



# 模具监视器

## Mold Monitor

专业智能视觉检测 **注塑/冲压/压铸** 模具系统  
Professional intelligent visual inspection **injection/stamping/die-casting** mold system

源于视觉，不止视觉；源至精密，追求卓越  
From vision, not just vision; Originating from precision and pursuing excellence



厦门博视源机器视觉技术有限公司  
XIAMEN BOSHUYUAN MACHINE VISION TECHNOLOGY CO.,LTD



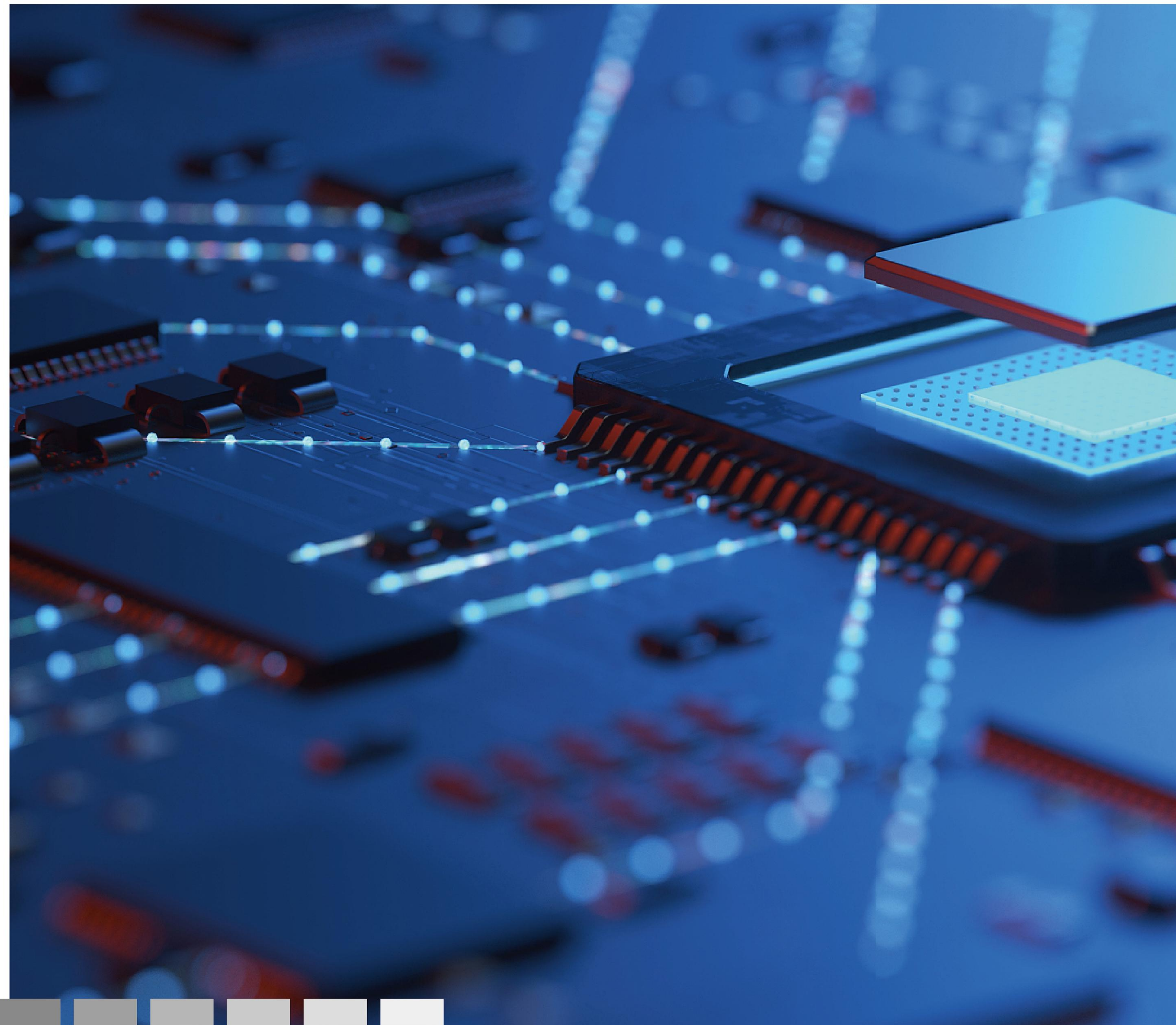
- 厦门工厂:福建省厦门市集美区杏林瑶山路13-17号
- 无锡工厂:江苏省无锡市锡山区吼山南路15号4号楼
- 企业官网:www.xmbsy.net
- 销售热线(TEL):0086-592-6077810
- No.1Chinese factories:No.13-17, Yaoshan Road, Jimei District,Xiamen City, Fujian Province
- No.2Chinese factories:Building 4, No. 15, Houshan South Road, Xishan District, Wuxi City, Jiangsu Province
- Web:www.xmbsy.net
- TEL:0086-592-6077810





# 欢迎来到博视源

Welcome To Our Company



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# 企业介绍

## About us

博视源是专业从事机器视觉系统研发、集成和服务的高新技术企业。我司自主研发并销售了多相一体智能模具监视器、多种视野的一键闪测仪、CCD算法通用平台、智能AOI全检标准机、医疗器械毛发异物检测非标机、晶圆半导体检测机等机器视觉系统，致力于为制造型企业提供更智能更精准的机器视觉解决方案。

Boshiyuan is a high-tech enterprise specializing in the R&D, integration, and service of machine vision systems. We independently develop and sell a range of machine vision products, including:Multi-phase integrated intelligent mold monitors,One-click flash measuring instruments with various FOVs (fields of view),Universal CCD algorithm platforms,Intelligent AOI (Automated Optical Inspection) standard machines,Customized medical device hair/foreign object detection systems,Wafer/semiconductor inspection equipment,Committed to innovation, we provide manufacturing enterprises with smarter and more precise machine vision solutions.



非标自动化车间  
Non-standard Automation Workshop



自动化生产线车间  
Automated Production Line Workshop



模具监视器车间  
Mold Monitor Workshop



AOI检测标准机车间  
AOI Standard Machine Workshop

# 企业版图 | ENTERPRISE TERRITORY

福建厦门总公司 | Head Office in Xiamen, Fujian



江苏无锡分公司 | Branch office in Wuxi, Jiangsu



模具监视系统全球年销量:10000台以上

国内销售与服务网络:国内34个省区

国际销售与服务网络:日本、西班牙、越南、泰国、印度等

全职代理:30家

合作经销商:50家

Annual global sales of mold monitoring systems: 10,000+

China sales and service network: 34 provinces and autonomous regions

Global sales and service network: Japan, Spain, Vietnam, Thailand, India, etc.

Full-time agents: 30

Cooperative distributors: 50

# 博视源业务覆盖地图

## Business map coverage of Boshiyuan



# 部分驻外营销中心一览

## Overview of some overseas marketing centers



广东营销中心  
Marketing Center in Guangdong, China



苏州营销中心  
Marketing Center in Suzhou, China



越南平阳营销中心  
Marketing Center in Binh Duong Province , Vietnam



# 核心团队

## Core Team

专业经得起考量 | 专业更值得信赖

Professionalism can withstand consideration | Professionalism is more trustworthy



博视源现有团队**100+**人,其中研发技术团队**30+**人。研发核心成员基本为国内外重点大学硕士及以上学历,来自华为、美亚柏科、星网锐捷、哈工大技术研究院等知名企业,在2D/3D机器视觉、AI深度学习、精密机械控制、高精密光学成像检测等有一定经验积累,拥有机器视觉领域相关经验**8年以上**,整体团队配置在同领域中处于偏上水平。

Boshiyuan currently has a team of over 100 people, including a research and development technology team of over 30 people. The core members of the R&D team are generally master's degrees or above from key universities at home and abroad, and come from well-known enterprises such as Huawei, Maya Pak Technology, Starnet Ruijie, and Harbin Institute of Technology. They have accumulated some experience in 2D/3D machine vision, AI deep learning, precision mechanical control, high-precision optical imaging and detection, and have more than 8 years of relevant experience in the field of machine vision. The overall team configuration is at an upper level in the same field.



## 校企合作 | SCHOOL ENTERPRISE COOPERATION

公司重视技术自主创新,设立基础技术研发部,与高校开展产学研合作,开放公司研发平台资源提供实训、培训,促进高校师生创新创业。目前公司通过自主研发已授权发明专利5项、实用新型专利10项、软件著作权27项。

未来公司将继续加大研发投入,与国内多所知名院校签署人才合作关系,以新鲜血液不断助力企业源源不断的创新动力,并深耕机器视觉领域的基础技术研发,打造一家以研发技术成果推动销售的研发型公司。

The company attaches great importance to independent technological innovation, establishes a basic technology research and development department, conducts industry university research cooperation with universities, opens up the company's research and development platform resources to provide practical training, and promotes innovation and entrepreneurship among university teachers and students. At present, the company has authorized 5 invention patents, 10 utility model patents, and 27 software copyrights through independent research and development.

In the future, the company will continue to increase research and development investment, sign talent cooperation relationships with multiple well-known domestic universities, continuously support the continuous innovation drive of the enterprise with fresh blood, and deeply cultivate basic technology research and development in the field of machine vision, creating a research and development oriented company that drives sales with research and development technology achievements.



## 软件著作权登记书

SOFTWARE COPYRIGHT REGISTRATION FORM

- ①博视源单相一体模具监视器系统v3.0.4
- ②博视源单相分体模具监视器系统v8.0.6
- ③博视源多相分体模具监视器系统v10.0.7
- ④博视源多相一体模具监视器系v10.5.1
- ⑤博视源贯流风叶定位检测系统v20.4.9
- ⑥博视源手机外框外观检测系统v20.3.3
- ⑦博视源字符检测系统v20.6.4
- ⑧博视源视觉检测系统v20.0.1
- ⑨博视源视印刷检测系统v20.45.7

.....

- ① Boshiyuan single-phase integrated mold monitor system V3.0.4
- ② Boshiyuan single-phase split mold monitor system V8.0.6
- ③ Boshiyuan multiphase split mold monitor system V10.0.7
- ④ Boshiyuan multiphase integrated mold monitor system V10.5.1
- ⑤ Boshiyuan cross-flow fan blade positioning detection system V20.4.9
- ⑥ Boshiyuan mobile phone frame appearance detection system V20.3.3
- ⑦ Bossource character detection system V20.6.4
- ⑧ Bossource visual detection system V20.0.1
- ⑨ Boshiyuan printing detection system V20.45.7

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## 专业证书与荣誉证书

Professional and Honorary Certificates

- 《软件产品登记证书-博视源单相一体模具监视器系统》
- 《实用新型专利证书-一种药瓶喷头的自动检测设备》
- 《发明专利证书-一种针对嵌件注塑的模具保护器及其实现方法》
- 《2022年度厦门市成长型中小微企业》
- 《厦门市科技小巨人领军企业》
- 《厦门市专精特新小微企业》

Software Product Registration Certificate - Boshiyuan Single Phase Integrated Mold Monitor System  
Utility Model Patent Certificate - An Automatic Detection Equipment for Medicine Bottle Spray Heads  
Invention Patent Certificate - A Mold Protector for Injection Molding of Embedded Parts and Its Implementation Method  
2022 Growth oriented Small and Medium sized Enterprises in Xiamen City  
Xiamen Science and Technology Little Giant Leading Enterprise  
Xiamen Specialized, Refined, Special, New, Small and Micro Enterprises





# 企业进程 | ENTERPRISE PROCESS

## 2010-2011th

- 1.成立博视源机器视觉技术有限公司

2.推出第一代模具监视器
1. Establish Boshiyuan Machine Vision Technology Co., Ltd

2. Launch the first generation mold monitor



## 2012-2013th

- 1.推出第一套领先行业水平的工业一体机

2.推出第一套图像算法-BSY-VisionLib

3.无锡办事处成立
1. Launch the first set of industry-leading industrial all-in-one machines

2. Launch the first image algorithm - BSY VisionLib

3. Wuxi office established



## 2014-2015th

- 1.推出第二代模具监视器

2.东莞办事处成立

3.推出通用视觉检测平台
1. Launch the second generation mold monitor

2. Dongguan office established

3. Launch a universal visual inspection platform



## 2016-2017th

- 1.推出基于嵌入式平台的应用系统

2.推出基于Linux系统的物联网服务系统
1. Launch application systems based on embedded platforms

2. Launch an IoT service system based on Linux system



## 2018-2019th

- 1.推出第三代模具监视器

2.昆山办事处成立

3.推出二代通用视觉算法平台
1. Launch the third generation mold monitor

2. Kunshan office established

3. Launch the second-generation universal visual algorithm platform



## 2020-2021th

- 1.推出基于AI的检测系统

2.推出多款不同视野的一件闪测仪

3.设立无锡博视智联分工厂

4.东莞办事处扩张,设立实验室&展厅
1. Launch an AI based detection system

2. Launch multiple flash testers with different perspectives

3. Establish Wuxi Boshi Zhilian Branch Factory

4. Dongguan office expansion, setting up laboratories&exhibition halls



## 2022-2023th

- 1.推出集成了运动控制和AI深度学习的AOI检测系统

2.推出模块化/标准化的AOI检测标准机
1. Launch an AOI detection system that integrates motion control and AI deep learning

