SHARE WELL







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SUZHOU SHARE WELL AUTOMATION TECHNOLOGY CO., LTD.

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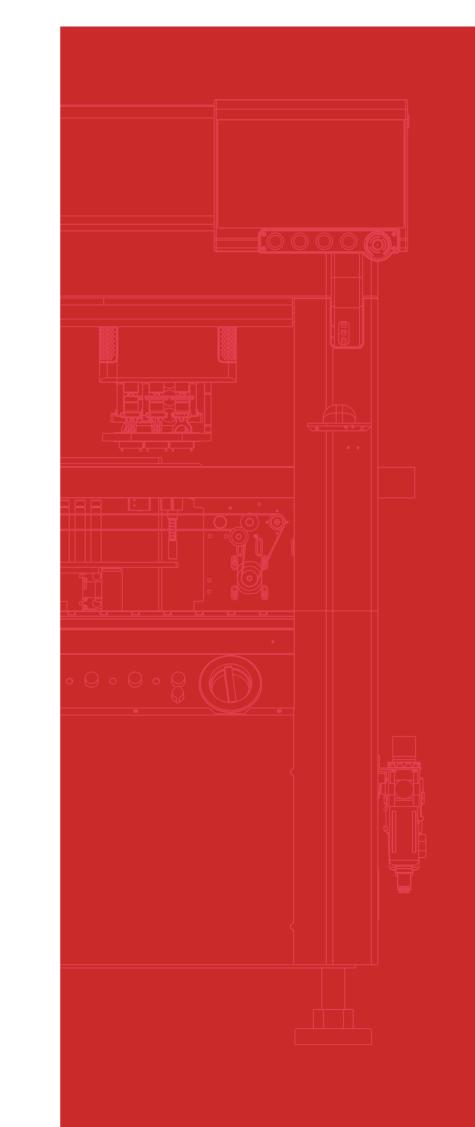
SUSTAINABLE DEVELOPMENT GROUP SHARE WELL

