



Paint Production Line



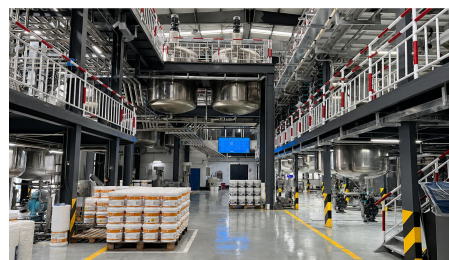
About MAHACINA

MAHACINA: An Industrial Platform for Globalized, Localized Coatings Manufacturing

From Accumulated Chemical Expertise to Local Manufacturing Capabilities

MAHACINA was born out of a deep, long-term understanding of the fundamental logic underpinning the coatings and chemical industries. Over the past decade, we have continuously accumulated expertise in formulations, materials, manufacturing processes, laboratory testing, production management, digital operations, and cross-regional delivery. Through this process, we have gradually established a localized manufacturing system specifically designed for replication across overseas markets.

Leveraging an S2B2b2C business model and modular factory technologies, we bridge China's mature coatings manufacturing expertise—including its core raw material supply chains, standardized formulation systems, and digital management tools—directly to local markets worldwide. This enables our partners to establish their own coatings manufacturing capabilities with significantly reduced trial-and-error costs.



01 Intellectual Property

Core technologies with independent intellectual property rights



02 Advanced Technology

Always maintain the industry's leading technological standards.



03 Complete Plant Design

We provide comprehensive plant design, process engineering, automated equipment, and smart workshop management software.



04 Frontier Technology

Industry 4.0, Internet of Things, Cloud Computing, and Real-time Information Sharing

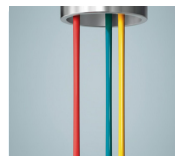
16-Head Color Dispenser



Product Features

- Capable of storing formulas and recording the entire production process
- Replacing manual labor with high returns and reducing reliance on paint adjusters
- Independent mixing system can prevent the color paste from solidifying
- The highest color accuracy can reach 0.015ml
- Compatible with water-based and oil-based colorants
- Compatible with color matching software on the market

Product Features



Color paste injection:
two optional metering
modes, volumetric and
gravimetric.



Moisturizing cover:
Keep moist by adding
solvent with excellent
airtightness.



Tank optional stainless
steel or plastic
Solvent-resistant pipes
Built-in stirring blades for
regular automatic stirring
to prevent solidification



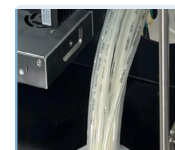
Nozzle spool:
1.5/2/2.5mm
Suitable for color pastes
of different viscosities
Back suction function to
reduce sagging



Low-resistance oil-free
lubrication piston pump
25mm, 500CC/min, 0.015ml
20mm, 300CC/min, 0.01ml
15mm, 150CC/min, 0.008ml



POM sealed tank cover
Excellent sealing
performance



Color paste backflow
pipe
Wear-resistant and
solvent-resistant

Technical Parameters

Configuration	Low-friction oil-free piston pump	Paint Bucket (Size)	Diameter ≤ 500mm, Height ≤ 800mm
Accuracy	1/2000Y	Lifting platform	Optional electric type
Efficiency	500ml/min*8	Equipment dimensions	900×850×1300mm (Width×Depth×Height)
Quantity	16(Customizable)	Packing dimensions	1000×900×1500mm (Width×Depth×Height)
Capacity	2.6L*10, 6L*6	Power	268W
Material	Stainless steel / POM tank body	Power supply	220V

24-Head Color Dispenser



Product Features

- Replacing manual labor with high returns and reducing reliance on professional paint adjusters
- Capable of storing formulas and recording the entire production process
- Independent mixing system can prevent the color paste from solidifying
- The highest color accuracy can reach 0.015ml
- Compatible with water-based and oil-based colorants
- Compatible with color matching software on the market

Product Features



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two optional metering
modes, volumetric and
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Tank optional stainless
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Solvent-resistant pipes
Built-in stirring blades for
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to prevent solidification



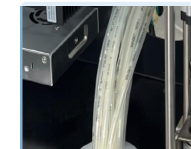
Nozzle spool:
1.5/2/2.5mm
Suitable for color pastes
of different viscosities
Back suction function to
reduce sagging



