



mai

创新自动化

GREAT IDEAS NEED GREAT SOLUTIONS

伟大的想法 - 需要完美的解决方案

We are the specialists for
automation solutions

您的创新自动化解决方案合作伙伴

www.m-a-i.cn

Only the best ideas for your success!

专注于为您的成功提供最佳方案!

交钥匙方案

Turnkey Solutions

注塑成型自动化
automation for injection molding

装配线与测试线
assembly and test lines

机械加工行业的
机器人搬运系统
robot handling systems for loading and unloading of your machining lines

基于视觉系统的电气、
视觉, 电气检测技术
camera based, electrical and electronic testing technologies

过程数据记录与追溯系统
systems for process data recording and traceability

LOCATIONS

公司位置

MAI 
Headquarter
Kronach/Germany
总部位于德国的克罗纳森



M.A.i USA Inc.
Service and Sales
Atlanta / USA
美国亚特兰大的销售和售后服务公司



Preview 2021:
M.A.i Mexico Inc.
(together with partner Cloos- since
2005 in Mexico)
Employees: 20-70 (250)

2021 前瞻:
MAi 墨西哥公司
(合作伙伴Cloos- 自2005起合作)
员工: 20-70

MAi Automation
Technology Co. Ltd.
Nanjing / P.R. China
艾玛意自动化技术
(南京) 有限公司



MAi Automation
Technology Co. Ltd.
Ningbo / P.R. China
宁波迅迈自动化技术
有限公司

GREAT IDEAS NEED GREAT SOLUTIONS



FOUNDATION

成立

Autumn 1991 foundation of Jürgen Hoffmann Automation Technology by Jürgen Hoffmann.

Foundation of Hoffmann Automation GmbH in Kronach / Neuses October 1994, with its production area of approximately 300 m².

1991年秋，于尔根·霍夫曼（Jürgen Hoffmann）创立了“Jürgen Hoffmann Automation Technology”公司

1994年10月，在克罗纳赫/诺伊塞斯成立了“Hoffmann Automation GmbH”公司，生产区面积达到300 m²。



FOUNDATION OF M.A.i GmbH & Co. KG

成立“M.A.i GmbH & Co. KG”公司

On 04 Oct. 1999 CEOs:

- Jürgen Hoffmann
- Rainer Knaak
- Arthur Schwab

1999年10月4日时任首席执行官:

- 于尔根·霍夫曼
- 雷纳·纳克
- 亚瑟·施瓦布

NEW COMPANY BUILDING OF M.A.i

M.A.i新建公司大楼

120 Employees
120 名员工

New company building of M.A.i since September 2011

- 30 000 m² estates
- 18 000 m² hall area
- Current production area 6500 m²
- Tripling of production area

2011年9月，M.A.i新公司大楼落成

- 占地30,000 m²
- 生产车间18,000 m²
- 现有生产区6,500 m²
- 生产区扩增了3倍
- 全新企业形象

EXPANSION OF GLOBAL SERVICE

全面扩充服务部门

210 Employees
210 名员工

- Expansion of service department for 10 employees and expansion of programming department for 30 employees
- Current production area 8000 m²

- 服务部门扩充至10人，编程部门扩充至30人
- 现有生产区达8000 m²

FOUNDATION OF MAi USA Inc.

成立美国公司 M.A.i USA Inc.

240 Employees
240 名员工

- Foundation M.A.i USA Inc.
- Completion of the technical laboratory.

- 成立美国公司 M.A.i USA Inc.
- 建成图像处理与控制工程技术实验室

STRONG GROWTH IN THE FIELD OF ELECTRIC MOBILITY

270 Employees +
50 Employees M.A.i China
超过270名员工
中国MAi 50名员工

- 新建行政大楼
- 2019年史陶比尔战略合作奖
- 巴伐利亚最好的实习生培训基地

- strong growth in the area of Electric mobility
- New construction administration building
- Stäubli Strategic Award 2019
- Best trainees in Bavaria

HISTORY

发展历程

过去二十年间，M.A.i 已经逐步发展壮大，成为了自动化领域知名的公司。

我们一直致力于开发，生产高度复杂的自动设备，以满足客户不同的要求。

1991

1998

1999

2005

2011

2014

2015

2016

2017

2018

2019

2020

Movement of the Engineering Office Schwab into Hoffmann Automation GmbH & Co. KG.

“Engineering Office Schwab”工程设计事务所及其5名员工迁至“Hoffmann Automation GmbH & Co. KG”公司大楼。

FOUNDATION OF ENGINEERING OFFICE SCHWAB

成立“Engineering Office Schwab”工程设计事务所



80 Employees
80 名员工

- Extension of the production area up to 2000 m²
- New assembly area with an in-door crane.

- 生产区面积扩增至2000m²
- 全新组装区，设有室内起重设备

EXTENSION OF THE ASSEMBLY HALL IN KÜPS

增扩位于古比斯的组装车间

170 Employees
170 名员工

Foundation of MAi Automation Technology Co. Ltd in Ningbo

成立宁波迅迈自动化技术有限公司

FOUNDATION OF M.A.i Ningbo / CHINA

成立 M.A.i 中国宁波分公司

230 Employees
250 名员工

Building and movement of our new M.A.i training center

- Brose Supplier Award 2016
- Lucas Cranach Unternehmerpreis 2016 - Kategorie „Innovation“

- 建设并迁至M.A.i新培训中心
- „博泽2016年优秀供应商奖“
- 创新类“克罗纳赫2016创业精神奖”

FURTHER COMPANY EXPANSION

公司进一步扩张

260 Employees
260 名员工

Foundation of MAi Automation Technology Co. Ltd. Nanjing / P.R. China

成立艾玛意自动化技术（南京）有限公司

FOUNDATION OF MAi Nanjing / CHINA

成立 M.A.i 中国南京分公司

280 Employees +
70 Employees M.A.i China
超过280名员工
中国MAi 70名员工

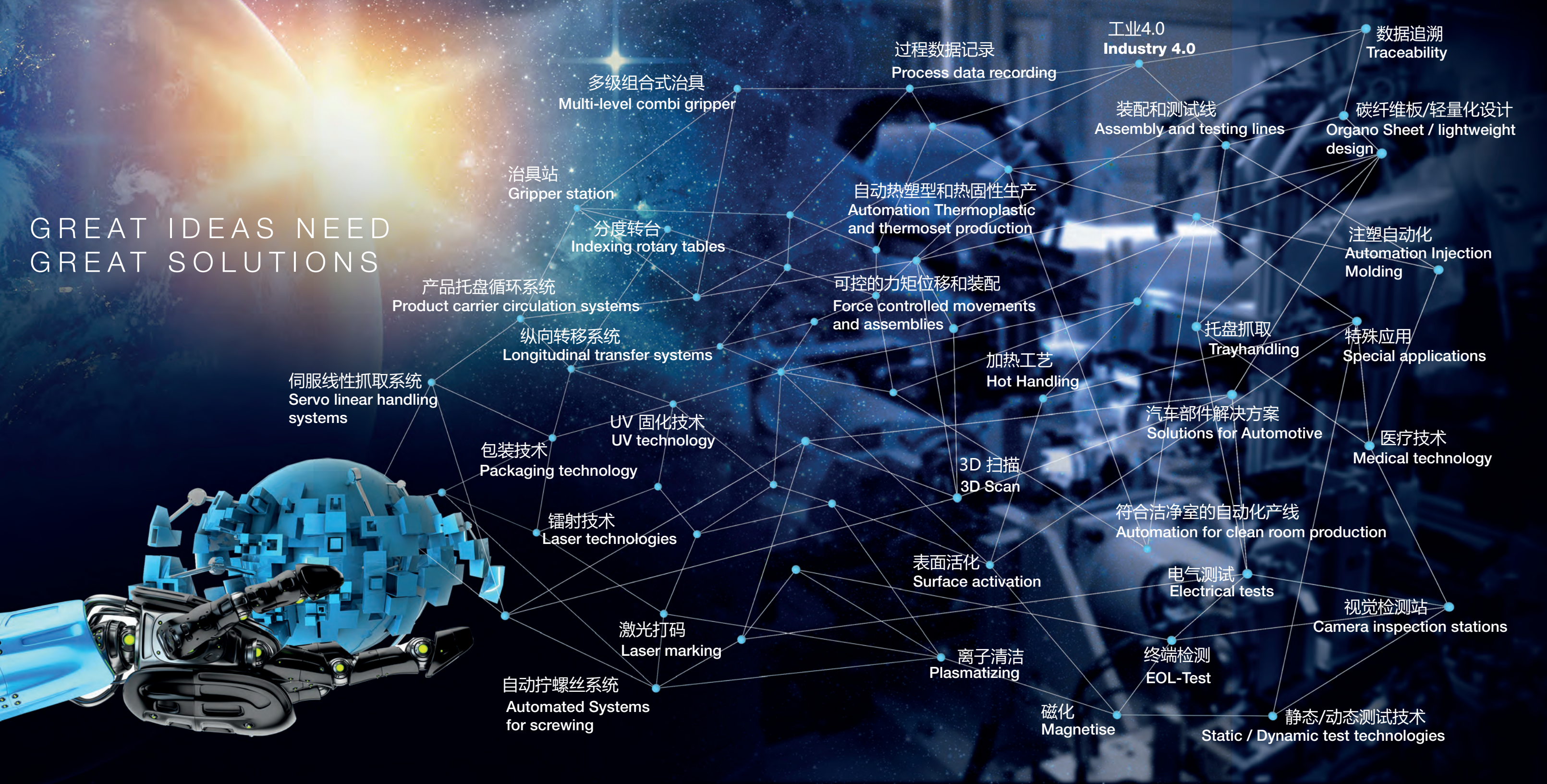
- 全球扩张
- 公司集团扩张
- DIN EN ISO 9001:2015 认证
- MAi荣获德国“最佳雇主”
- 发展新的控制概念
- 参加2020 AUTOMATICA 展

