

NINGBO WELL-LIH ROBOTS TECHNOLOGY CO.,LTD. Ltd. was founded in 2003 and covers a wide range of industrial scenarios including automotive, medical, construction machinery, mold making, aerospace, and more. The company is dedicated to providing multi-domain automation, information technology, high safety, and sustainable intelligent turnkey solutions for global users.

The 3S Flexible Smart Workstation is a robot and warehouse integrated flexible production unit specifically designed for machining industries with multi-variety and small-batch production needs. However, it is not simply a robot plus a warehouse. More accurately, it is a production plan (management) + automation (execution) system. It is a continuous automation powerhouse that can achieve cost reduction and efficiency gains without distinguishing the size of batches. The 3S Flexible Smart Workstation provides economical and efficient solutions for small-batch and multi-variety metal components, product prototypes, mold manufacturing, medical devices, and other fields. It is widely applicable to vertical machining centers, lathes, and CPM (turn-mill) machines.



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WELLIH



3S Soft Smart Station

NINGBO WELL-LIH ROBOTS TECHNOLOGY CO.,LTD .



Soft Smart Station



By utilizing our independently developed automated loading and unloading system, we can help you reduce costs and increase efficiency regardless of batch size



WELLIH 3S intelligent control accepts the operator without operation experience



Simple operation and short setup time, suitable for small to medium batch production



New workpiece machining plans can be added without the need for machine downtime



Equipped with ground scanners for enhanced safety protection



Compact integrated design with a small footprint, suitable for modern factory management



Can be used with multiple CNC machines, offering easy mobility



Suitable for CNC vertical machining centers, CNC lathes (turning and milling)



Short delivery time, providing professional services and training



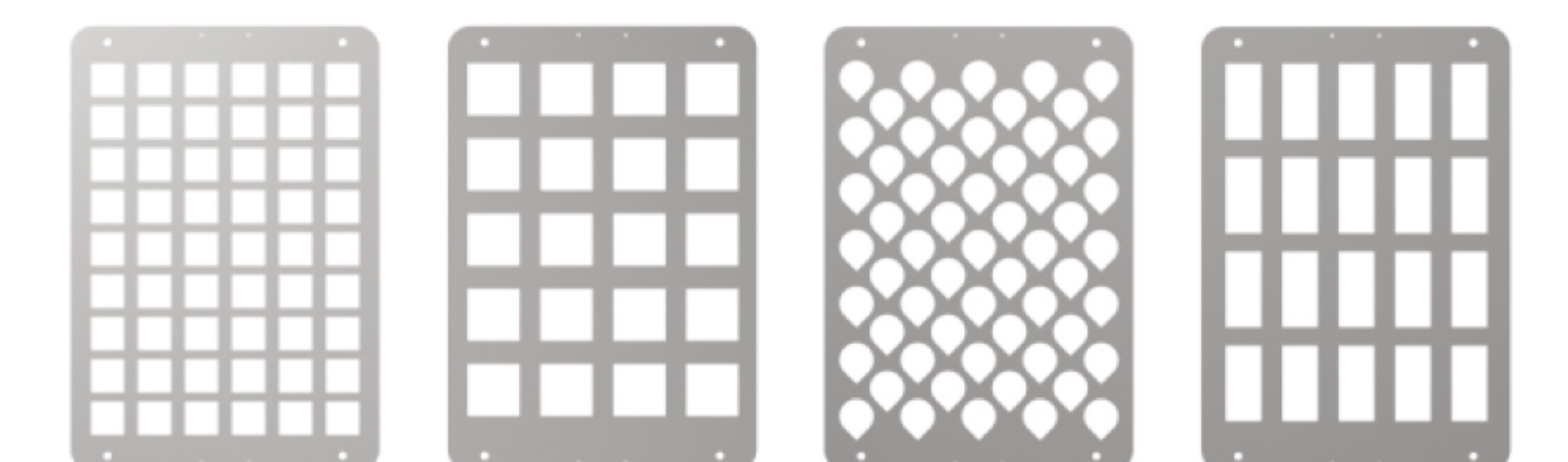
3S Flexible Smart Control

Graphical guided setup Easy operation
Flexible planning and adjustment of production tasks