Low-resistance oil-free
lubrication piston pump
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POM sealed tank cover
Excellent sealing
performance



Color paste backflow
pipe
Wear-resistant and
solvent-resistant

Technical Parameters

Configuration	Low-friction oil-free piston pump	Paint Bucket (Size)	Diameter ≤ 500mm, Height ≤ 800mm
Accuracy	1/2000Y	Lifting platform	Optional electric type
Efficiency	500ml/min*8	Equipment dimensions	900×850×1300mm (Width×Depth×Height)
Quantity	24(Customizable)	Packing dimensions	1000×900×1500mm (Width×Depth×Height)
Capacity	2.6L*16, 6L*8	Power	268W
Material	Stainless steel POM tank body	Power supply	220V

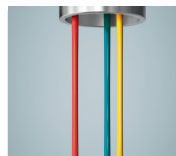
Laboratory Color Dispensing Machine



Product Features

- Replacing manual labor with high returns and reducing reliance on professional paint adjusters
- Capable of storing formulas and recording the entire production process
- Independent mixing system can prevent the color paste from solidifying
- The highest color accuracy can reach 0.015ml
- Compatible with water-based and oil-based colorants
- Compatible with color matching software on the market

Product Features



Color paste injection:
two optional metering
modes, volumetric and
gravimetric.



Moisturizing cover:
Keep moist by adding
solvent with excellent
airtightness.



Tank optional stainless
steel or plastic
Solvent-resistant pipes
Built-in stirring blades for
regular automatic stirring
to prevent solidification



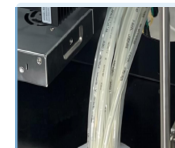
Nozzle spool:
1.5/2/2.5mm
Suitable for color pastes
of different viscosities
Back suction function to
reduce sagging



Low-resistance oil-free
lubrication piston pump
25mm, 500CC/min, 0.015ml
20mm, 300CC/min, 0.01ml
15mm, 150CC/min, 0.008ml



POM sealed tank cover
Excellent sealing
performance



Color paste backflow
pipe
Wear-resistant and
solvent-resistant

Technical Parameters

Configuration	Low-friction oil-free piston pump	Paint Bucket (Size)	Diameter ≤ 500mm, Height ≤ 800mm
Accuracy	1/2900Y	Lifting platform	Optional electric type
Efficiency	500ml/min*8	Equipment dimensions	1000x830x1300mm (width x depth x height)
Quantity	16(Customizable)	Packing dimensions	1100x900x1500mm (width x depth x height)
Capacity	2.6L*16,	Power	268W
Material	Stainless steel / POM tank body	Power supply	220V

Explosion-proof Color Mixing Machine

Product Features



Color paste injection:
two optional metering
modes, volumetric and
gravimetric.



Moisturizing cover:
Keep moist by adding
solvent with excellent
airtightness.



Stainless steel tank body
Solvent-resistant pipes
Built-in stirring blades for
regular automatic stirring
to prevent solidification



Nozzle valve core: 2.5mm
Suitable for color pastes of
different viscosities
Back suction function to
reduce sagging



Low-friction oil-free piston
pump
25mm, 500CC/min, 0.015ml



POM sealed tank cover
Excellent sealing
performance



Color paste backflow
pipe
Wear-resistant and
solvent-resistant



Product Features

- Replacing manual labor with high returns and reducing reliance on professional paint adjusters
- High color accuracy, fast and stable, reducing paint waste
- Pneumatic mixing system can prevent the color paste from solidifying
- The color paste tank is sealed unidirectionally to prevent solvent evaporation
- Explosion proof system valve, explosion-proof motor, explosion-proof electrical cabinet
- Suitable for mass production of color matching lines

Technical Parameters

Configuration	Low-friction oil-free piston pump	Paint Bucket (Size)	Diameter ≤ 500mm, Height ≤ 800mm
Accuracy	1/2000Y	Lifting platform	Match with rolling platform for use
Efficiency	600ml/min*8	Equipment dimensions	2300x1120x1400mm (width x depth x height)
Quantity	16(Customizable)	Packing dimensions	2400x1200x1600mm (width x depth x height)
Capacity	8L*8, 18L*8	Power	Oil-based Workshop
Material	Stainless steel	Power supply	220V

