家一系列促消费、稳增长政策的实施，进一步激发了新能源汽车的市场活力和消费潜能。中国汽车工业协会数据显示，自 2015 年起，我国新能源汽车产销量连续 9 年

位居全球第一，2024 年 1-6 月，新能源汽车产销分别完成 492.9 万辆和 494.4 万辆，同比分别增长 30.1% 和 32%，新能源汽车铝合金市场需求持续增长。铝合金精密成形技术现已成为促进新能源汽车产业高质量发展的核心技术。

早在 20 世纪，铝合金精密锻件就已在国外的中高端车型上广泛使用。随着汽车轻量化概念的推广，我国车企采购进口铝合金锻件应用在高端汽车上。进入 21 世纪以后，我国汽车铝合金市场需求快速增长，引进了国外的铝合金自动锻造生产线，用于高端车型铝合金零部件的生产。随着国内新能源汽车的爆发式增长，铝合金关键零部件的需求量巨大。我国不断加大对铝合金产业链的科技创新投入和研发力度，产业结构持续优化升级。党的二十大报告指出，要加快推进制造业高端化、智能化、绿色化发展。以中国机械总院集团北京机电研究所有限公司为代表的大型国资央企，在国家重大科技专项等项目的支持下，历经十几年的技术攻关和科技创新，重点围绕新能源汽车高性能关键铝合金零

部件自主研发一体化的铝合金锻造造成套技术与装备取得重大突破。

机电所创新团队研发了铝合金精密成形“形性”协同控制工艺，产品尺寸达到精密级（国标、德国 DIN 标准），异常再结晶层厚度≤3mm；开发了具有自主知识产权的系列化铝合金精密辊锻机、楔横轧机等专用制坯设备，材料利用率提升约 15%；开发了铝合金射流加热炉，炉温均匀性≤±3°C，效率高，产品质量优异；建成了高效、稳定、安全的锻热全工艺流程智能化生产线，生产节拍高达 15s/件，单日产量>4800 件，而同类型的进口生产线生产节拍约为 25s/件。该技术填补了国内空白，达到了国际先进水平，依托该成套技术已在国内外建成铝合金全自动锻造生产线 30 余条，为小米汽车、比亚迪、蔚来、理想等国内外知名汽车企业稳定供货新能源汽车悬挂系统、热管理系统等关键零部件，有力推动了新能源汽车关键轻量化零部件的国产化进程。

新能源汽车铝合金精密成形技术在推广应用，以机电所为核心形成了一

条完整的产业链，发展了一批优质的供应链企业。其中包括：铝合金全自动生产线、专用装备、自动化和智能化技术提供商—中国机械总院集团北京机电研究所有限公司，中试和产业验证基地—中机精密成形产业技术研究院（安徽）股份有限公司；铝合金原材料提供商—亚太轻合金（南通）科技有限公司；铝合金专用高端精密锯床提供商—浙江阿波罗工具有限公司；铝合金专用电动螺旋压力机提供商—营口锻压机床有限责任公司；铝合金专用热模锻压力机提供商—扬力集团股份有限公司；铝合金专用模具模座提供商—马鞍山市中冶机械有限责任公司；铝合金专用脱膜剂提供商—上海彻能机械设备有限公司，以及德国进口伺服直驱电动螺旋压力机提供商—拉斯科（北京）成形技术有限公司。

展望未来，我们将致力于打造新能源汽车铝合金精密成形技术原创策源地，并持续向航空航天和轨道交通等领域推广应用，以科技创新带动产业创新，发展新质生产力，为推进中国式现代化贡献力量。

