博 视 源

Intelligent Mold Monitor

Terminator of Traditional Mold Monitor | Fourth Generation Intelligent Mold Monitor

XIAMEN BOSHIYUAN MACHINE VISION TECHNOLOGY CO,LTD

- Application Scenario

- Product Upgrading

- Application Area

- Configuration

1.Application Scenario

2. Product Upgrade - Hardware Costs

	Third generation mold monitor	Fourth generation intelligent mold monitor
Hardware cost	One injection molding machine is matched with a set of screen host. Purchase multiple units, with a hardware cost of 1 * N	No host or screen design, procurement cost is 80% of the old model. Dozens of terminal devices share a mobile terminal (shell optional tablet/phone) for display and control
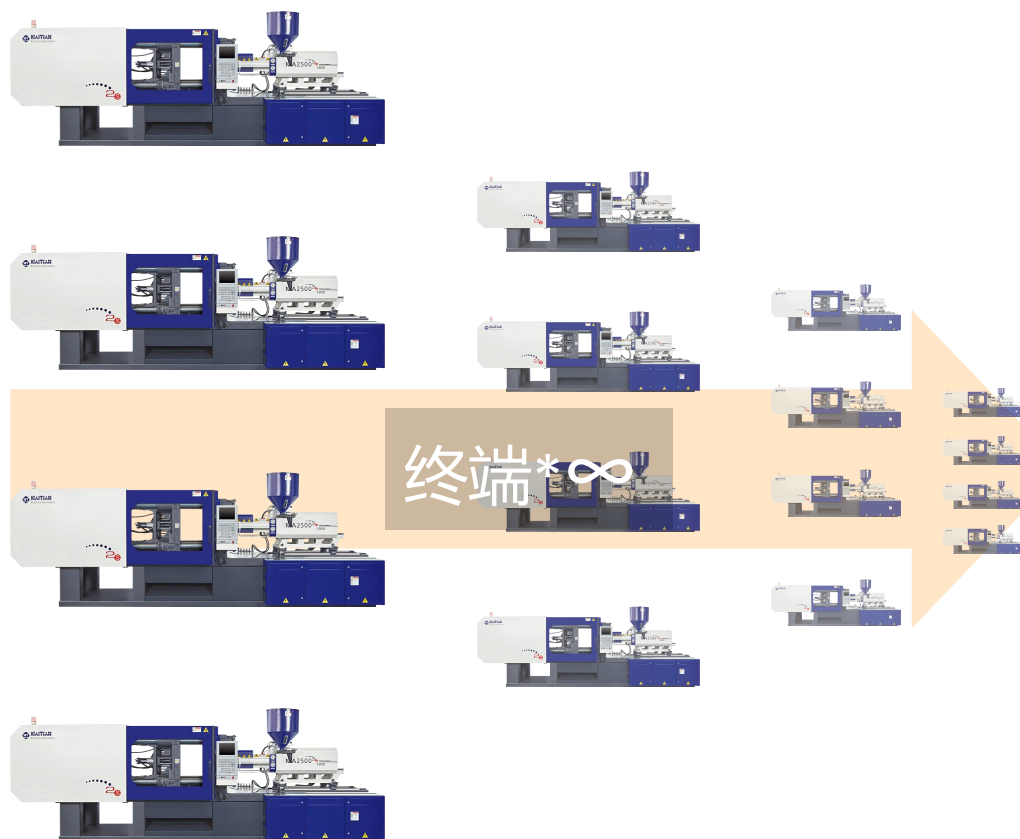
2. Product Upgrade - Labor Costs

	Third generation mold monitor	Fourth generation intelligent mold monitor
Labor costs	Mold monitoring and control require dedicated personnel to be on duty, and each person can supervise ≤ 5 devices	Real time upload of monitoring data, one person can monitor N detection stations, greatly reducing labor costs