Central Rotary Injection Station

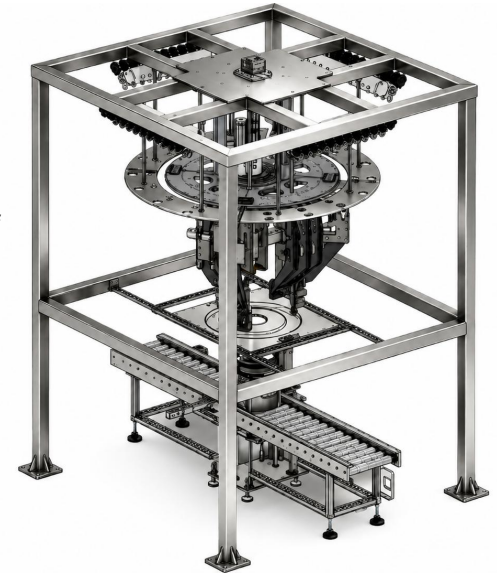


Product Features

- Precision flow control system for precise material injection
- 7-level opening nozzle, mechanical seal stable and durable
- Central rotating mechanism, material is added at the center position
- Built in formula management system, data recording and analysis
- The human-machine interface is simple and intuitive, and the operation is convenient
- Can reserve interfaces with ERP, DCS, MES

Product Features

- The receiving vessel accommodates containers ranging from 1 to 20 liters, 200-liter drums, and mixing tanks.
- The weighing system offers a choice of bench scales, floor scales, or roller conveyor lines.
- Nozzle diameters are available in 3/4-inch, 1-inch, and 2-inch sizes; the 3/4-inch nozzle achieves a precision of up to 0.01 grams.
- Enables precise material dispensing, ensuring consistent quality control across every production batch.
- Advanced energy management technology optimizes energy consumption and reduces production costs.



Technical Parameters

Nozzle diameter	6 minutes/1 inch/2 inches	Efficiency	1寸1000L/h 2寸6000L/h
Suitable container	1-20L small bucket, 200L large bucket, pull cylinder	Accuracy	6分0.01g、1寸0.1g、2寸1g
Gas source	0.5Mpa	Weighing range	Small bucket 0-50kg, pull cylinder 10-2000kg
Inject valve	7-segment valve	Equipment size	2000x2000mm (height customizable)
Number of injection heads	16/36/48/100 (customized according to materials)	Weighing System	Mettler Toledo
power supply	380V		

Fully Automatic Mixer



Product Features

1. High efficiency: Mix quickly in one minute,
2. One click operation: automatic recognition of large and small buckets, intelligent allocation of pressure and speed.
3. High bucket position: can mix paint buckets up to 50cm
4. Automatic unlocking: No need to bend down to retrieve the bucket, convenient and fast.
5. Automatic unlocking: No need to bend down to retrieve the bucket, convenient and fast.
6. Open Space: Stand up and open the door without bending over, reducing labor intensity.

Technical Parameters

Pressure plate height	60-520mm	Packaging Dimensions	1030X1020X1360mm
Mixing time	30-900 seconds, in 30-second increments.	Net Weight	265KG
Mix weight evenly	40kg	Gross Weight	300kg
Mixing speed	150/185/240rpm	Power Supply	220V/110V 50Hz/60Hz
Mixing range	Volume: 1-20 L	Rated Power	1.5kW