欢迎莅临MWCS上海工博会

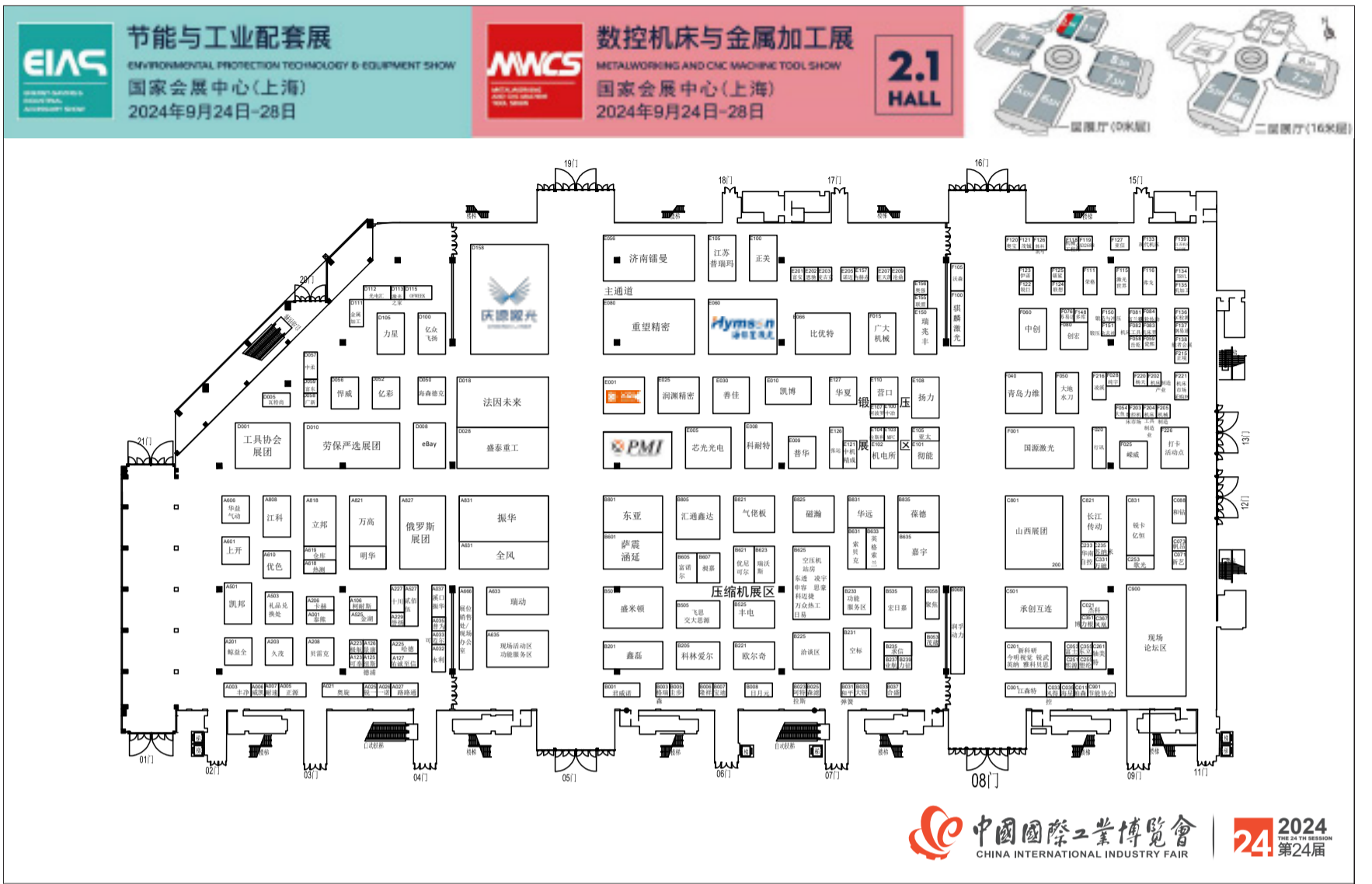
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数控机床与金属加工展
METALWORKING AND CNC MACHINE TOOL SHOW

国家会展中心(上海) National Exhibition and Convention Center (Shanghai)
2024年9月24日-28日 24-28 September, 2024

4.1 HALL

一层展厅(0米层)
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IAS 工业自动化展
INDUSTRIAL AUTOMATION SHOW
国家会展中心(上海) National Exhibition and Convention Center (Shanghai)
2024年9月24日-28日 24-28 September, 2024

5.1 HALL

一层展厅(0米层) 二层展厅(16米层)

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HIKROBOT
海康机器人
多维柔性 智慧智造
5.1H-B177

大族激光：G3015HF 高速光纤激光切割机

Booth No.: 3H-A088

HF Expert 系列光纤激光切割机是为满足海外市场需求而推出的机型，最高可搭载 60kW 超高功率，高功率、高效率、稳定可靠。设备采用一体化设计，电气柜、激光器、气路系统、润滑系统、工作台拖动系统等全部集成设计在机床内部，安装简便，可减少客户现场安装时间，也便于