2. Launch a modular/standardized AOI detection standard machine



## 2024-2025th

- 1.推出第五代智能模具监视器

2.推出集成高效的柔性振动盘系统

3.推出可配套模具监视器使用的机边检测

4.推出第六代模具监视器
1. Launch the fifth generation intelligent mold monitor

2. Launch an integrated and efficient flexible vibration disc system

3. Launch machine edge detection that can be used with mold monitors

4. Launch the sixth generation mold monitor



未来还在继续

# 企业产品线 | PRODUCT LINE

## 模具监视系统 Mold Monitoring System



第三代模具监视器  
Third-generation Mold Monitoring System

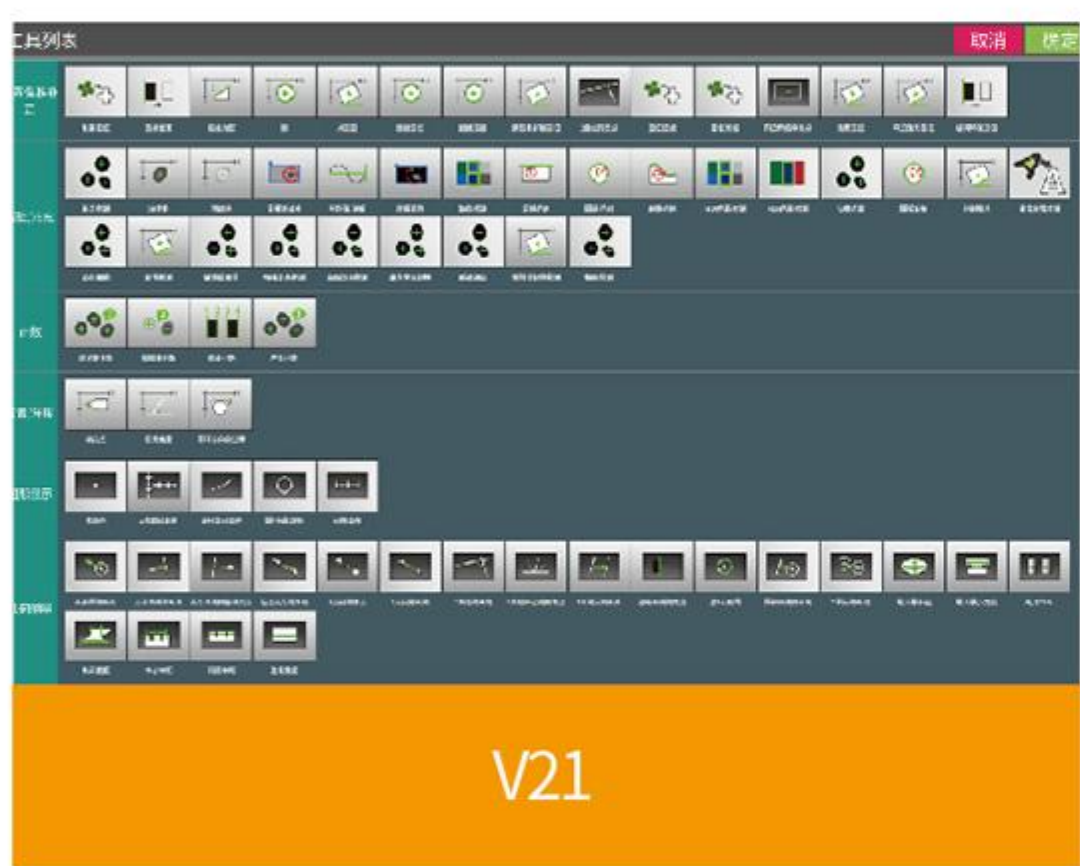


第五代模具监视器  
Fifth-generation Mold



第六代模具监视器  
Sixth-generation Mold Monitoring System

## 通用视觉算法平台 General Vision Algorithm Platform



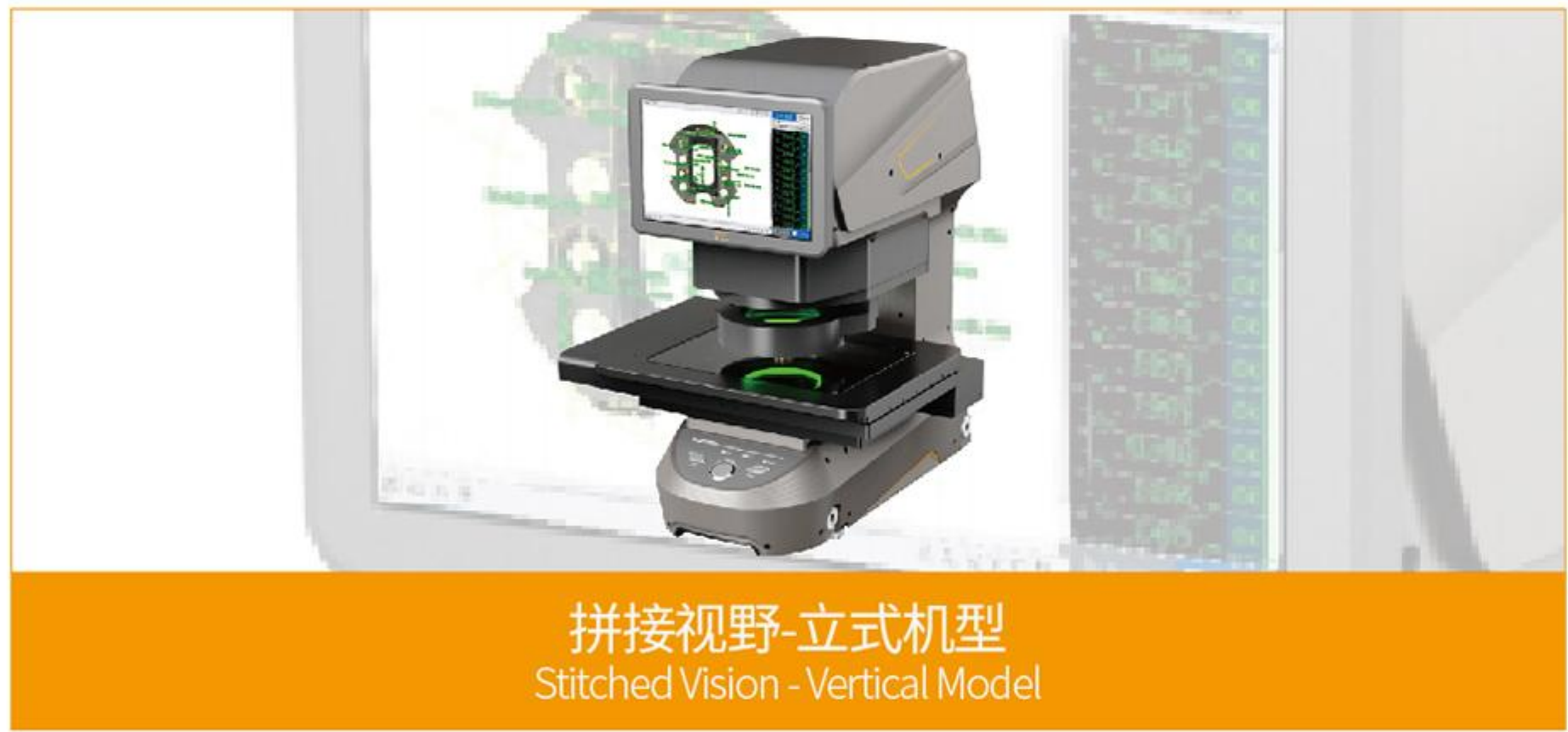
V21



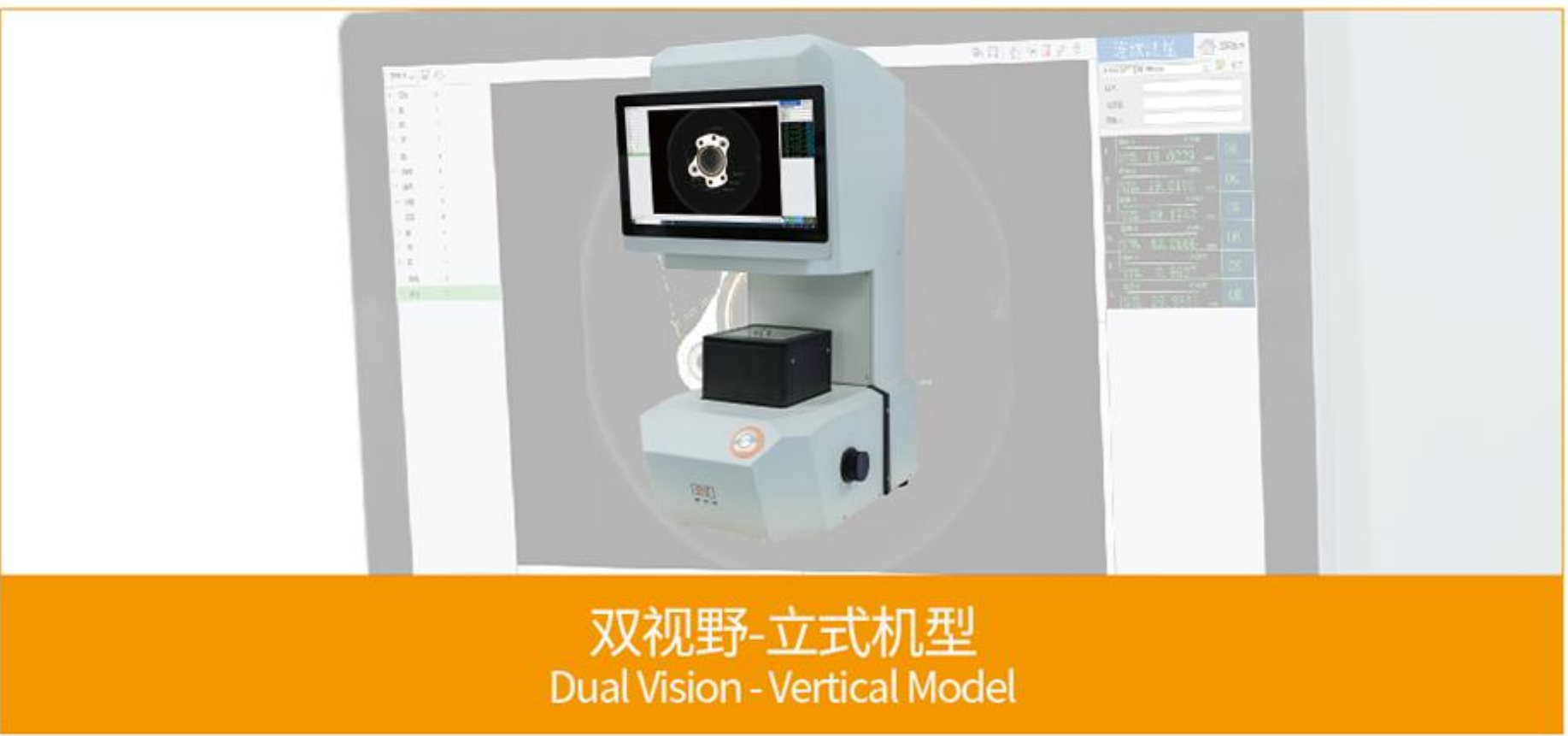
现场案例  
on-site case



## 一键闪测仪 One-Touch Flash Tester



拼接视野-立式机型  
Stitched Vision - Vertical Model



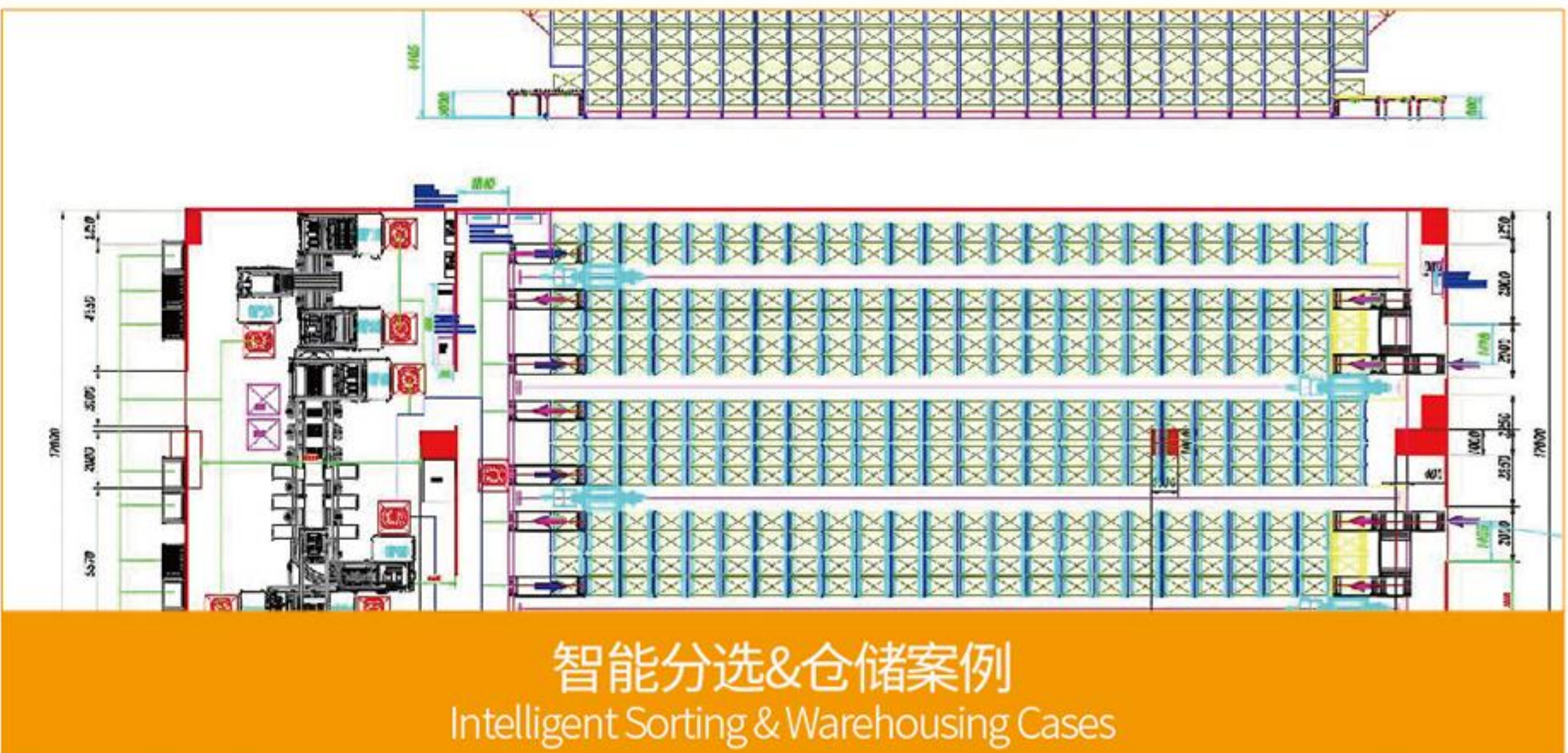
双视野-立式机型  
Dual Vision - Vertical Model

## AOI视觉检测系列设备 AOI Visual Inspection System Series

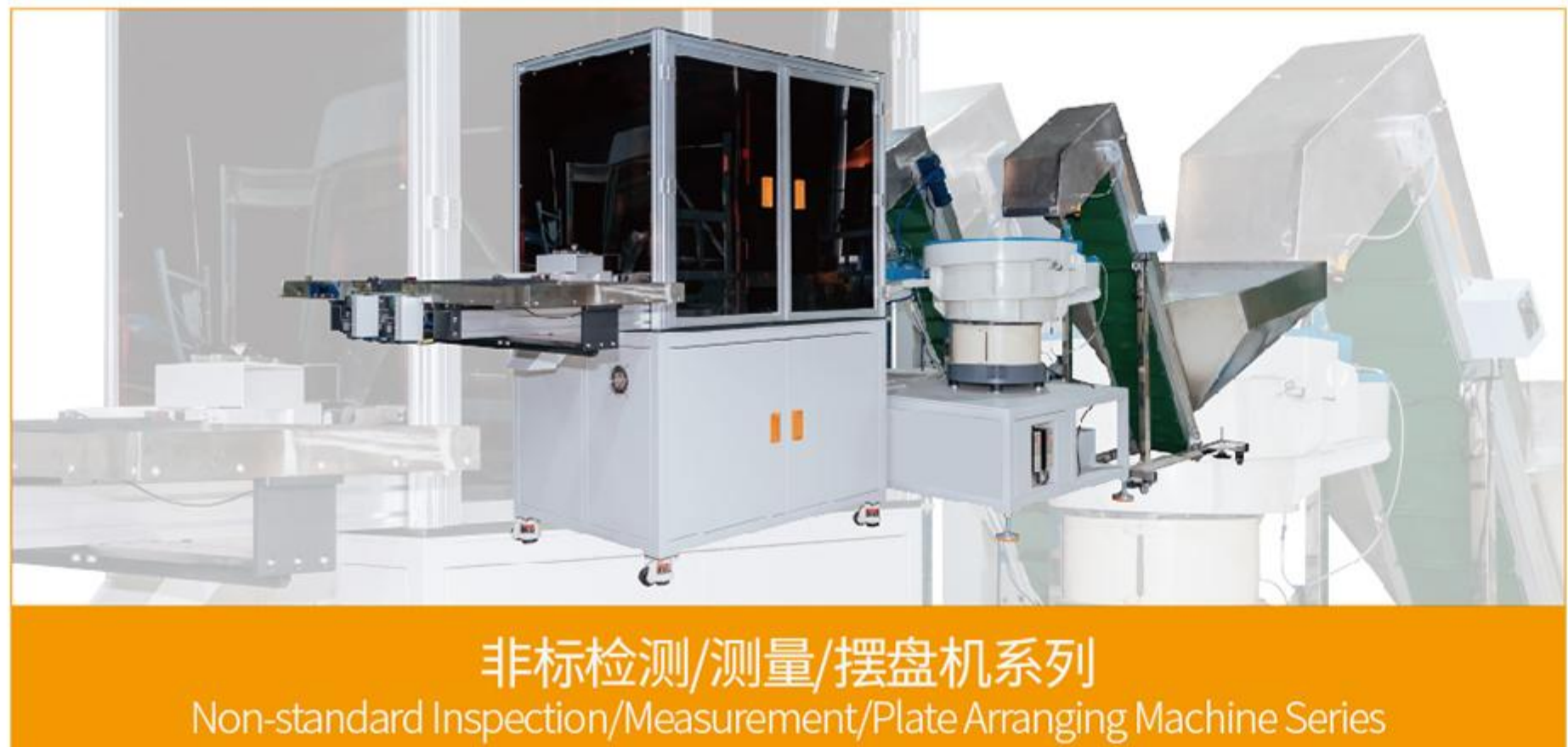


智能AOI检测标准机系列  
Intelligent AOI Inspection Standard Machine Series

## 非标自动化加工/组装生产线 Non-Standard Automated Machining/Assembly Line



智能分选&仓储案例  
Intelligent Sorting & Warehousing Cases



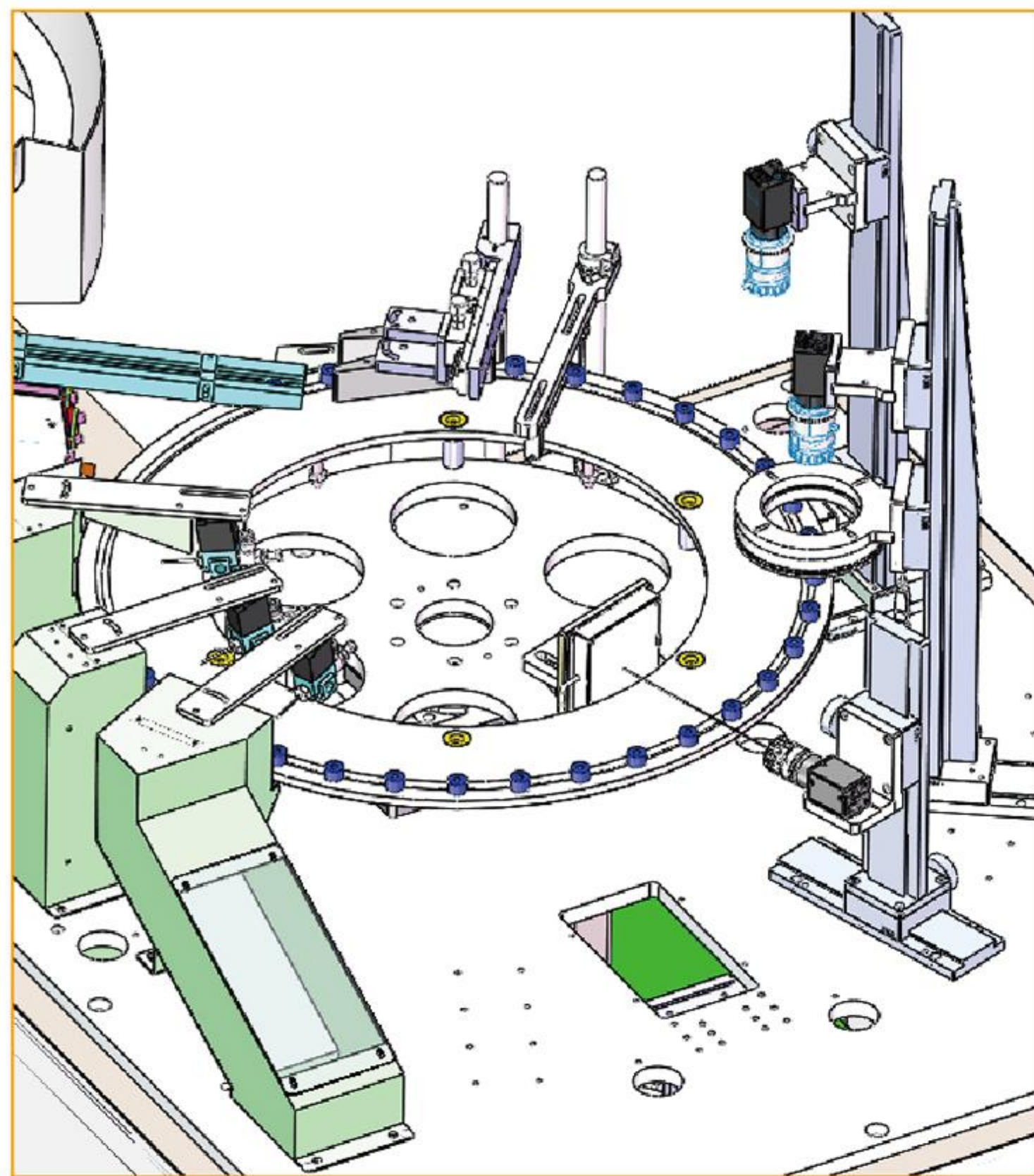
非标检测/测量/摆盘机系列  
Non-standard Inspection/Measurement/Plate Arranging Machine Series



零部件自动化加工案例  
Component Automated Machining Cases



# 设备类型与检测项目 | Equipment Types and Inspection Items

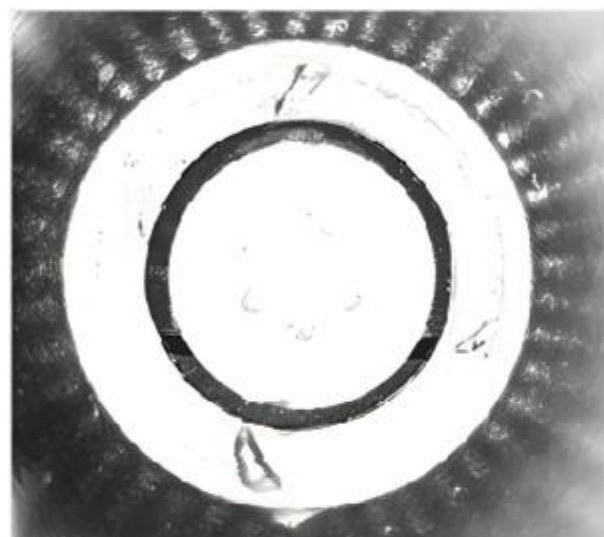


## 玻璃盘/U型槽盘型AOI全检机 Glass Disk/U-shaped Groove Disk Type AOI Full Inspection Machine

优势:五金紧固件,连接器,新能源,注塑,电子元器件等,可根据客户需求,量身定制开发(可增加6-15个相机)  
Advantages: Suitable for hardware fasteners, connectors, new energy,injection molding, electronic components, etc. It can be customized and developed according to customer needs (6-15 cameras can be added).

检测项目:划伤,缺口,崩缺,牙伤,爆头,色差,黑点,堵渣,毛刺等以及长度尺寸,外径内径,直线度,变形度测量  
Inspection Items: Scratches, notches, chips, thread damage, head damage, color difference, black spots, slag blockage, burrs, etc., as well as measurement of length, outer diameter, inner diameter, straightness, and deformation.

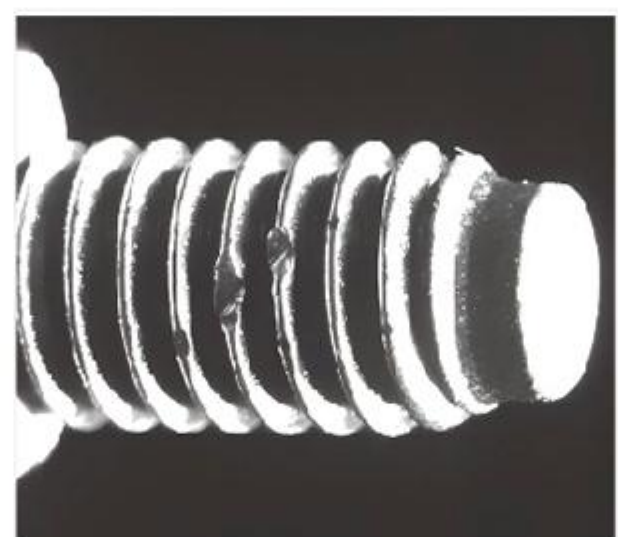
速度 (Speed):300-600pcs/min  
精度 (Accuracy):±0.01mm



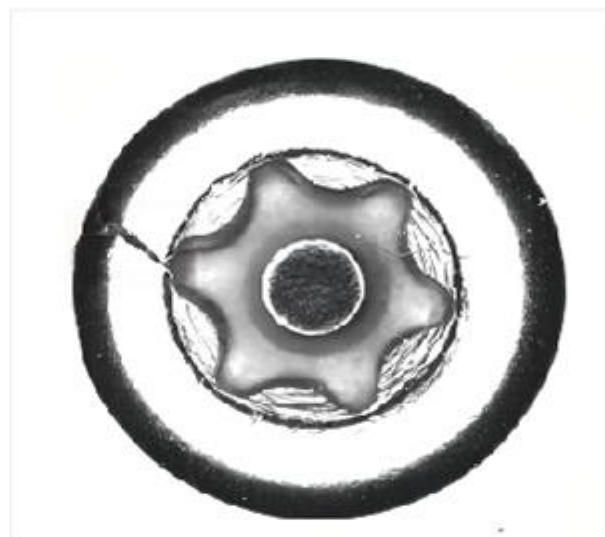
侧边裂纹  
Side cracks



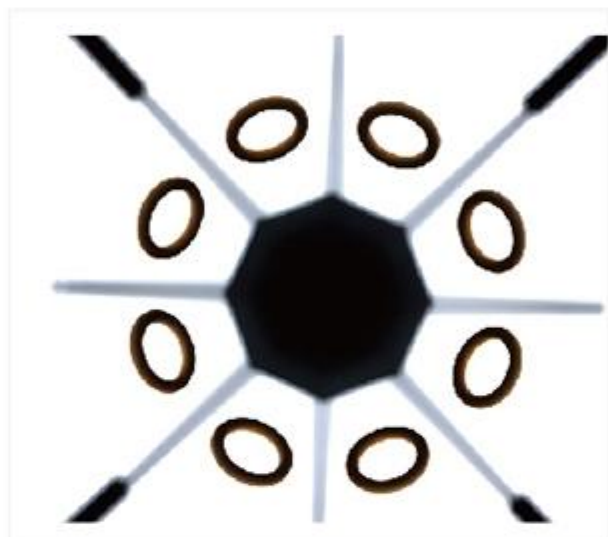
十字槽塞孔  
Cross recess plugging



牙伤  
Thread damage



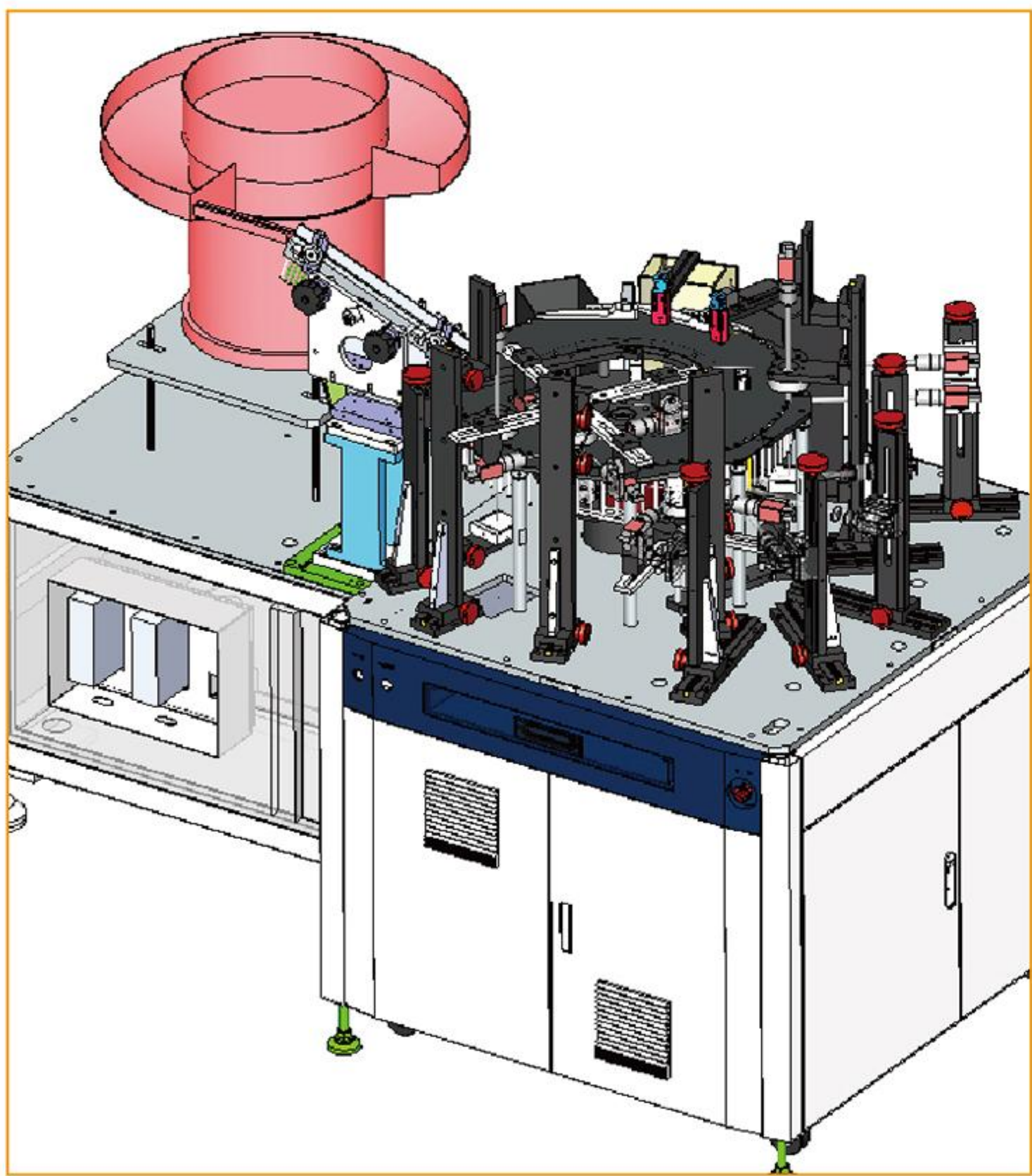
头部裂痕  
Head cracks



外360°脏污  
External 360° inspection



内360°缺牙  
Internal 360° non-threaded



## 钢挂盘型AOI全检机 Steel Hanging Disk Type AOI Full Inspection Machine

优势:五金紧固件,连接器,新能源,注塑,电子元器件等,可根据客户需求,量身定制开发(可增加6-10个相机)  
Advantages: Suitable for hardware fasteners, connectors, new energy, injection molding, electronic components, etc. It can be customized and developed according to customer needs (6-10 cameras can be added).

检测项目:划伤,缺口,崩缺,牙伤,爆头,色差,黑点,堵渣,毛刺等以及尺寸测量  
Inspection Items: Scratches, notches, chips, thread damage, head damage, color difference, black spots, slag blockage, burrs, etc., as well as size measurement.