HIGH SPEED IRREGULAR SHAPE **PLUG-IN MACHINE**

Product Manual

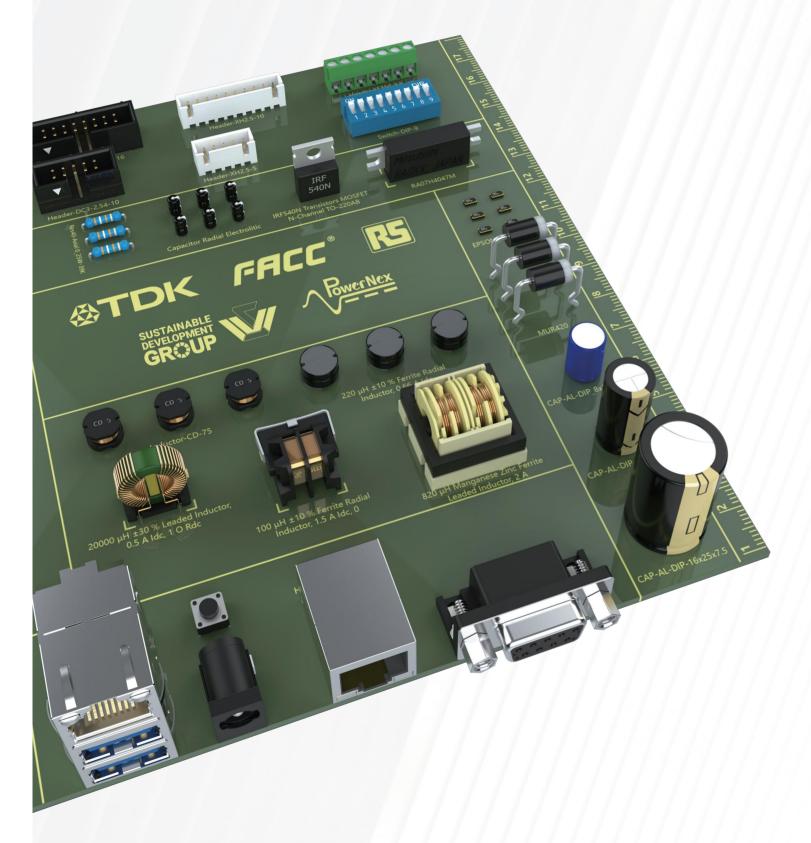


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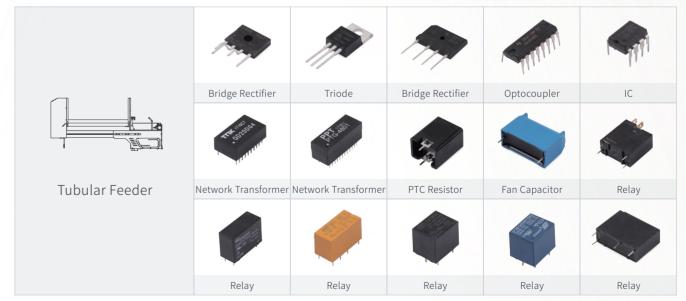


Achieve 98% Through-Hole Components









P 02





₽04



Faster, Smaller, More Flexible Universal High Speed Irregular Shape Plug-in Machine

Three Cameras | Simultaneous Capture | Compact Size | Space-saving





Solution for Irregular Shape Insertion Machine, from Small Batch Multivariable to Large **Batch Production**

680 Superfast integrates the visual, motion control, and deep learning algorithms as its core components. Its performance, precision, flexibility, and compatibility have reached industry-leading levels, capable of meeting your production needs from small-batch, multi-variety to large-scale production.



(Standard) Insert Pressure Detection (Optional)

Component Height Detection (Optional)

SmartAl SIX Gantry Head

Integrated Light Source | Servo-driven | 6 Working Heads

Compact Design Maximizes Space Utilization





Width Weight 1-20_{mm} 300g Max

Material Specification





PCB Specification

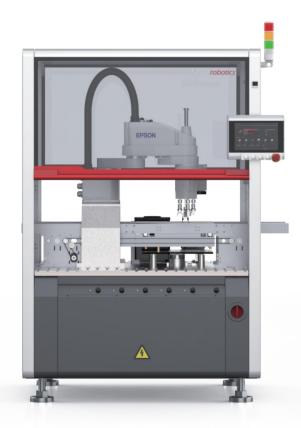
70-400mm

P 06

Robotics

Robotic Irregular Shape Plug-in Machine

The Robotics series uses industrial robots as the core components, integrating gull-wing doors, integrated work heads, machine vision, and other key technologies. Its features include high flexibility and versatility, making it suitable for inserting odd-shaped and large components.



1200 Robotic Irregular Shape Plug-in Machine robotics

Integrated Seated Robot | Achieve High Cost-Effectiveness

4/6

Work Head (pcs) Placement Maximum Speed (S/C)

2.0 ±0.03

Accuracy(mm)

1.8 Work Head (pcs) Placement Maximum Speed

1600

±0.03

robotics

Integrated Hoisting Robot | Achieve Wide Working Range

Accuracy(mm)

Robotic Irregular Shape Plug-in Machine

1800 Robotic Irregular Shape Plug-in Machine robotics

Integrated Six-Axis Robot | Achieve Multi-Angle Insertion

4/6

2.2 Work Head (pcs) Placement Maximum Speed (S/C)

 ± 0.04

Accuracy(mm)

(S/C)

Compatibility



Compatible with Large Components

Length **2-50mm** Height **2-60mm**

Integrated Vacuum Suction Head

Three Types of Work Heads

Width 2-50mm Weight 500g

Highly Flexible Chuck

The future development trend of 'robots replacing humans' is to integrate top-brand robots to achieve high flexibility, high compatibility, and high quality, thereby reducing equipment failure rates and increasing the investment value of equipment.











Visual algorithm designed for odd-shaped inserts, capable of precisely detecting and positioning the quality of component pins, appearance contours, and coordinate positions



Forming/Shaping Device, can be equipped on all feeders

An experienced process development team focused on developing forming/shaping devices for components, which can significantly reduce incoming material requirements, enhance equipment versatility and compatibility, while also ensuring and improving component insertion rates.



Modular design concept Enables flexible configuration









Perfect integration with major brand robots!