海外运输、节约海外运输费用；全封闭激光防护装置，带安全连锁开关，配合 OD5+ 级激光防辐射玻璃，激光安全性好；通过欧盟 CE 认证检测，产品质量、安全性、可靠性有保障。



Han's Laser: G3015HF Expert Laser Cutting Machine

HF Expert series fiber laser cutting machines are launched to meet the demand of overseas market. These series of machine can carry ultra-high power up to 60kW. High power, high efficiency, stable and reliable. They adopt integrated design, concentrating the electrical cabinet, laser, air system, lubrication system and table drive system all inside the machine tool, which makes them easy to be installed and reduces the customer's on-site installation time, as well as facilitates

overseas transportation and saves transportation charges. Equipped with safety interlocking switch and OD5+ anti-radiation glass, the fully enclosed laser protection device ensures high laser safety. With EU CE certification test, their quality, safety and reliability are guaranteed.

大族激光智能装备集团有限公司
Han's Laser Smart Equipment Group Co., Ltd.
Tel: 400 666 4000
Website: www.hansme.com

天田：光纤激光焊接系统

Booth No.: 3H-D088

SIS 光纤激光焊接机器人拥有模态可变技术，配合独特的光束摆动机构，不依靠机器人进行摆动，而是利用光束转动，在焊接加工中根据焊缝大小，无论是拼焊、叠焊、自溶焊等都可以选择对应的加工模式。除了最常用的同轴喷嘴以外，还可以选择侧喷嘴，气体保护性更佳，可以实现更为优异的焊接断面。另外，如果加工产品的孔部位离焊接位置太近，直接进行加工可能会导致孔部位变形，这时可更换为简易切割喷嘴，在焊接完成之后，再进行三维的后追加切割。



天田（中国）有限公司
AMADA China Co., Ltd.
Tel: +86-21-5985 8222
Website: www.amada.com.cn

百超：ByCut Nova 激光切割机

Booth No.: 3H-E128

- 20kW 的激光功率能够以高精度切割厚达 40mm 的碳钢；
- 切割速度快，装备瑞士百超设计的切割头能够快速切割各种板材，提供生产效率；
- 应用范围广，可将各种金属材料轻松地切割成所需的工件尺寸；

- 有单层液压和双层对拉料台可选，满足不同生产条件的需求；
- 提供工厂自动化解决方案；
- 通过 21.5 英寸触摸屏可以像智能手机一样方便地操作 Bystronic 控制软件。



Bystronic: ByCut Nova

- A new generation of ByCut Nova laser cutting products to provide ultra-cost-effective laser cutting solutions.
- Carbon steel up to 40 mm thick can be cut with high precision using laser power of up to 20kW.
- Fast cutting speed, equipped with the cutting head designed by Bystronic can quickly cut a variety of plates, providing production efficiency.
- Wide range of applications, various metal materials can be easily cut into the required workpiece size.
- Single hydraulic and double

deck pull-out tables are available to meet your different production conditions.

- Can be equipped with automation to provide you with factory automation solutions and provide conditions for you to create unmanned chemical plants.
- The Bystronic control software can be operated as easily as a smartphone through the 21.5-inch touch screen.

百超（上海）精密机床有限公司
Bystronic Co., Ltd. (Shanghai)
Tel: +86-21-6082 9300
Website: www.bystronic.com

萨瓦尼尼：P2 紧凑型多边折弯中心 + 机器人解决方案

Booth No: 3H-D128

P2 是萨瓦尼尼开发出的一款先进的折弯中心，可以对冲剪好的板材进行柔性折弯，仅需一次定位便能自动完成多边折弯。并且，P2 集成了萨瓦尼尼独有的板材特性补偿技术 MAC3.0，可在折弯过程中检测板材特性与国际标准值之间的差异，并相应调整折弯模具和机械手的动作，做出相应的补偿。能够有效保证成品的精度，减少原料损耗，在大幅度减少人工干预的同时，有效保证产品的高质量。