Palletizer



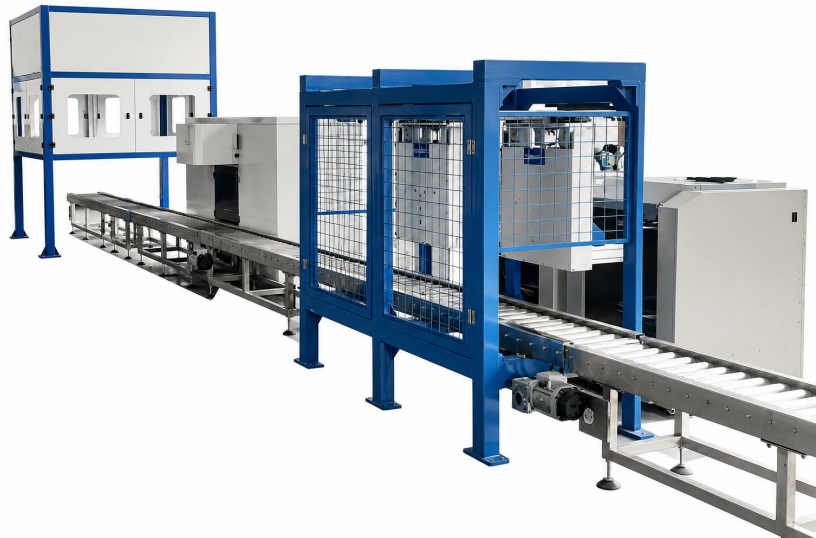
Product Features

1. Bucket positioning grabbing palletizing achieves a simple and efficient palletizing method.
2. Programmable control, adjustable parameters such as bucket height and stacking spacing to adapt to stacking of different bucket sizes.
3. Driven by servo motor, with high repeatability and positioning accuracy.
4. The system automatically controls palletizing without any protocol, making it easy to connect.
5. Removable design enables one machine to be used for multiple purposes, adapting to the needs of different venues.

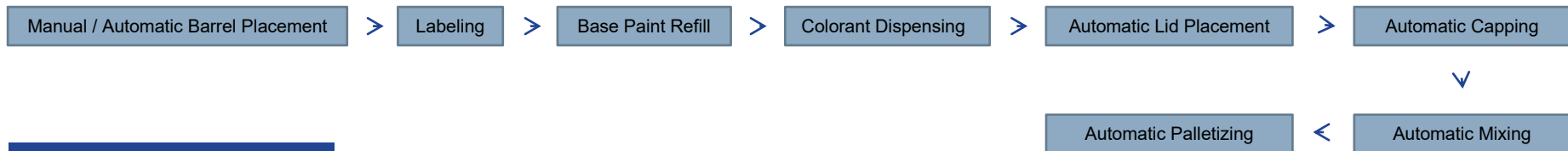
Technical Parameters

Palletizing Efficiency	12 barrels/min	Rated Power	4kw
Conveying Speed	5000mm/min	Pallet Dimensions	1000 x 1200 x 150 mm 1200 x 1200 x 150 mm
Air Source	0.6 Mpa	Compatible Drum Dimensions	φ300-340mm H300-380mm
Air Consumption	0.5m³/min	Power Supply	AC380V±10% 50HZ