16 PCS Tape Feeder (Vertical/Horizontal)





4_{PCS} Tray Feeder (Tray-Fed Material)



4-Axis 4-Head—Work Head 4-Axis 6-Head—Work Head

6-Axis 4-Head—Work Head

Host and feeding device

Modular design concept Enables flexible configuration

Dual-sidedfeeding,rational layout, enabling flexible configuration and quick replacement

16 PCS

Tape Feeder (Vertical/Horizontal)

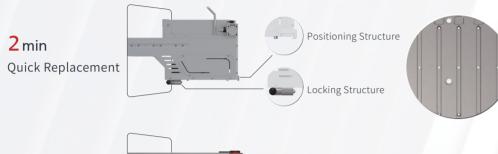
16 PCS

Vibratory Bowl Feeder (Bulk Material)

16 PCS

Tubular Feeder (Tube-Fed Material)

4_{PCS} Tray Feeder (Tray-Fed Material)















iFD[™] Feeding Device Modular Design Independent Control

An independent feeder development team can provide a variety of feeding solutions based on different material handling methods. Additionally, they can also flexibly configure according to production needs to meet the continuous feeding of pin components and irregular components.



+ ZDF series

Vibratory Bowl Feeder Bulk Material Feeding









Feeding Speed Continuous Feeding Forming Function Shaping Function



+ TRF series Tray Feeder

Tray-Fed Material

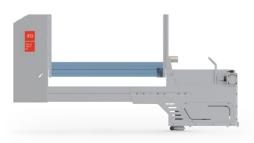




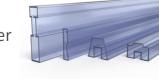




Maximum Capacity Forming Function Shaping Function



+ TUF series Tubular Feeder Tube-Fed Material









Maximum Capacity Forming Function Shaping Function



+ TDF-VT series

Vertical Tape Feeder









Feeding Speed

Forming Function Shaping Function



+ TDF-HT series

Horizontal Tape Feeder

Compatible with Reel/Box-Fed Material







Feeding Speed

Forming Function Shaping Function



+ TSF series

Special Customized Feeder

Customized services provided based on material feeding methods or component characteristics







Electrolytic Capacitor Components

Tuning Knob

Connector

** The left image shows a horizontal capacitor feeder developed for the power supply industry.

P 14 P 15

All feeders can be equipped with shaping/forming devices.

An experienced process development team specializing in the development of component reshaping/forming devices can significantly reduce incoming material requirements, enhance equipment versatility and compatibility, while also ensuring and improving component insertion rates.



For special components, we offer customized services, striving to turn the impossible into possible!



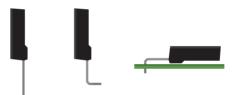


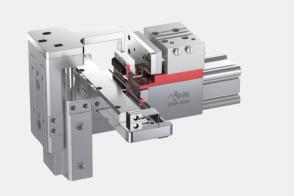






Rectifier Bridge Shaping







Coreless Inductor Shaping







IC Shaping





2025-3300 Quick Replacement 2025-668

Air Conditioner Mainboard Common Mode Inductor Custom Gripper

A wide range of pick-up devices providing customized services

With over 500 types of nozzles and grippers to choose from, capable of picking up connectors, relays, transformers, and various other irregular components. For special components, our experienced R&D team offers customized services.



Self-Developed Patented Products
Highly Flexible Quick Chuck

Interchangeable Chuck | High Clamping Force | High Quality | Long Lifespan

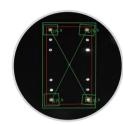
Innovative Design Patented Products
Integrated Vacuum Suction Head

Interchangeable Suction Head | High Suction Power | High Quality | Long Lifespan

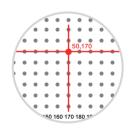








PIN Quality Inspection



PIN Position Coordinates



Unique Visual Algorithm



PCB Transmission Device Fully CNC Controlled

The three-section track features a modular design and is controlled by fully numerical control technology, enabling synchronous/asynchronous PCB board transfer, ensuring fast, stable, and precise positioning.