器调整装置可以实现折弯不同形状的工件时，无需换模。这不仅能够有效提高生产效率，还能让用户实现成生产、单件流生产等各种精益化生产模式。

萨瓦尼尼中国
Salvagnini China
Tel: +86-21-5240 0342
Website: www.salvagnini.com.cn



邦德：M 系列激光切管机

Booth No.: 3H-B088

- 采用四卡盘结构，在切割最后一截工件时，能够带料正向或反向移动，实现 0 尾料切割；
- 随动托辊支撑 + 智能对中，上下料环节效率提升 30%，大幅提升切割精度；
- 全面革新工序与效率，可同步开展新一轮上料或完成上一轮下料动作。



济南邦德激光股份有限公司
Jinan Bodor CNC Machine Co., Ltd.
Tel: 400 991 7771
Website: www.bodor.cn

翌控科技 AXEL 6.1H-F216展位

PLC控制器 高实时 高性能

软件解决方案

上海翌控科技有限公司
13764507241
henry.bao@nextrol.com

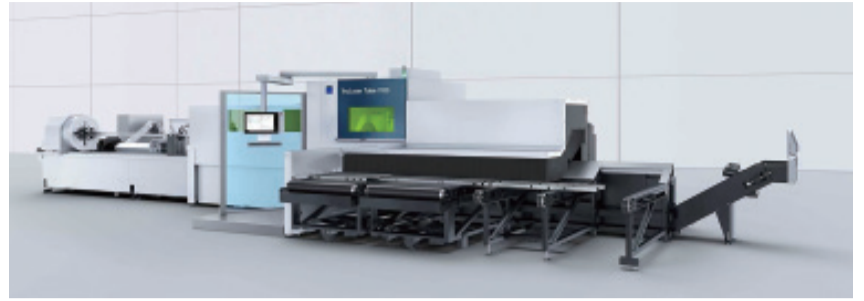
通快：高端 7000 系列激光切管机

Booth No.: 3H-E088

TruLaser Tube 7000 fiber 将固体激光器应用于广泛的加工范围。固体激光器代表快速而灵活的加工。即使对于微小的轮廓，RapidCut 也使激光器的高速进给优势更加明显。特别是对于薄类材料，这意味着生产效

率的大幅提升。开放式机床设计使 TruLaser Tube 7000 fiber 在装载和卸载时易于接近。因此，这款机器即使用于单件批次也具有理想的效率。

通快（中国）有限公司
TRUMPF (China) Co., Ltd.
Tel: +86-512-5328 7700
Website: www.trumpf.com



锐科：光纤激光器系列

Booth No.: 3H-E178

当前锐科产品已形成连续光纤激光器、脉冲光纤激光器、准连续光纤激光器、窄线宽光纤激光器、直接半导体和超快激光器六大类，广泛应用于激光打标、切割、焊接、熔覆、清洗、增材制造，覆盖钣金

加工、汽车、新能源、光伏、3C 电子、船舶、航空航天、激光医疗、雷达传感等行业领域。公司根据市场要求为全方位进军高端应用市场开发了旗帜系列、HP 系列、全球版系列以及超快激光产线等丰富的产品矩阵，为中国激光制造业转型升级贡献力量。



Raycus: Fiber Laser Family

At present, Raycus products have formed six categories: CW fiber lasers, pulsed fiber lasers, QCW fiber lasers, narrow linewidth fiber lasers, direct semiconductors, and ultrafast lasers. They are widely used in laser marking, cutting, welding, cladding, cleaning, additive manufacturing, covering industries such as sheet metal processing, automotive, new energy, photovoltaics, 3C electronics, shipbuilding, aerospace, laser medicine, radar sensing, etc. The company has developed a rich

product matrix including the R-series, HP series, global version series, and ultrafast laser production line to comprehensively enter the high-end application market according to market requirements, contributing to the transformation and upgrading of China's laser manufacturing industry.

武汉锐科光纤激光技术股份有限公司
Wuhan Raycus Fiber Laser Technologies Co., Ltd.
Tel: +86-27-8133 8818
Website: www.raycuslaser.com



激光切割A+B智能子系统解决方案



激光切割系统
XC3000S/XC6000



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- 高速稳定随动
- 焦漂温漂补偿
- 高效省料套料
- 散光检测、穿孔检测
- 云端+无线手持APP