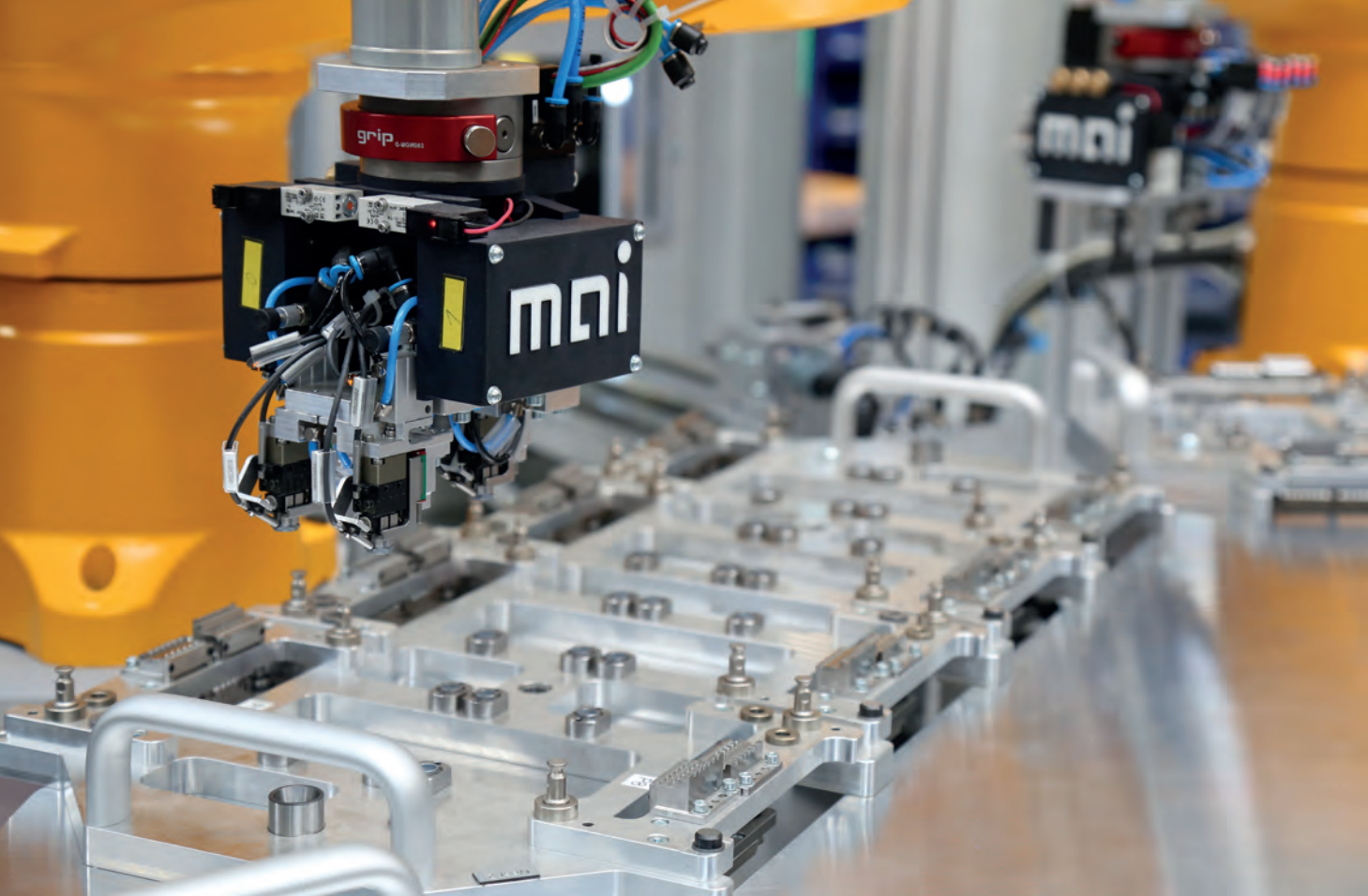
- Worldwide expansion
- Expansion of the group of companies
- Certification according to DIN EN ISO 9001:2015
- M.A.i under „Germany's best Employer“
- Development of new control concept
- New exhibition stand AUTOMATICA 2020

EXTENSION OF THE GROUP OF COMPANIES

扩大公司规模

GREAT IDEAS NEED
GREAT SOLUTIONS





- Feeding (bulk material, vibration feeder, tape and reel, load carriers, tray stacks and separation systems)
- 进料 (散装材料、振动给料机、卷带和卷轴、装载滑台、托盘堆栈和分离系统)
- Positioning, conveyance (workholding fixtures, collets, transfer systems, pick and place systems...)
- 定位、运输 (工件夹具、夹头、传输系统、抓取放置机构)
- Joining (clipping, bonding, welding with laser, ultrasonic-welding, vibration welding, hot plate welding)
- 连接 (裁切、粘接、激光焊接、超声波焊接、振动焊接、热板焊接、热融)
- Machining (die cutting, milling, separation, cutting)
- 机加工 (模切、铣削、分离、切割)
- Assembly (joining, welding, screwing)
- 装配 (连接、焊接、拧紧)
- Testing (all types of mechanical, electrical and camera tests)
- 测试 (所有类型的机械、电气和照相机测试)
- Marking (printer label, ink jet, pin printer, laser-marking, stamping, DMC-laser, DMC-countercheck)
- 标记 (打印机标签、喷墨打印机、针式打印机、激光打标、冲压、DMC激光、DMC-复读)

M.A.i 为您完成装配线的规划和生产, 例如:

From consulting and design to manufacturing and assembly as well as finally set-up of your individual machine.
您最高质量的生产-我们为您的需求创建自动化生产线: 从咨询和设计到制造和装配, 以及最终调试机器。

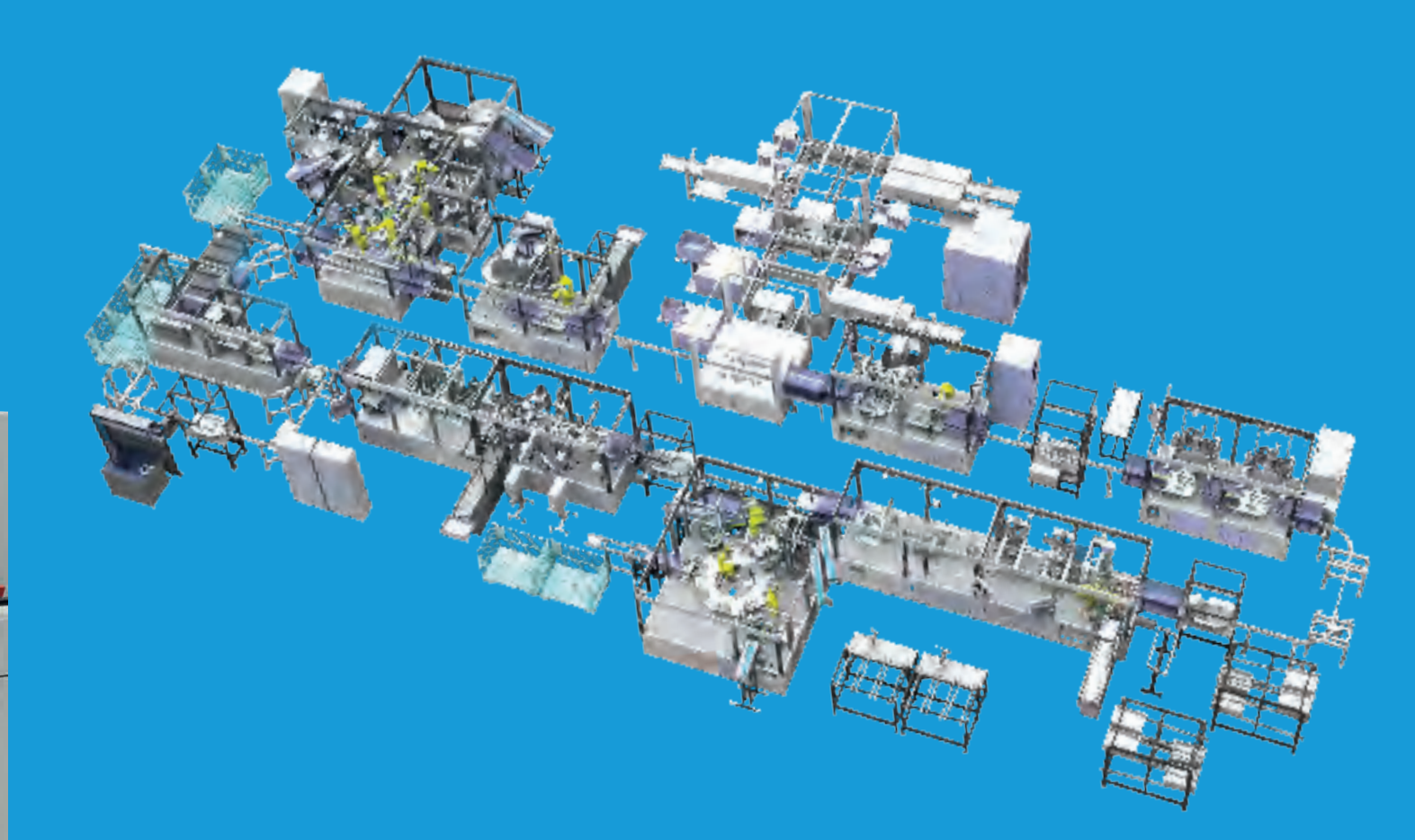
We find and realize the optimal solution. So that you can establish low-cost but qualitative high-class assembly processes at your plant.
我们找到并实现最佳解决方案。因此, 您可以在工厂建立低成本但一流的装配工艺。我们为您开发了装配线中所需的一切工艺。

M.A.i develop for you all necessary processes in your assembly line. M.A.i assembly solutions assure innovation and customs-fit coordination exactly to your needs
M.A.i 装配解决方案用创新和量身打造相结合的理念来完全满足您的需要



Great ideas
need
great **Solutions**

完美方案展现出
绝妙的构想



M.A.i 为您完成机器人与注塑机的结合自动化：

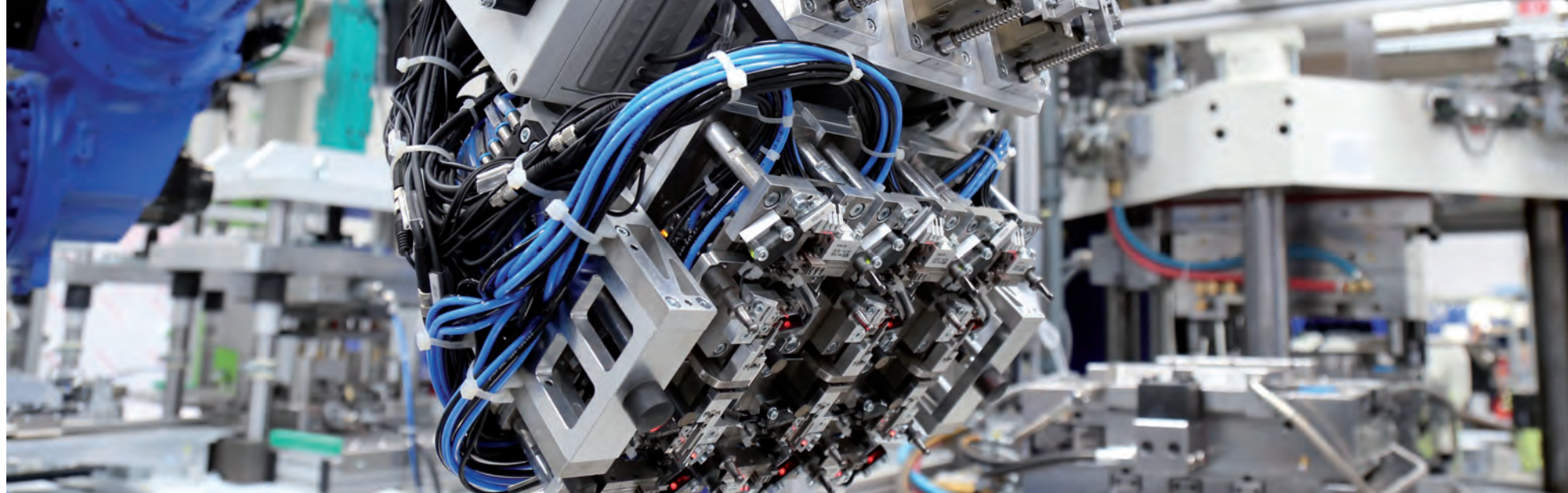


Your experts are specialists in injection moulding or extrusion. We have the necessary knowledge in the area of plastic material and its processing as well as the further refinement stages.