Operation station * N
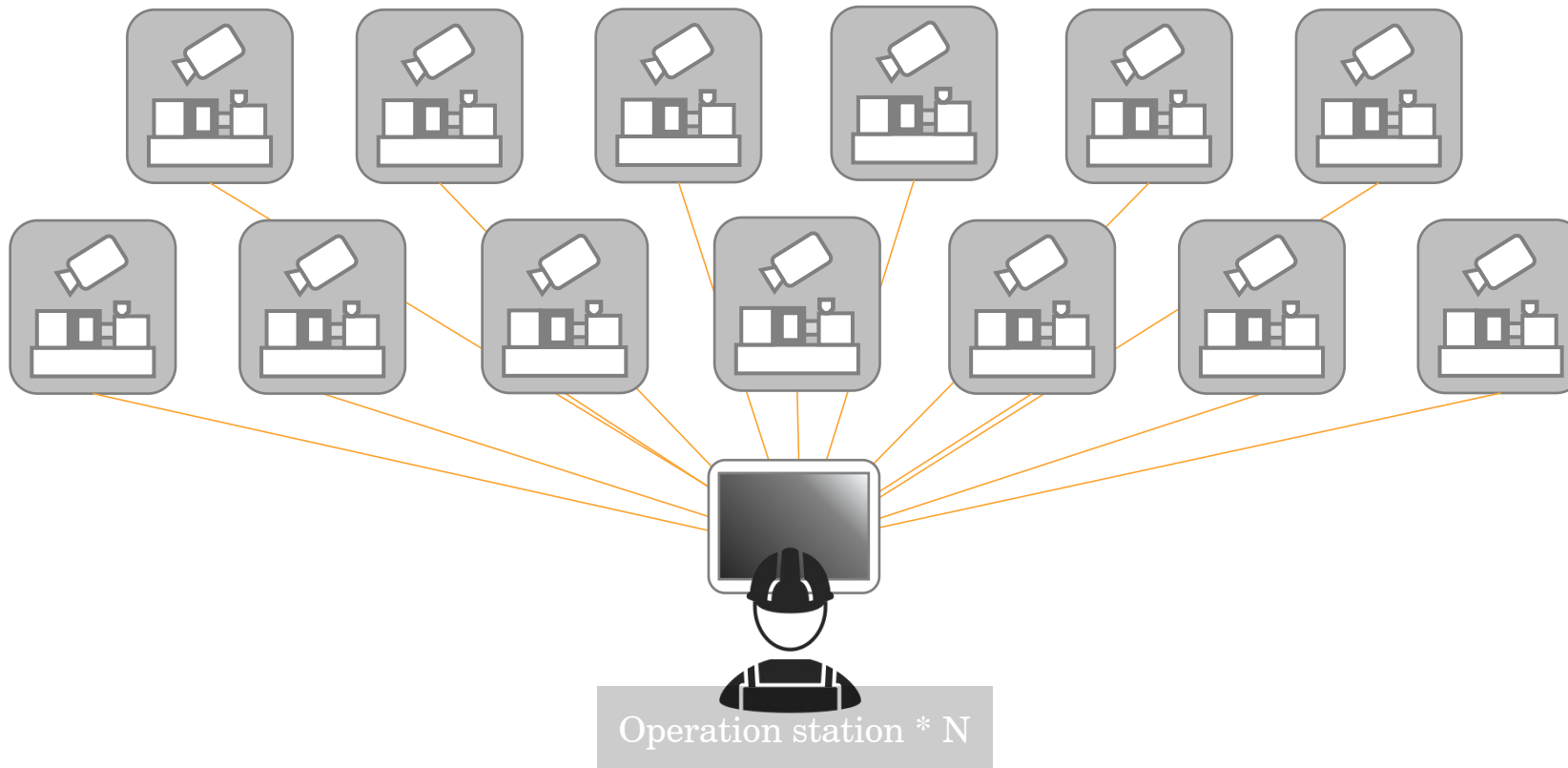
2. Product Upgrade - Establish MES System

| Establish MES system	Third generation mold monitor	Fourth generation intelligent mold monitor
	Unable to create and connect to the Mesh system	Based on wired network layout, terminal connectivity within the workshop can collect real-time monitoring data of injection molding machines 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 a production workshop MES system and upgrading the intelligent workshop.