鼎实：PA/APL 仪表通信模组

Booth No.: 5.1H F098

- 为 PA/APL 仪表厂家产品提供的 PA 通信解决方案；
- 支持多种仪表行规，温度、压力、湿度、物位等；

- 国际标准、基于国产芯片，完全自主知识产权；
- 数据接口 SPI/UART，应用编程提供低代码例程；
- 评估板、原理图、PCB 封装、例程。

D&S: DS-PAMOD

- PA communication solutions provided for PA/APL instrument manufacturers' products.
- Support multiple instrument specifications, temperature, pressure, humidity, level, etc..
- International standards, based on domestically produced chips, with completely independent intellectual property rights.
- SPI/UART data interface, providing low code routines for application programming.
- Evaluation board, schematic,

PCB packaging, routine.
北京鼎实创新科技股份有限公司
Beijing D&S FieldBus Technology Co., Ltd.
电话: 137 0130 7159
网址: www.c-profibus.com.cn



维司卡：电缆防水接头 TriShot™

Booth No.: 5.1H-B042

TriShot™ 是一款三射注塑电缆接头。其设计有助于减少材料浪费、能源消耗、装配时间并简化生产建议，同时确保产品性能达到最高标准。

IP68 防护等级、内置密封件、出色的应力消除、宽夹紧范围和快速安装时间只是确保 TriShot™ 在苛刻环境下性能的部分特征。与普通电缆接头相比，TriShot™ 的产品碳足迹减少了 54.5%，具有出色的可持续发展能力。

WISKA: Cable Glands TriShot™

The TriShot™ is a 3-shot injection moulded cable gland. Its considered design has helped reduce material waste, energy consumption, assemble time and streamline the production propose, whilst at the same time ensuring the product performs. IP68 protection, built-in seal, excellent strain relief, wide clamping range and fast installation time are just some of the features that ensure the TriShot™ performances under the toughest of circumstances. Boasting an impressive 54.5% reduction in its product carbon

footprint compared to conventional cable glands, TriShot™ has excellent sustainability credentials.
维司卡电气设备(上海)有限公司
WISKA Electric Systems (Shanghai) Co., Ltd.
电话: +86-21-5844 0056
网址: www.wiska.cn



安士能：新型 FlexFunction CTS 安全开关

Booth No.: 5.1H-D009

最大限度地提高产品灵活性是新型 CTS 门锁设备的设计灵魂。该开关锁紧力高，外形小巧，安装灵活，由于其集成了 IO-Link 通信功能且设计周密，可以满足不同安装以及应用场合的安全防护需求。FlexFunction 功能，允许单一装置执行多种功能。

CTS 的尺寸仅为 135×31×

31mm，最大锁紧力为 3900N。对于铰接门、移门或半径极小的门，有 3 个不同的开关安装方向，还可以随时添加带触发装置的可扩展逃生解锁装置。基于成熟的应答机技术，CTS 实现了 EN ISO 13849-1 所要求的安全等级 4/PL e。



Euchner: CTS Safety Switch

The CTS safety switch is one of the latest developments in transponder-coded safety guard locking. Measuring only 135 by 31 by 31mm and featuring a locking force up to 3,900N, plus diverse mounting options, this switch is versatile enough for almost any application. The CTS can be mounted in three directions to protect both hinged and sliding doors. Users can also add an escape release at any time. This transponder-coded safety switch with guard locking provides maximum safety.

The CTS FlexFunction switch also combines in a single device multiple functions otherwise

available only in separate variants. With or without guard lock monitoring and with a high or low coding level for actuator code evaluation – the choice is up to the user with CTS. Functions are selected by choosing the appropriate actuator. As with most Euchner switches, the CTS also features a variety of connection options. Combining the CTS with a Euchner IO-Link Gateway gives it the additional benefit of communicating in Industry 4.0 applications.

安士能(上海)机电商贸有限公司
Euchner (Shanghai) Trading Co., Ltd.
电话: +86-21-5774 7090
网址: www.euchner.de/zh-cn

施迈赛：电磁安全锁 AZM40

Booth No.: 5.1H-A145

电磁安全锁 AZM40 AZM40 外型尺寸为 119.5×40×20 mm，体积非常小，尤其适用于小型安全门和挡板。尽管体积小，但 AZM40 具有非常高的锁紧力，达 2000N。更大的磁性接触面在错位的情况下提供了更大的宽容度，但仍然提供了安全性。集成 RFID 技术允许编码级别为“高”，这意味着该安全锁提供了更高的防篡改保护，符合 DIN ISO 14119 的要求。即