Automated Color-Matching Production Line



Process Flow



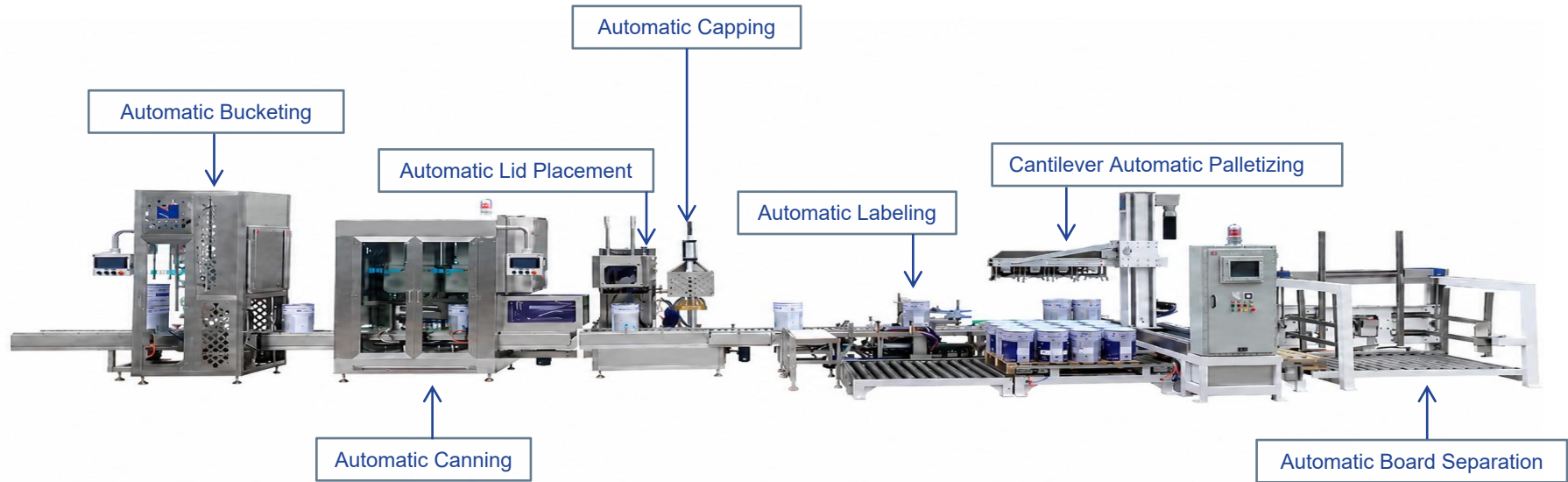
Complementary Advantages

- The central rotary injection station adopts a precise flow control system, which can achieve accurate material injection.
- Automatic color grading machines can provide high-capacity, real-time, accurate, and customized color grading services.
- Realize automatic feeding and capping, with high accuracy (close to 100%) and adjustable speed, suitable for plastic and metal drums.
- The robotic arm automatically holds the bucket and places it in, rotating and revolving simultaneously; There are single and bidirectional rotation mixed modes to choose from.
- The entire process from empty barrels to finished barrels enables fast, waste free, and low-cost production of customized products without occupying inventory.

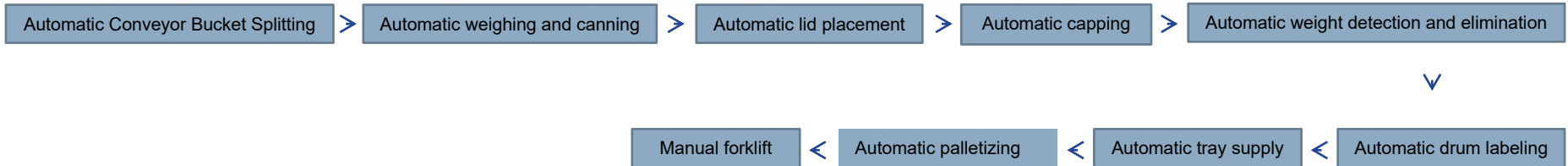
Product Features

- Comprehensive optimization from efficiency to cost
- Data management is more convenient
- Adapt to multiple batches of small batch orders
- Eliminate fluctuations in personnel, raw materials, formulas, etc
- Empty bucket color matching, production according to orders, waste rate, and remaining inventory are all zero
- Both production and material replenishment have foolproof designs to avoid errors

Automated Canning and Palletizing Line



Process Flow



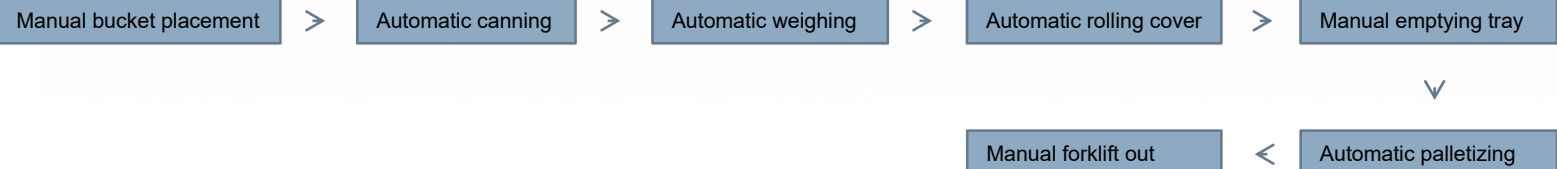
Technical Parameters

Weighing range	30KG	Canned specifications	Diameter 270 x Height 380 (mm)
Division value	1g、2g、5g、10g	Power supply	380V
Accuracy level	X (0.5) level	Gas source	0.6-0.8MPa
Filling speed	8-10 barrels per minute	Overall dimensions	12000 x 4000 x 2400 (mm)
Power	8KW		

Automated Canning and Palletizing Line



Process Flow



Technical Parameters

Weighing range	30KG	Canned specifications	≤ Diameter 300 x Height 400 (mm)
Division value	1g、 2g、 5g、 10g	Power Supply	AC380+10% 50HZ
Accuracy level	X (0.5) level	Gas source	>0.5MPa
Canning speed	4-6 barrels per minute	Overall dimensions	4000 x 2500 x 2200 (mm)
Power	7KW		

20L Automatic Filling Machine



Product Features

1. Single head filling;
2. Adopting instrument control;
3. Automatic capping;
4. Digital input setting weight;
5. Timely display of weighing values;
6. Can set and store ten formulas;
7. Two filling methods: net weight and gross weight;
8. Automatic zero position tracking;
9. Fast/slow second level feeding speed;
10. Explosion proof configuration;
11. Automatically determine replenishment to prevent material overflow;
12. Optional pump feeding;
13. The incoming material comes with a buffer material tank and liquid level float ball control.