Secondary Pressing of PCB

400mm

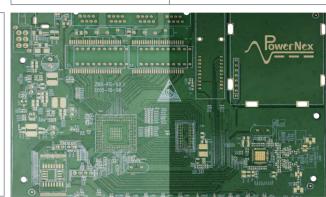
70-400mm

50-550r

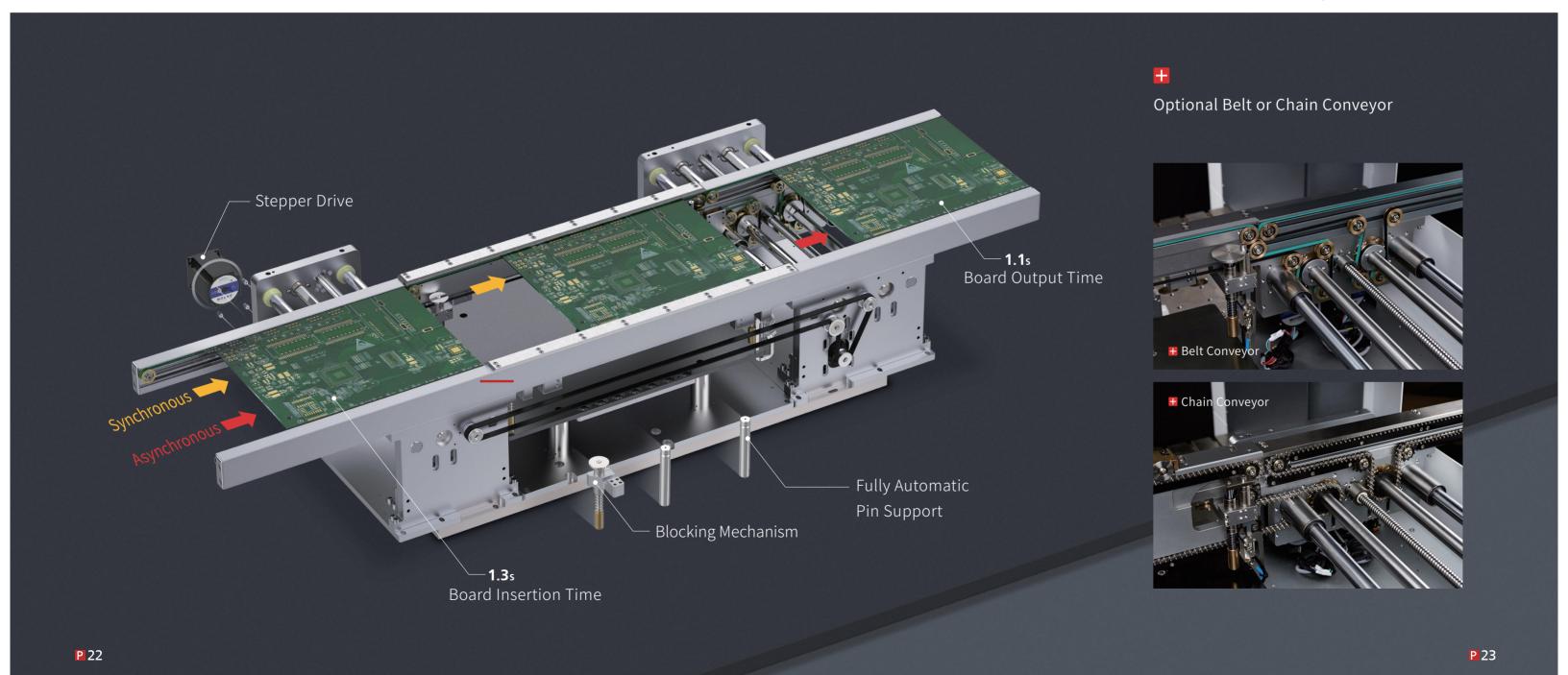
Thickness

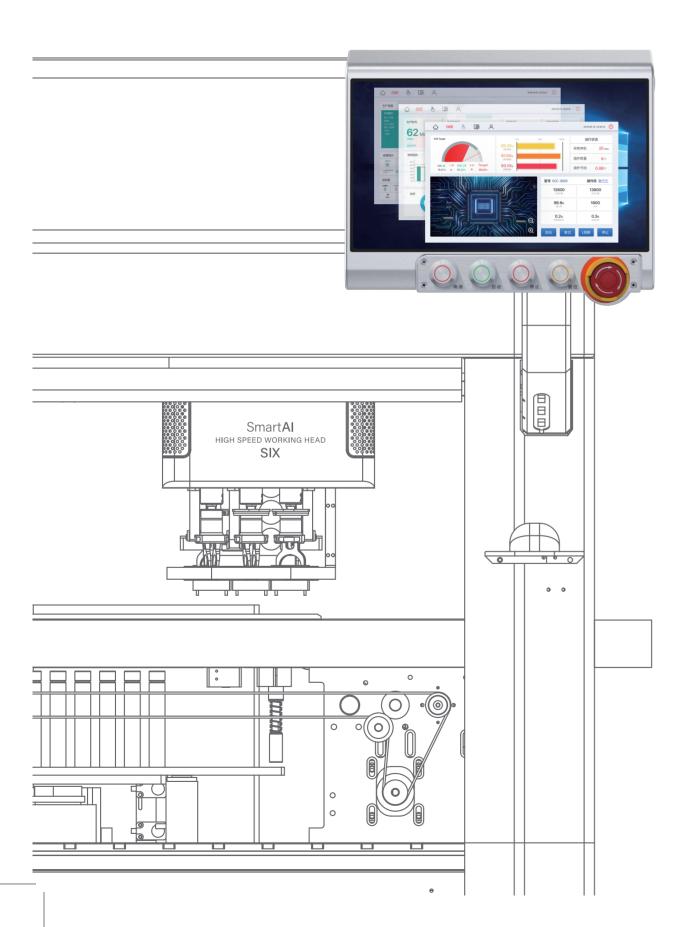
1-3_{mm}

Weight
Max 5kg

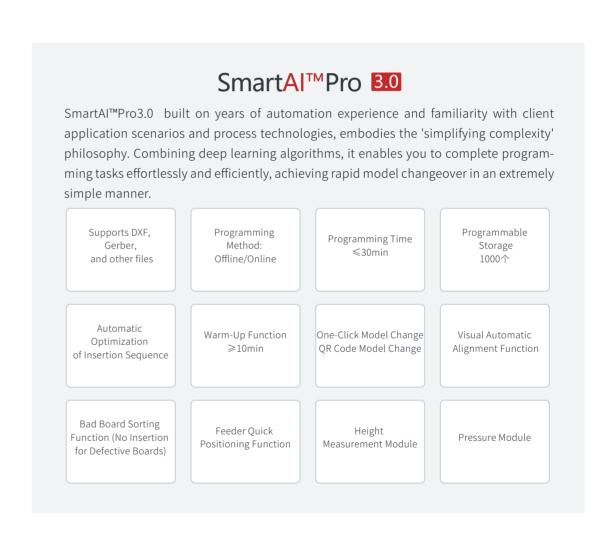


* Specific Compatible Sizes Depending on Machine Model





Simplifying Complexity, Ultimate Simple Programming Method Allows You to Complete Programming Work Easily and Efficiently, Achieving Quick Changeover



中国制造 2025 Big Data FACTORY OF THE FUTURE S 未来工厂 智能工厂

INDUSTRY 4.0

Smart Factory Solution 标准化 精益化 自动化 信息化 智能化

聚焦电子制造 FOCUS ON EMS

积木自动化
Flex Automation Platform Lean Production SMT工厂 BY Automation
OF ALT AUTOMATION
OF ALT AUTOMATION
OF ALT AUTOMATION
OF AUT

异形插件机 Superf SmartAl Pro く OEE

I hrough-Hole Inserte 异形插件机 Superfast Roboti

Superfast Robotics

SmartAl Pro3.0 智能制造

OFF MES BI

The Future of Manufacturing - Intelligent Automation

SmartAl[™]Pro 3.0

With over 10 years of accumulated automation experience and an understanding of customer application scenarios and process technologies, the Zhixin software development team has created the SmartAlPro 3.0 data system. This system uses a B/S architecture to integrate industrial software with automation equipment, extend communication networks, and obtain data on equipment operation and production processes. It allows cross-platform access, offers flexible software interfaces and a variety of hardware interfaces. Through analysis and processing, the data is transformed into reports, dashboard information, and analytical results, helping you make informed decisions to improve factory efficiency and overall equipment effectiveness, achieving 'intelligent manufacturing and smart factories.'

OEE Management System

Overall Equipment Effectiveness (OEE) allows you to easily and timely understand equipment operating conditions, helping you improve production efficiency, avoid losses, and reduce production costs.





MES Management System

Import equipment operation data, production data, and product quality data into an SQLite database, and interface with the MES system using various M2M technologies.