Wired layout

Wireless transmission

Corporate network

User terminal

Matching quantity switch

Workshop router

Workshop data dashboard

Management Office

Operation workstation tablet wireless monitoring

监控管理系统

设备ID	运行状态	检测总数	OK总数	生产周期	运行时长
BSY-100	运行中	0	0	30分	10小时00分30秒
BSY-101	停机中	0	0	15秒	00小时00分15秒
BSY-102	运行中	0	0	20分	05小时14分23秒
BSY-103	运行中	0	0	30分	8小时07分34秒
BSY-104	运行中	0	0	16分	09小时07分37秒
BSY-105	运行中	0	0	25分	04小时40分20秒
BSY-106	运行中	0	0	20分	08小时25分34秒
BSY-107	运行中	0	0	30分	10小时20分30秒
BSY-108	运行中	0	0	16分	08小时14分36秒
BSY-109	运行中	0	0	26分	04小时07分38秒
BSY-110	运行中	0	0	29分	04小时27分39秒

检测结果/24小时

运行中 100 台 | 停机中 01 台   共50行   11行/页

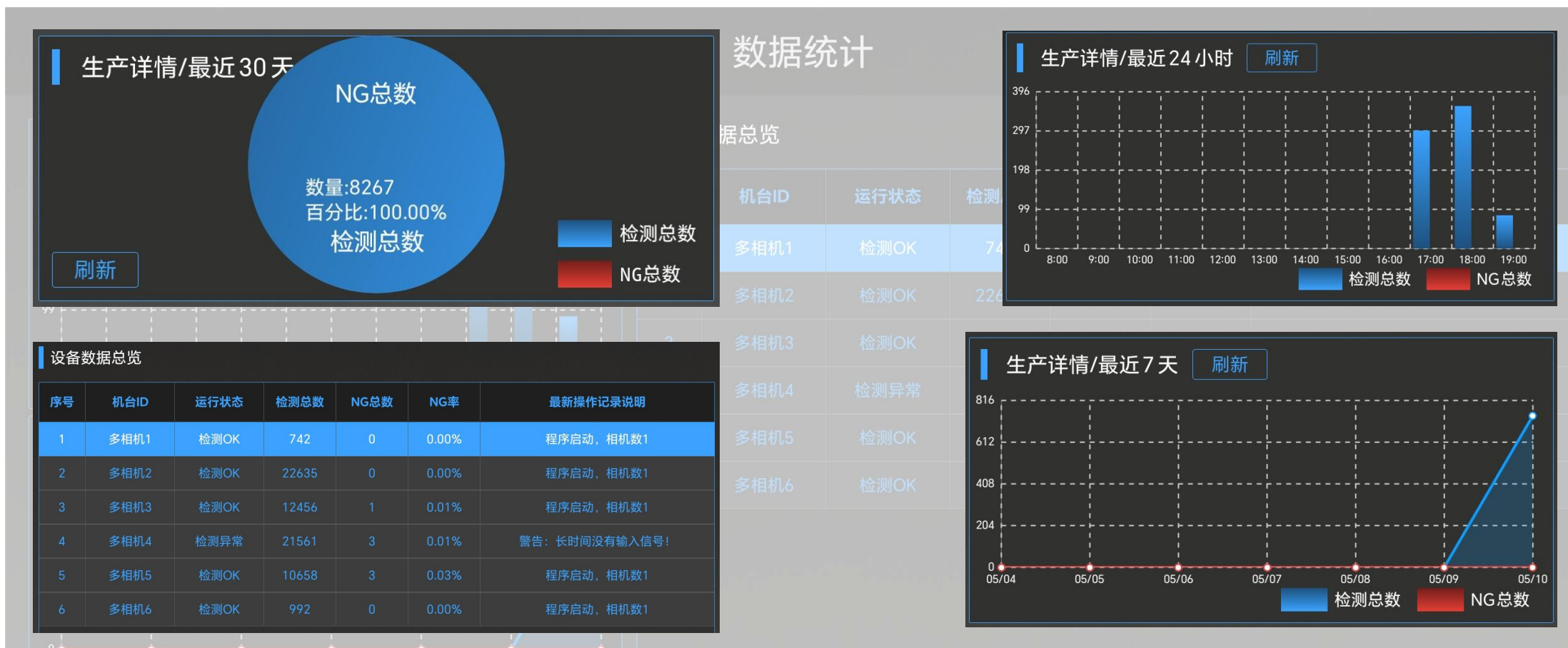# 2. Product Upgrade - Production Efficiency