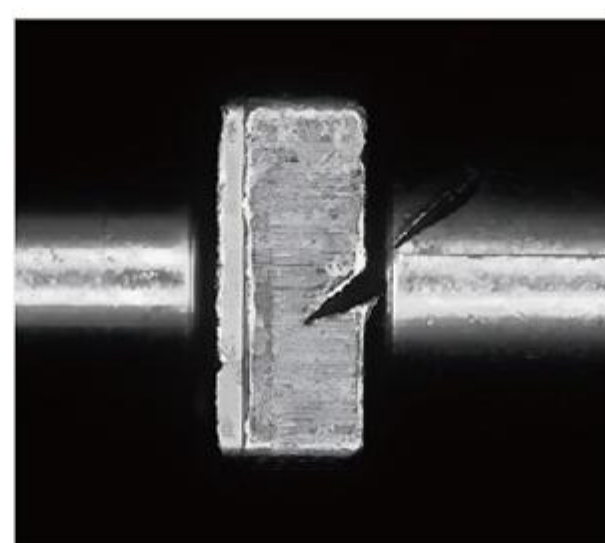
速度 (Speed):500-800pcs/min  
精度 (Accuracy):±0.05mm



头部直径  
Head diameter



内径  
Inner diameter



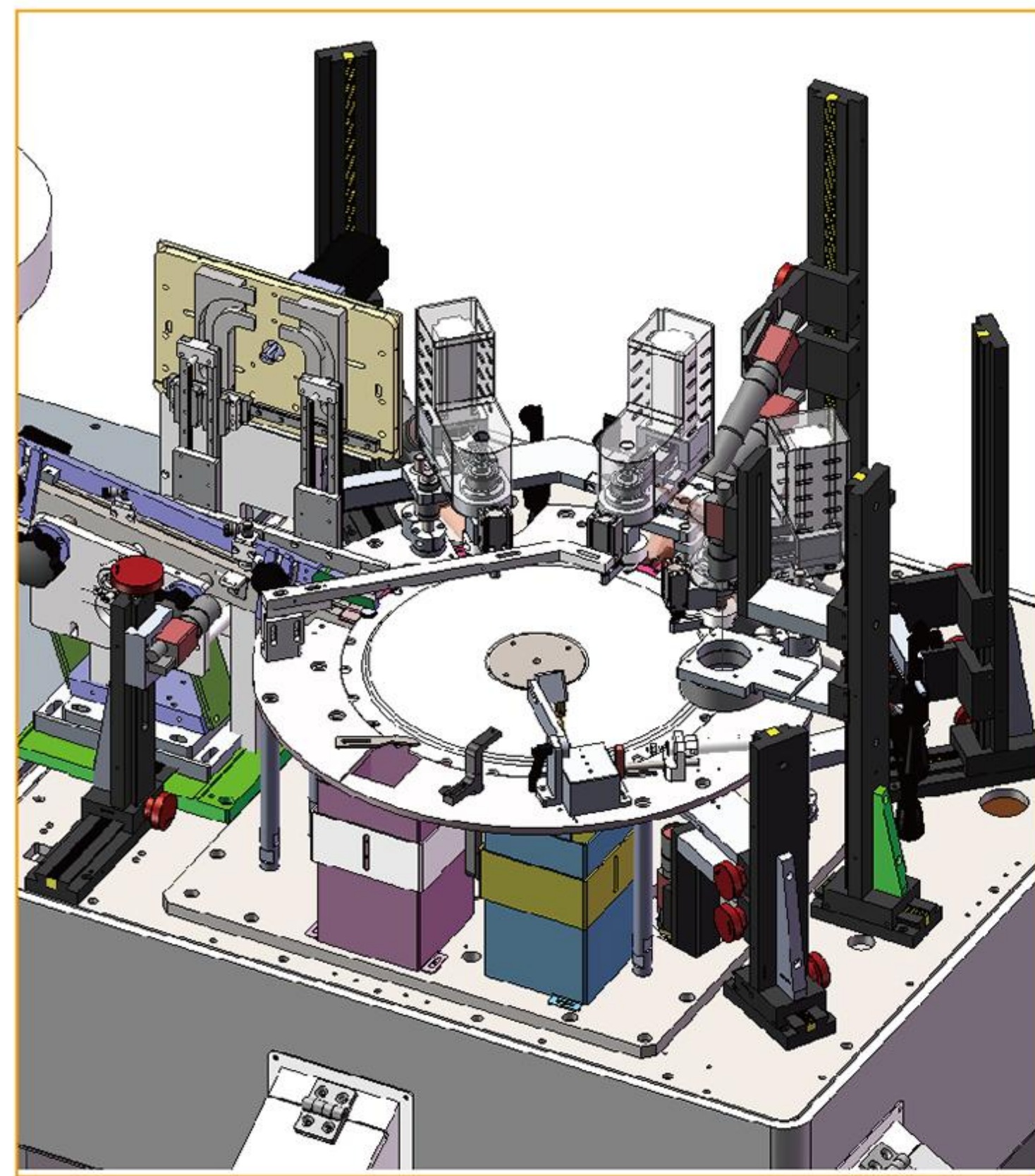
碰伤  
Bruise



裂纹  
Crack



长度尺寸  
Length dimension

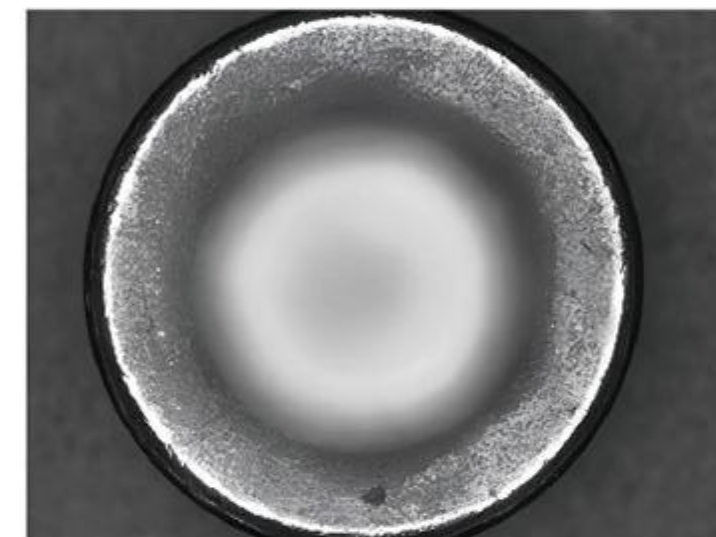


## 分度盘型AOI全检机 Indexing Disk Type AOI Full Inspection Machine

优势:五金紧固件,连接器,新能源,注塑等,可根据客户需求,量身定制开发  
Advantages: Suitable for hardware fasteners, connectors, new energy, injection molding, etc. It can be customized and developed according to customer needs.

检测项目:产品断针,槽深,多段宽度多段高度,底部形状,牙距,牙角度,牙品质等  
Inspection Items: Product needle breakage, groove depth, multi-segment width, multi-segment height, bottom shape, thread pitch, thread angle, thread quality, etc.

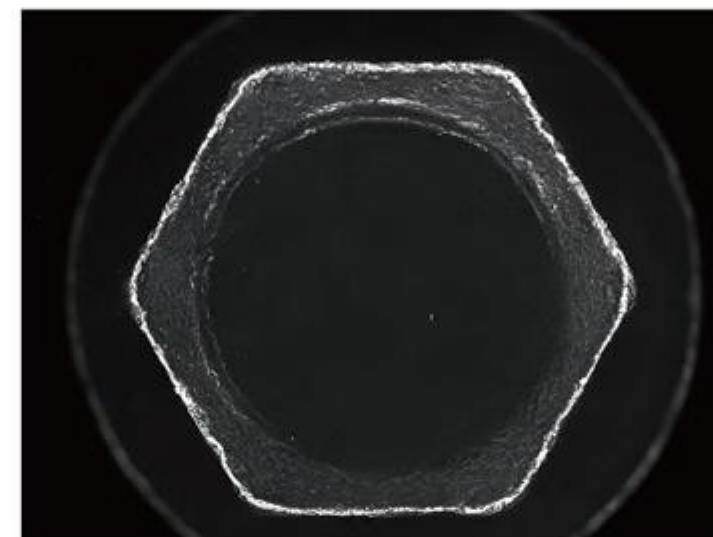
速度 (Speed):300-800pcs/min  
精度 (Accuracy):±0.03mm



头部不良  
Head defects



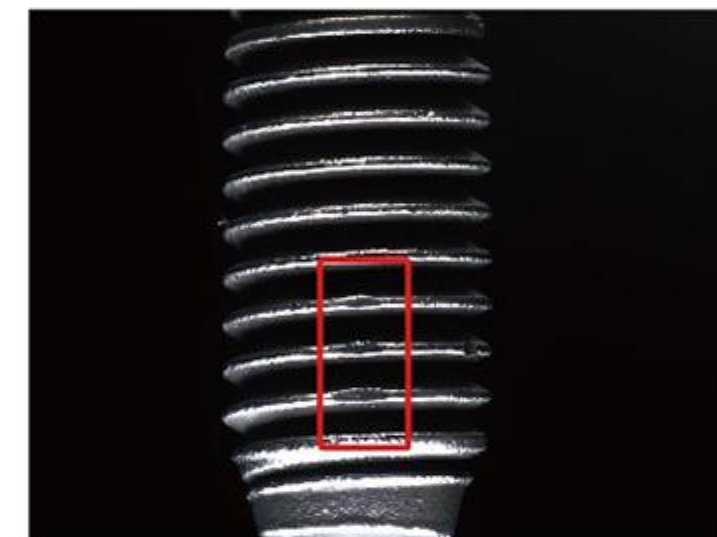
头部变形  
Head deformation



头部尺寸测量  
Head dimension measurement



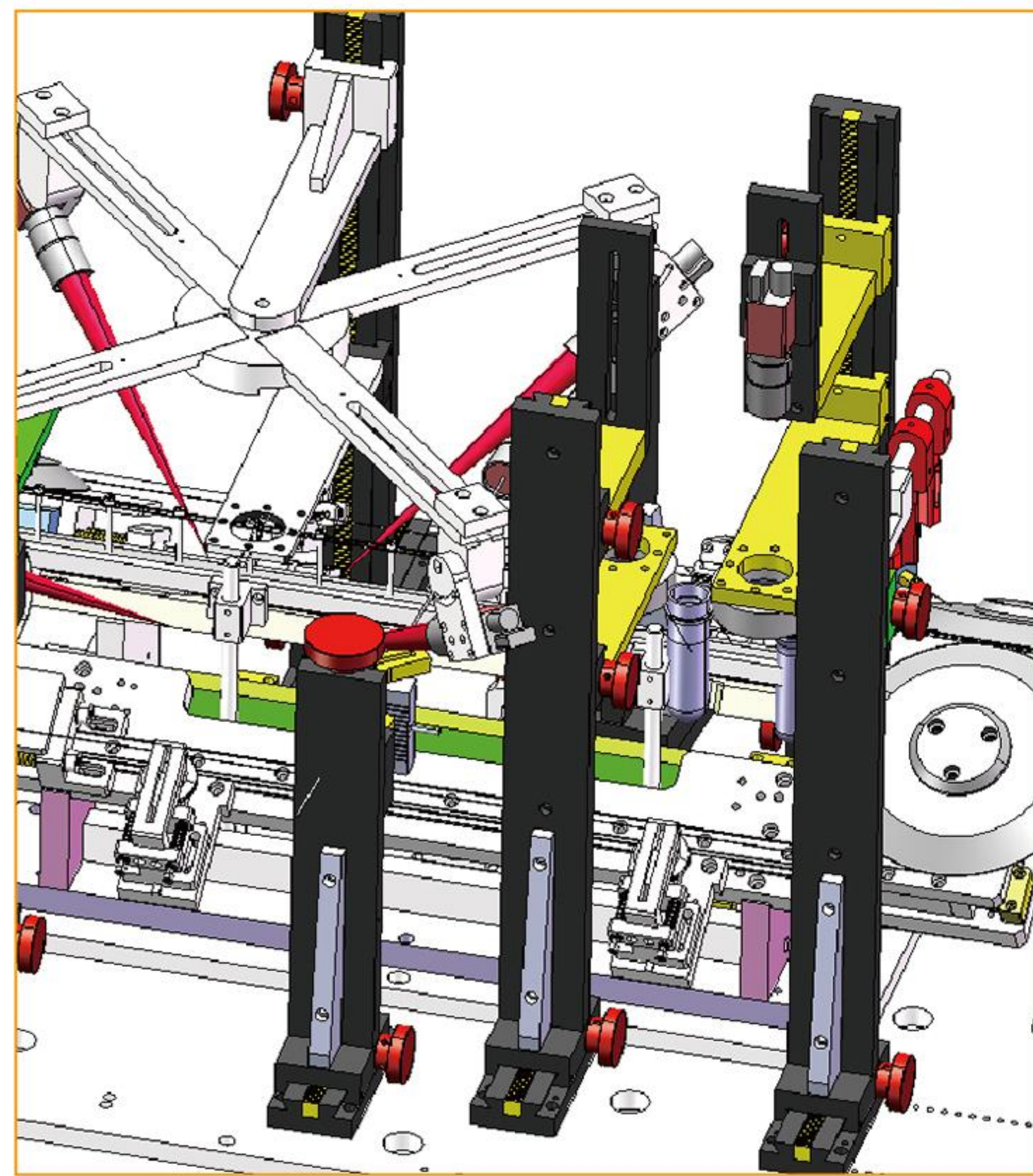
尺寸、无牙、斜牙、烂牙  
Dimension, non-threaded, skewed thread, damaged thread



牙伤  
Thread damage

## 逐步标准化生产

## Gradual Standardization of Production



## 钢丝AOI全检机 Steel Wire AOI Full Inspection Machine

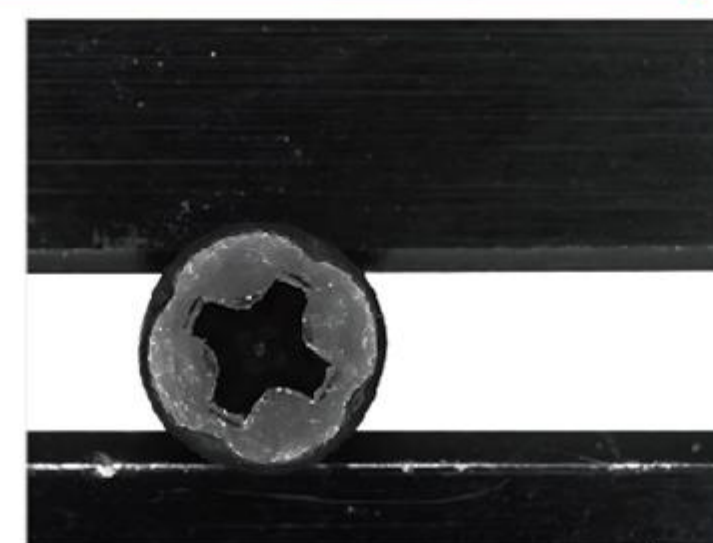
优势:五金紧固件,连接器,新能源等,可根据客户需求,量身定制开发  
Advantages: Suitable for hardware fasteners, connectors, new energy, etc. It can be customized and developed according to customer needs.

检测项目:牙伤,爆头,堵渣等以及尺寸测量  
Inspection Items: Thread damage, head damage, slag blockage, etc., as well as size measurement.

速度 (Speed):300-600pcs/min  
精度 (Accuracy):±0.03mm



十字槽缺陷  
Cross recess defect



尺寸、垫片有无装错、弯曲  
Dimension, Presence or absence of gasket, Misinstallation, Bending



变形弯曲  
Deformation & bending



牙距测量  
Thread distance



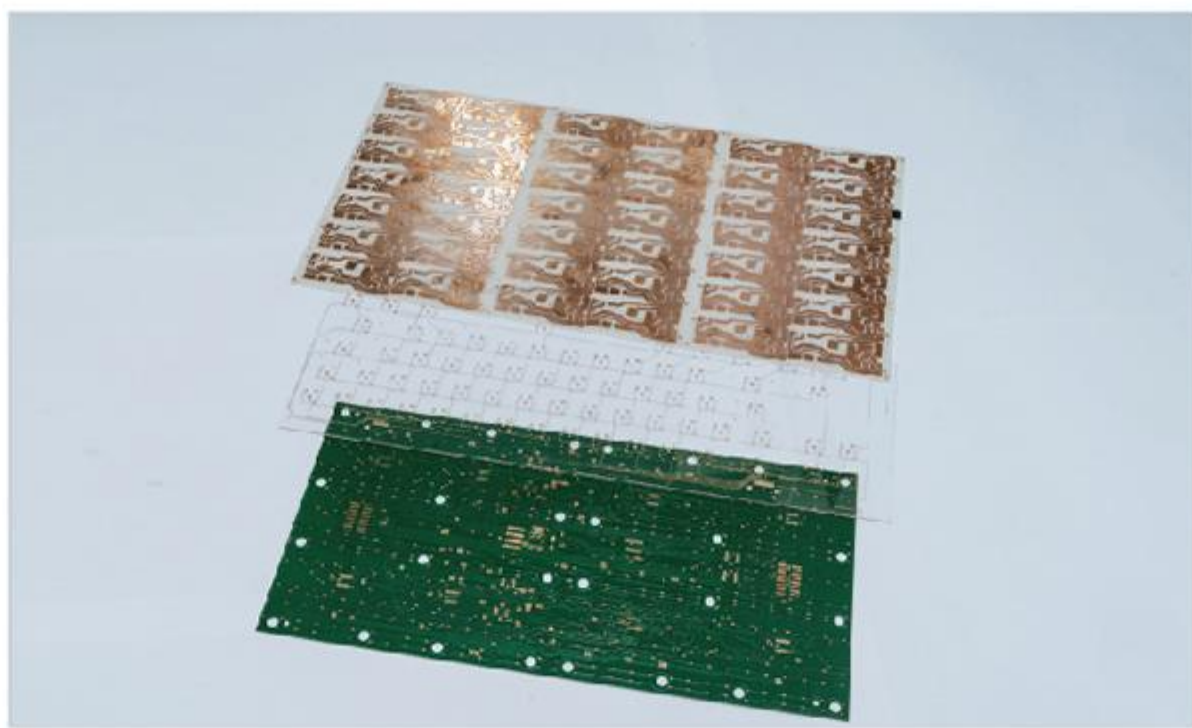
总长测量  
Total length measurement



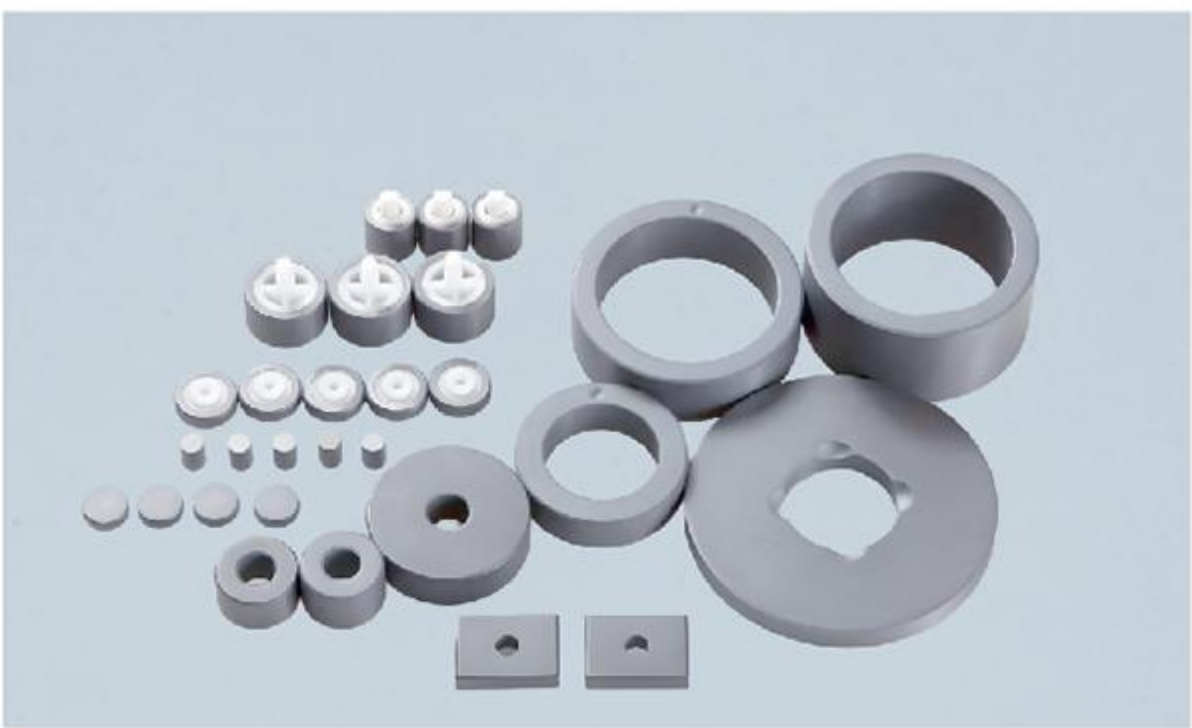
应用行业 | Application industry



3C连接器  
3C connectors



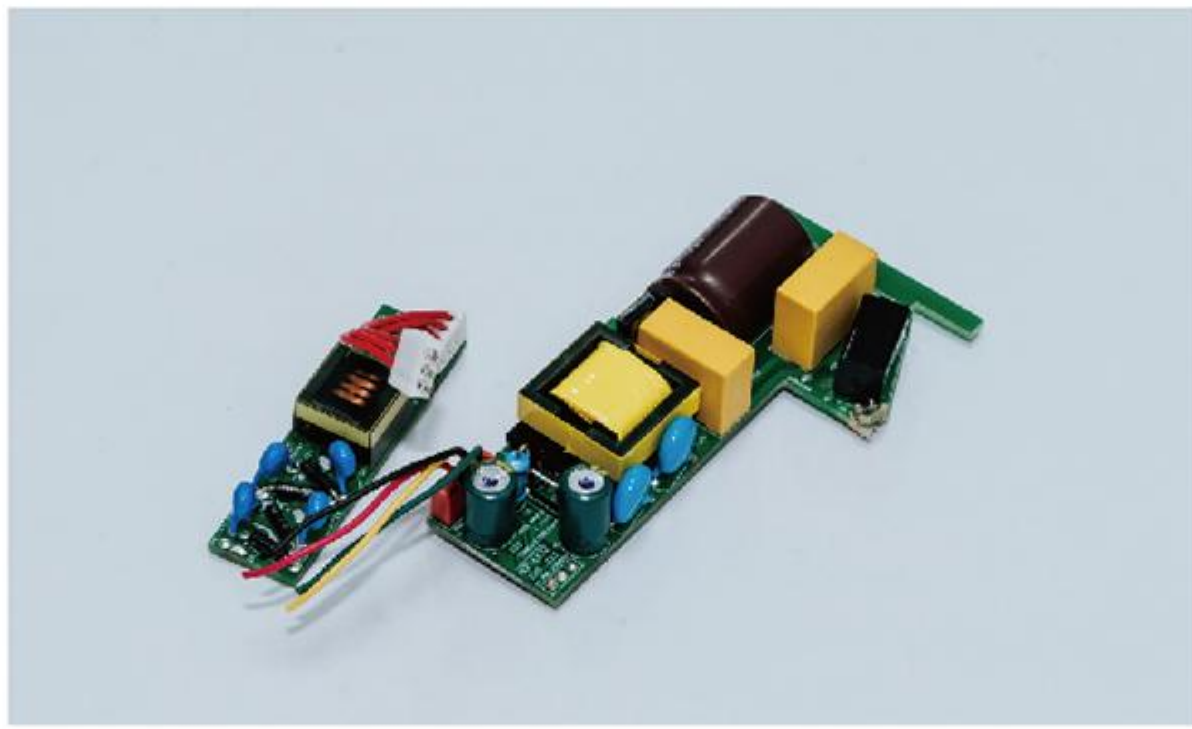
笔记本电脑电路板  
Circuit board of laptop computer