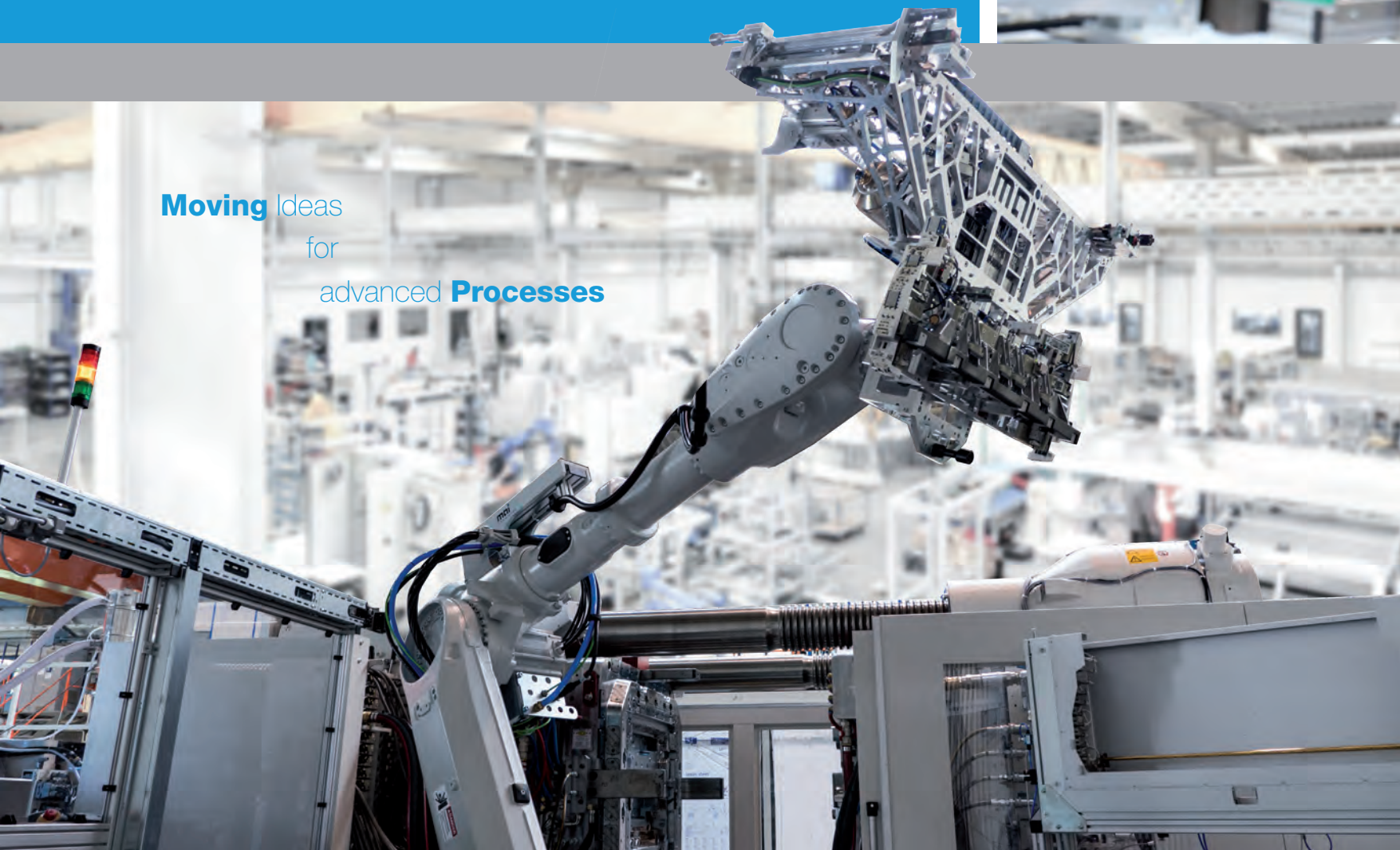
我们为您提供的专家都专精于注塑或挤制工艺。我们具备塑料加工与精制领域的专业知识。我们会根据您的特殊的应用，为您量身定制自动化解决方案与系统，以确保提高您的效益。

You benefit from our automation solutions and systems, which are exactly tailored to your special applications. Your individual M.A.i system ensures you the optimal way getting a finished product.

您可以从我们的自动化解决方案和系统中受益，这些解决方案和系统完全适合您的特定应用。

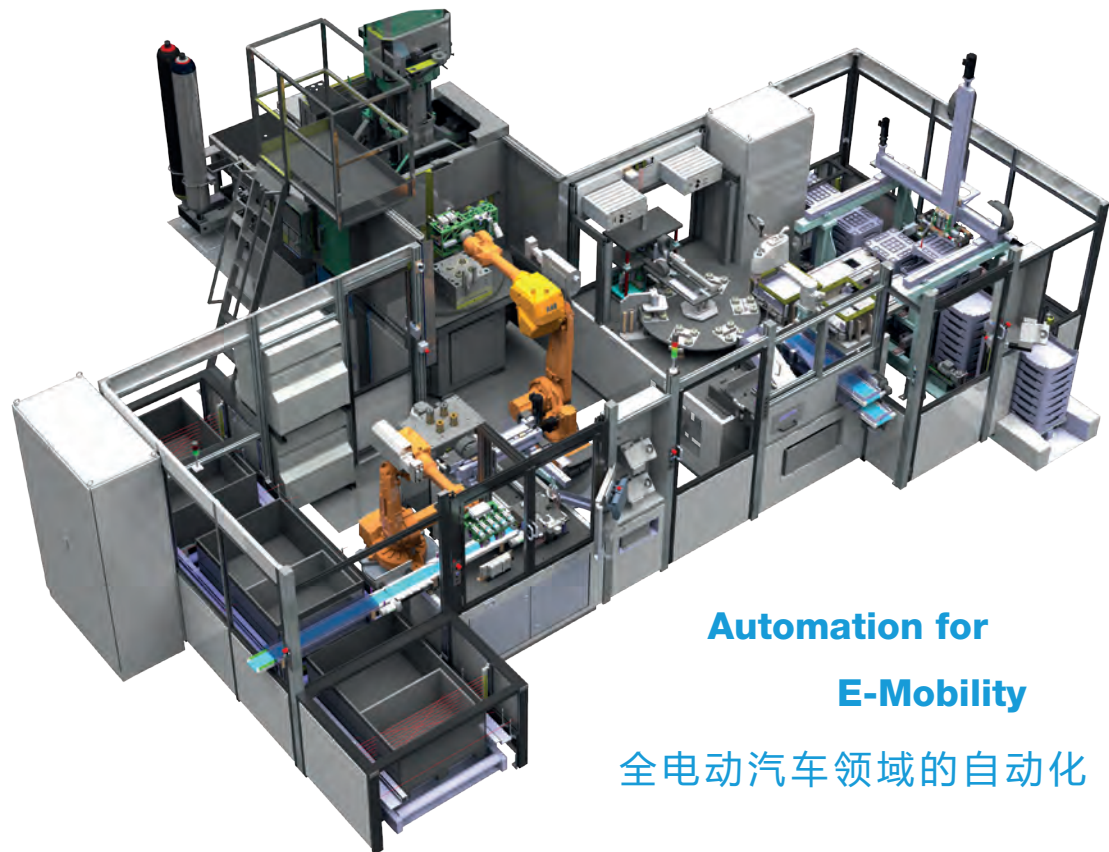


Moving Ideas
for
advanced **Processes**



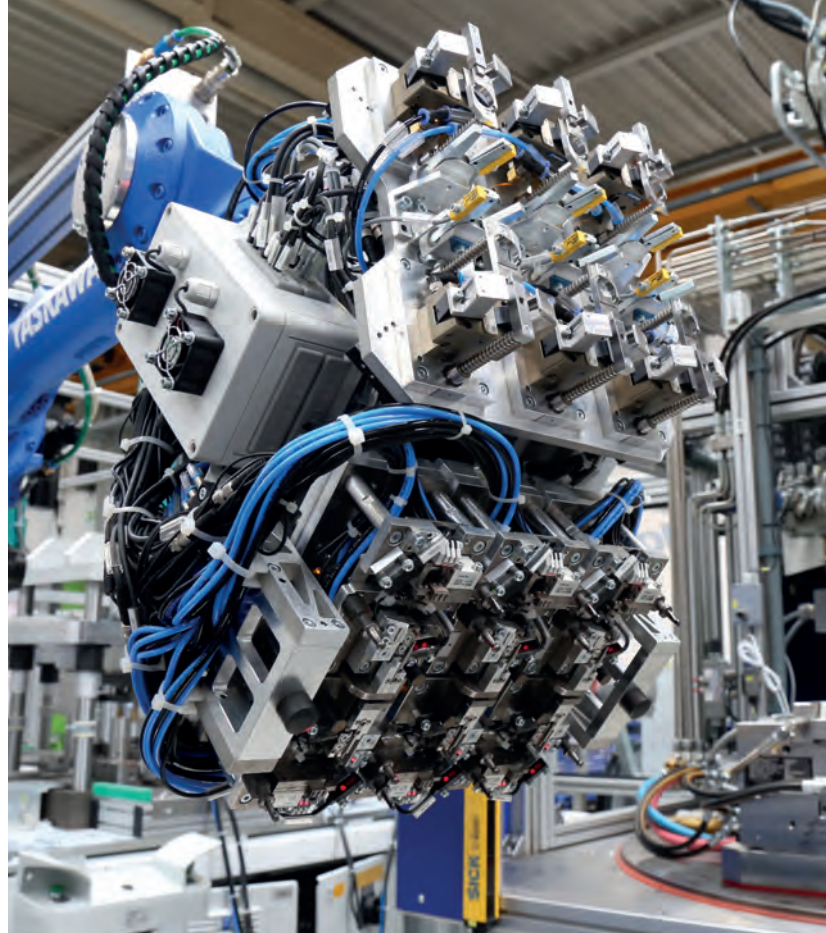
- Extraction of plastic parts with 3-axis handling system (Single extraction, integrated assembling, controls, depositions, packaging...)
- 采用三轴抓取机构取出塑料件（单独取出、集成装配、控制、存放、包装）
- Lateral extraction handling (extraction of manufactures parts, insertion of insertion parts...)
- 横向取出处理（取出制造件、插入嵌件）
- 6-axis robot system (extraction, insertion, positioning, assembly, reworking, controls, marking, packaging...)
- 六轴机器人系统（取出、插入、定位、装配、返工、质量控制、打标、包装）
- Handling of insert parts inclusive automatic supply (vibration feeder, linear conveyor, flex-feeder, tape and reel...)
- 嵌件的自动送料处理（振动给料机、直线输送机、柔性给料机、卷带和卷轴）
- Extraction / extraction gripper (possibly with centering on the tool)
- 取出/取料夹（可带有中心定位功能）





