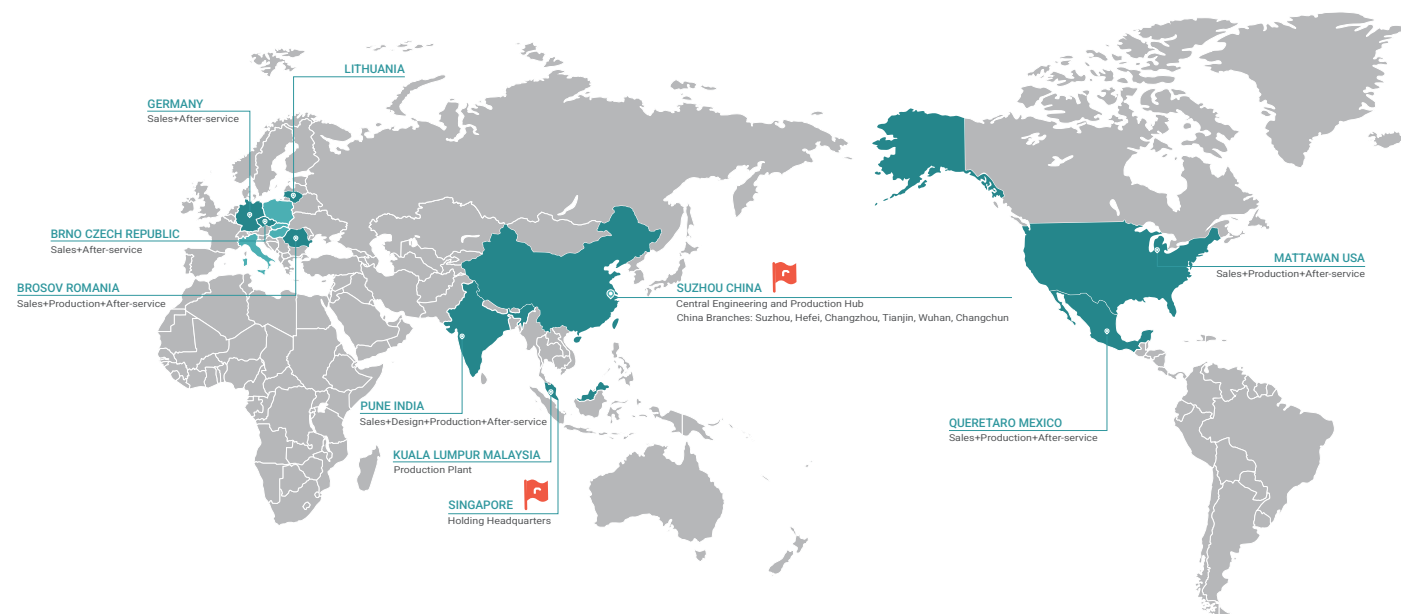


Global Layout



Medical and Pharmaceutical Industries One-stop Smart Manufacturing Solution

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About Us

One-stop Smart Manufacturing Solution Provider

ruhlamat Group is a world-leading One-stop Smart Manufacturing Solutions Provider, delivering integrated automation and digitalization solutions to global manufacturing clients.

Founded in Germany in 1991, ruhlamat established its China branch in Suzhou in 1998. Through over two decades of dedicated expansion, ruhlamat has evolved into a global corporate group, comprising ruhlamat Automation Technologies (Suzhou) Co., Ltd. and its subsidiaries and affiliated companies across the Asia Pacific, Europe and North America regions. In 2025, Centurium Capital completed the acquisition of the Group's shareholding through ruhlamat (Singapore), which was set up by Centurium Capital's offshore US dollar fund.

As a global intelligent manufacturing enterprise, ruhlamat Group operates subsidiaries and branches in Mexico, Czech Republic, Romania, India, Malaysia, and multiple Chinese cities including Suzhou, Hefei, Changchun, Changzhou, Tianjin, and Wuhan. The group boasts 9 production bases and 2 sales & service centers. Its business spans automation solutions, digital solutions, and standard products (servo presses, conveyor systems, and industrial aluminum profiles). Integrating process R&D, design, assembly, testing, sales, and service, ruhlamat offers comprehensive end-to-end solutions for clients in the field of traditional automotive parts, new energy vehicle parts, hydrogen energy parts, medical, consumer electronics, home appliances, and other industrial sectors.