磁性材料  
Magnetic materials



笔记本塑料配件  
Plastic parts of notebook computers



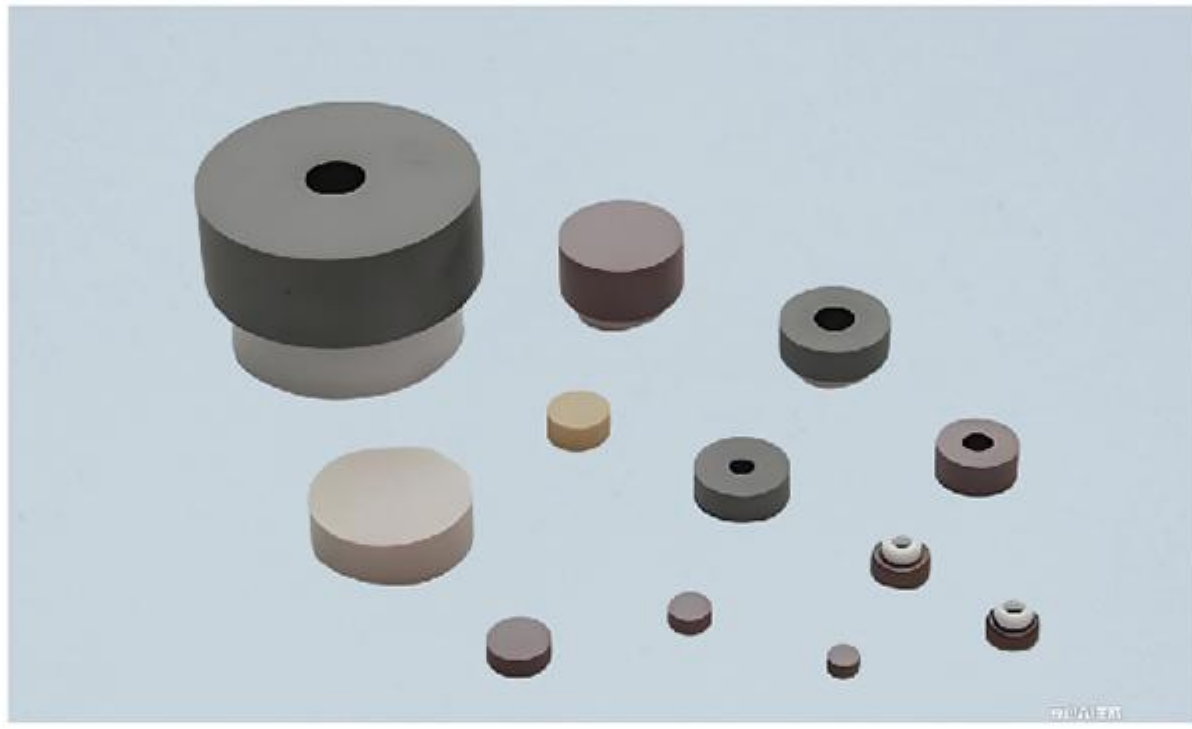
变压器  
Transformer



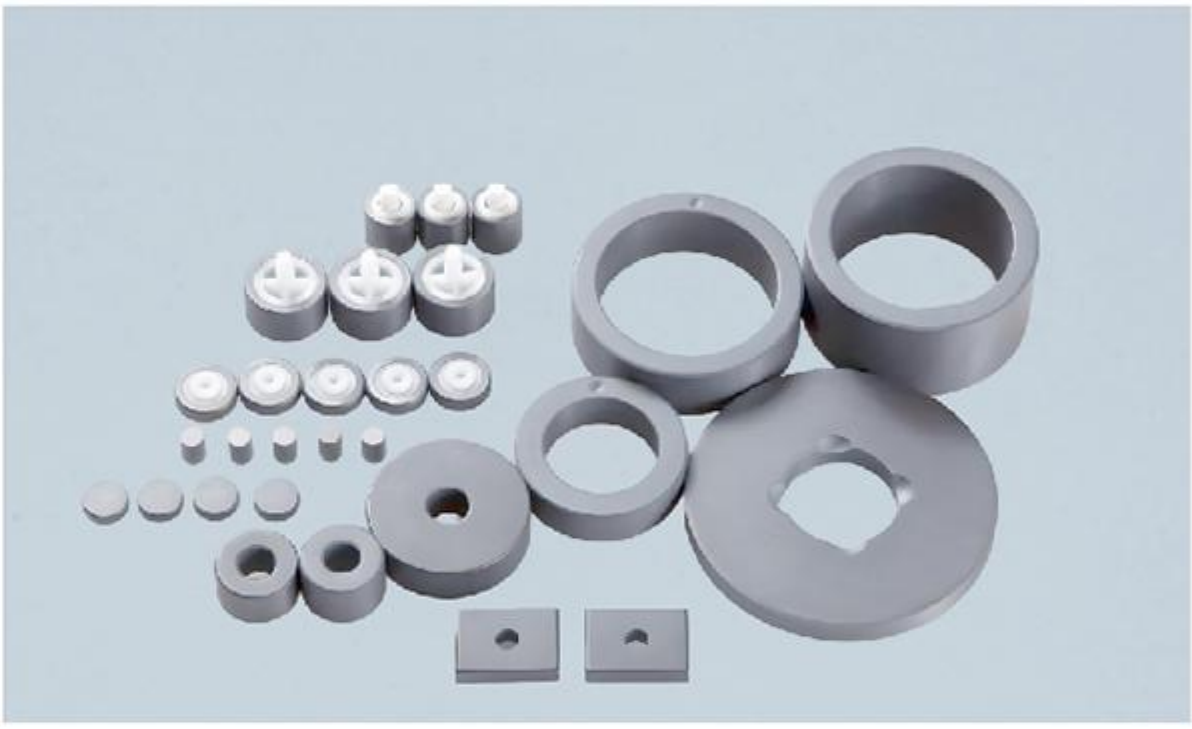
电容电感  
Capacitors and inductors



粉末冶金  
Powder metallurgy



电子陶瓷  
Electronic ceramics



磁性材料  
Magnetic materials



家电塑料配件  
Plastic parts for home appliances



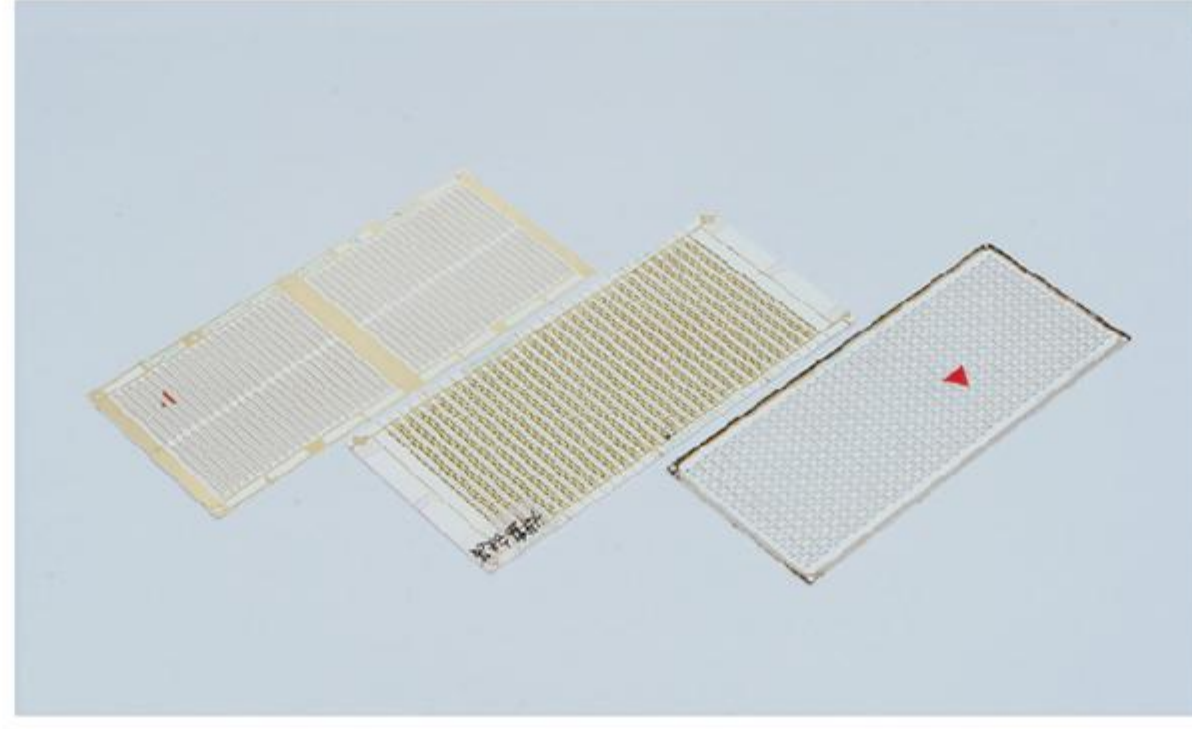
食品包装  
Food packaging



食品瓶子瓶胚  
Preforms for food bottles



手表配件  
Watch accessories



手机电路板  
Mobile phone circuit boards



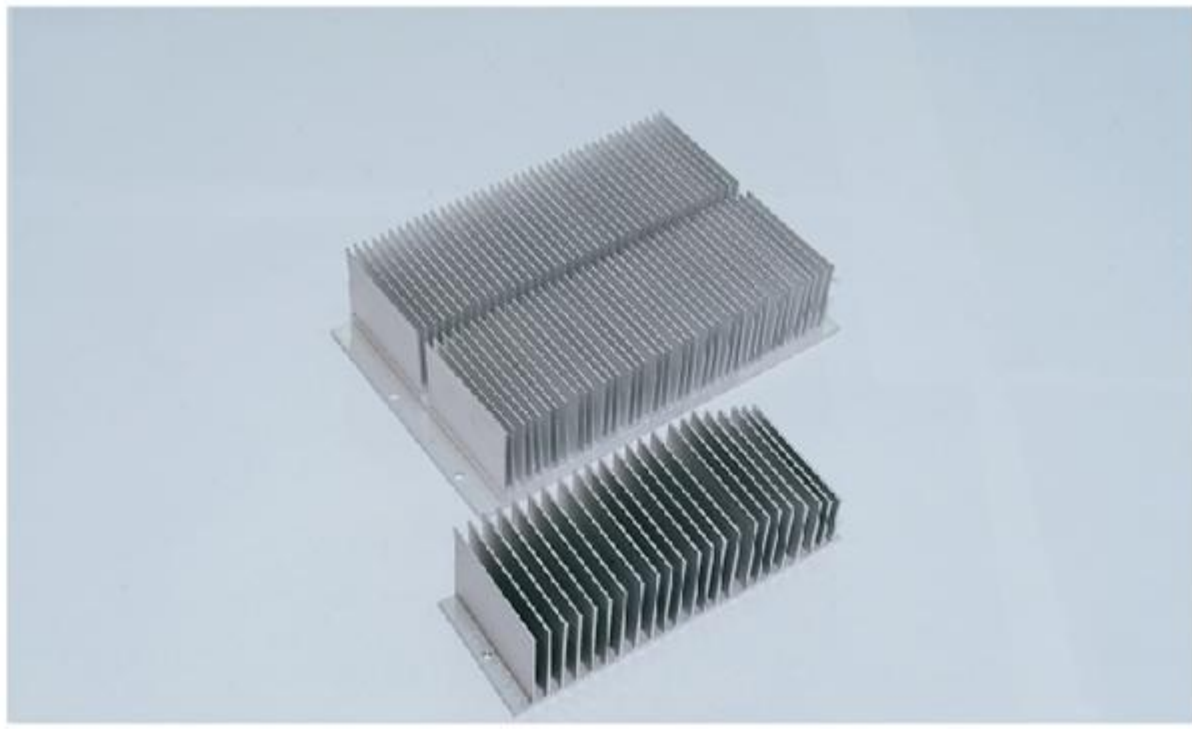
手机硅胶壳与膜  
Mobile phone silicone cases and films



手机内部金属配件  
Mobile phone internal metal parts



手机外壳注塑件  
Mobile phone shell injection molded parts



铝型材散热片  
Aluminum profile radiators



卫浴配件  
Bathroom accessories



五金塑料件  
Hardware and plastic parts



洗衣机配件  
Washing machine accessories



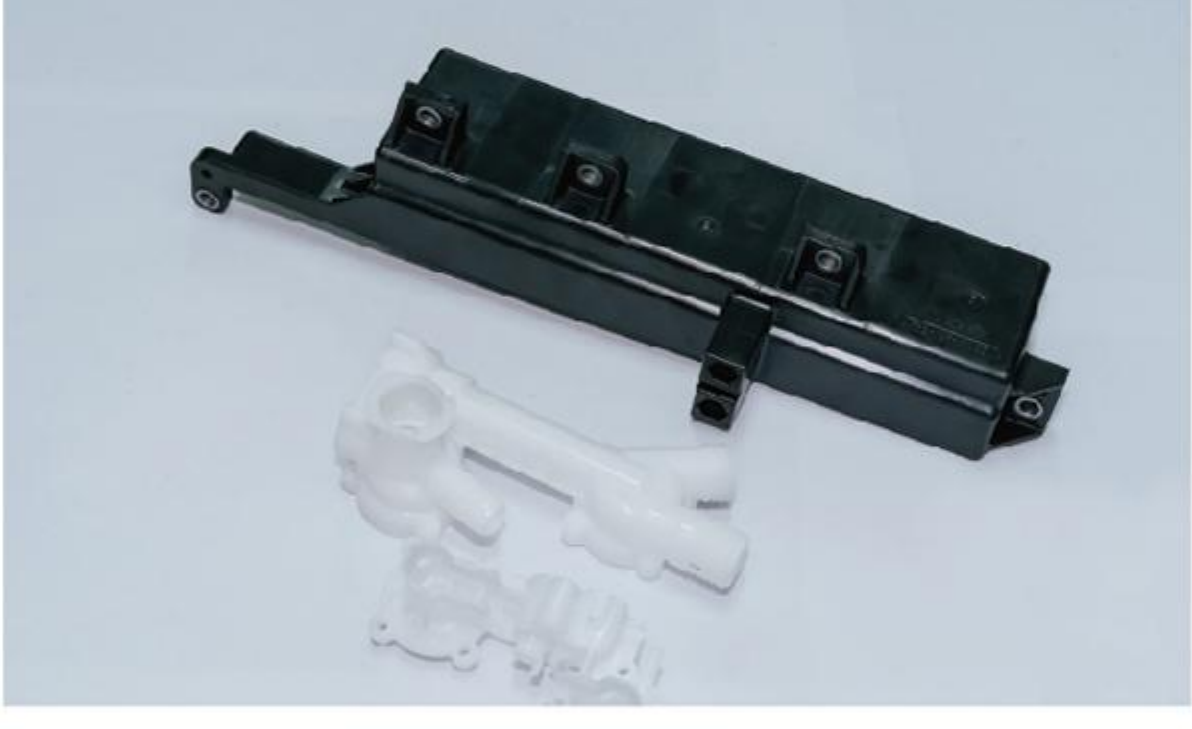
洗浴用品配件  
Bath product accessories



橡胶&液态硅胶  
Rubber&liquid silicone



医疗器具  
Medical instruments



注塑异形件  
Injection-molded special-shaped parts



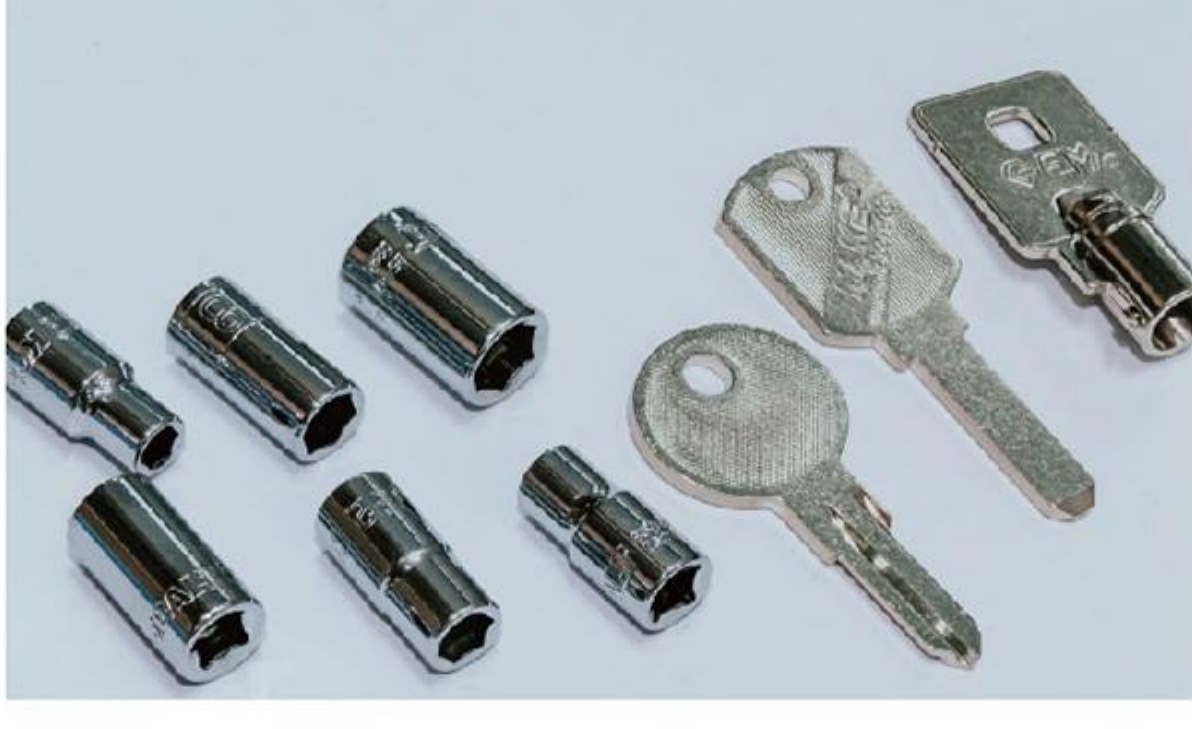
螺母  
Nuts



螺丝  
Screws



汽车内饰配件  
Automotive interior parts



五金金属件  
Hardware metal parts



汽车大型配件  
Large automotive parts



汽车金属配件  
Automotive metal parts



汽车显示屏背板  
Automotive display backplates



新能源车注塑件  
New energy vehicle injection molded parts



## 合作客户(部分) Partner(part)

**更创新/所以更信赖**  
More innovative/therefore more reliable

博视源以不断创新的技术成果，助力更行各业客户开启工业4.0时代。12年信赖，共同开启中国工业制造的全新时代。

Boshiyuan helps customers from all walks of life to open the era of Industry 4.0 with its continuously innovative technological achievements. 12 years of trust to jointly open a new era of industrial manufacturing in China.



专注行业十二年 引领工业自动化  
Focusing on the industry for 12 years, leading industrial automation

## 模具监视器系列 Mold Monitor



**第六代模具监视器**  
Sixth Generation Mold Monitor

- 1.外观全新设计,双材料+双拼色,造型更前卫,持握更舒适。
- 2.基于三代设备的操作模式上新增了人脸识别模组,专人专号,区分操作权限。
- 3.屏幕&屏占比升级,大屏更清晰。

- 1.Redesigned exterior featuring dual-material construction and two-tone color scheme for modern aesthetics and enhanced ergonomic grip.
2. Upgraded security with facial recognition module (added to Gen 3 platform) enabling operator-specific login and tiered access control.
- 3.Enhanced display with larger screen-to-body ratio for superior visual clarity.



**第五代模具监视器**  
Fifth Generation Mold Monitor

- 1.自研智能相机取代传统主机,取消带屏主机,采购成本更低。
- 2.智能相机与移动端app无线连接,操作更便捷。
- 3.程序自带数据记录与管理,可建立车间MES系统,并可于移动端随时查看。

- 1.Our self-developed smart camera replaces traditional control units, eliminating screen-equipped hosts to lower procurement costs.
- 2.The smart camera wirelessly connects to mobile apps for more convenient operation.
- 3.The system automatically records and manages data, can integrate with workshop MES systems, and allows real-time monitoring via mobile devices.



**第三代模具监视器**  
Third Generation Mold Monitor

- 1.全国领先销量,获大量客户认可。
- 2.自研模内监控软件算法,经数十次迭代更新,相较于市面上同款产品,拥有更稳定的运行状态和更优的模内监控精准度。
- 3.匹配大数据管理模式,可建立车间MES系统

- 1.Nationwide top sales performance with widespread customer recognition.
- 2.Our independently developed in-mold monitoring algorithm, refined through dozens of iterations, delivers more stable operation and higher precision than competing products on the market.
- 3.Compatible with big data management systems, enabling workshop MES system integration.



模具监视器，是利用机器视觉对比功能和检测功能对影像数据进行实时计算，实现对设备运行情况进行实时监视的功能。作为改造成本更低的非接触式解决方案，该产品在防止压模或是防止用户终端设备出现其它损伤上，是较为完美的解决方案，其具有易学、易用，兼容性广，不受行业及地域限制的特点。

The mold monitoring system employs machine vision technology to perform real-time image comparison and detection, enabling continuous monitoring of equipment operations. As a cost-efficient, non-contact solution, it effectively prevents mold damage and protects end-user equipment from potential failures. The system features simple operation and universal applicability across various industries and regions.

博视源模具监视器系列产品

模内监控功能详解

- 1.检测产品是否缺料、射料不足；
- 2.检测成型是否粘附在定模；
- 3.减少不必要的顶针次数；
- 4.检测模具的温度是否在正常值范围内；
- 5.检测合模前模具顶针、滑块、中子是否退回到位；
- 6.检测镜件放置是否歪、偏和缺少，以及是否变形；
- 7.检测合模前成型品是否正常脱落，机是否退回到位；
- 8.检测模具温度是否在设定的标准值。

Bosiyuan Mold Monitoring System

Core Functions

- 1.Detects whether the product has material shortage or insufficient injection;
- 2.Checks if the molded part adheres to the fixed mold;
- 3.Reduces unnecessary ejector pin cycles;
- 4.Monitors whether the mold temperature is within the normal range;
- 5.Verifies if ejector pins, sliders, and cores have fully retracted before mold closing;
- 6.Inspects lenses for misplacement, deviation, absence, or deformation;
- 7.Confirms proper part ejection and machine reset before mold closing;
- 8.Detects whether the mold temperature matches the set standard value.

8大特色  
Eight Core Advantages

三代+五代+六代, 全面贴合用户需求

Ntegrating 3rd, 5th & 6th generation technologies for comprehensive demand fulfillment



新增人脸识别模块，操作权限可自定义，操作记录追溯管理更容易。(六代机)

Added facial recognition module with customizable account permissions and separate operation logs.(6th Gen)



平板/手机代替定制主机，实现无线操作(五代机)

Replace dedicated host with tablet/mobile for wireless control.(5th Gen)



多台终端由一台移动端或一个PC端监控、操作与管理。(全机型支持)

Centralized monitoring and control of multiple molds' production data via a single mobile or PC device(All device types supported).