Technical Parameters

Weighing range	≤30KG	Tank specifications	≤ 300 x height 400 (mm)
Division value	1g、2g、5g、10g	Power Supply	AC220+10% 50HZ
Accuracy level	X (0.5) level	Gas source	>0.5MPa
Canning speed	3-4 barrels per minute	Overall dimensions	1000 x 700 x 1400 (mm)
Power	100W		

1–5L Automatic Filling Machine



Product Features

1. Single head filling;
2. Adopting instrument control;
3. Automatic capping and automatic bucket discharge;
4. Digital input setting weight;
5. Timely display of weighing values;
6. Can set and store ten formulas;
7. Two filling methods: net weight and gross weight;
8. Automatic zero position tracking;
9. Fast/slow second level feeding speed;
10. Explosion proof configuration;
11. Automatically determine replenishment to prevent material overflow;
12. Optional pump feeding;
13. Incoming materials with buffer material tank, liquid level float ball control;

Technical Parameters

Weighing range	≤10KG	Tank specifications	1–5L
Division value	1g、2g、5g、10g	Power Supply	AC220+10% 50HZ
Accuracy level	X (0.5) level	Gas source	>0.5MPa
Canning speed	3-6 barrels per minute	Overall dimensions	1000 x 1200 x 1400 (mm)
Power	100W		

Bag Filter



Key Features

1. Pneumatic diaphragm pump;
2. 0.25 square bag filter;
3. The whole machine is movable.

Self-Cleaning Scraper Filter



Key Features

1. Pneumatic diaphragm pump;
2. 0.25 square bag filter;
3. The whole machine is movable.

Single-Shaft Dispenser



Key Features

1. High-speed dispersion
2. variable frequency speed control
3. hydraulic lift

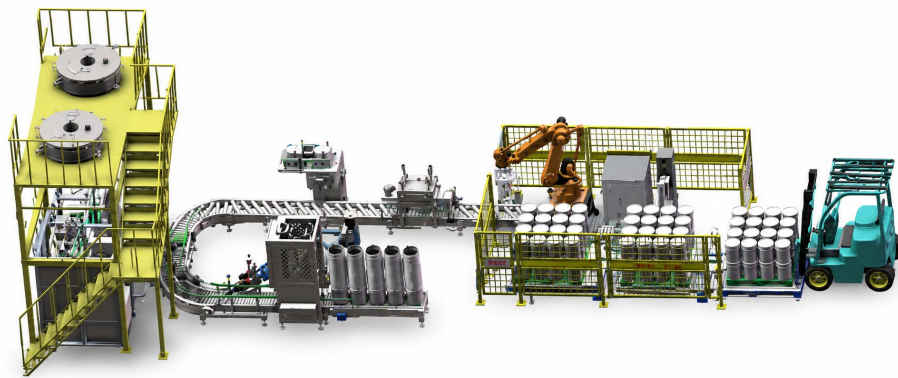
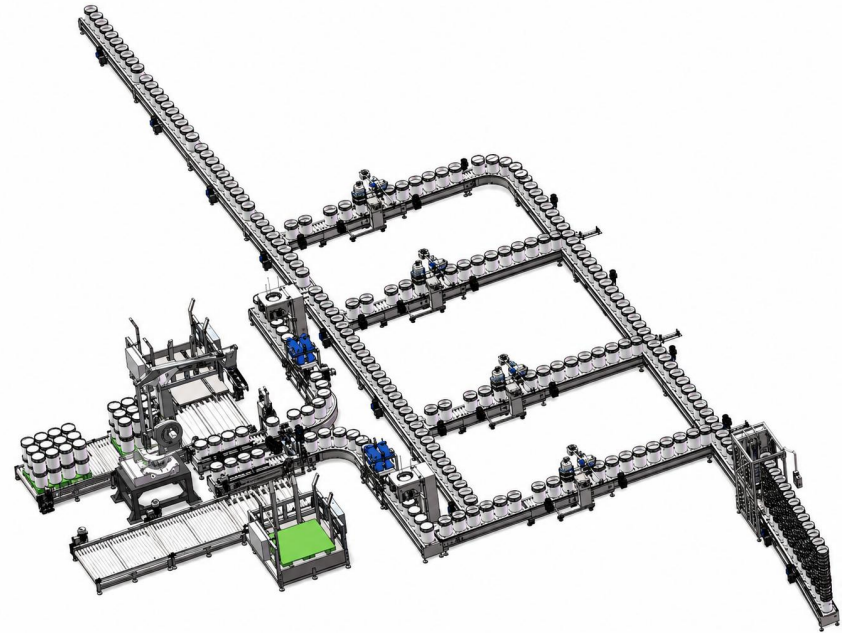
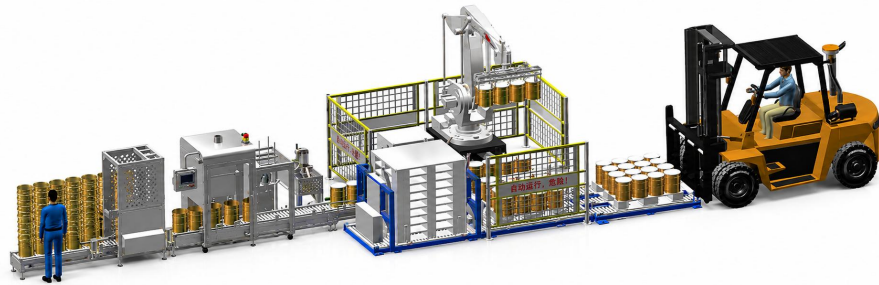
Dual-Shaft Dispenser