With over 25 years of development, ruhlamat Group integrates the excellent genes of German manufacturing and at the same time fully utilize the efficient advantages of Chinese manufacturing. This combination has earned us high recognition from global leaders in automotive parts and medical devices. Through excellent internal operation management and efficient synergies, a robust global network, and efficient cross-border collaboration, the group delivers high-quality, agile services to empower clients in their intelligent manufacturing transformation, co-creating a smarter and brighter future.

Application Field

Insulin - Insulin Pump - Insulin Pen - Weight Loss Needles	New Drug Delivery Systems - Active Ultrasonic Nebulizers - Soft Mist
IVD - Biological Kit - Pregnancy Test Rods - IVD Industry Diagnostic Reagents - Calibrator	Blood - Blood Bags & Waste Liquid Bag - Peritoneal Dialysis Bag - Infusion Joint (Y shape) - Dialysis Machine Accessories
Interventional Instruments - Stapler - Staple Cartridge - Perforators - PI & PTFE - Syringe - Balloon Catheter	Others - Osmotic Pump Tablets - Gel - Indwelling Needle - API - Aerosol Aluminum Can

Partners

Digital Solutions

Smart Machine



- MMS (Machine Management System)
- Predictive Maintenance

Smart Factory



- MES System for Workshop Level
- TPM (Total Productive Maintenance)
- Andon

Smart Line



- LMS (Line Management System)
- PPM (Process Performance Management)
- L-WMS (Line-Warehouse Management System)
- PCS (Production Control System)
- Andon

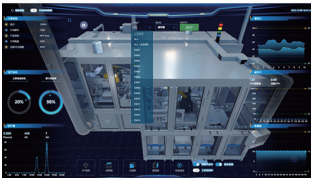
Sustainable Manufacturing



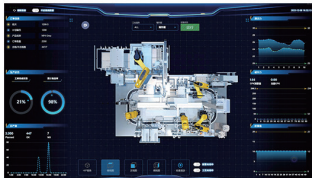
- Energy Data Acquisition and Monitoring
- Cognitive AI Algorithms
- Energy-saving Optimization Strategies
- Energy-efficient Controlling

Digital Twin

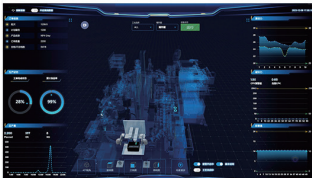
Digital Twin System - Through twin technology, on site 3D visualization and simulation synchronization are realized, which improves the efficiency of diagnosis and repair and increases the readability of information. Data intelligence covers technical services including data planning, data collection, data ETL, data analysis, data visualization and other processes. In addition, AI and big data analysis technologies are used to realize predictive analysis of quality and equipment abnormalities.



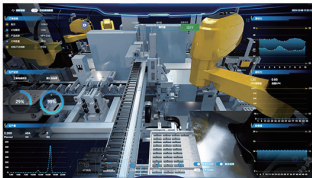
Workstation Switching



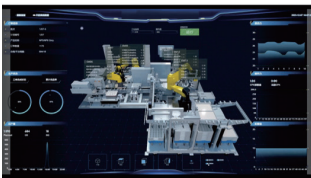
Perspective Swapping



3D Virtualization



Visualized Charts



Machine Process Indices Monitoring



Workstation Roaming



3D Explosion Display



Alarm Visualization

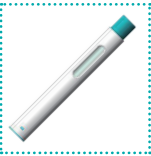
2-step Autoinjector Platform-based Automated Pre-assembly Production Line

Introduction

This fully automated assembly and inspection line allows for synchronized production during the development phase of a new product, significantly reducing the product development costs and cycles.