- ✓ Industrial-grade high-sensitivity touch screen
- ✓ Compatible with mainstream articulated robots
- ✓ Compatible with most CNC machining equipment on the market
- ✓ Multi-language support, easy switching
- ✓ Graphical guided setup with 11 steps
- ✓ Standard programs can freely add specific action steps
- ✓ Support for custom tray configurations
- ✓ Automatic program storage and backup, or manual backup to a USB drive
- ✓ Flexible planning and adjustment of machining tasks
- ✓ Real-time display of task execution status
- ✓ Multi report statistical analysis to assist in optimization and improvement

Customizable pallets for desktop parts



You can choose from a standard parts tray or you can customize it according to your requirements

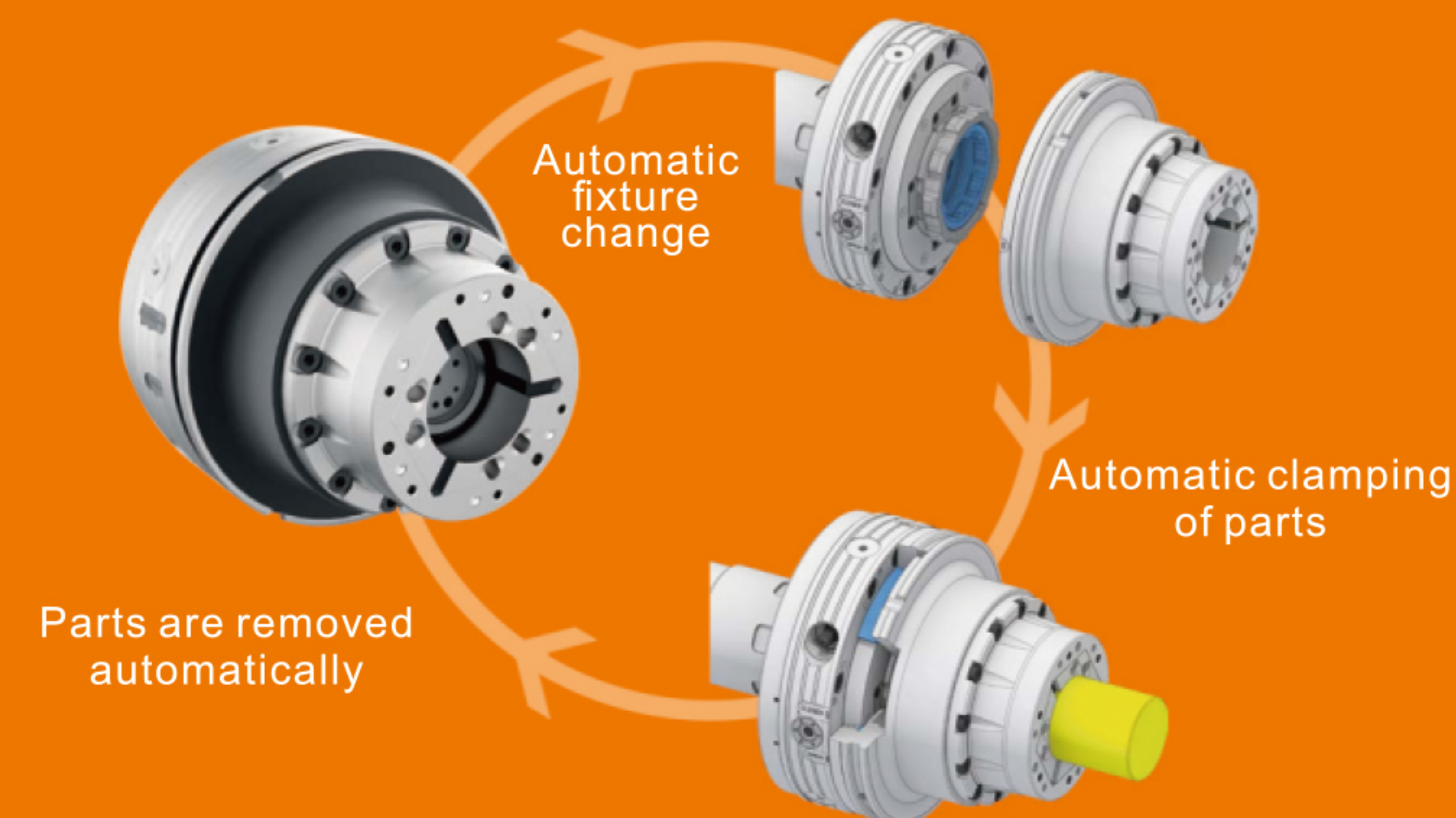
Machine tool clamp automatic replacement