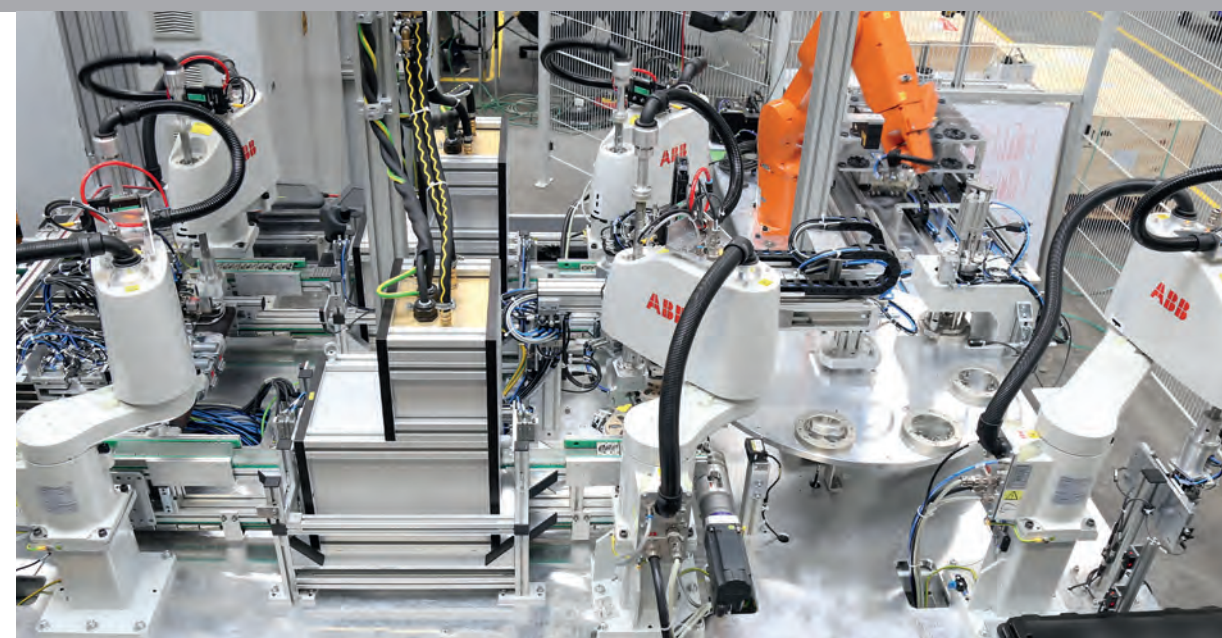
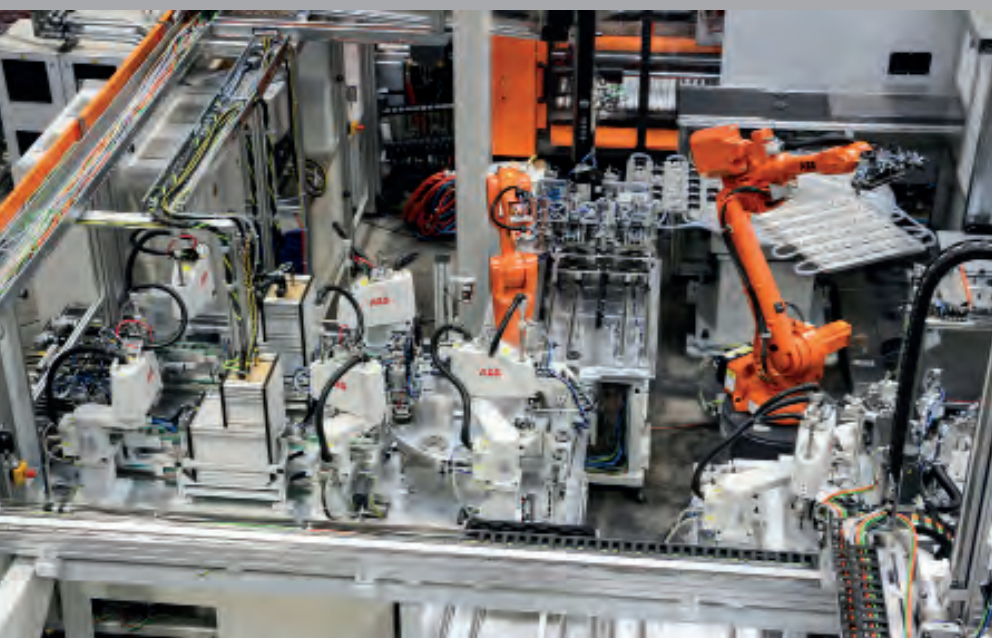
**Automation for
E-Mobility**

全电动汽车领域的自动化



- Planning and consulting of the complete production technology for their product (Production, assembly, integrated processing, robotics, checking, packaging)
- 规划和咨询其产品的完整生产技术 (生产、装配、集成处理、机器人、检查、包装)
- Construction of assembly lines (carrier-circling system, round cycle – assembly machines, linear conveyor, transfer system, interlinked manual workstations...)
- 建设装配线 (载体循环系统、循环组装机、直线输送机传输系统、互连的手动工作台)
- Individual working places (stand alone, interlinked, one-piece flow...)
- 独立工作场所 (独立式、互连式、一体式流动)
- Process implementation (assembly process, integrated tests, marking, traceability, packaging, ok parts and not ok parts handling)
- 工艺执行 (装配工艺、集成测试、标记、可追溯性、包、合格件和不良件处理)
- Feasibility studies and conception
- 可行性研究和概念
- Assembly of components and industry products
- 组件和工业产品装配

注塑产品的自动化产线

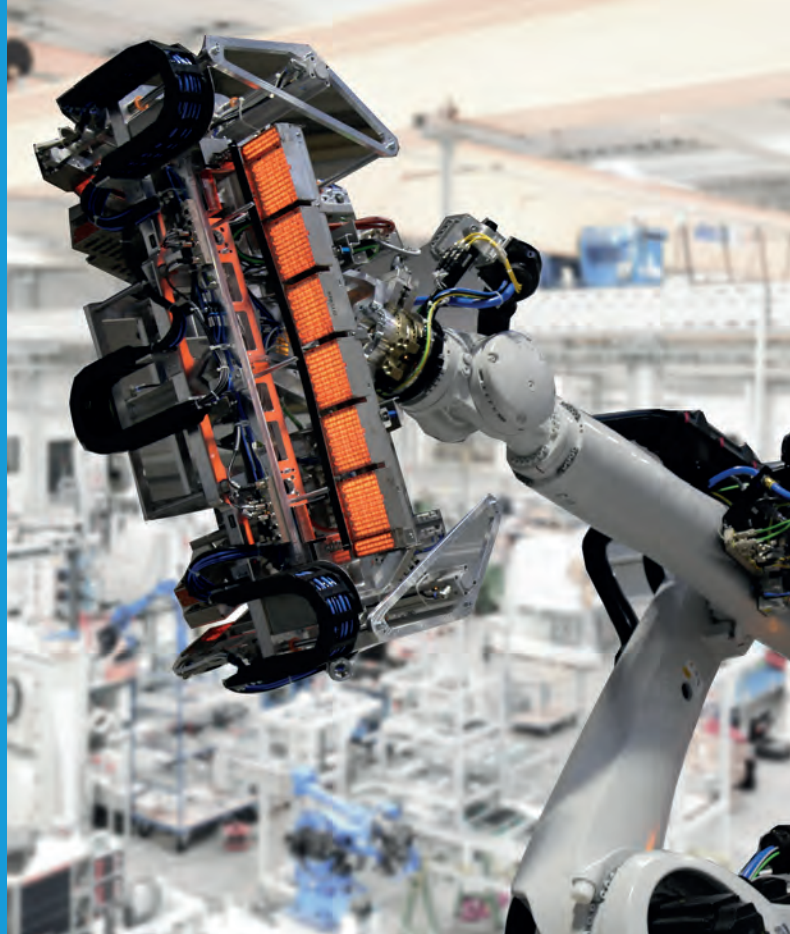


Your advantage:
您的优势:

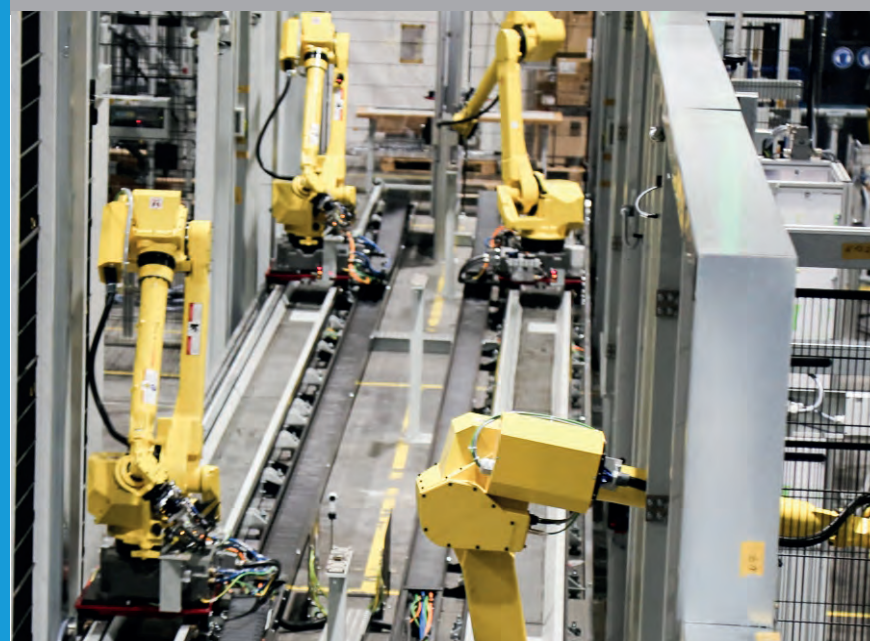
You use our experience pool for high efficiency and best quality in your production.
利用我们的专家团队确保高效和优质的生产。

M.A.i find and realize for you individual perfect solutions to automate your processes or special applications. You maximize at once your part quality and cost-efficiency using accurately M.A.i solutions.

我们为您找到并实现最好的自动化解决方案和特殊应用。通过 M.A.i 解决方案让您的产品质量和成本效益得到最佳化。



只要您有想法，我们负责为您实现



Special Applications for

- automated assembly and test lines
- automated machines due to injection moulding
- automation of special applications
- semi-automated manual workplaces
- robot handling systems for insertion and unloading of your machining lines
- camera based, electrical and electronic testing technologies
- systems for process data recording and traceability

特殊应用的自动化领域:

- 注塑产品的自动化产线
- 装配及测试的自动化产线
- 半自动的工作台
- 机械金属加工设备的机器人自动上料和下料
- 视觉检测，电子电气测试技术
- 数据储存和追溯功能

Process Control System

过程控制系统

High efficiency and data security
高效、安全

The M.A.i process control system has been developed using state-of-the-art technology.
M.A.i应用最先进的技术开发了过程控制系统。

The result is a system that meets even the highest standards of reliability and performance.
因此我们所提供的系统能够达到最高的可靠与性能标准。

We know how valuable the data from your production are! The processing of several hundred measured values per second is just as self-evident as the operation on a high Availability Cluster.
我们知道您的生产数据有多重要！每秒处理几百个测得数值，高可用性集群的工作效率不证自明。

Keep an eye on everything

The M.A.i process control system allows you to monitor your process live by creating quality control charts for individual process characteristics. These can be live at any time directly on the machine or also from the office.