Output

50-55 pcs / min

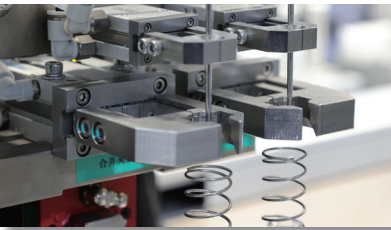
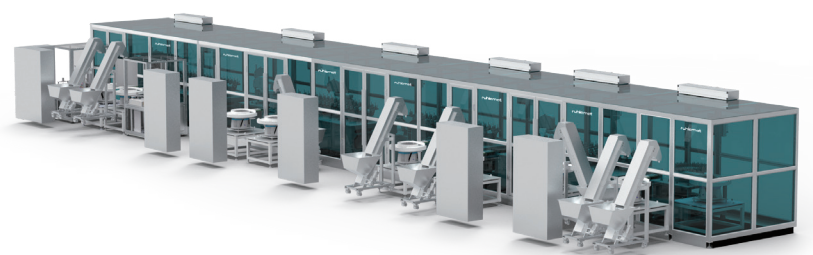


Key Process

- Automatic assembly
- Automatic loading
- Press test
- Apply silicone oil
- Pressure test
- Length detection
- Laser detection
- Vision detection

Key Features

- High product compatibility
- Modular design
- Fully automatic production
- High-precision magnetic levitation conveying platform
- Traceable production process



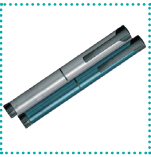
New Housing Machine

Introduction

This automated production line for durable insulin injection pens enables fully automatic assembly and testing of the injection pen barrel and the indicator window.

Output

1200 pcs / h

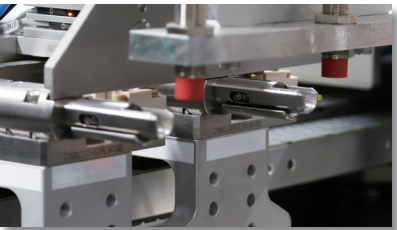


Key Process

- Plasma surface treatment
- Gluing
- UV hardening
- Vision detection
- Laser detection

Key Features

- Fully automatic production
- Non-stop feeding
- Noise < 65dB
- High-precision magnetic levitation conveying platform
- Digital twin
- Intelligent MES management



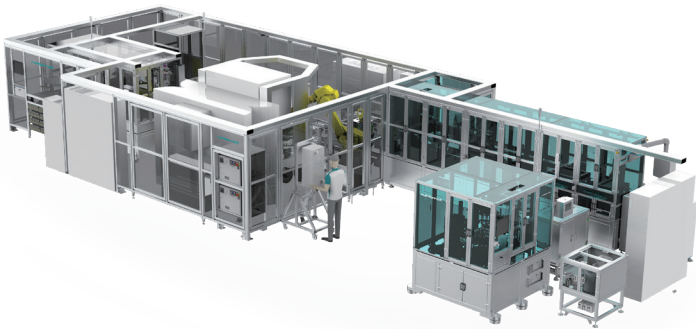
Insulin Injection Parts Assembly and Testing Line

Introduction

This line has an integrated overall defect detection and monitoring system, achieving zero-defect production. Making the production more convenient and reliable.

Output

4800 pcs / h

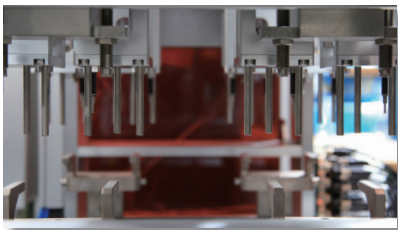
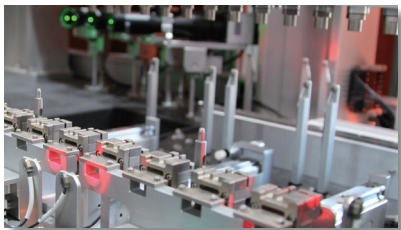


Key Process

- Vision detection
- Injection molding
- LVDT detection
- Induction heating
- Cooling

Key Features

- High precision positioning
- Fully automatic production
- Non-stop feeding
- Production process real-time monitoring
- Traceable production process
- GMP clean design



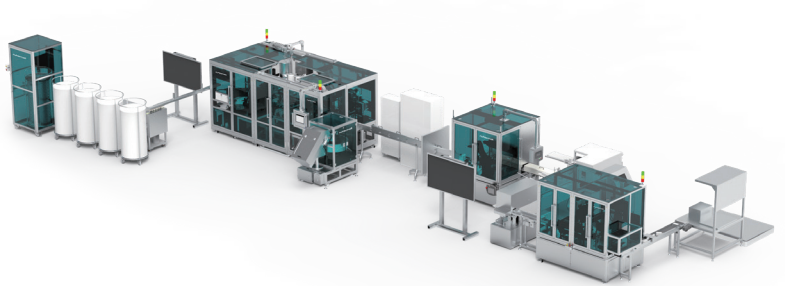
Biological Kit Automatic Filling and Packaging Line

Introduction

This automated production line for biological test kits includes the process of automatic: API delivery, filling, online weighing, boxing, labeling and coding.