Communication Protocols and Interface Types
TCP/IP、Web Service、Modbus、RJ45Network Port, Serial Port

Seamless Integration



Pangus (盘古信息)



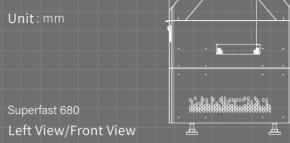
Other Brands/Customized EMS Systems

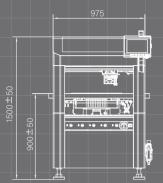
P 27

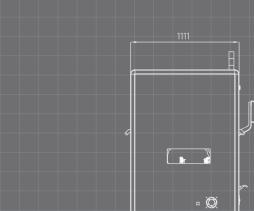
Technical Specification

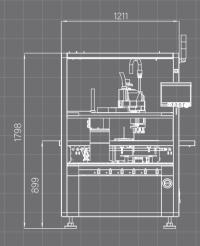
High-speed Irregular Shape Insertion Machine					
Model	680	1200	1600	1800	
PCB Size	410*400mm	300*350mm	410*450mm	410*400mm	
	800*400mm				
PCB Thickness	0.8-5mm				
PCB Weight	Max.6kg				
Clamping Edge Width		3mm/5mm			
Plugin Performance			<i>y</i>		
Insertion Speed	5300cph	1800cph	2000cph	1600cph	
Insertion Cycle Time	0.68 sec/part	2 sec/part	1.8 sec/part	2.2 sec/part	
Repeat Positioning Accuracy			02mm	2.2 Sec/part	
Characteristics of Workhead		<u>±</u> 0.	02111111		
		Gripping	:/Dickup		
Picking Method		1	-	4/5	
Number of Working Heads	6	4/6	4	4/6	
Component Dimensions	40mm	35/50mm (Customized)			
Component Height	35mm	40/50mm (Customized)			
Component Weight	Max.300g		Max.500g		
Insertion Direction		0-360°			
Insertion Angle		Plane		Free Angle	
PCB Conveyor System					
Conveying Structure	Three-stage				
Conveying Method	Belt/Chain				
Conveying Mode	Synchronous/Asynchronous				
Conveying Speed	Max.800mm/s				
Conveying Direction	$L\rightarrow R$ or $R\rightarrow L$				
Width Adjustment	Automatic Width Adjustment				
Fixed Edge Position	Front End				
Component Clearance Heigh	ight Up 45 / Down 20				
Vertical Tape	20	20	20	20	
Horizontal Tape	16	16	16	16	
Tube Feeding	16	16	16	16	
Tray Feeding	4	4	4	4	
Vibratory Bowl Feeding	16	16	16	16	
Machine Information					
Operating Voltage	220VAC ±10% 220VAC ±11%				
Power Rate	1.8KVA	1.8KVA	1.8KVA	1.8KVA	
			0.5±0.06Mpa 50L/min		
Operating Pressure	0.5 ± 0.05 Mpa 50 L/min	SMEMA (European-style 14-pin)			
Operating Pressure Machine Port	0.5±0.05Mpa 50L/min	SMEMA (Europ	ean-style 14-pin)		
	0.5±0.05Mpa 50L/min 975*1295*1500mm	SMEMA (Europ 1211*1111*1800mm	ean-style 14-pin) 1211*1210*1800mm	1146*1011*1800mm	
Machine Port Machine Dimensions	975*1295*1500mm	1211*1111*1800mm	1211*1210*1800mm		
Machine Port Machine Dimensions				1146*1011*1800mm 950kg	
Machine Port Machine Dimensions Machine Weight	975*1295*1500mm	1211*1111*1800mm 950kg	1211*1210*1800mm		
Machine Port Machine Dimensions Machine Weight Protections	975*1295*1500mm	1211*1111*1800mm 950kg ISO9	1211*1210*1800mm 1050kg		

Dimensions

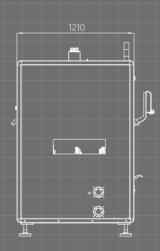


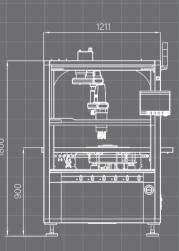




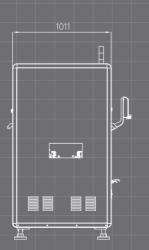


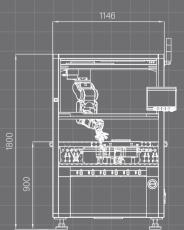
Left View/Front View





Robotics 1600 Left View/Front View





Left View/Front View