后台实时记录和上传车间的生产数据，组建MES系统。(全机型)

Real-time workshop data logging and uploading to establish a dedicated MES(All device types supported).



AI算法高速处理图像纠错，大幅降低误报率(全机型支持)

AI model rapidly processes image error correction, significantly reducing false alarms(All device types supported).



引入基于轮廓模式的匹配算法，可纠正10mm的影像误差(全机型)

The contour-based matching algorithm corrects image deviations up to 10mm(All device types supported)



可根据生产需求监控模具温度，超出自定义温度范围将报警(三代机&六代机)

Monitors mold temperature on-demand and triggers alarms upon exceeding preset thresholds (Gen 3 & 6 compatible).



自研完整图像算法BSYVisionLib，国际领先检测精度，周期响应时间0.05s(全机型)

BSYVisionLib, our proprietary image algorithm, delivers world-leading detection accuracy with 0.05s cycle response(All device types supported).

第六代模具监视器

Fifth Generation Mold Monitor



BSY-2000



模具监视器是注塑、冲压、压铸生产的关键部件。模具开合生产时，模内监控需持续、准确运行，因此操作权限管理极为重要。不同岗位人员应匹配不同权限，防止模具监视器报警时非专业人员的误操作。传统字符密码的管理容易泄露，管理困难。为此，我们在设备中新增人脸识别模块，助力客户解决以下难题：

The mold monitoring system is a critical component for injection molding, stamping, and die-casting production. During mold opening/closing operations, in-mold monitoring must operate continuously and accurately, making access control management particularly important. Different personnel positions should be assigned corresponding access levels to prevent unqualified operators from mishandling alarm situations. Traditional character password systems are prone to leaks and difficult to manage. To address this, we've integrated a facial recognition module to help customers resolve these challenges:



人脸解锁 专人专用  
Facial recognition unlocking  
One account per person



设备操作步骤实时记录  
Real-time recording of equipment  
operation steps



自定义账户操作权限  
Customizable operation permissions  
for user accounts

参数配置

Parameter Configuration

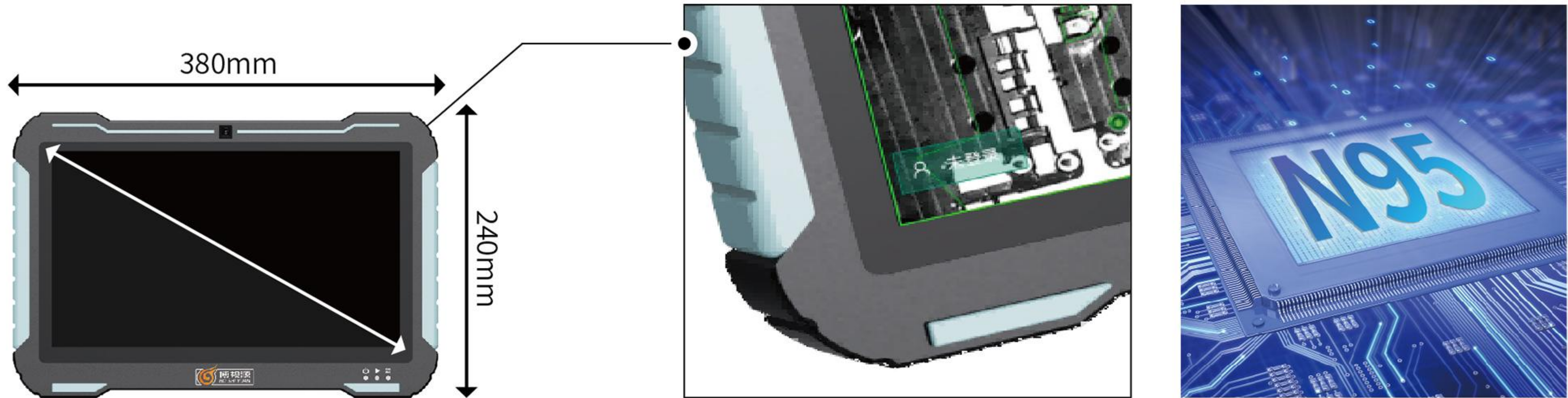
序号   Number	名称   Name	规格型号   Specification Model	子配件   Subassembly	参数说明   Parameter Description
1	主机   Host	BSY-2000	动态内存   Dynamic memory	4G/8G
			存储硬盘   Storage hard drive	M.2 2280-64G/128G/256G
			CPU	N95/97/N305
			主频   Clock rate	3.2GHz
			外观尺寸   Overall Dimensions	14英寸/inch
			分辨率   Resolution	1920*1080
			系统   System	Ubuntu Service
2	CCD相机   CCD camera	BC-0432	/	200万像素   2 megapixels
3	工业镜头   Industrial lens	0736MP	/	800万像素   8 million pixels



外形全新升级/硬件升级

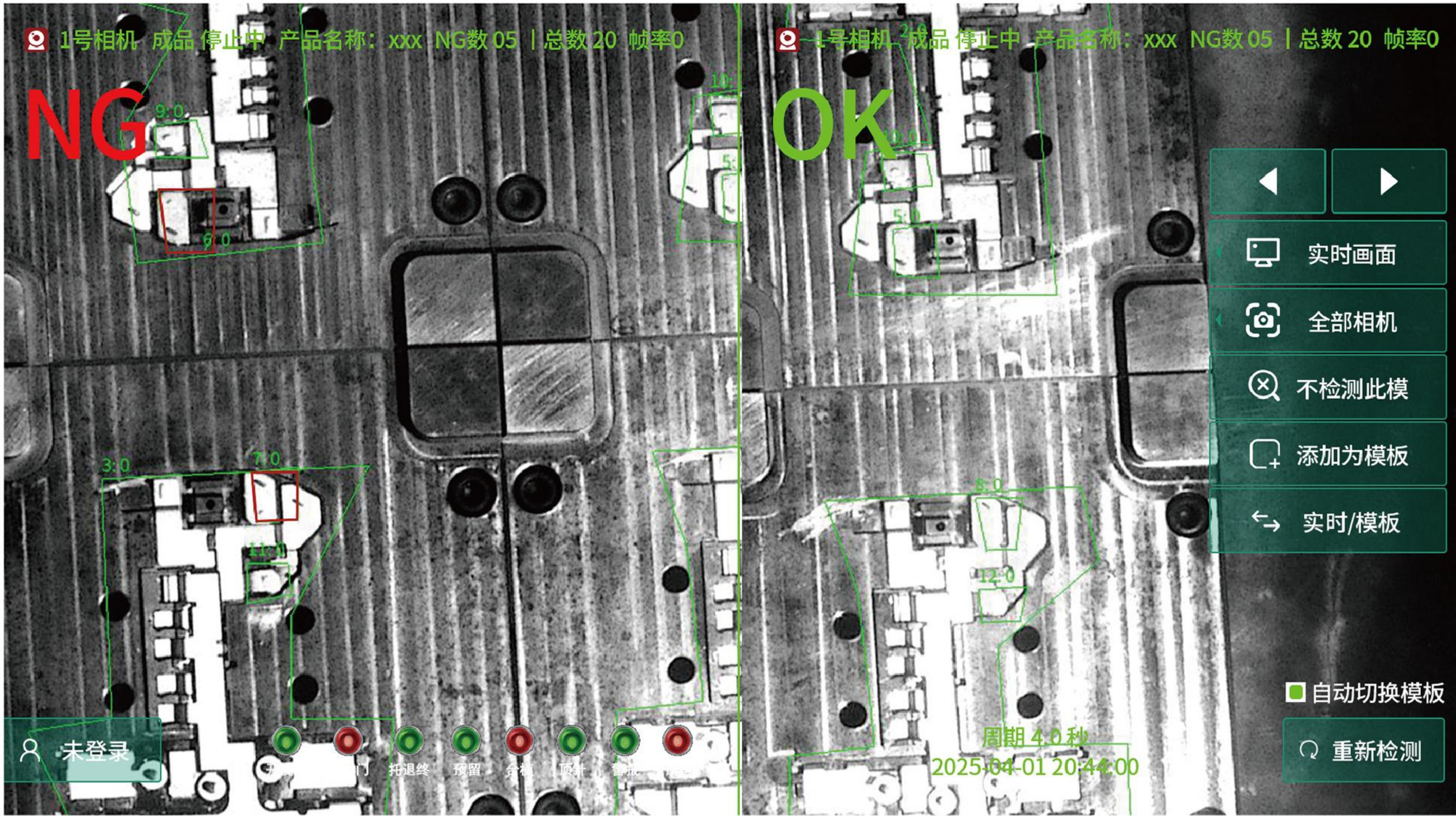
Redesigned exterior/Upgraded

类别   Category	旧款   Old	六代模保   Fifth Generation Mold Monitor	升级优势   Upgrade advantages
外壳材质 Casing Material	ABS树脂 Acrylonitrile Butadiene Styrene	ABS树脂+硅胶 Acrylonitrile Butadiene Styrene+Silicone rubber	持握更舒适更安全 Enhanced grip comfort and safety
制作工艺 Manufacturing	光滑表面/单色一体注塑 Smooth surface/Single-color integrated moldin	磨砂工艺/双色注塑 Textured finish/Dual-color molding	造型更具科技感 More tech-inspired aesthetics
屏幕尺寸 Screen Size	13.3英寸 13.3"	14英寸 14"	查看模内更清晰 Clearer mold viewing
屏占比 Screen-to-Body Ratio	57%	72%	正面尺寸利用率更高 Higher front surface utilization
CPU	J6402	N95/N97/N305	主频提升，AI运行效率提升3倍 3x AI processing efficiency boost



软件UI全新升级

Newly upgraded software UI



界面美化  
图形&排版重新设计

Interface beautification: graphic&layout redesign

化繁为简  
将更多二级菜单功能升级为高效一键操作

Simplify complexity: Upgrade more secondary menu functions to efficient one click operation

持续更新中 正式版敬请期待  
Continuously updating Stay tuned for the official version

第五代智能模具监视器

Fifth Generation  
Mold Monitor

科技不断发展+人力成本高昂,推进了工业生产逐步转型智能化.博视源第五代模具监视器的问世,实现了在移动设备端上一对多模具的远程监控,模具生产真正走向智能化。

The continuous development of technology and high labor costs have promoted the gradual transformation of industrial production towards intelligence. The emergence of the fifth generation mold monitor from Boshiyuan has enabled remote monitoring of one to multiple molds on mobile devices, truly moving towards intelligent mold production. The continuous development of technology and high labor costs has promoted the graduate transformation of industrial production rewards intelligence The release of the fifth generation mold monitor from Boshiyuan has enabled remote monitoring of one to multiple molds on mobile devices Mold production is truly moving towards intelligence.



智能化组件 | Intelligent components

自研智能相机

Self Developed Intelligent Camera

自研了一款成像更稳定的工业相机,并将主板内存、CPU等部件集成于工业相机内部,嵌入自研视觉检测程序.实现在相机内进行图像运算处理并无线数据传送的功能,无需外挂厚重主机。

We have developed an industrial camera with more stable imaging and integrated components such as motherboard memory and CPU into the camera, embedding our self-developed visual inspection program. Realize the function of image processing and wireless data transmission within the camera, without the need for external heavy hosts.

自研智能相机APP

Self Developed Intelligent Camera App

基于人机交互深度优化,开发了一款具有多项功能的APP,实现了远程监控、远程OTA升级和多终端生产数据统计的功能。

Based on deep optimization of human-computer interaction, an APP with multiple functions has been developed, which realizes remote monitoring, remote OTA upgrade, and multi terminal production data statistics.



# 五大升级

## 1. 硬件成本下降 Reduced Hardware Costs

市面上的模具监视器：一台注塑机匹配一套带屏主机，采购多台，硬件成本为1\*N。

Mold monitors on the market: one injection molding machine matched with a set of screen host, multiple purchased, with a hardware cost of 1 \* N.

第五代模具监视器：无主机无屏幕化设计，由一台移动端(可选配平板/手机)来显示和操作数十台终端。采购成本为旧款80%。

Fifth generation mold monitor: The fifth generation mold monitor: with no host or screen design, it is displayed and operated by a mobile device (optional tablet/mobile phone) on dozens of terminals. The procurement cost is 80% of the old model.



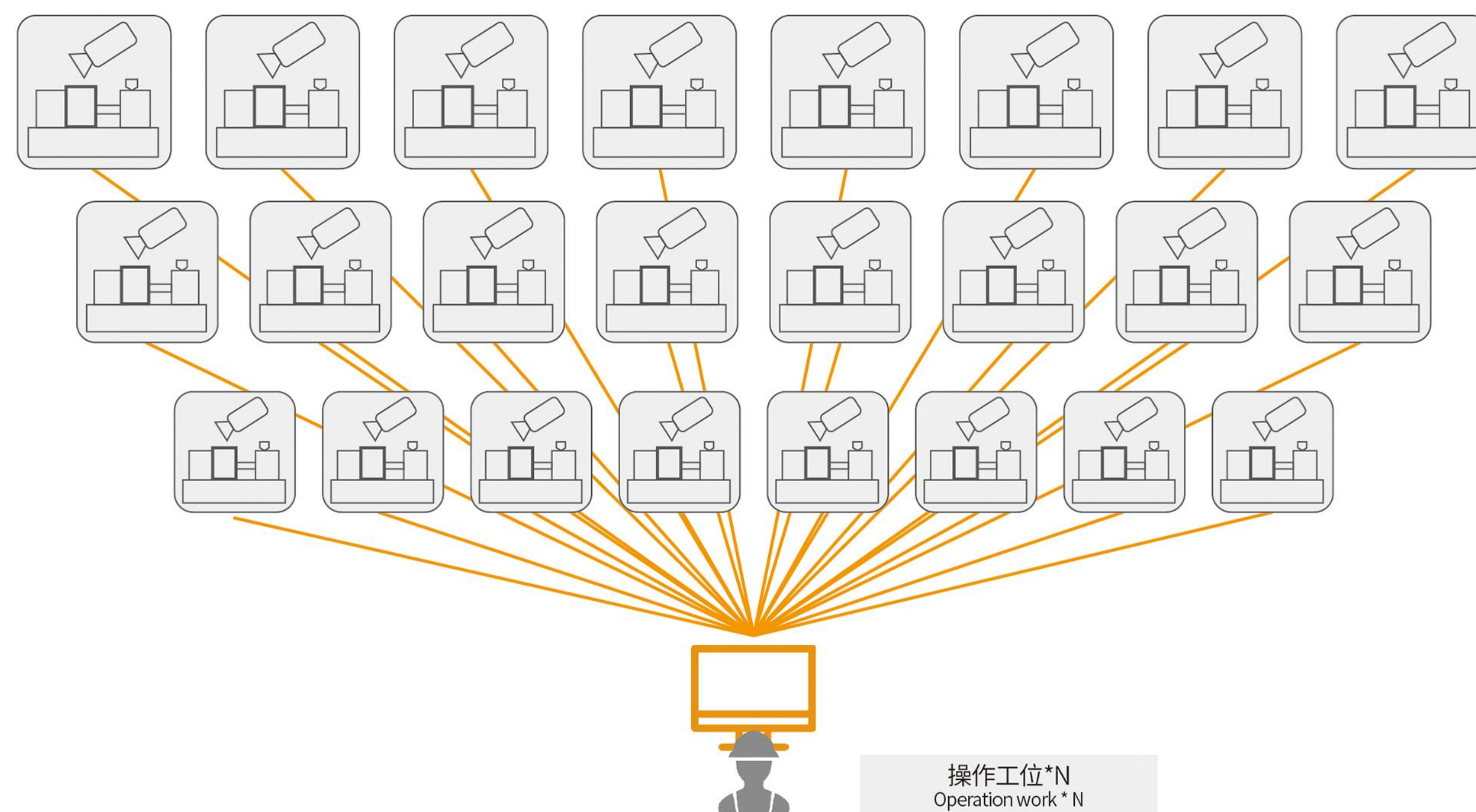
## 2. 人工成本下降 Reduction In Labor Costs

市面上的模具监视器：模具监视和操控需专人到岗到位，人均可监管≤5台设备。

Mold monitors on the market: mold monitoring and control require dedicated personnel to be on duty, and each person can supervise ≤ 5 devices

第五代模具监视器：监测数据实时上传，一人可监控N个检测工位，大幅度降低人工成本。

Real time upload of monitoring data, allowing one person to monitor N testing stations, significantly reducing labor costs.



## 3. 提高生产效率 Increase Productivity

市面上的模具监视器：

- ①程序问题和系统升级需工程师在机旁处理，具有延时性；
- ②传统工业相机在特定弱光环境下成像清晰度差，更易误判报警；
- ③操作端需有线固定于模具旁，出现模具异常时工作人员需在终端旁监控和处理。

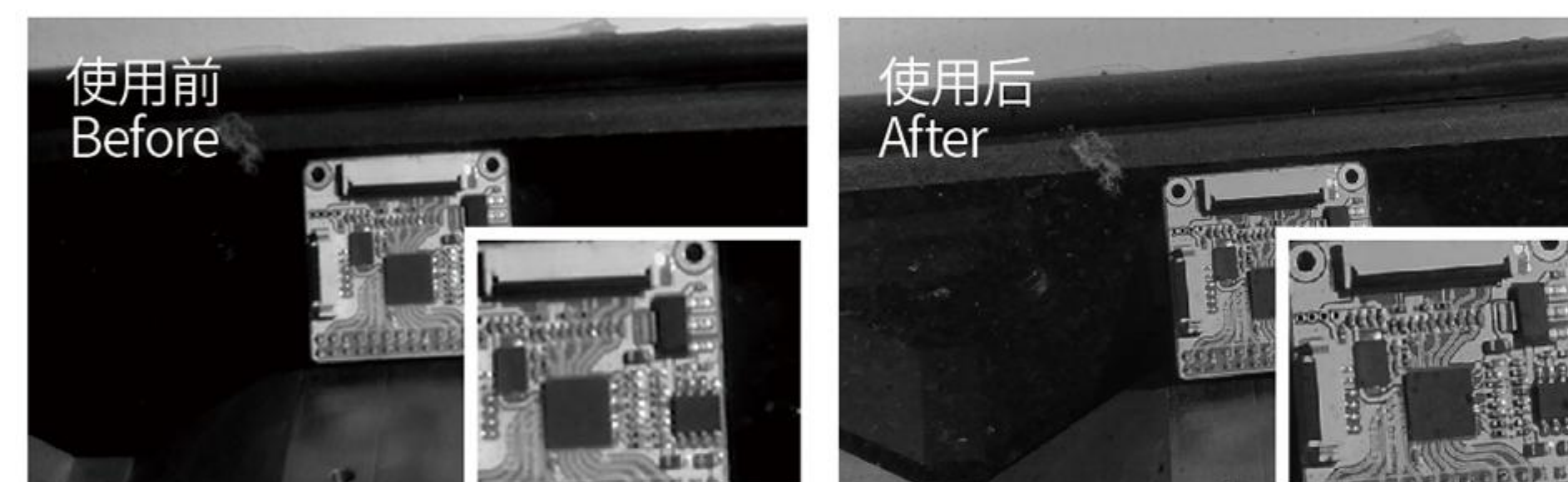
Mold monitors on the market:

- ① Program issues and system upgrades require engineers to handle them on the machine, which has latency;
- ② Traditional industrial cameras have poor imaging clarity in specific low light environments and are more prone to false alarms;
- ③ The operating end needs to be wired and fixed next to the mold. In case of mold abnormalities, the staff should monitor and handle them at the terminal.

### ①OTA升级 | OTA Upgradation



### ②宽动态高范围成像 | Wide dynamic high range imaging



第五代模具监视器：

- ①可连接互联网在线后台调试，线上升级；
- ②采用自研相机，成像解析力进一步提升，有效降低误判率；
- ③操作端为无线平板/手机，局域网内可通过移动端app进行无线模具监视和终端操作。

Fifth generation mold monitor:

- ① It can be connected to the Internet for online background debugging and online upgrading;
- ② By using self-developed cameras, the imaging resolution is further improved, effectively reducing the misjudgment rate;
- ③ The operating end is a wireless tablet/mobile phone, and wireless mold monitoring and terminal operation can be carried out within the local area network through the mobile app.



### ③无线移动端操作 | Wireless mobile operation



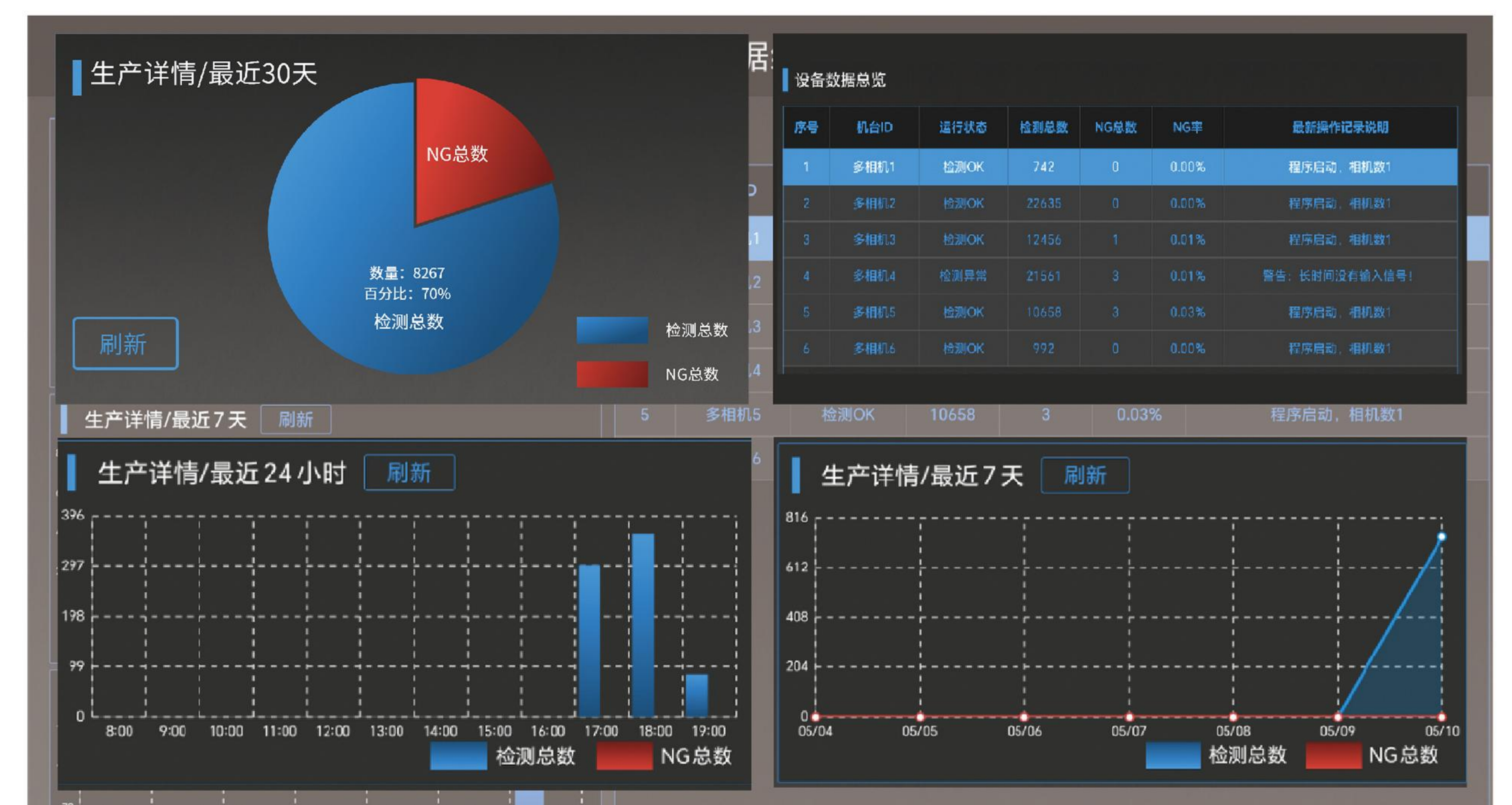
## 4. 数据管理升级 Data Management Upgrade

市面上的模具监视器：无细化数据统计功能。

Mold monitors on the market: No detailed data statistics function.