Output

600 pcs / h

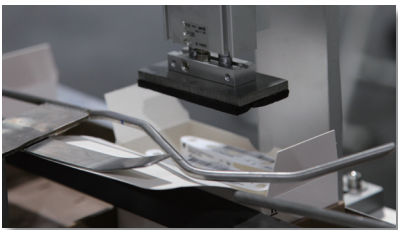


Key Process

- Filling
- Labeling
- Weighting
- Packing
- Hot sealing foam
- Vision detection
- Laser coding
- Laser cutting
- POKA - YUKE
- Digital tracking

Key Features

- Flexible production
- Non-stop feeding
- GMP clean design
- 316L stainless steel
- Intelligent interface integration
- Traceable production process



Appearance CCD Inspection Equipment

Introduction

This line is applied for defect detection of insulin pump accessories.

Output

8 pcs / 7s



Key Process

- Vibratory feeding
- Defects vision inspection
- Automatic sorting of defective products

Key Features

- Soft feeding by vacuum adsorption
- No blind spots, 360° detection
- Traceable production process



Calibrator Filling Line

Introduction

This automatic production line includes the processes of automatic: filling, capping, defect rejection, coding, and labeling.

Output

720 pcs / h



Key Process

- Filling
- Cap tightening

Key Features

- Flexible production
- GMP clean design
- Intelligent interface integration



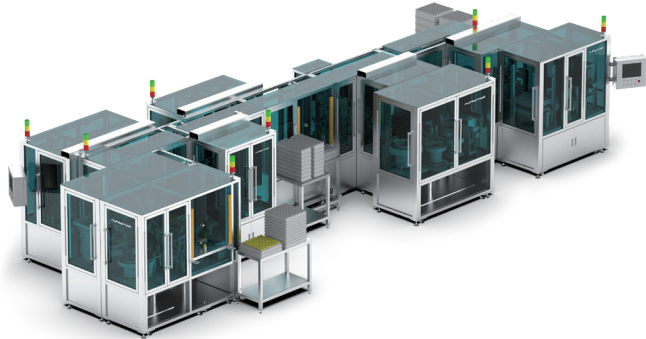
Handheld Soft Mist Inhaler Automatic Assembly Line

Introduction

This automated production line of passive portable soft mist inhaler includes the processes of automatic: assembly, online torque monitoring and adaptive adjustment, and online performance testing.

Output

600 pcs / h

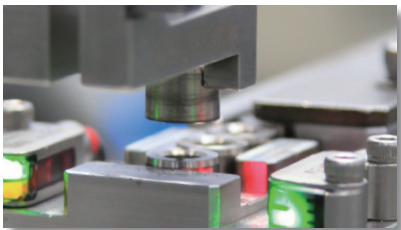
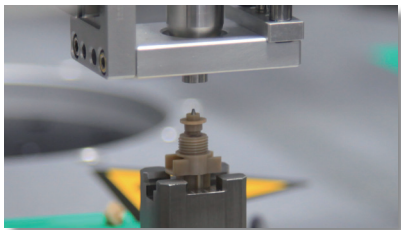


Key Process

- Check valve testing
- Valve core cutting
- Precise torque tightening
- Spring assembly
- Provocation test
- Components assembly

Key Features

- Flexible production
- Non-stop feeding
- GMP clean design
- 316L stainless steel
- Intelligent interface integration



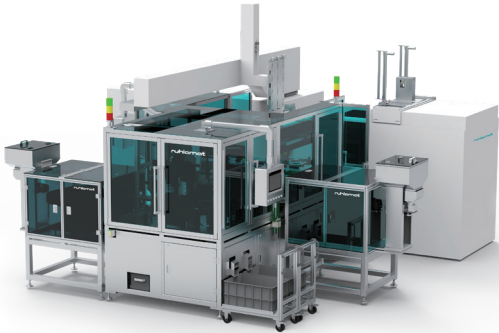
Luer Taper Assembly Line

Introduction

This line automates assembly, height inspection, and defect detection of products. The injection molding machine is automatically connected for efficient and stable docking, reducing material turnover.