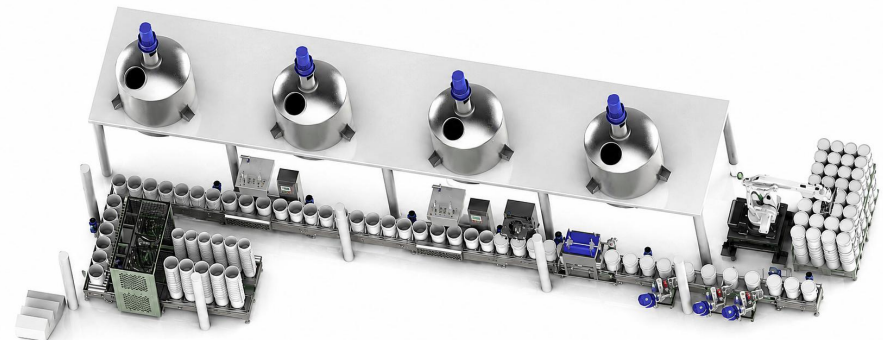
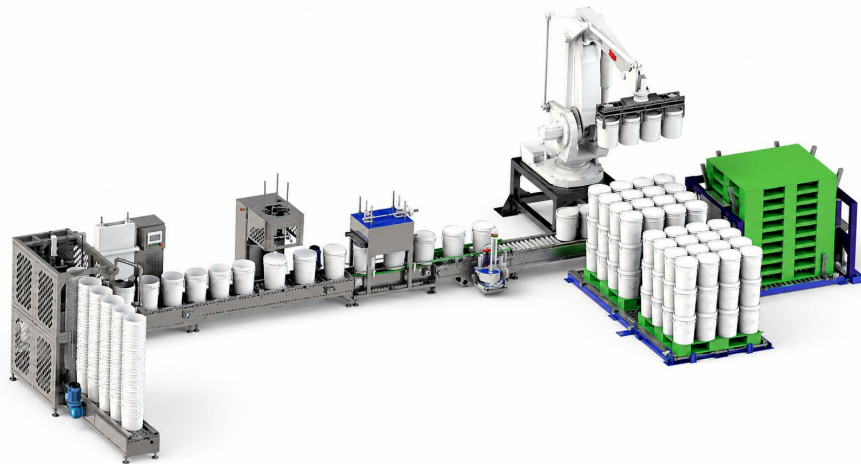
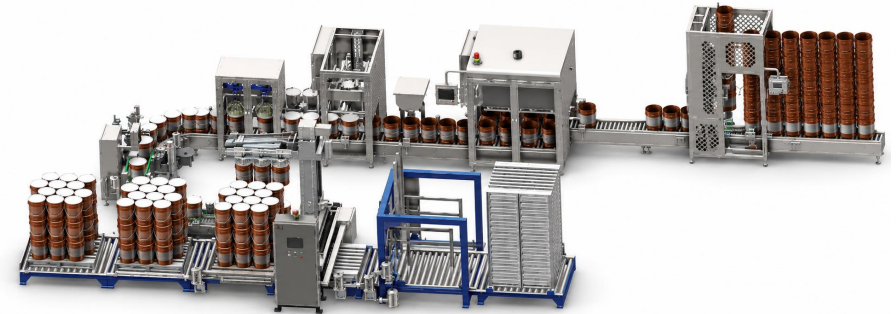
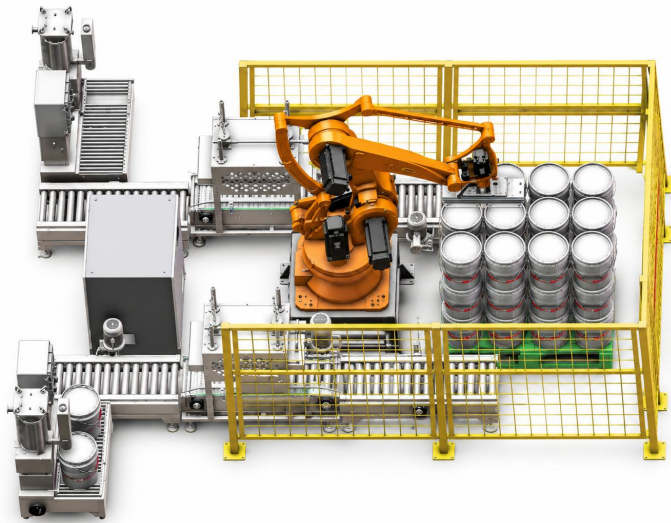
Key Features