随时随地掌控一切

M.A.i过程控制系统能够针对每个过程特性创建质量控制图表，便于您实时监控每个过程。无论是在车间还是在办公室，都能实现实时监控。

- Cost-effective solution
低成本效益解决方案
- Fast integration into your infrastructure
与您的基础架构快速整合
- Integrated solution for Tracking & Tracing
跟踪与追溯集成解决方案
- Further extensions possible according to future growth
对设备在将来升级改造的可信性考虑

View on mobile device -
Live view available at any time on smartphones, tablets, etc.

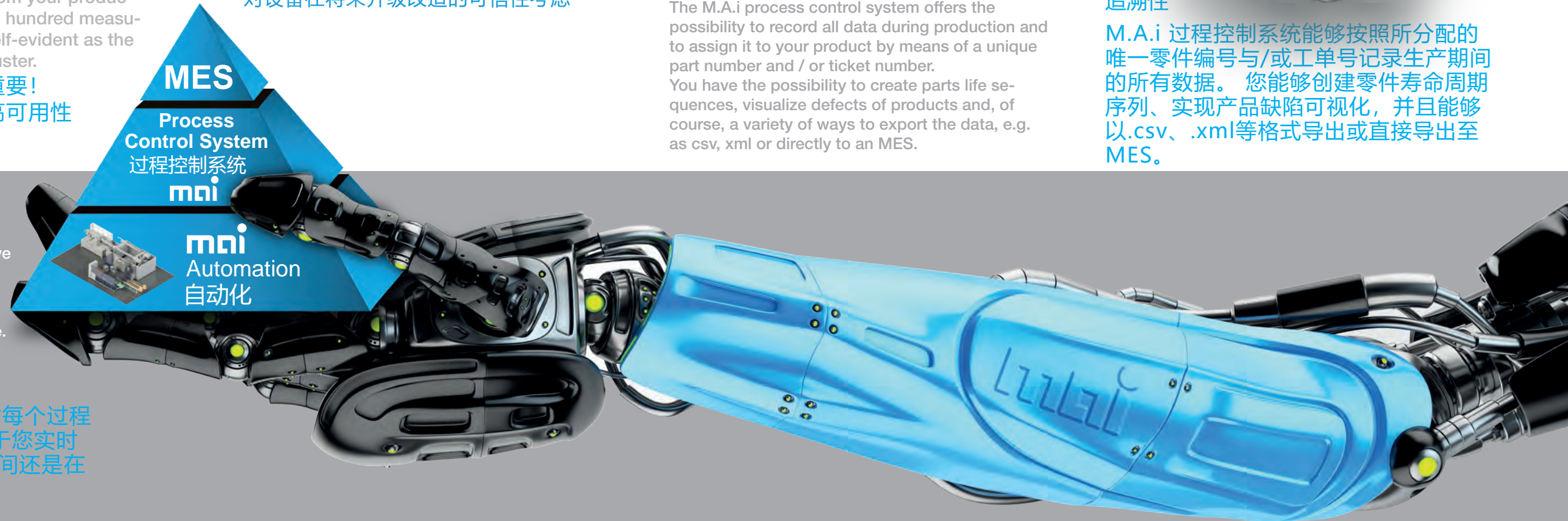
可在移动设备上随时查看——通过智能手机、平板电脑等实时查看

Traceability

The M.A.i process control system offers the possibility to record all data during production and to assign it to your product by means of a unique part number and / or ticket number. You have the possibility to create parts life sequences, visualize defects of products and, of course, a variety of ways to export the data, e.g. as csv, xml or directly to an MES.

追溯性

M.A.i 过程控制系统能够按照所分配的唯一零件编号与/或工单号记录生产期间的的所有数据。您能够创建零件寿命周期序列、实现产品缺陷可视化，并且能够以.csv、.xml等格式导出或直接导出至MES。



Full automated Maskproduction

全自动口罩生产线

We make an important contribution to corona prevention by manufacturing production facilities for protective masks.

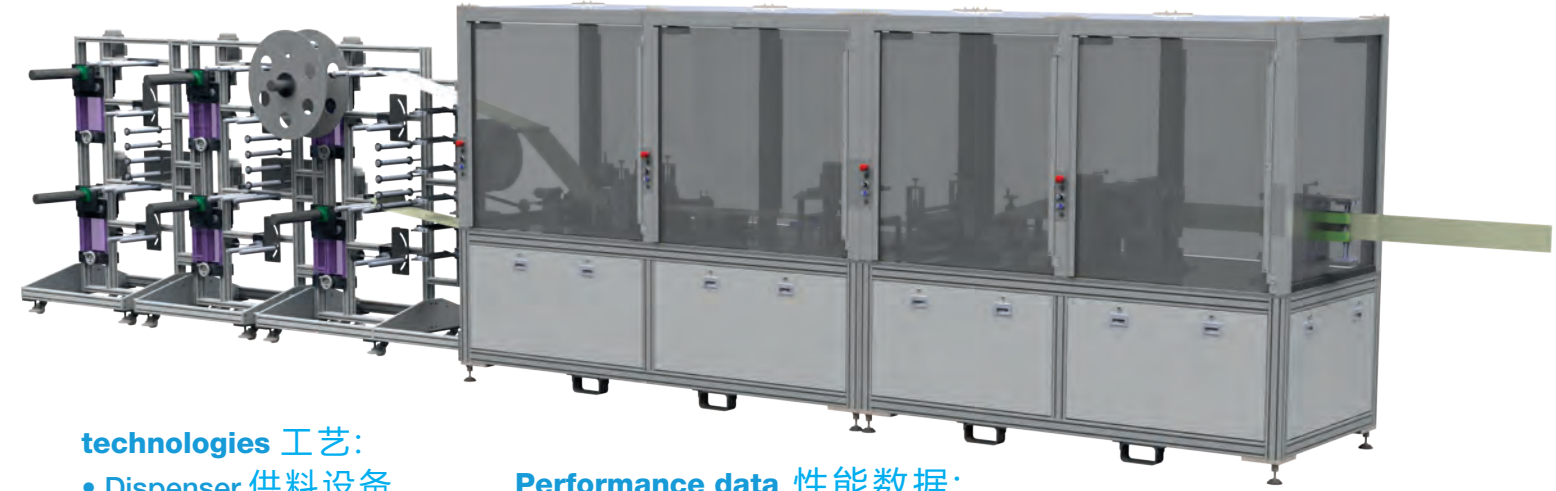
With our in the Upper Franconian Kronach manufactured plants can be fully automated FFP2- and FFP3- Produce folding masks with or without additional age according to DIN EN-149. The systems are CE certified, have an output of up to 60 masks per minute depending on the material and a high technical system availability of 90%.

Through the integration of a packaging line the masks are additionally individually bagged, labelled and stacked in cartons, thus a complete solution is available to our customer.

In combination with the production facilities, we also arrange contacts to manufacturers of filter materials and nonwovens, which are used for the production of high-quality certified masks are necessary.



我们通过制造防护口罩的生产设备，为防止新冠病毒做出了重要贡献。我们位于德国Upper Franconian Kronach工厂，可以完全自动化生产符合德国DIN EN-149标准的FFP2-和FFP3级别折叠式口罩。该系统已通过CE认证，根据材料的不同，每分钟可输出多达60个口罩，并且系统的技术利用率高达90%。通过集成包装线，口罩也可以单独包装，贴标签和堆叠在纸箱中，为我们的客户提供完整的解决方案。除了提供生产设备，我们还可以协调帮助联系生产高质量口罩所需的过滤材料和无纺织的制造商。

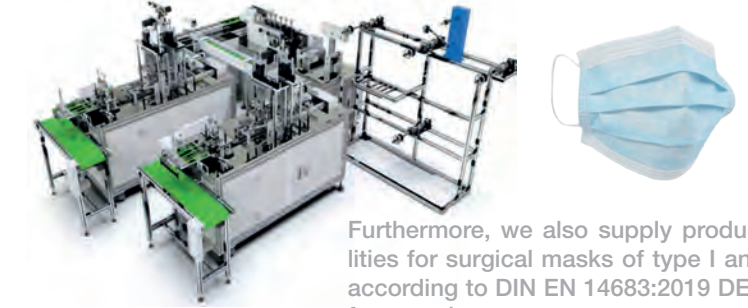


technologies 工艺:

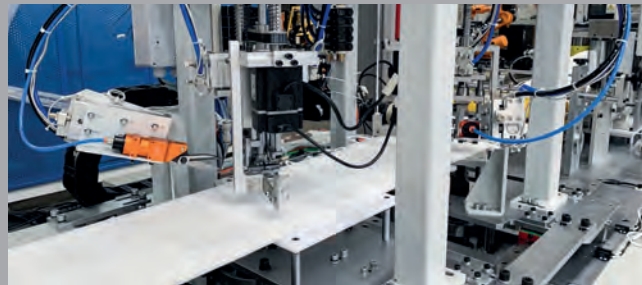
- Dispenser 供料设备
- Welding 焊接
- Lettering 印刷
- Folds 折叠
- Cutting 滚切
- Packaging 包装
- Database interfaces 数据库接口
- MES connection MES连接

Performance data 性能数据:

- cycle time up to 60 masks / min 每分钟60个以上



Furthermore, we also supply production facilities for surgical masks of type I and type IIR according to DIN EN 14683:2019 DE - Medical face masks.



The systems are very easy to operate, compatible, implemented reliably and cost-effectively. The masks produced can be used for medical purposes as well as in electronics, mining, construction, catering and other industries.