第五代模具监视器：数据实时上传，数据可视化、图形化，打造更直观的数字化工协同管理新方式。

Fifth generation mold monitor: Real time upload of monitoring data, allowing one person to monitor N testing stations, significantly reducing labor costs.

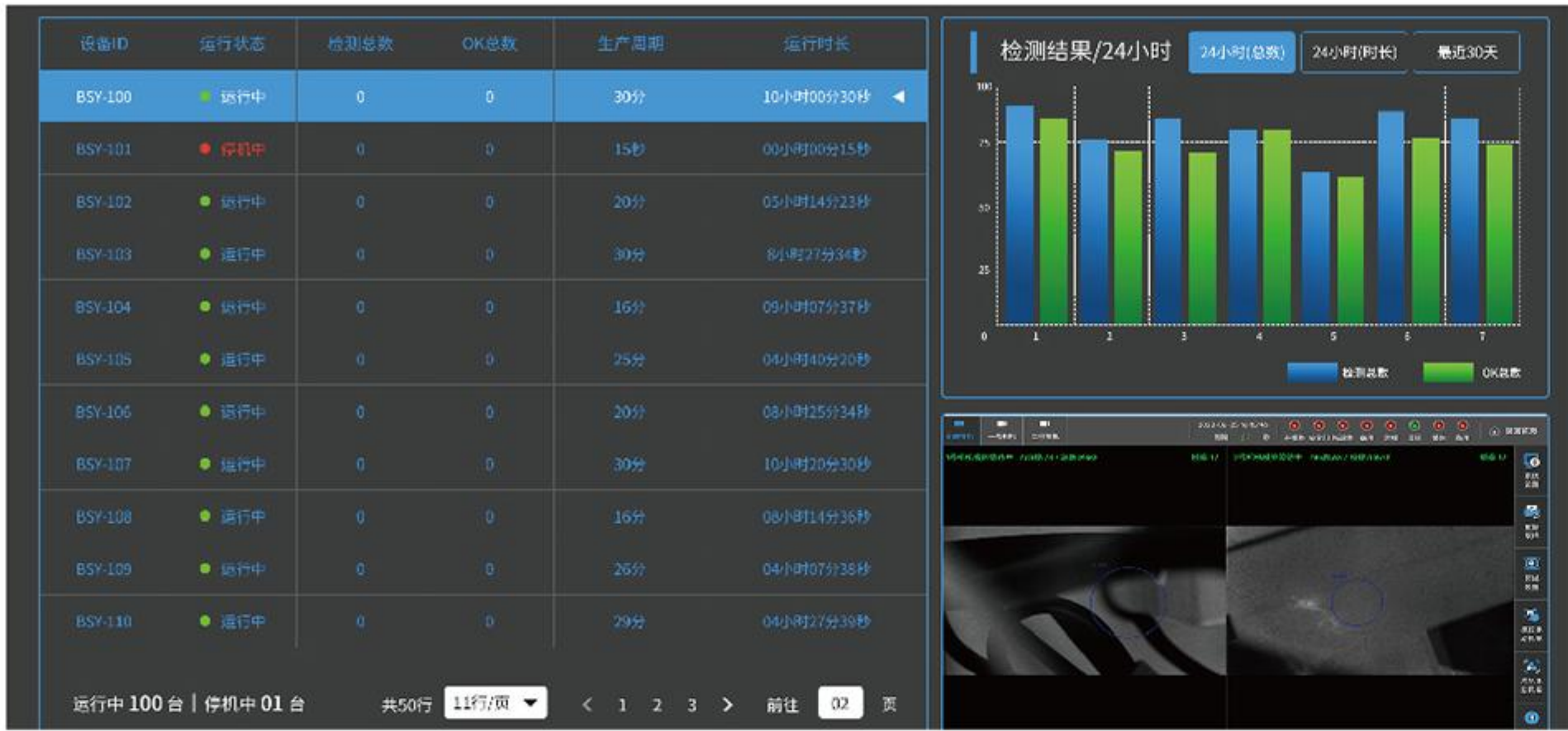




## 5.建立MES系统 Establish MES System

市面上的模具监视器:无法新建和接入Mes系统。

Mold monitors on the market:Unable to create and connect to MES system.



第五代模具监视器:基于有线网络布局的车间内终端联通,通过第四代模具监视器对模具终端的实时监控数据收集,可将生产实时数据和历史统计数据投射至车间数据看板和公司管理层的办公室,实现生产车间MES系统的建立,实现智能车间升级。

Fifth generation mold monitor: Based on the wired network layout, the workshop terminal is connected, and real-time monitoring data of the mold terminal is collected through the fourth generation mold monitor. Real time production data and historical statistical data can be projected to the workshop data dashboard and the company management office, achieving the establishment of the MES system in the production workshop and upgrading the intelligent workshop.

## MES系统建立逻辑 MES System Establishment Logic

建立MES系统,可结合有线与无线方案,实现智能车间升级。  
Establish an MES system that can combine wired and wireless solutions to achieve intelligent workshop upgrades.



无线连接  
Wireless transmission

有线连接  
Wire Transmission

## 第三代模具监视器

Third generation mold monitor



BSY-1000

博视源第三代模具监视器,已推出6年有余。市场覆盖率广,全国销量领先。软件版本与硬件配件迭代更新数十次,系统运行稳定性与检测精度均经得住市场考验。

The Boshiyuan 3rd Generation Mold Monitoring System has been on the market for over six years. It has achieved wide market coverage and leads in national sales. With dozens of software version and hardware component iterations, the system's operational stability and detection accuracy have been thoroughly proven in the market.

## 大数据管理系统 Big Data Management System

全球工业正在向智能化时代推进,而传统注塑/冲压车间的终端对于模内生产详情的数据化管理也是迫在眉睫,但是往往由于车间前期布局不足或硬件版本陈旧等原因,即便安装了可实时监控模内生产的模具监视器,实现了模内监控可视化,也是无法真正向智能化推进。针对这一痛点,我们将我们这款第三代模具监视器进行了升级改造,新增网络模块、研发了大数据管理系统,让用户的注塑/冲压生产实现了真正的智能化转型。而应对新车间,该设备更是可直接适配,为车间提供大数据收集管理,组建自己的MES系统。

The global industry is advancing into the era of intelligent manufacturing, and the data-driven management of in-mold production details in traditional injection molding/-stamping workshops has become imperative. However, due to inadequate initial workshop layouts or outdated hardware versions, even with the installation of real-time mold monitoring systems that enable visual in-mold inspection, achieving true intelligent transformation remains unattainable. To address these challenges, our company has upgraded the third-generation mold monitoring system with additional network modules and developed a big data management system, enabling genuine intelligent transformation for users' injection molding/stamping production. For new workshops, the equipment can be directly adapted to provide big data collection and management, allowing the workshops to establish their own MES.



### 传统注塑/冲压车间的管理弊端

Traditional injection molding/stamping workshop management shortcomings

- ❌ 一人看守一台终端 One operator required per terminal
- ❌ 模具异常时只能现场操作 On-site operation only during mold
- ❌ 设备升级智能化成本高昂 High costs for smart equipment upgrades
- ❌ 难以建立数据MES系统 Difficult to establish digital MES
- ❌ 无网络端口布局 No network port configuration
- ❌ 无数据报表统计 No data reporting statistics
- ❌ 终端远程可视化改装门槛高 High retrofit threshold for remote mold monitoring



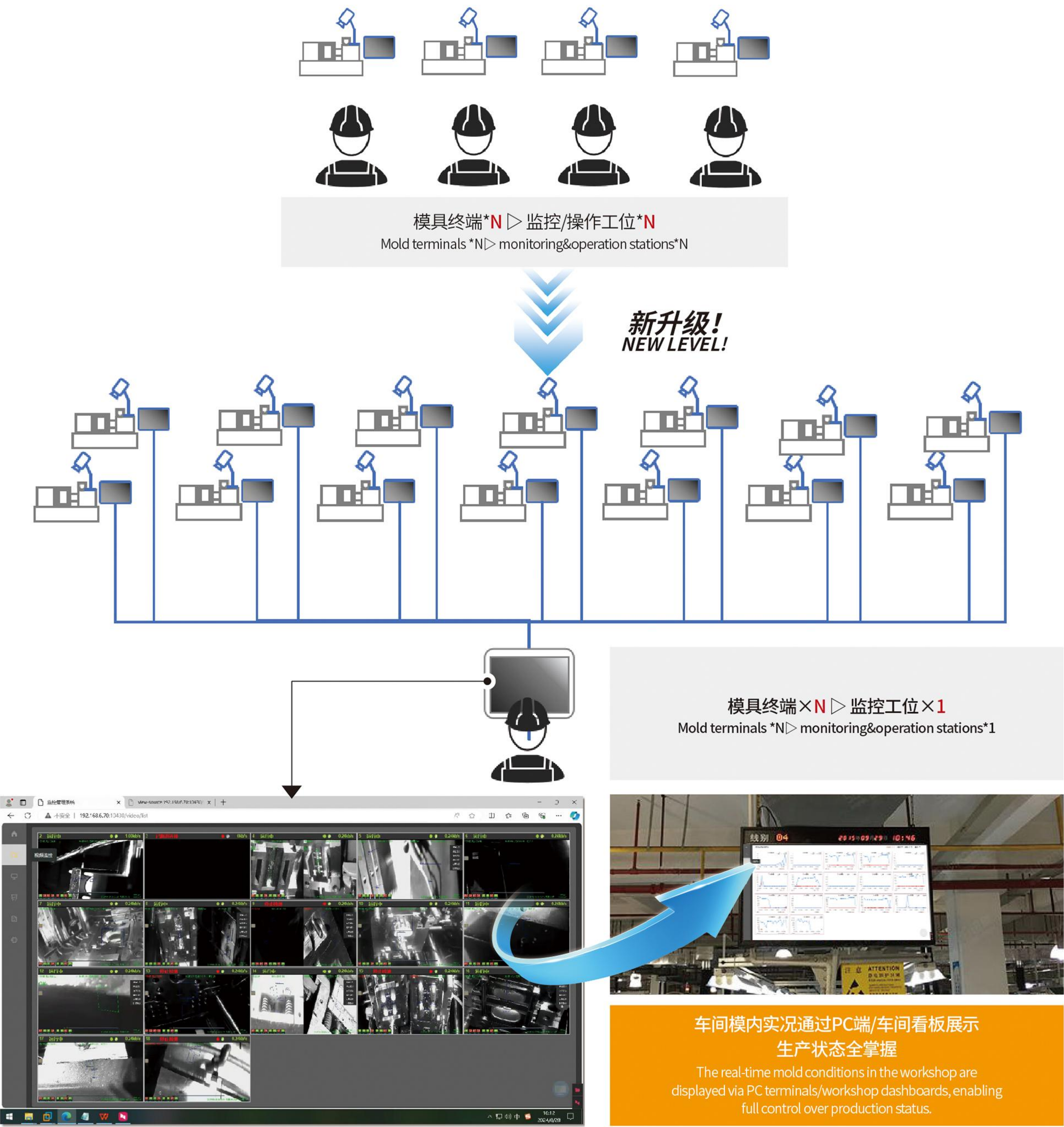
### 配置了博视源大数据管理系统的模具监视器后

After configuring the mold monitor of the Boshiyuan big data management system

- ✅ 多设备实时生产监控 Multi-equipment real-time
- ✅ 生产详情图集成 Integrated production detail diagrams
- ✅ 检测视频分类和回溯 Detection video categorization and playback
- ✅ 设备NG数据报表 Equipment NG data reports
- ✅ 所有设备数据对比 Cross-equipment data comparison
- ✅ 系统软件更新日志 System software update logs
- ✅ 完整的检测报告 Comprehensive inspection reports
- ✅ 远程设置参数 Remote parameter configuration
- ✅ NG记录统计 NG record statistics
- ✅ 所有设备操作记录 All equipment operation records

▶ 搭建MES系统 Implement an MES ◀





任一单台设备可远程监控&设置, 人力成本大幅降低!▶

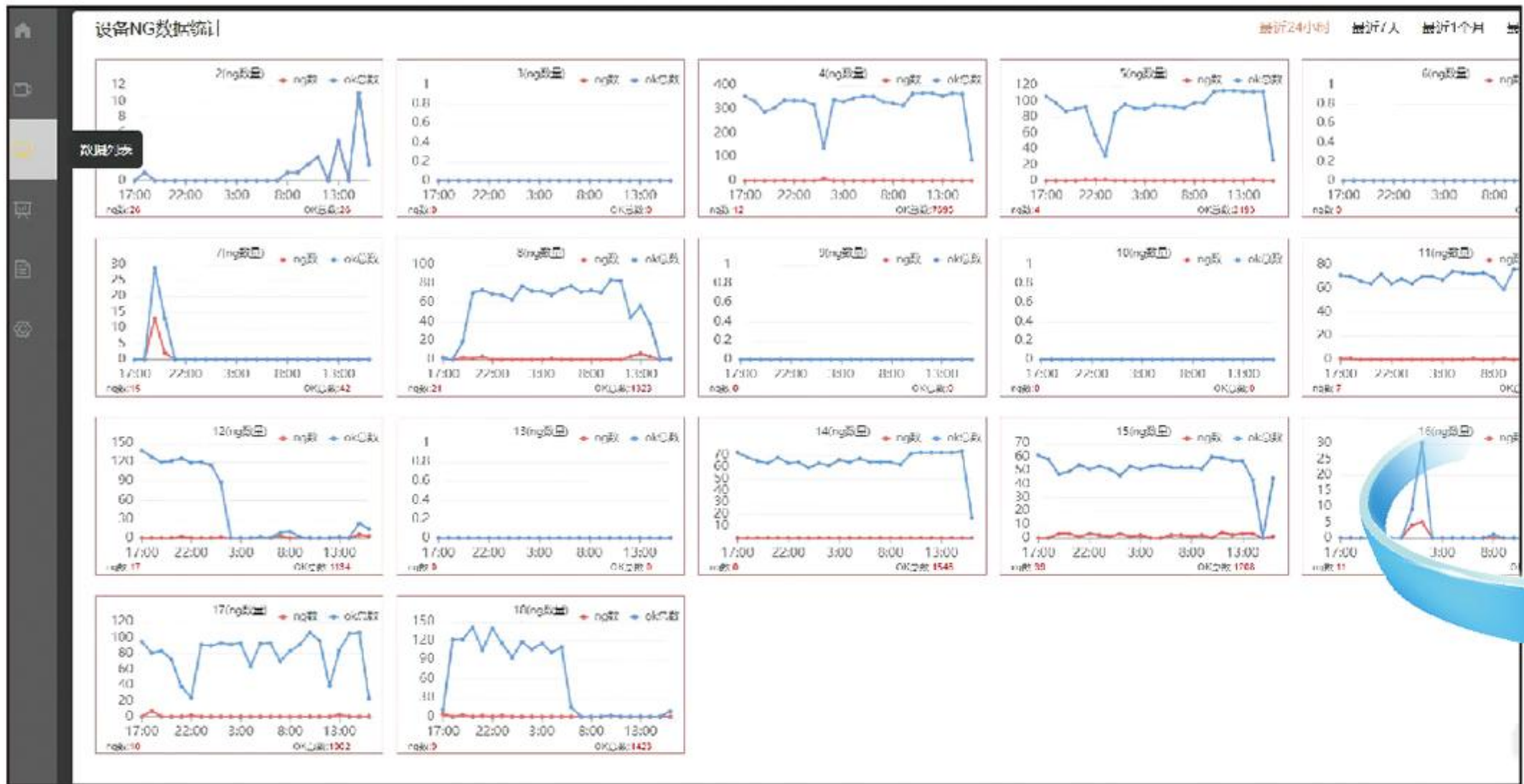
Any single device can be remotely monitored & configured, significantly reducing labor costs.



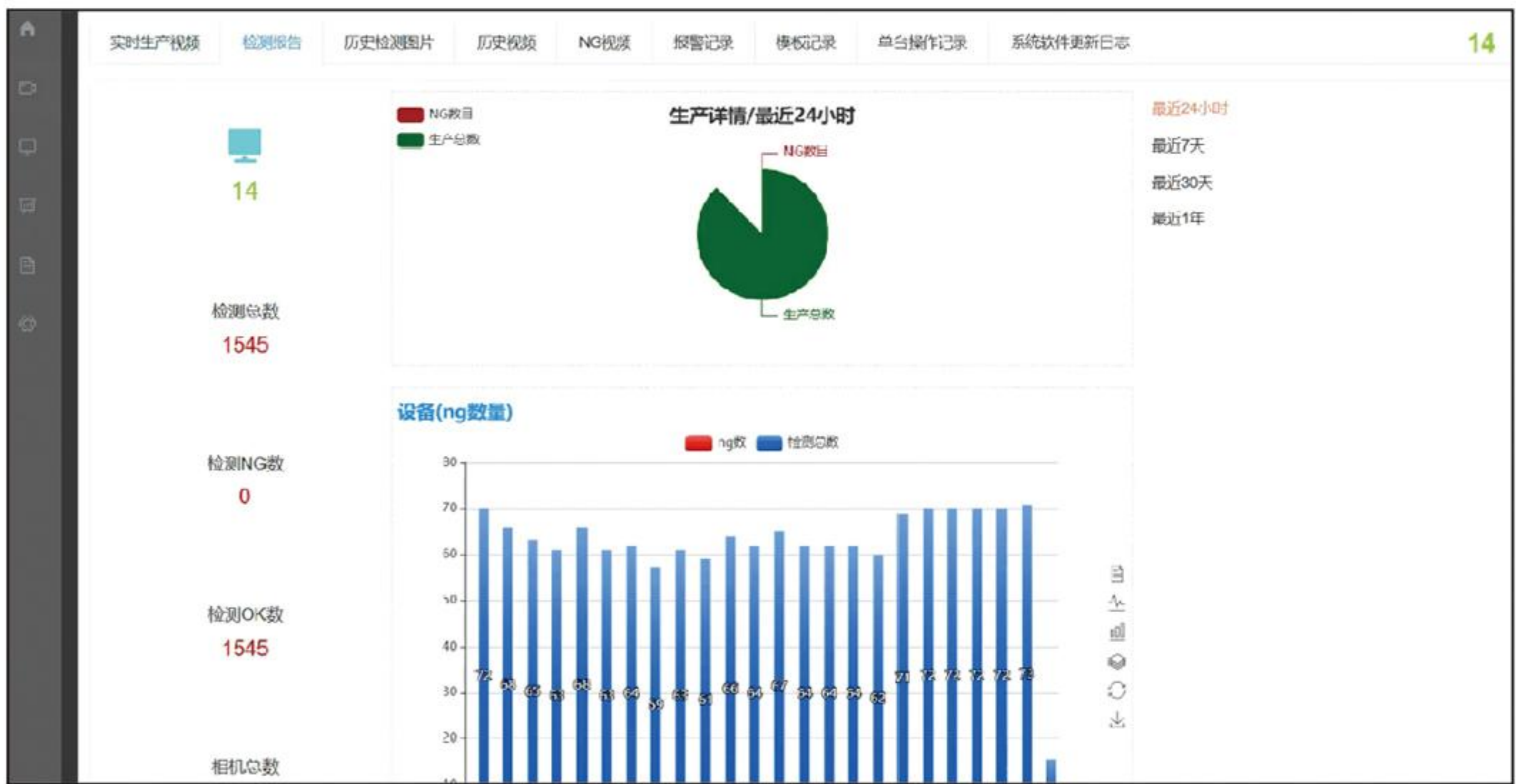
- 模内生产详情高清展示  
High-definition display of in-mold production details
- 可远程设置:灵敏度/报警面积/检测框  
Remote configurable parameters:Sensitivity/Alarm Area/Detection frame
- 出现误报警可及时远程人工排查, 高效管理  
False alarms can be promptly troubleshooted remotely for efficient management



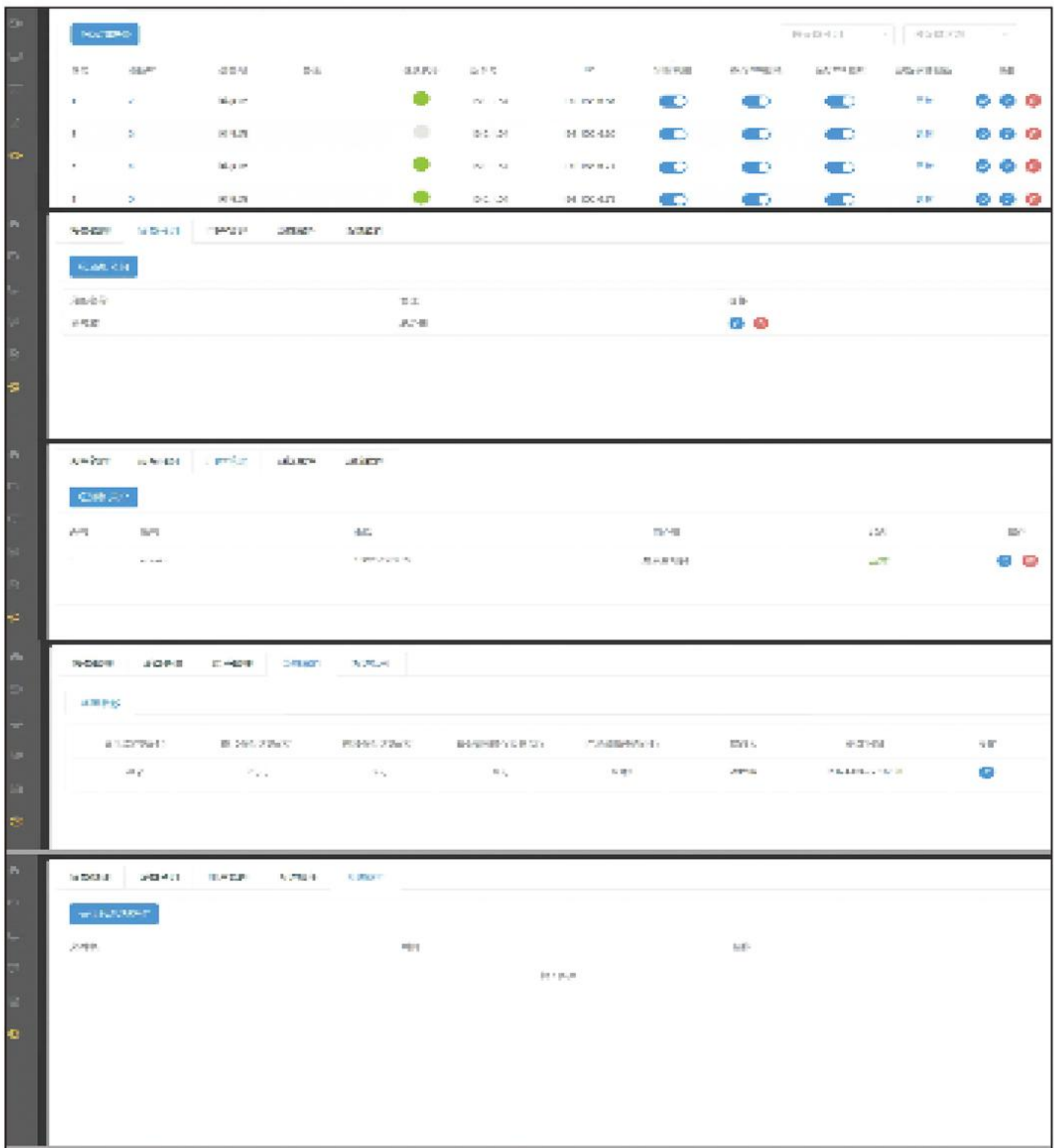
- 生产数据图形化展示, 查看更便捷  
Production data graphical display for easier viewing
- 在线设备数统计  
Online equipment count statistics
- 生产总数统计  
Total production count statistics
- OK/NG总数  
Total OK/NG count
- 24小时内生产详情  
24-hour production details



- ON/NG数据以曲线展示, 自由切换列表显示/单台显示OK/NG  
Data displayed in curves, with free switching between list view and single-device view.