Output

48 pcs / 20s



Key Process

- Automatic loading and unloading
- Vision detection
- Components assembly

Key Features

- High speed automatic production
- Non-stop feeding



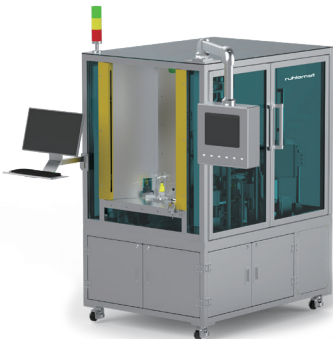
Soft Mist Inhaler Testing Equipment

Introduction

This equipment adopts a six-station turntable design to automatically detect the spray shape, spray height, spray time, device button pressure and screw torque and other parameters.

Output

11s / pcs

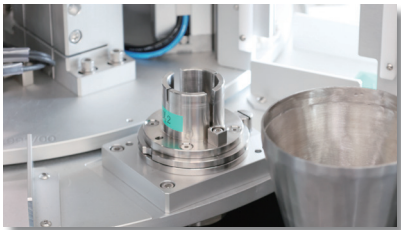
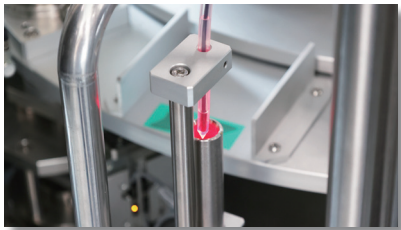


Key Process

- Spray height detection
- Spray angle detection
- Automatic liquid supply
- Press pressure test
- Torque test

Key Features

- Efficient and fully automatic testing
- High detection accuracy
- Intelligent MES management



Syringe Auto Loading System

Introduction

This line is used for fully automatic loading and non-stop feeding of syringes, achieving high-efficiency and high-stability production docking.

Output

6 pcs / s



Key Process

- High-speed feeding and sorting with a centrifugal disc
- High-speed handling

Key Features

- Modular design
- Fully automatic flexible production
- Non-stop feeding



Infusion Set with Precision Filter Assembly and Testing Line

Introduction

This line adopts punching and ultrasonic welding technology to achieve precise assembly and testing of the products, integrates automatic feeding, cutting and ultrasonic welding, and is suitable for mass production.

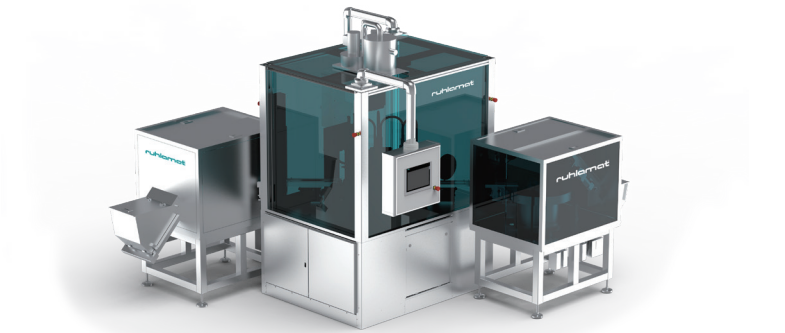
Output

4800 pcs / h



Key Process

- Precision feeding
- Precision cutting
- Ultrasonic welding
- Vision detection



Key Features

- High precision positioning
- Touchscreen operation interface
- Reliable operation, easy to operate and maintain



Staple Cartridge Visual Inspection Equipment

Introduction

This equipment is used to visual defects of titanium staple, staple pushers, staple cartridge surfaces, staple push plate and brackets.