该系统非常容易操作，兼容，实现可靠和成本效益。生产的口罩可用于医疗用途，也可用于电子、采矿、建筑、餐饮和其他行业。



The lines produce foldable masks with unsealed outer ears, which can consist of 4 or 6 layers. The size of the masks is (for adults): approx. 15.7 cm x 10.8 cm

该生产线生产可折叠口罩，耳可开封，可分为4层或6层。口罩尺寸(成人): 大约 15.7厘米x10.8厘米



此外，我们还提供用于生产符合DIN EN 14683: 2019 DE标准的I型和IIR型医用口罩的外科口罩生产设备。

IMM Standard Modular Automation System

注塑周边标准自动化系统

1.1 Side-entry

侧入式



Pick & place 取放系统

Benefits:

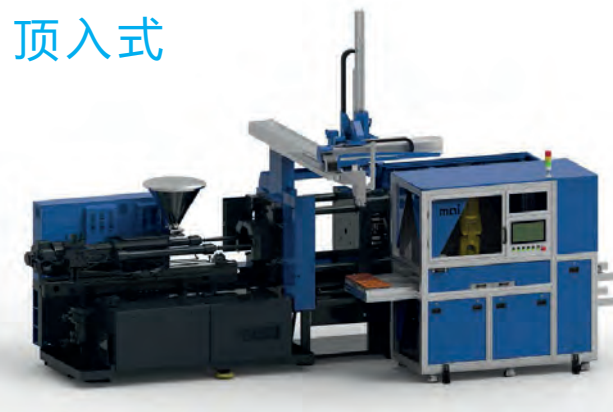
- 6 axis industry robot with more flexibility
- Production cell concept
- Compact, portable and lean look
- Modular design for further extension

优势:

- 6轴机器人，动作更加灵活
- 生产单元的整体设计理念
- 紧凑，便携可移动，美观
- 模块化设计，满足后续功能拓展

2.1 Top-entry

顶入式



Quality control 质检系统

Benefits:

- Available for existing pick & place system;
- Integrated 6 axis robot and one camera system;
- Cell concept; compact and portable;
- Modular design for further extension

优势:

- 允许利用客户现有机械手取放系统
- 内置一个6轴机器人和摄像检测系统
- 整体设计理念；紧凑，便携可移动
- 模块化设计，满足后续功能拓展

2.2 Side-entry robot

侧入式



Quality control 质检系统

Benefits:

- 6 axis industry robot + Quality inspection
- Production cell concept
- Compact, portable and lean look
- Modular design for further extension

优势:

- 6轴 机器人取放系统 + 质检方案
- 生产单元的整体设计理念
- 紧凑，便携可移动，满足多
- 模块化设计，满足后续功

2.2 Side-entry robot

侧入式



Box/Tray changing 自动换箱系统

Benefits:

- 6 axis industry robot + box changing system
- Less or no operators necessary;
- Ready design for AGV;
- Potable design: available for other machines

优势:

- 6轴机器人取放系统 + 自动换箱
- 显著减少或无需操作工
- 为AGV做好设计准备，便于后续无人化物流运输
- 可移动式设计，满足多台设备使用

ROBOT CONTROL & PACK CELL

- Optionally expandable system technology:
- Expandable and integrated injection product load & unload module
 - Expandable and integrated tray automatic stacking & packaging module
 - Data storage and traceability
 - DMC laser coding or labeling
 - Clean room class requirements
 - Insert feeding and over molding

选项可扩展的系统功能:

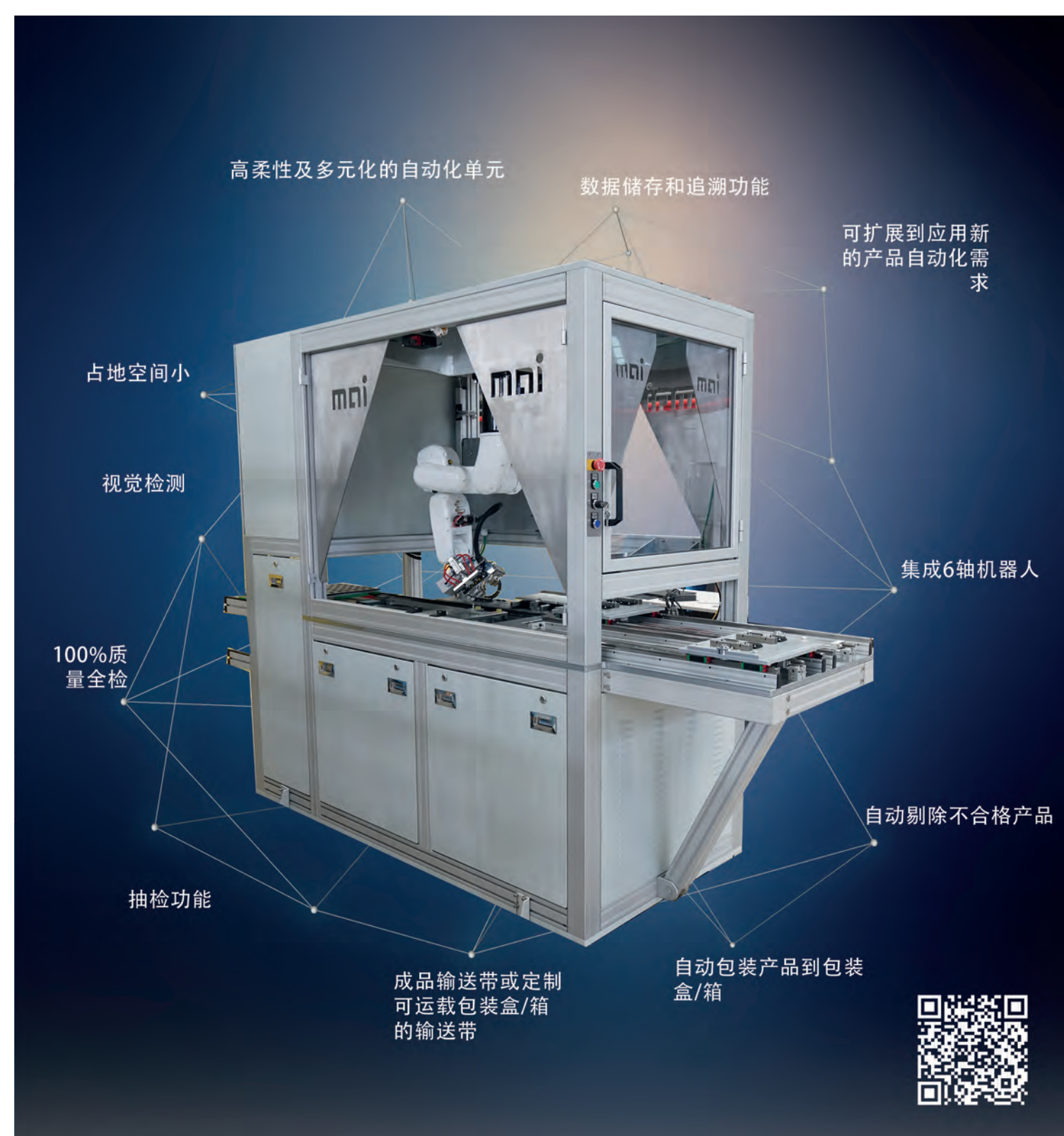
- 可扩展并集成注塑产品取出模组
- 可扩展并集成托盘自动堆叠包装模组
- 数据储存和追溯
- DMC激光打码或贴标
- 洁净室等级要求
- 嵌件供料和植入模内注塑

Basic equipment:

- Movable main station with LED lighting
- Max. Tray size 400mm x 300mm to 800mm x 600mm
- Painted steel base frame/aluminum frame with painted facing
- Pneumatic transport axis + carrier base plate
- Robotic
- Camera interface
- Conveyor with PVC belt (1500mm*600mm)
- Siemens PLC, 15.6-inch color touch display, integrated electric cabinet
- QC Chute / Sprue chute / NG chute

基本设备:

- 可移动式的主站, 含LED照明
- 最大的包装塑料托盘尺寸
400mm x 300mm 到 800mm x 600mm
- 加固式铝型材框架/焊接框架和喷塑钣金
- 气缸线性移动轴+载座底座
- 六轴机器人
- 视觉系统通讯接口
- PVC成品输送带(1500mm*600mm)
- 西门子PLC, 15.6英寸彩色触摸显示屏, 集成式电柜
- QC滑槽/水口滑槽/废品滑槽



FAST SIDE-ENTRY

M.A.i offers you a high-speed linear motorised side delivery system: FAST SIDE-ENTRY.

We guarantee highest productivity for your injection molding processes.

The flat gripper design allows for very small mold opening strokes and the integrated vacuum and gripper circuits allow for shortest switching times.

The stable and at the same time compact base console can be ideally integrated into an existing cell design.

Subsequent processes such as cleaning, ionisation and camera inspections etc. are possible during the removal process.

M . A . i 为您提供高速磁悬浮直线电机驱动侧入系统：高速侧入式机械手。

我们保证提供最高的注塑生产效率。扁平式夹爪设计可用于最小的开模行程，高度集成的真空和夹取线路可缩短切换时间。稳定且紧凑的底座台可设计集成到现有的模块化自动单元。

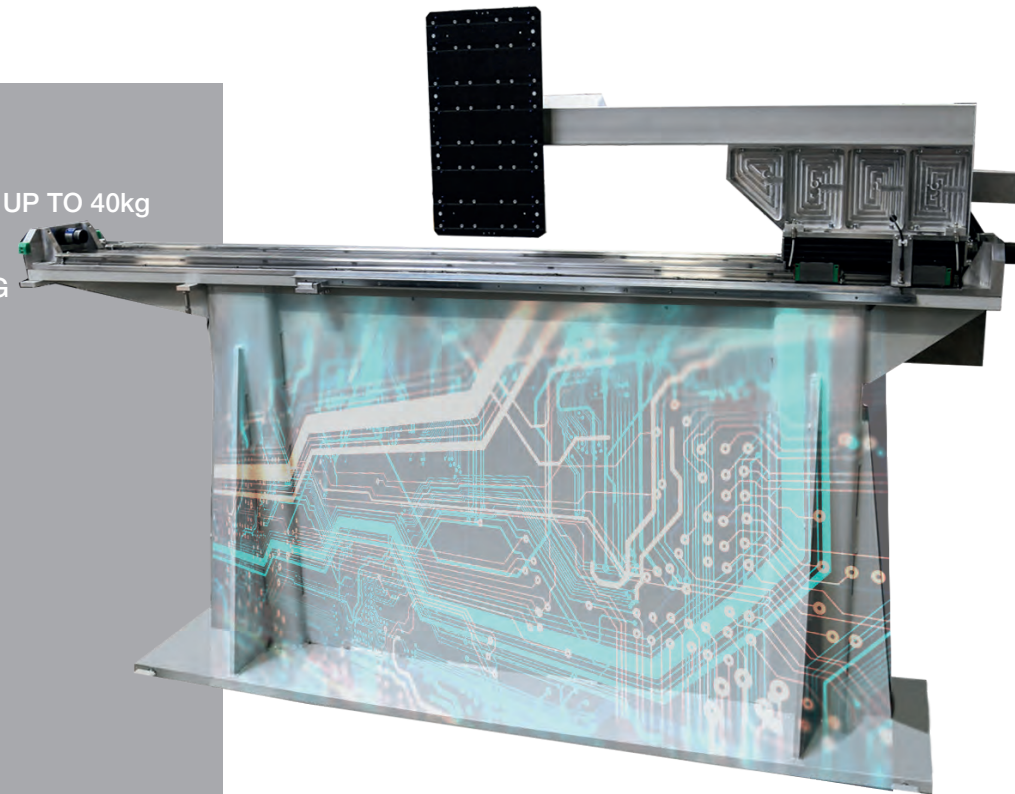
随后的相关工序，例如清洁，电离和视觉检测等可以在取出移动过程中实现。

BASIC EQUIPMENT:

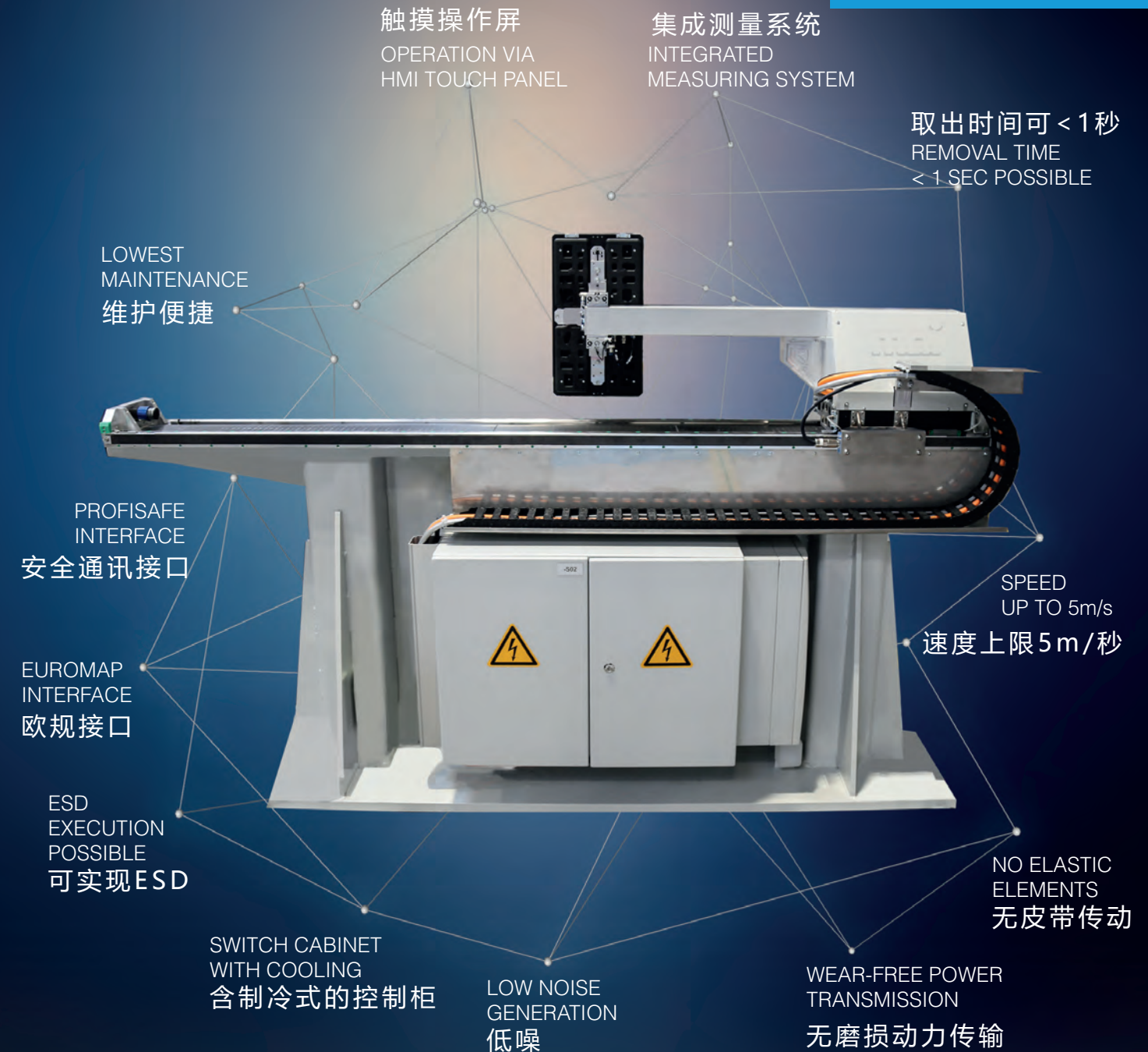
- HIGH SPEED LINEAR MOTOR AXIS
- PICK-UP GRIPPER LOADING LOAD UP TO 40kg
- FLOOR CONSOLE
- CONTROL CABINET WITH COOLING
- BASIC SPS PROGRAMME
- 1 CIRCLE OF GRIPPERS
- 4 VACUUM CIRCUITS
- PROFISAFE INTERFACE

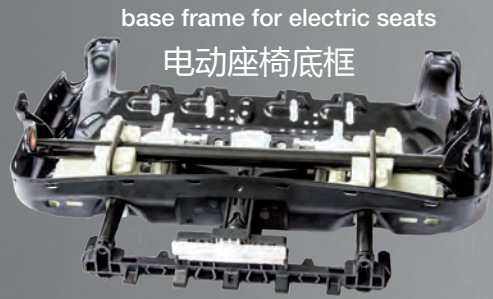
基本设备:

- 磁悬浮高速直线电机
- 取出治具负载可达40KG
- 落地式底座
- 含制冷功能的控制柜
- 基本的PLC 程序
- 1组夹
- 4组真空
- 安全通讯接口



HIGH SPEED
HIGH PRECISION





base frame for electric seats

电动座椅底框



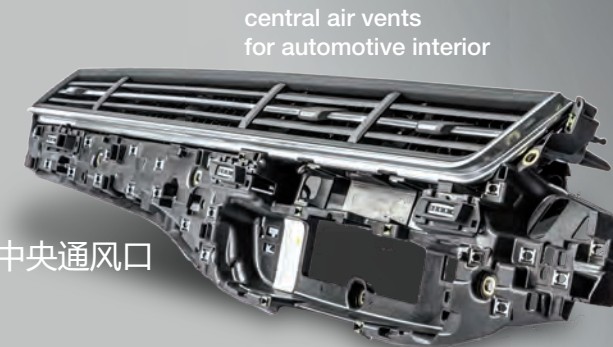
console carriers for front ends and spoiler

前端模块和扰流板的固定座



air vents for automotive interior

汽车通风口



central air vents for automotive interior

汽车内饰中央通风口



ashtray cover with IML-Decoration

IML 内饰-烟灰缸盖



front end modules

前端模块



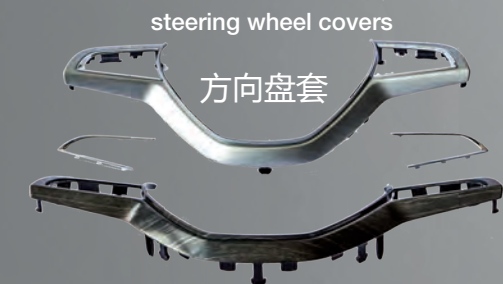
roof spoiler

顶扰流板



Brake pedals made of organic sheet

碳纤维刹车踏板



steering wheel covers

方向盘套



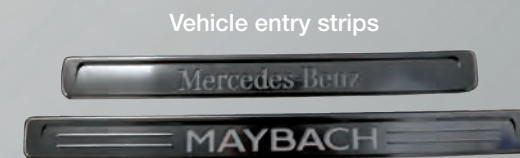
side parts of car seats

汽车座椅侧边部件



multi wiper systems

汽车新雨刮器系统



Vehicle entry strips

Mercedes-Benz

MAYBACH

迎宾踏板



rails interior

内饰部件



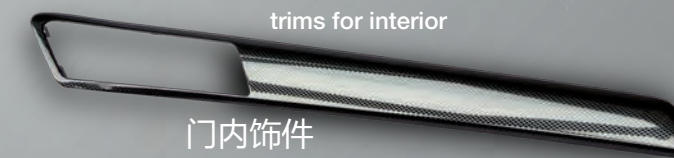
wiper modules

雨刮器模块



active tailgate drives

后背箱门驱动器



trims for interior

门内饰件



rail glider

轨道滑块



flaps

垫带空气扰流翻转板

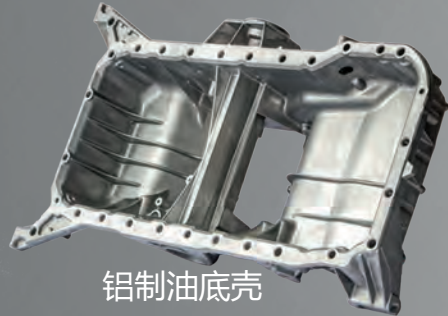


Automotive / E-Mobility

Interior / Exterior 汽车内饰部件 / 外观部件的自动化领域

凭借我们20多年来作为汽车行业供应商的经验，我们拥有专项技术开发创新，并且努力实践专业技能。我们为总成组，如发动机舱、电工技术、各种内饰部件/外观部件区域生产了几百种自动化解决方案。