使在断电的情况下，也将保持最后的锁定位置。因此，在所有机器运行状态下都可以确保安全运行，因为安全防护装置在断电的情况下仍会保持安全关闭，即使在运行和危险运动中也是如此。



Schmersal: Electromagnetic Safety Lock AZM40

The AZM40 Electromagnetic Safety Lock measures 119.5×40×20mm, offering a very compact size that is particularly suitable for small safety doors and barriers. Despite its compactness, the AZM40 boasts a high locking force of up to 2000N. The larger magnetic contact surface provides greater tolerance in misaligned situations while still ensuring safety. Integrated RFID technology allows for a coding level of "high," meaning the safety lock offers enhanced tamper protection,

meeting the requirements of DIN ISO 14119. Even in the event of a power failure, it will retain its last locked position. Thus, safe operation can be ensured under all machine operating states, as the protective device remains safely closed in the event of a power outage, even during operation and hazardous movements.
施迈赛工业开关制造(上海)有限公司
Schmersal Industrial Switchgear (Shanghai) Co., Ltd.
电话: 138 1688 5974
网址: www.schmersal.com.cn

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上海纳博斯克传动设备有限公司
电话: 021-33632200
网址: www.nabtesco-motion.cn

SAB 赛普中国：一体化伺服机电缆解决方案

Booth No.: 5.1H-D102

成立于 1947 年的德国企业 SAB 赛普电缆，专业提供高定制化电缆解决方案。随着工业 4.0 的发展，伺服驱动电机在金属、塑料和木材加工等领域的应用显著增长，对高性能电缆的需求也随之提升。SAB 应运推出

一体化电缆技术 (OCT - One Cable Technology)，整合电源、控制和反馈信号于一根电缆，优化设备空间利用，简化安装要求并降低总体成本。SAB 的 OCT 电缆具备双重屏蔽，确保至高 16kHz 脉冲功率下的稳定传输，同时其优异柔性适合拖链应用，满足工业自动化的严苛要求。

SAB CHINA: One-Cable Technology (OCT) Solutions for Servo and Motor Cables

With the evolution of Industry 4.0, the application of servo drive motors in fields such as metal, plastic, and wood processing has significantly increased, leading to a rising demand for high-performance cables. SAB has introduced One Cable Technology (OCT), integrating power, control, and feedback signals into one single cable, optimizing equipment space utilization, simplifying installation requirements, and reducing overall costs. SAB's OCT cables feature dual shielding, ensuring stable transmission even



at high pulse power up to 16kHz, and their excellent flexibility makes them ideal for drag chain applications, meeting the rigorous demands of industrial automation.

赛普 (上海) 电缆贸易有限公司
SAB Special Cables (Shanghai) Co., Ltd.
Tel: +86-21-5835 0843
Website: www.sab-cable.cn

果栗智造：iTS 磁悬浮智能柔性传输线

Booth No.: 6.1H-A050

iTS 磁悬浮智能柔性传输线可应用于锂电、3C 消费电子、半导体、液晶面板、汽车电子、医疗器械、制药、智能物流、高端日用品等行业。

- 高速、高加速、高精度、无需二次定位；
- 定子可延展到 2000m 以上，动子数量可增加到 2000 个；

- 摆脱线缆拖链束缚，每个动子可独立控制，可实现同步 / 异步控制，负载区间大；

- 集成一体模块化设计，制造周期短；
- 拥有防水防尘防腐能力 (定制)，不产生颗粒粉尘；
- 丰富的拓扑结构，支持工厂自由布局，设备占地空间可节省 40% 以上，减少二次搬运空间。

Golytec: iTS Flexible Transport System

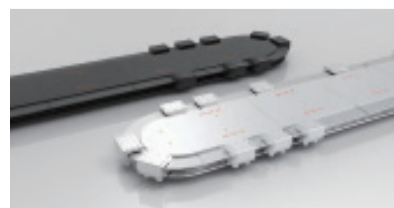
iTS flexible conveyor systems can be applied to industries such as lithium batteries, 3C consumer electronics, semiconductors, LCD panels, automotive electronics, medical equipment, pharmaceuticals, intelligent logistics, and high-end daily necessities.

- Easily programmable, high velocity, acceleration, and precise positioning minimizes downtime.
- Flexible and modular design accommodates hundreds of movers per system.
- Robust and flexible mover technology allows for both synchronous and asynchronous motion control and accommodation of payloads small and large.