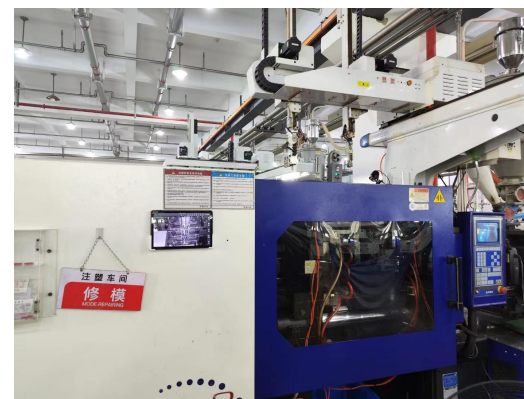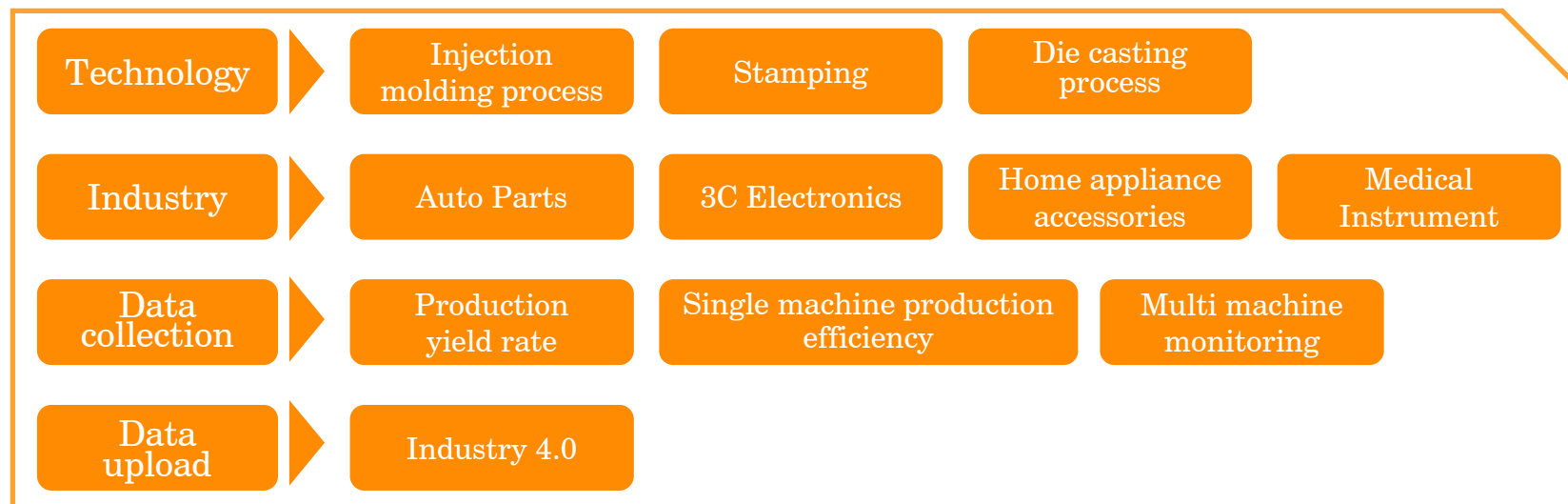|	Third generation mold monitor	Fourth generation intelligent mold monitor
Debugging and upgrading methods	Program issues and system upgrades require engineers to handle them on-site, with latency	Can connect to the internet for online backend debugging and online upgrade
Imaging effect	Traditional industrial cameras have poor imaging clarity in specific low light environments, making it easier to misjudge alarms	Adopting self-developed cameras, further improving imaging resolution and effectively reducing misjudgment rates
Convenience of operation	The operating terminal 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	The operating end is a wireless tablet/phone, and wireless mold monitoring and terminal operation can be carried out through the mobile app within the local area network
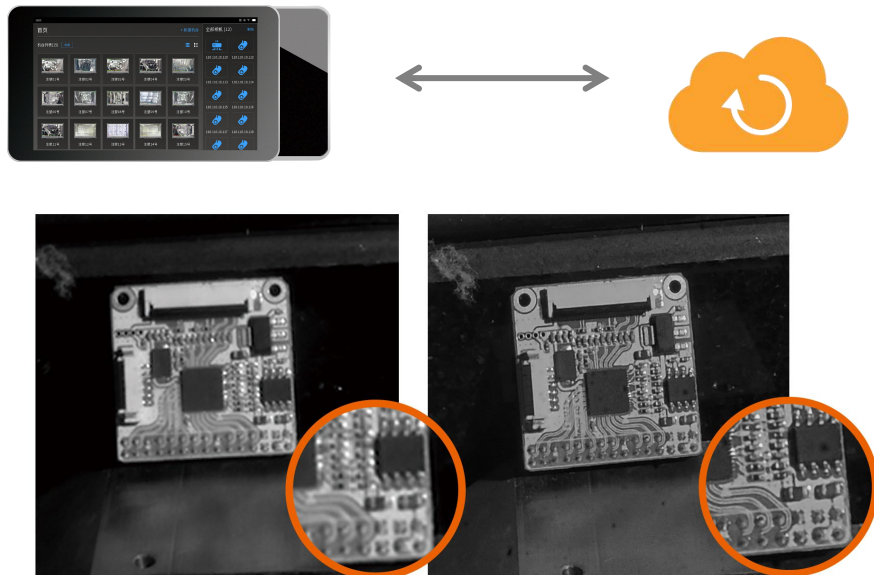
2. Product Upgrade - Data Management