aluminium oil pans



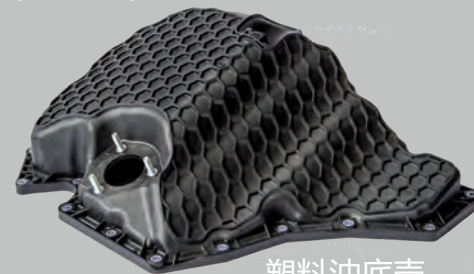
铝制油底壳

hydraulik control block



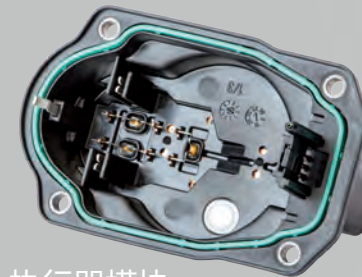
液压控制块

plastic oil pans



塑料油底壳

actuator modules



执行器模块

oil cooler housings



油冷却器外壳

Rotor / Stator for E-Mobility



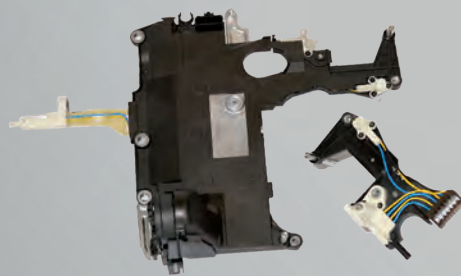
全电动车的转子/定子

engine suction modules



发动机进气模块

control unit for gearboxes



齿轮箱控制模块

speed sensor cables



速度传感器线

air mass meter



空气分配器

shift rod actuators



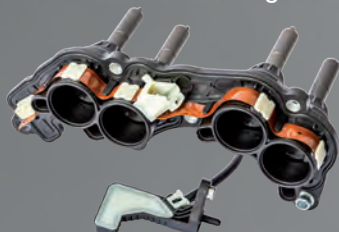
换挡杆执行机构

grommets



橡胶垫环

actuators for gear shifts



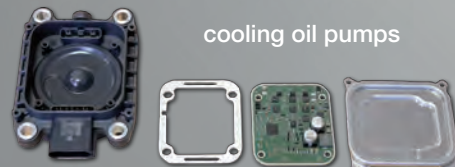
齿轮执行机构

actuator controls



执行器控制器

cooling oil pumps



油冷却泵

wiping water tanks



雨刮器水箱

clutch pipes



离合器油管

shift-forks



换挡叉

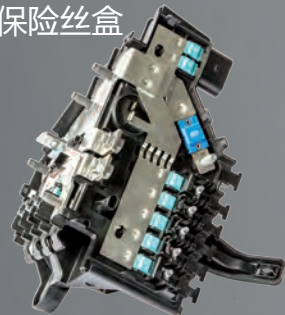


Automotive / E-Mobility Engine

汽车引擎部件的自动化领域

引擎区域的产品实例，通过注塑自动化以及 M.A.i 装配生产线和测试线实现

main fuse boxes
主保险丝盒



heating pipes
加热管



plug housings
连接器外壳



brake light switches
刹车灯插座



connectors for electronics
电子连接器



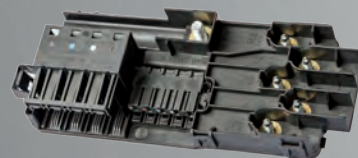
circuit board connectors
线路板连接器



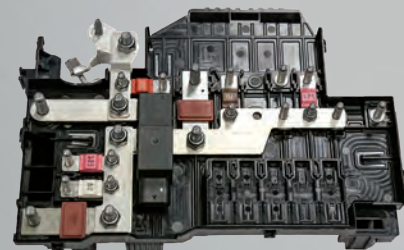
power rails
电动导轨



power modules
电源模块



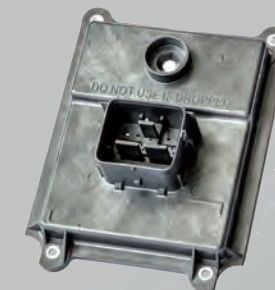
fuse boxes
配电箱



electrical module for Hybrid-Vehicles
混合动力的控制单元



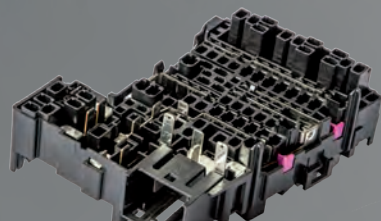
cover of control devices
控制装置盖



cogwheels for mechatronic modules
机电模块齿轮



power distributors
供电分路盒



chipsets for control units
控制单元芯片



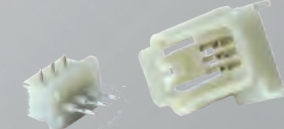
actuator modules
执行机构模块



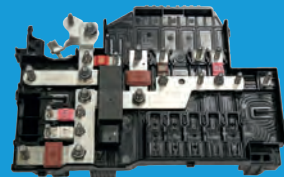
battery carriers
蓄电池托架



sensor board connector
传感器板连接器



LED headlights
LED大灯



Automotive / E-Mobility Electro / Electronic System

汽车电气部件/电子系统的自动化领域

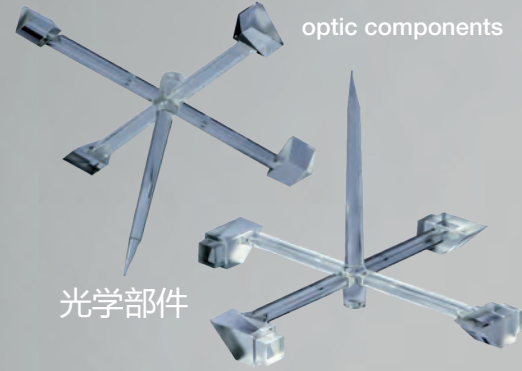
我们对装配要求和必要的测试以及电气和电子总成组控制的广泛知识，保证了生产成品的极高工艺稳定性和质量保障。

电气元件和电子系统区域的产品实例，通过注塑自动化以及M.A.i装配生产线和测试线实现



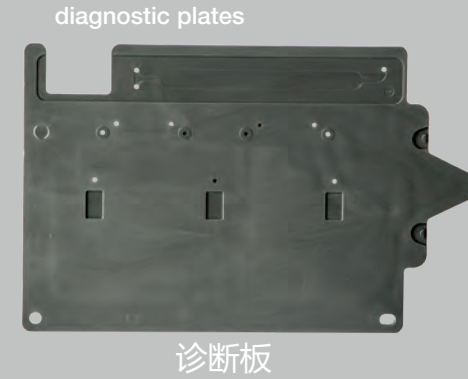
water filters

滤水器



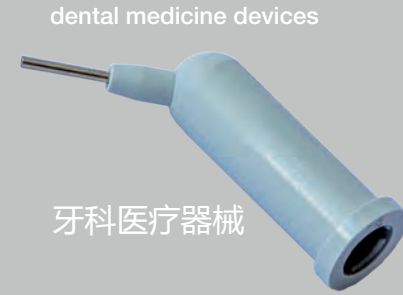
optic components

光学部件



diagnostic plates

诊断板



dental medicine devices

牙科医疗器械



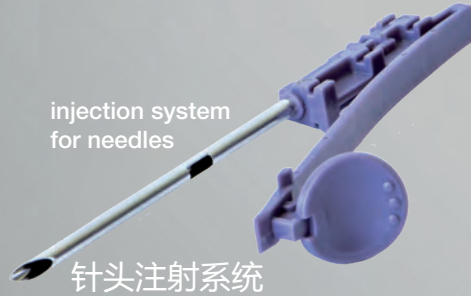
medical face masks

医用口罩



medical cups and bins

医用杯和瓶



injection system for needles

针头注射系统



medical containers

医用容器



dosing spray head

带盖的计量喷头



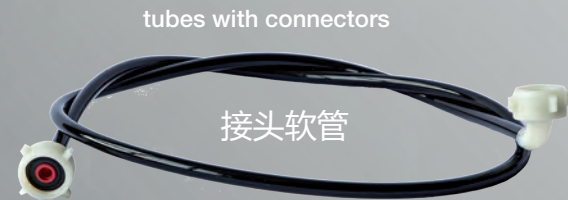
spray arms of dishwashers

洗碗机喷洗臂



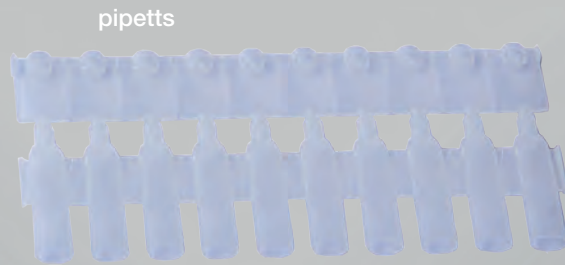
toothbrushes

牙刷



tubes with connectors

接头软管



pipetts

液体药物吸管



plastic injection needles

塑料注射针头



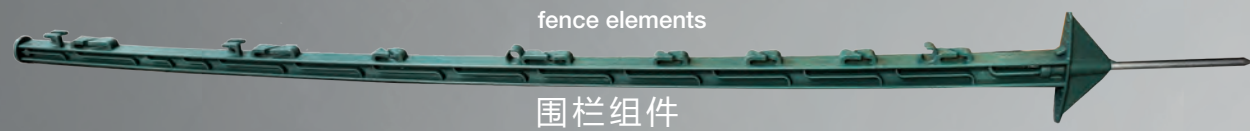
Automation

Medicine / Cosmetics / White Goods

医药/化妆品/家电的自动化领域

M.A.i 针对医疗技术/制药行业，在高质量洁净室系统解决方案有着丰富经验。

鉴于洁净室技术的最高标准，我们提供独立需求的一站式解决方案。针对洁净室和最高的清洁要求设定了执行的基准、功能和质量、审美和灵活性。



fence elements

围栏组件



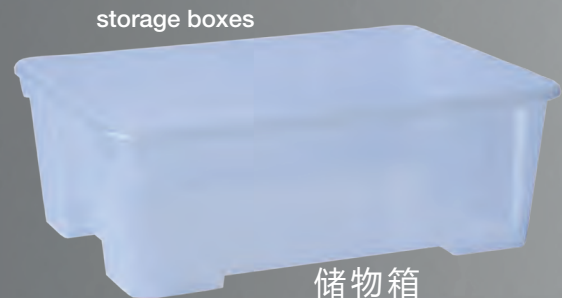
telecommunication trims

电话机饰条



plastic taps

塑料水龙头



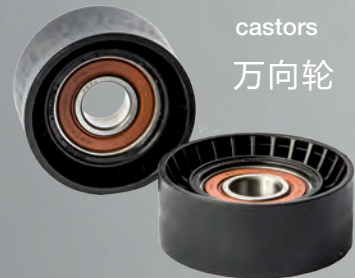
storage boxes

储物箱



带塑料盖的滚珠轴承

ball-bearing with plastic covers



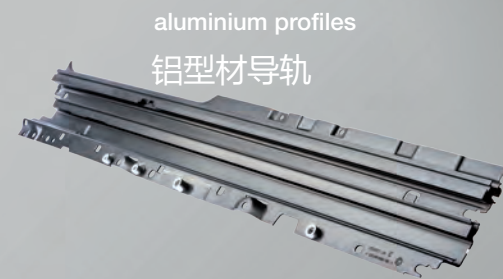
castors

万向轮



bearing / freewheel systems

轴承/飞轮



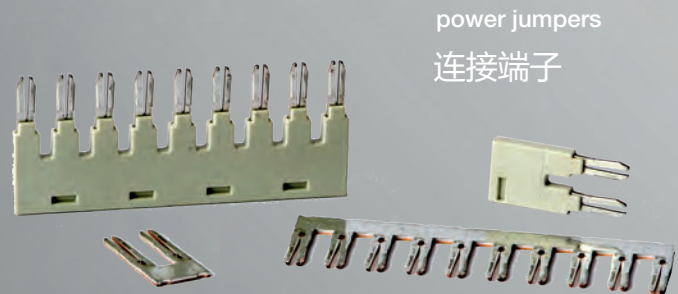
aluminium profiles

铝型材导轨



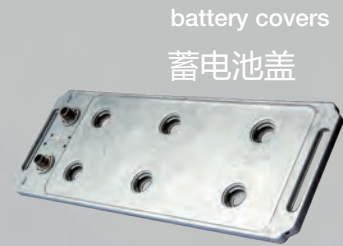
food containers

食品盒



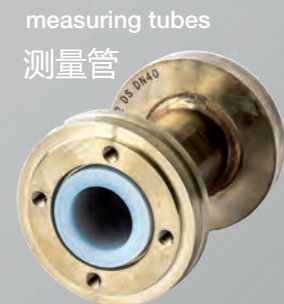
power jumpers

连接端子



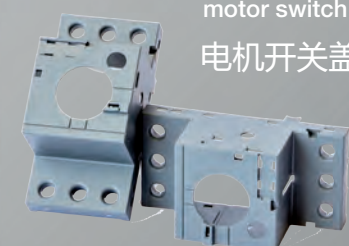
battery covers

蓄电池盖



measuring tubes

测量管



motor switch covers

电机开关盖



INDUSTRIAL APPLICATIONS

工业应用的自动化领域

在一般工业技术领域，我们为知名客户根据定制需求开发复杂的机器人应用程序和生产单元。根据应用程序，我们使用不同类型的机器人。关节臂机器人最多支持6轴且能达到更高的机动性。门式机器人适用于特殊的堆垛系统



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www.m-a-i.us

成功的真正秘密就是热情

(沃尔特·伯希·克莱斯勒)

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