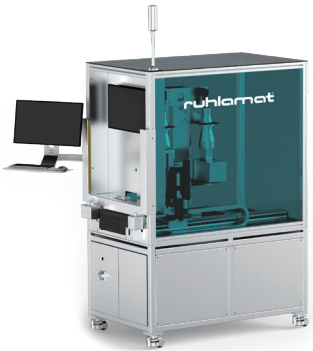
Output

1 pcs / 10s



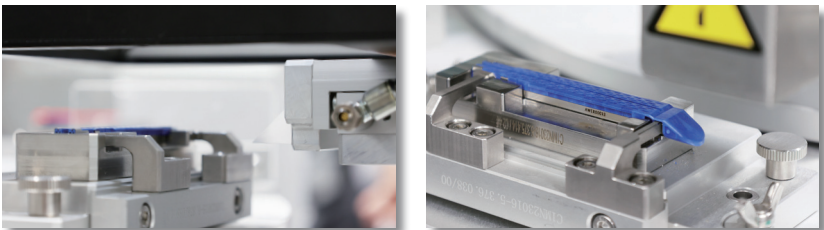
Key Process

- Component installation detection
- Surface defect detection
- Component deformation detection



Key Features

- Fully automatic detection
- High detection accuracy
- High product compatibility
- Intelligent detection system



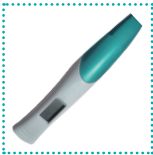
Test Paper Spraying and Testing Equipment

Introduction

This equipment enables fully automatic spray processing and testing of IVD test strips. It is also equipped with a digital management system, which enables functions of batch management, audit trail and information management.

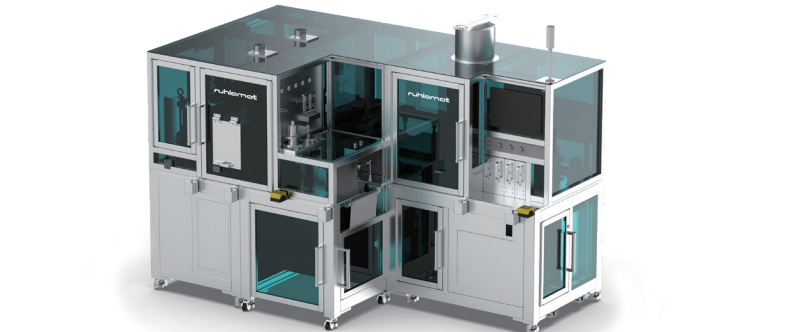
Output

1 pcs / 5s



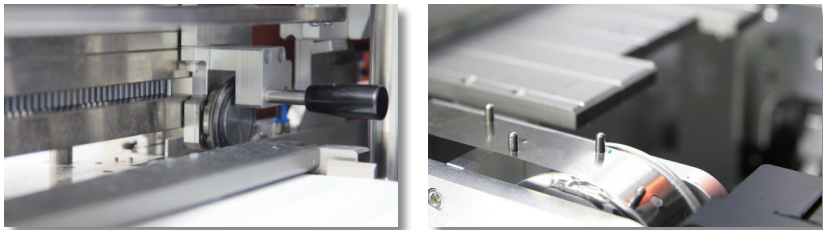
Key Process

- Latex spraying
- Drying
- Punching cutting
- Trimming cutting
- Vision detection



Key Features

- Modular design
- Fully automatic flexible production
- Automatic feeding
- Digital management system



Gel Vacuum Filling Machine

Introduction

This line is applied for filling of external preparations. It enables fully automatic vacuum filling, including a high-speed bottle unscrambling system, 10-head servo filling system, gel transfer tank, vacuum capping system and turntable, etc.

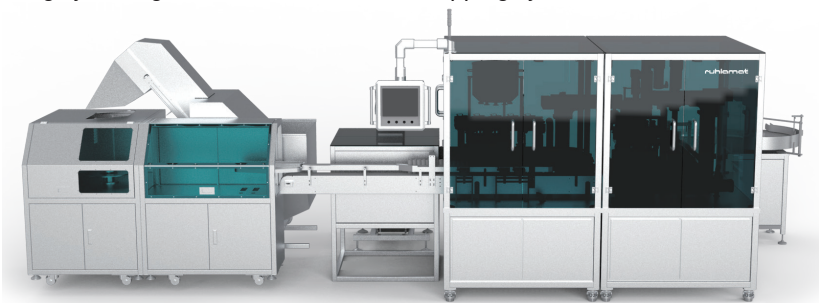
Output

90 bottles / min



Key Process

- Bottle sorting
- Gel filling
- Vacuum capping



Key Features

- Fully automatic flexible production
- Non-stop feeding
- Intelligent MES management