	Third generation mold monitor	Fourth generation intelligent mold monitor
Data managemen	No detailed data statistics function	Real time upload of data, visualization and visualization of data, creating a more intuitive new way of digital collaborative management

数据统计

生产详情/最近30天

NG总数

数量:8267
百分比:100.00%
检测总数

■ 检测总数
■ NG总数

刷新

据总览

机台ID	运行状态	检测
多相机1	检测OK	74
多相机2	检测OK	226
多相机3	检测OK	
多相机4	检测异常	
多相机5	检测OK	
多相机6	检测OK	

生产详情/最近24小时 刷新

检测总数 NG总数

设备数据总览

序号	机台ID	运行状态	检测总数	NG总数	NG率	最新操作记录说明
1	多相机1	检测OK	742	0	0.00%	程序启动，相机数1
2	多相机2	检测OK	22635	0	0.00%	程序启动，相机数1
3	多相机3	检测OK	12456	1	0.01%	程序启动，相机数1
4	多相机4	检测异常	21561	3	0.01%	警告: 长时间没有输入信号！
5	多相机5	检测OK	10658	3	0.03%	程序启动，相机数1
6	多相机6	检测OK	992	0	0.00%	程序启动，相机数1

生产详情/最近7天 刷新

检测总数 NG总数

3. Application field

Technology ▶	Injection molding process	Stamping	Die casting process
Industry ▶	Auto Parts	3C Electronics	Home appliance accessories	Medical Instrument
Data collection ▶	Production yield rate	Single machine production efficiency	Multi machine monitoring
Data upload ▶	Industry 4.0		

Annual sales volume 3000+

4. Equipment configuration

The configuration will be updated irregularly, and shall be subject to the technical agreement or quotation.

Hardware parameters of the fourth generation mold monitor	
CPU	Arm chip
Resolution	1920*1080
Frame rate	30FPS frame rate
Shot	Wide angle to mid focus (12-36mm) lens
Sensor	Stacked CMOS sensor

Available tablet hardware parameters (example)	
CPU	Tianji 8100
Resolution	2560*1600
Screen size	12.1 inches
System	Magic OS 7.0
Battery capacity	10050mAh (typical value)

Fourth generation mold protection configuration list	Brand	Specifications	Unit
Ipad	Lenovo/Honor (optional)	10.1 inches	Tower
AP panel/router	TP LINK (optional)	kilomega	Individual
IO power communication box	Boshiyuan Customization	PA-1017 (4+1 network)	Individual
IO communication line	Boshiyuan Customization	IL-1240	Strip
IO communication box power cord	Boshiyuan Customization	PL-302	Strip
Smart camera	Boshiyuan Customization	BC-432	Individual
High flexible network cable	Boshiyuan Customization	Super five categories	Strip
Industrial lens	Boshiyuan Customization	BLE-801	Individual
Complete set of magnetic seats	Boshiyuan Customization	MB-905	Cover
Infrared light source	Boshiyuan Customization	BL-210I	Individual
Infrared light source power cord	Boshiyuan Customization	PL-L02	Strip
Relay	Omron	MY2N (with base)	Individual
Instructions	Boshiyuan Customization	Paper printing	Individual

Thanks You !

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