- 检测报告清晰展示  
Inspection reports displayed clearly
- 历史检测影像回溯  
Historical inspection image playback
- 报警/添加模版/操作动作/系统更新情况全记录  
Comprehensive records of:  
1.Alarms/2.Template additions/3.Operation actions/4.System updates



- 设备管理 Device Management
  - 系统内批量管理设备  
Batch device management within the system
- 设备分组 Device Grouping
  - 多个车间场景下分组管理更便捷  
Group management for multiple workshop scenarios
- 用户管理 User Management
  - 操作人员权限划分,避免越权操作  
Operator permission levels to prevent unauthorized operations
- 系统属性 System Properties
  - 设置数据保存时长  
Data retention period configuration
- 系统软件 System Software
  - 软件版本展示  
Software version display



# 热成像模具监视器 Thermal imaging mold monitor

## 热成像温度检测在模内监视器行业里的功能应用

The functional application of thermal imaging temperature detection in the in mold monitor industry

在注塑工艺中，有部分材料对温度要求较高。如高温敏感材料-工程塑料PEEK/LCP/PPS和底纹敏感材料TPE/FKM等，在制作如光纤部件、汽车传感器外壳或手机保护套等各种塑料制品时如控温异常，将导致产品出现收缩率异常、翘曲或变形等问题。而加装接触式的温度监控，对设备的改造成本又居高不下。我司自研的热成像模具监视器BSY-T900，采用非接触式温度监控，是更优质的解决方案。

In injection molding, some materials have strict temperature requirements. For example, high-temperature-sensitive engineering plastics like PEEK, LCP, and PPS, as well as texture-sensitive materials like TPE and FKM. When producing plastic components such as fiber optic parts, automotive sensor housings, or phone cases, abnormal temperature control will lead to product issues like irregular shrinkage, warping, or deformation. However, retrofitting contact-based temperature monitoring systems involves prohibitively high costs. Our self-developed BSY-T900 thermal imaging mold monitor adopts non-contact temperature monitoring, providing a superior solution.



BSY-T900

## 温度检测和视觉对比检测可同步进行

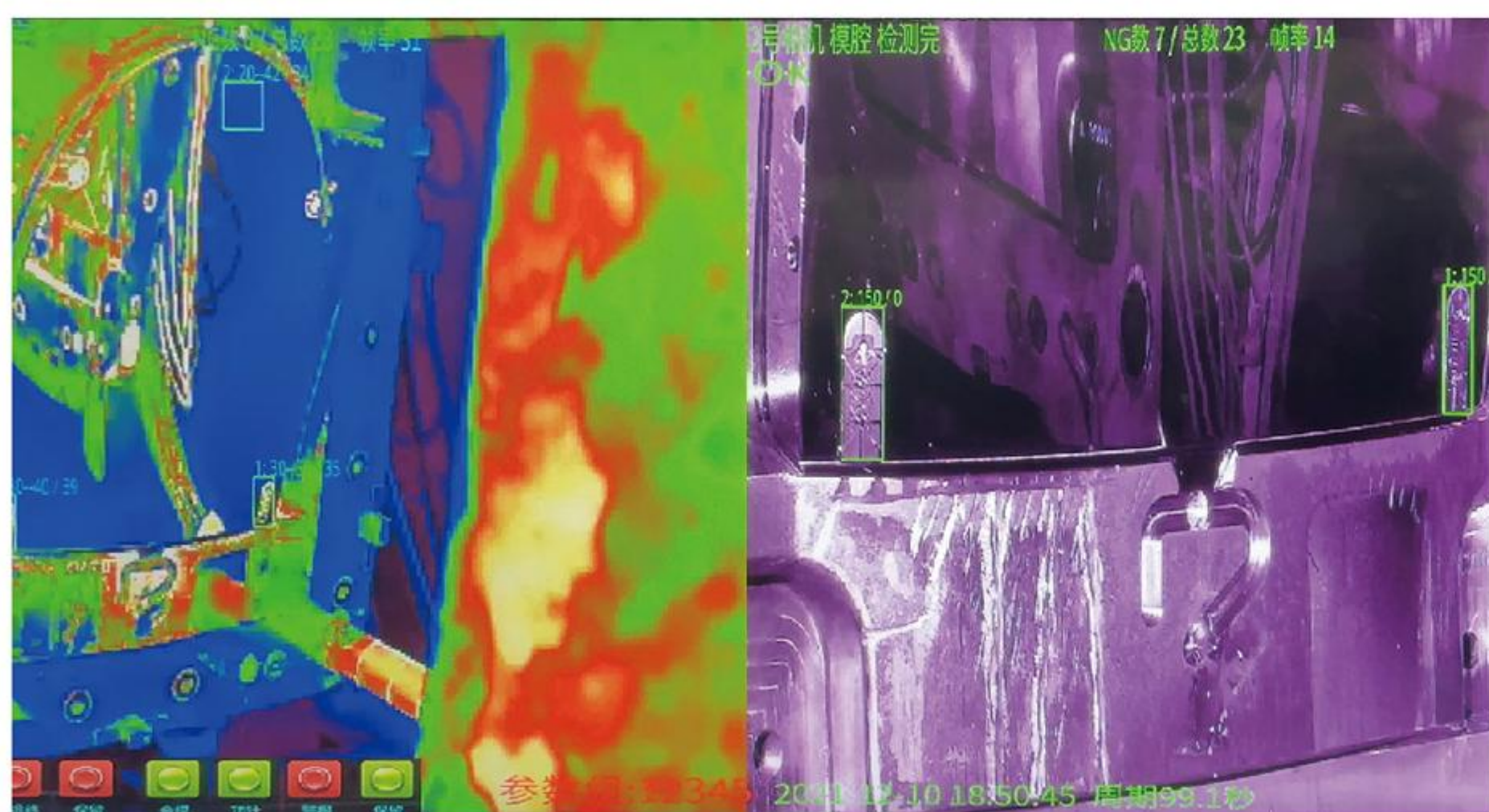
Temperature monitoring and visual inspection can be performed simultaneously

设备是基于BSY-1000上做升级，配备热敏相机和温控算法，可自定义测温区域和报警范围，又可和传统视觉检测系统兼容运行，实现双维度的模内监控。

The device is upgraded from the BSY-1000 model, equipped with a thermal camera and temperature control algorithm. It allows customized temperature measurement zones and alarm ranges, while maintaining compatibility with traditional vision inspection systems, enabling dual-dimensional in-mold monitoring

产品:马桶盖

Toilet seat cover



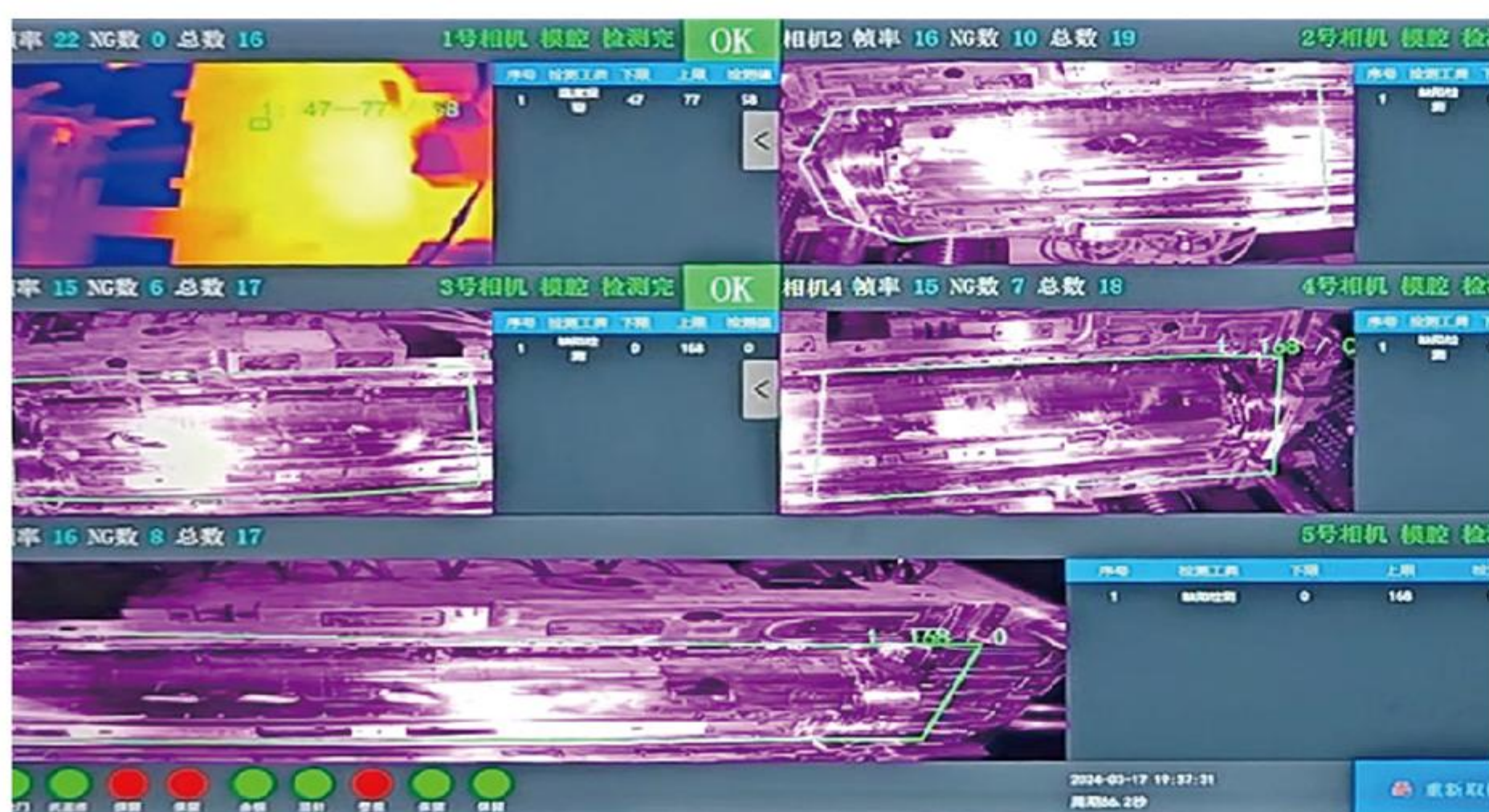
Air conditioner rear panel

产品:空调背板



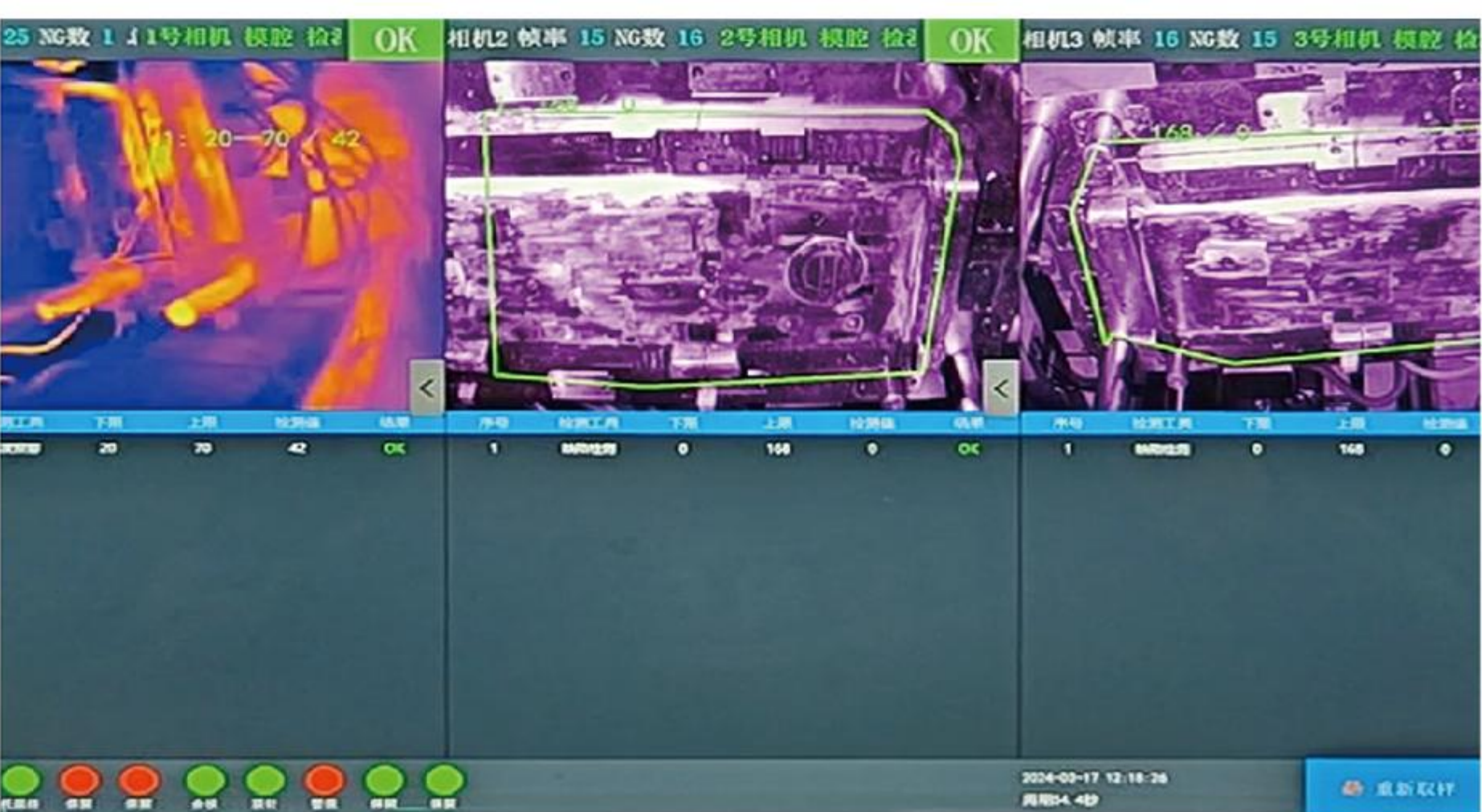
产品:空调前盖板

Air conditioner front panel



Fan blade

产品:风扇叶



## 三代模保其他功能

Third generation mold monitor other functions



自动生成检测区域、参数—提高调试准确度，减少使用人员的操作步骤，减少调试时间。

Automatically generate detection areas and parameters - improve debugging accuracy, reduce user steps, and reduce debugging time.



开模行程位移偏差时自动纠正——自主研发的动模漂移纠正算法，经过实际验证可纠正10mm误差，老式油压机此功能最为明显。

Automatic correction of displacement deviation during mold opening stroke - a self-developed dynamic mold drift correction algorithm that has been verified in practice to correct 10mm errors. This function is most evident in older hydraulic presses.



傻瓜式一键操作、新手操作指引——系统自带一键式教程，自动设定好相关程式，技术员只须按设定好步骤一步一步执行，无须人为培训，便可学会操作博视源监视器基本功能。

Foolish one click operation, beginner operation guide - The system comes with a one click tutorial that automatically sets relevant programs. Technicians only need to follow the set steps step by step, without human training, to learn to operate the basic functions of the Boshiyuan monitor.



选配功能：监视器异常报警可发送短信到指定的技术员手机上，保证高效实时处理异常警报。

Optional function: When the mold protector is abnormal alarm, SMS can be sent to the designated technician's mobile phone to ensure efficient and real-time processing of abnormal alarm.



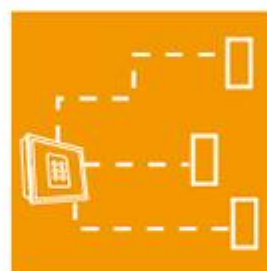
基于轮廓的最新模型匹配算法可以有效地解决埋件的错位问题和钢片，以及色差引起的误判。

The latest contour based model matching algorithm can effectively solve the problem of misalignment of embedded parts, steel sheets, and misjudgment caused by color differences.



光线自动补偿和纠正——针对反光和过暗区域，自主研发的光线补偿算法可自动判别出相关区域，自动纠正，实现整体亮度均衡，此功能针对金属埋入效果特别明显。

Automatic compensation and correction of light - For reflective and overly dark areas, the independently developed light compensation algorithm can automatically identify relevant areas, correct them automatically, and achieve overall brightness balance. This function is particularly effective for metal embedding.



最新研发的一台模具监视器对应多台注塑机的模内监视系统，可应用在检测产品有无正常从模具拖落的比较简单的应用环境，大大节省客户的采购成本。

Our latest new system that one mold protector corresponds to multiple injection molding machines, which can be applied to detect the easier problems just like if the products were falling from the molds normals, this can save our customers' purchase cost greatly.

...

## 热成像模保其他配置

Thermal imaging mold monitor other configurations

- 1.支持多种伪彩;
- 2.支持3D降噪,图像细节增强功能;
- 3.支持快门校正,光学透过率矫正功能;
- 4.支持镜像,数字变倍;
- 5.支持本地视频输出,设备接口防松脱;
- 6.产品设计小巧,便于集成;

- 1.Support multiple pseudo colors;
- 2.Support 3D noise reduction and image detail enhancement;
- 3.Support shutter correction and optical transmittance correction;
- 4.Support mirroring and digital doubling;
5. Support local video output and prevent interfaces of the device from loosening;
- 6.The product design is compact and easy to integrate;



## 模具监视器在行业上的运用(汽车行业)

The Application Of Mold-Protector In Industry(AutoIndustry)



汽车配件现场图  
Auto parts field map



### 应用领域:

发动机配件、车身及附件、传动系配件、制动系配件、车身及附件、汽车灯具、安全防盗等汽车相关配件。

### Application:

Engine parts, car body and accessories, transmission accessories, brake accessories, car body and accessories, car lamps, safety and anti-theft auto accessories, and so on.

Auto Parts Industry

× 合作案例

## 模具监视器在行业上的运用(医疗行业)

The Application Of Mold-Protector In Industry(Medical Industry)



医疗器械现场图  
Medical device field map

### 应用领域:

注射针、针头护帽、输液软管、药液过滤器、瓶塞穿刺器、注射器外套、芯杆、胶塞、锥头等医疗相关配件。

### Application:

Injection needle, needle protection cap, infusion hose, liquid medicine filter, bottle stopper, syringe coat, core rod, glue plug, cone head and other medical accessories.

Medical Industry

× 合作案例



## 模具监视器在行业上的运用(3C行业)

The Application Of Mold-Protector In Industry(3C Industry)



3C产品检测图  
3C product testing pictures

应用领域:

电脑、手机、电视、数码影音产品及其相关产业产品等3C电子领域。

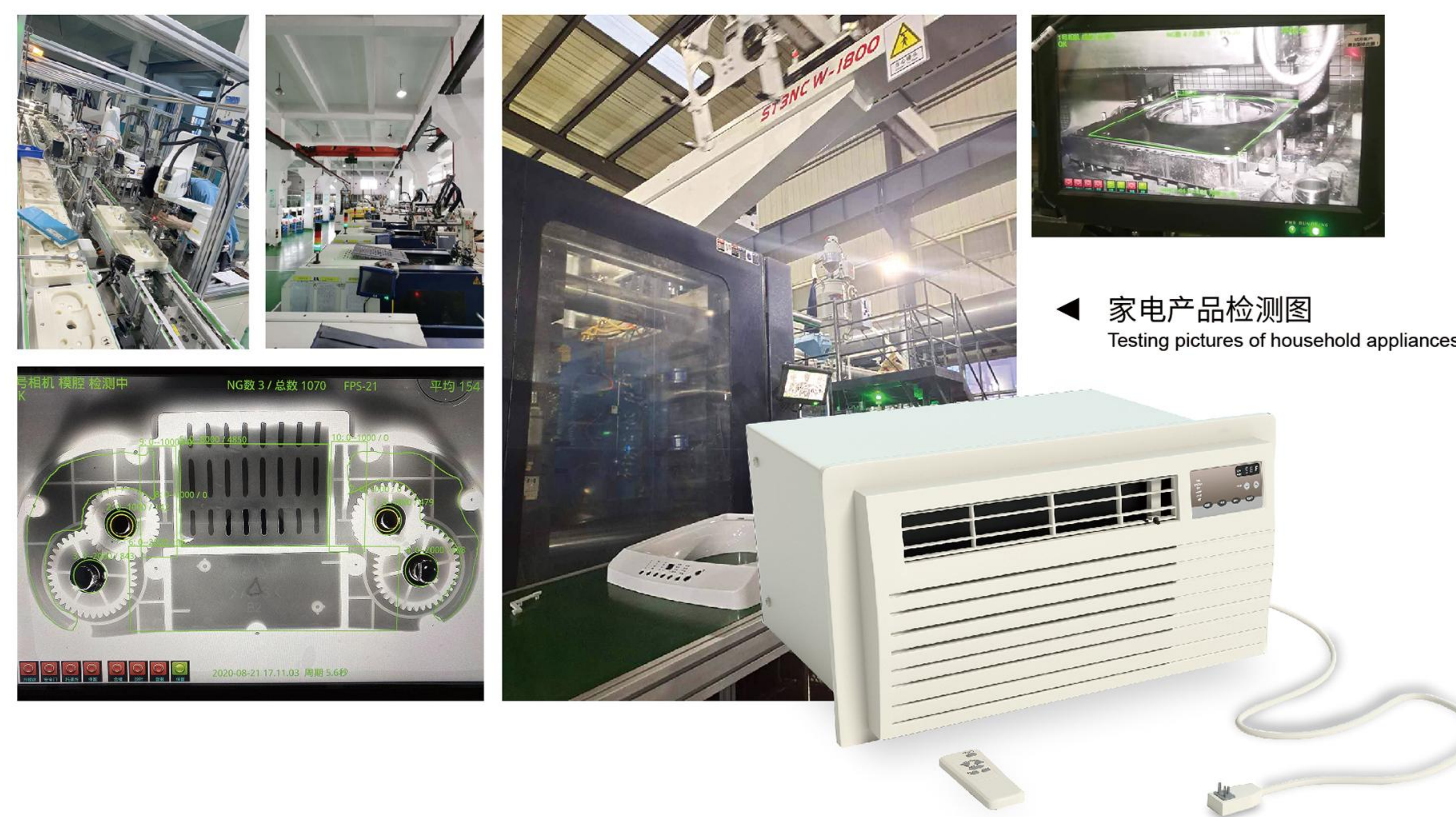
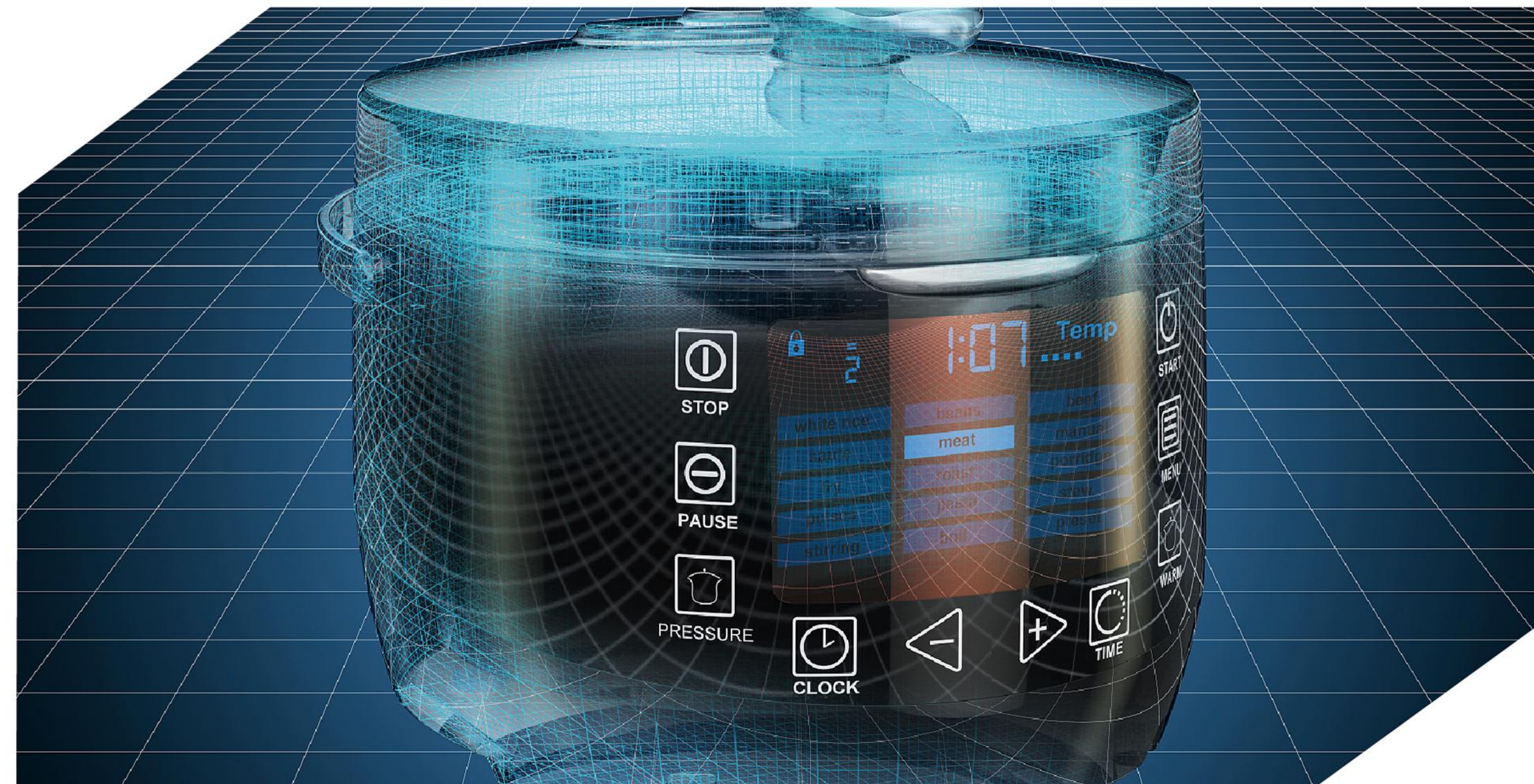
Application:

Computer mobile TV digital audio products and related industrial products and other 3C electronic domain.

3C Industry × 合作案例

## 模具监视器在行业上的运用(家电行业)

The Application Of Mold-Protector In Industry(Home Appliance Industry)



家电产品检测图  
Testing pictures of household appliances

应用领域:

空调器、清洁电器、厨房电器、空调器、电扇、换气扇、声像电器、微型投影仪、录像机、摄像机等家电行业相关产品。

Application:

Air conditioners, cleaning appliances, kitchen appliances, air conditioners, electric fans, ventilation fans, audio and video appliances, miniature projectors, video recorders, cameras and other related products.

Home Appliance Industry × 合作案例



## 模具监视器在行业上的运用(冲压工艺)

The Application Of Mold-Protector In Industry(Stamping Process)



◀ 冲压  
Stamping



### 应用领域:

不锈钢、铁、铝、铜等板材及异性材,简单模、连续模和复合模和其他冲压领域等

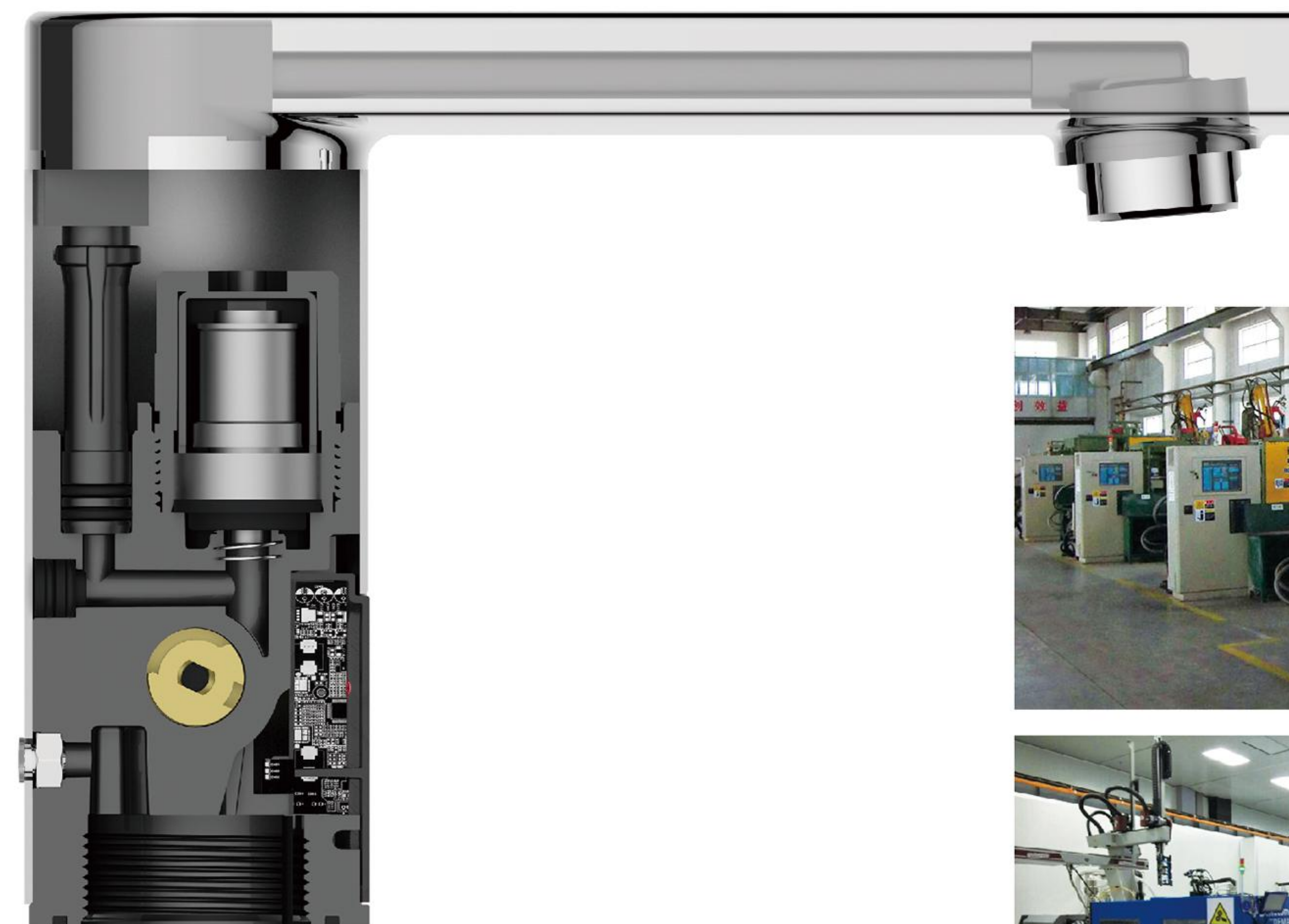
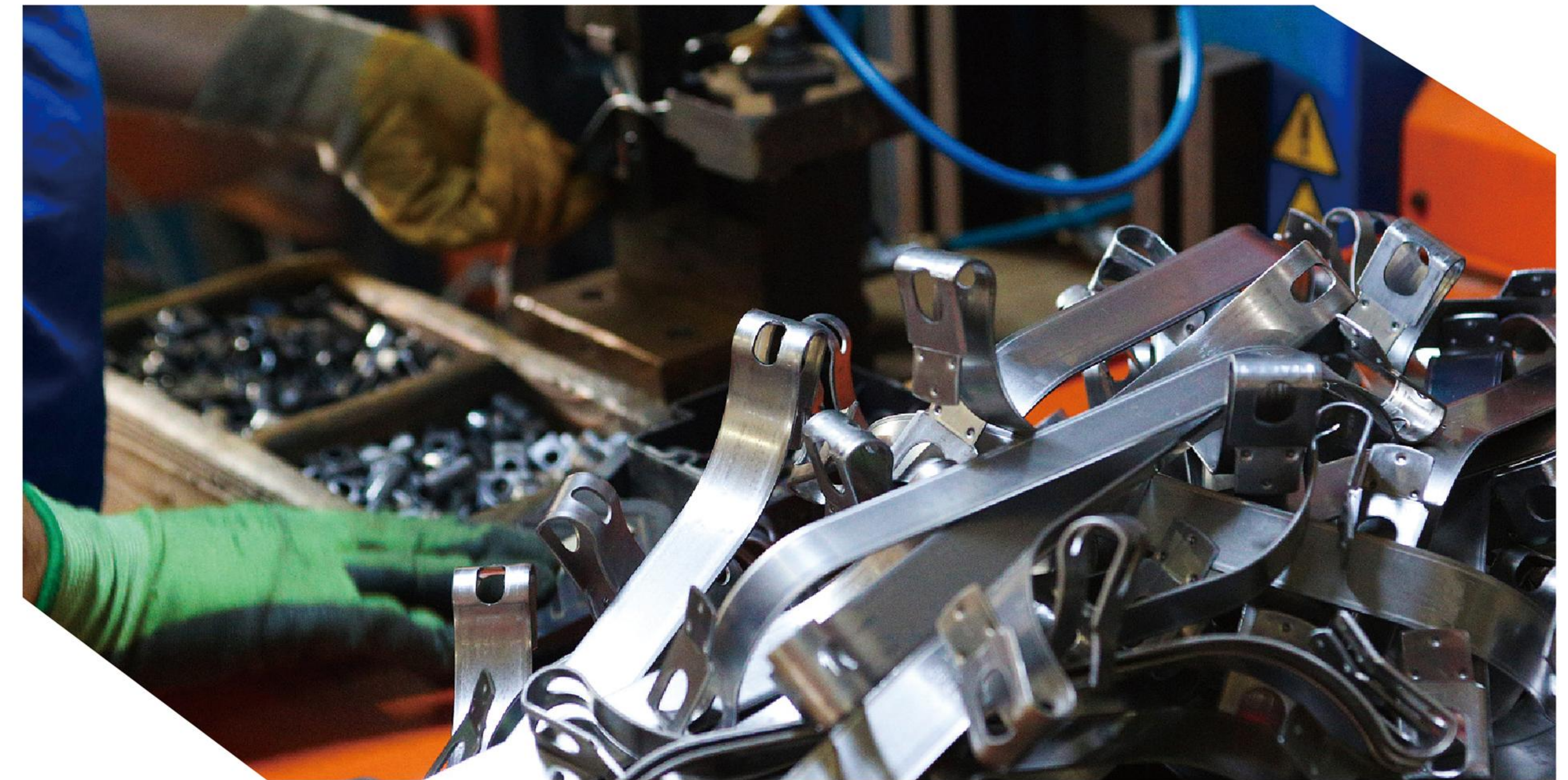
### Application:

Stainless steel,iron,aluminum,copper and other plate and other materials,simple die,continuous die and composite die and other stamping areas.

Stamping Process × 合作案例

## 模具监视器在行业上的运用(压铸工艺)

The Application Of Mold-Protector In Industry(Die casting process)



压铸  
Pressure casting



### 应用领域:

锌、铜、铝、镁、铅、锡以及铅锡合金、合金加工、压铸铁和压铸相关领域等。

### Application:

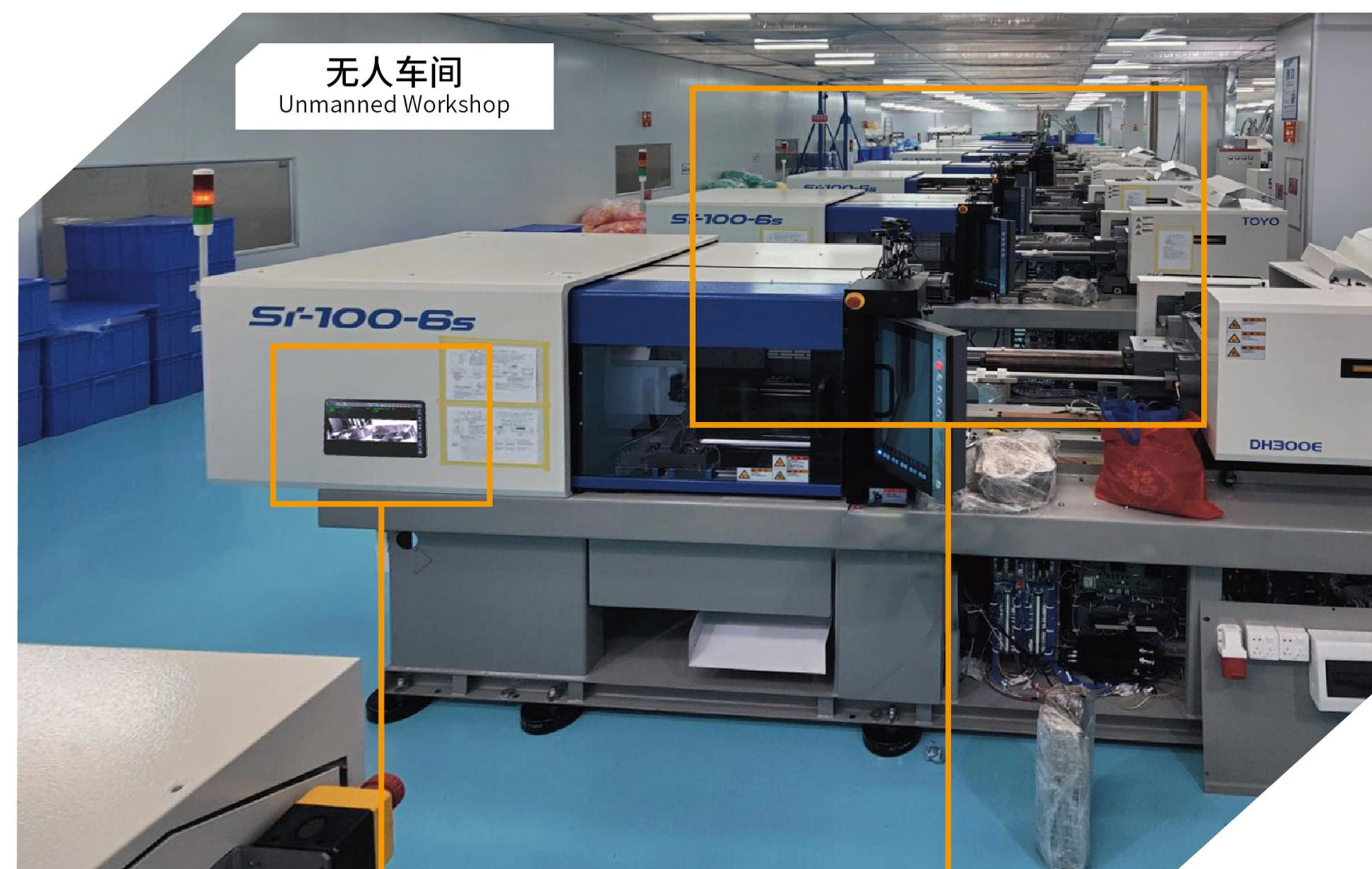
Zinc,copper,aluminum,magnesium,lead,tin and lead tin alloy, alloy processing,die casting iron and die casting related fields.

Die Casting × 合作案例



# 模具监视器在智能化车间的布局和应用

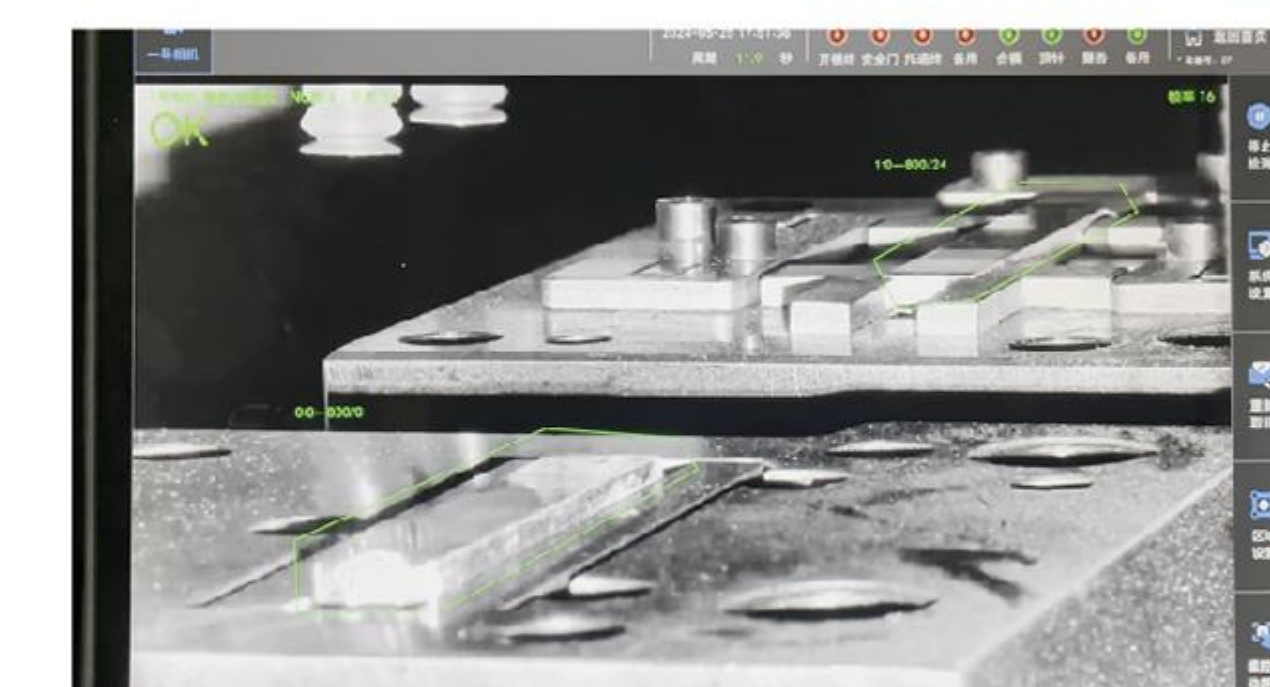
Layout and application of mold monitors in intelligent workshops



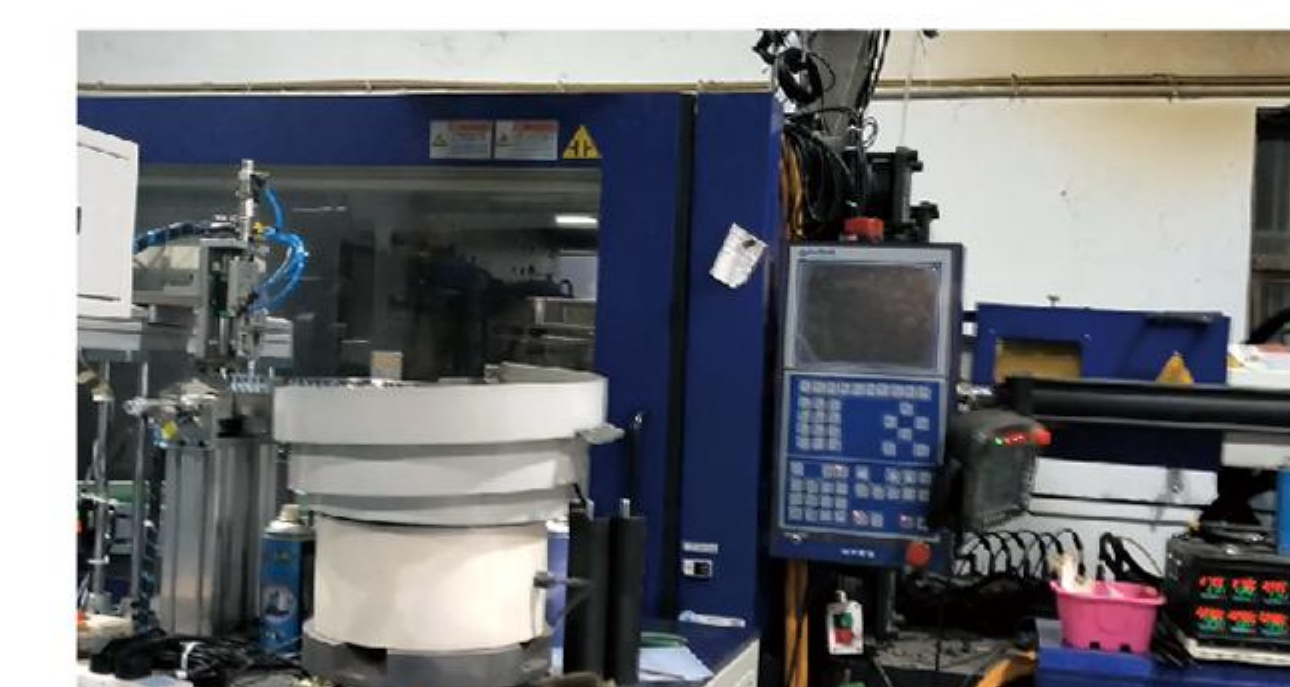
Stamping Process × 合作案例



冲压工艺上的应用 ▶  
Application in Stamping Process



注塑工艺上的应用 ▶  
Application in Injection Molding Process



在大型汽车配件上的应用 ▶  
Application in Large-Scale Automotive Parts



金属埋入异常检测 ▶  
Abnormality Detection of Metal Insertion



Die Casting × 合作案例