- Modular design, quick setup, less maintenance and short manufacturing cycles.

- Adaptable for clean-rooms and harsh environments.
- Reduces factory footprint with a compact production line layout customized to any desired arrangement of process stations.

果栗智造 (上海) 技术股份有限公司
Shanghai Golytec Automation Co., Ltd.
Tel: 180 1935 3097
Website: www.golytec.com



穆尔电子：Vario-X 自动化系统

Booth No.: 5.1H-A148

100% 分布式自动化，无需控制柜。Vario-X 系统解决了日益复杂的生产挑战。模块化的系统解决方案，

可满足任何一种机器需求。灵活、可扩展、可机器安装、紧凑设计。由于设置时间和错误源的减少，分布式系统无需耗时的安装。通过预测性维护，售后服务也不会延长生产周期。

Murrelektronik: Vario-X Automation System

100% distributed automation without control cabinets. The Vario-X system solves increasingly complex production challenges. Modular system is flexible, scalable and capable for any kind of machine requirement and. Distributed system eliminates the need for time-consuming installation due to reduced set-up times and error sources. With predictive maintenance and after-sales service accelerate production cycles.

穆尔电子元器件 (上海) 有限公司
Murrelektronik
Tel: +86-21-6284 7607
Website: www.murrelektronik.com.cn



费斯托：VTUX 新一代阀岛自动化控制平台

Booth No.: 5.1H-D018

VTUX 的最新款阀岛作为费斯托经典阀岛的集大成，规划了丰富的气电融合控制组合。先进的 AP 通信技术，可以轻松与各种总线系统实现无缝连接，为用户提供前所未有的选择和可能性。同时，支持多种压力分区以及并行、串行连接的灵活转换，使得用户可以根据实际需求，快速定制



出最适合的解决方案。极大降低了产品复杂度。真正实现软硬兼顾，气电融合，无缝衔接。

Festo: The Next Generation VTUX Valve Terminal

The next-generation VTUX valve terminal, a representative product at the exhibition, is a culmination of Festo's classic valve terminals. The VTUX valve terminal offers a rich combination of gas-electric integration control. Leveraging advanced AP communication technology, the VTUX valve terminal seamlessly connects with various bus systems, providing users with options and possibilities. It supports

multiple pressure zones and flexible conversions between parallel and serial connections, enabling users to quickly customize solutions based on actual needs. This reduces product complexity, achieving a balance between hardware and software, as well as gas and electric integration.

费斯托 (中国) 有限公司
Festo (China) Ltd.
Tel: +86-21-6081 5327
Website: www.festo.com.cn

海康机器人：IDH9000 系列手持读码器

Booth No.: 5.1H-B177

海康机器人全新第二代手持产品 IDH9000 系列，在完善手持产品布局的同时更追求高性能、高稳定性与优异的使用体验。读码性能方面，基于深度学习的读码方案持续升级迭代；采用双相机结合的方案，实现大景深读码的同时兼顾了极小码读取，可根据场景需求无感切换；全新优化的照明系统，提供漫射照明、双侧照明、点光照明、偏光照明，为解码提供强

力后盾；除此之外，自带显示屏、智能无线充电技术、坚固耐用等一系列产品特点，可轻松应对汽车汽配、航天航空、PCB 等复杂、严苛、多变的工业场景。

杭州海康机器人股份有限公司
电话: +86-571-8896 7998
网址: www.hikrobotics.com



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欢迎莅临2024工博会普玛宝展台

展位号: 3H-D168



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网址：www.primapower.com



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EP5 Series

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全新
升级



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全新一代EP5系列伺服驱动器,采用轻薄型外观设计,显著减小安装体积,更加优化的模型算法,支持在线惯量识别、自动陷波、机械分析、增益自适应等功能,搭配丰富的接口设计,可广泛应用于数控机床、木工、激光、包装、机器人、3C等行业。



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- 超薄机身设计, TL08机型体积缩减40%, 节约安装空间;
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- 伺服软件易学易用, 支持固件升级, 多机参数管理, 减少技术人员的工作量;
- 全系CE认证, 质量可靠, 节省售后成本。



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- 支持绝对值电机、旋变电机、直线电机、异步电机等;
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