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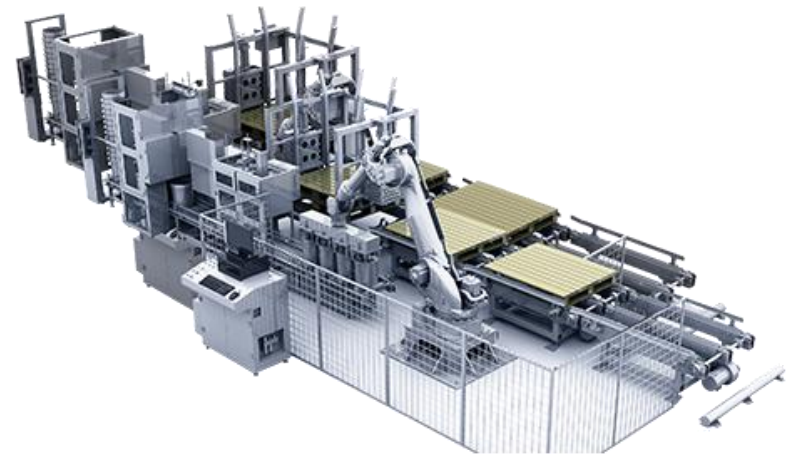
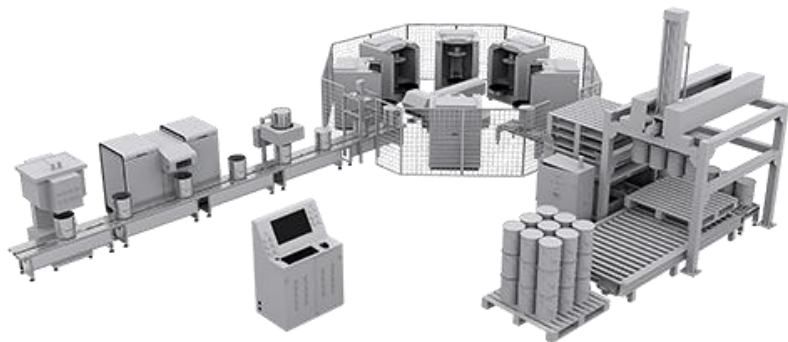
Schematic Diagram



Schematic Diagram



Schematic Diagram



Actual View



Actual View



Actual View





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