Clamping method : Inner rise/outer clamp/magnetic/centered
Applicable fixtures : Three-jaw chucks, mandrels, chuck chucks, magnetic chucks, drive centers, etc



Vice

- Advantage
- ✓The fixture is automatically changed as a whole, which is suitable for mixed line processing of a variety of parts
 - ✓Replacement parts can be prepared on or off the machine
 - ✓The utilization rate of the machine is greatly improved, and stable and reliable processing can be carried out without being on duty
 - ✓Personnel only need to be set up off-site and can be prepared for multiple machines at the same time



Grippers/Vise/Quick changes



Electromagnetic Grips



Pneumatic Grips



Quick Change



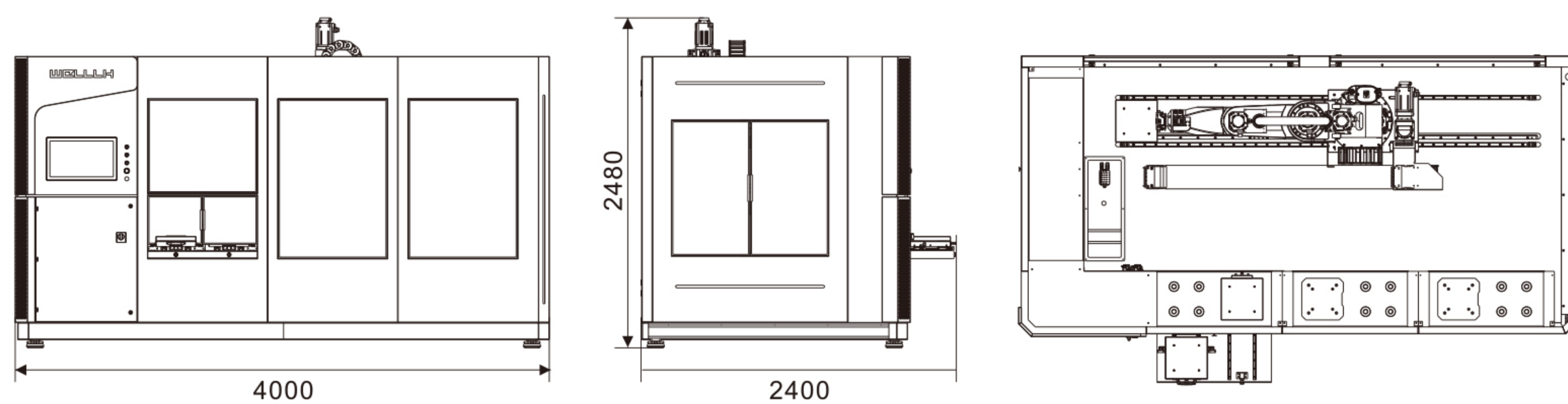
3S-K100 Max



Specifications

Max payload of palletizer	100kgs
Repeatability accuracy	±0.05mm
Rotation angle	0°~360°
Max payload of single layer	300kgs
Station quantity	16pcs
Number of Tools	16pcs
Floor space	About 4000mm*2400mm

Please note that the specifications and appearance are subject to change due to improvements or other reasons.



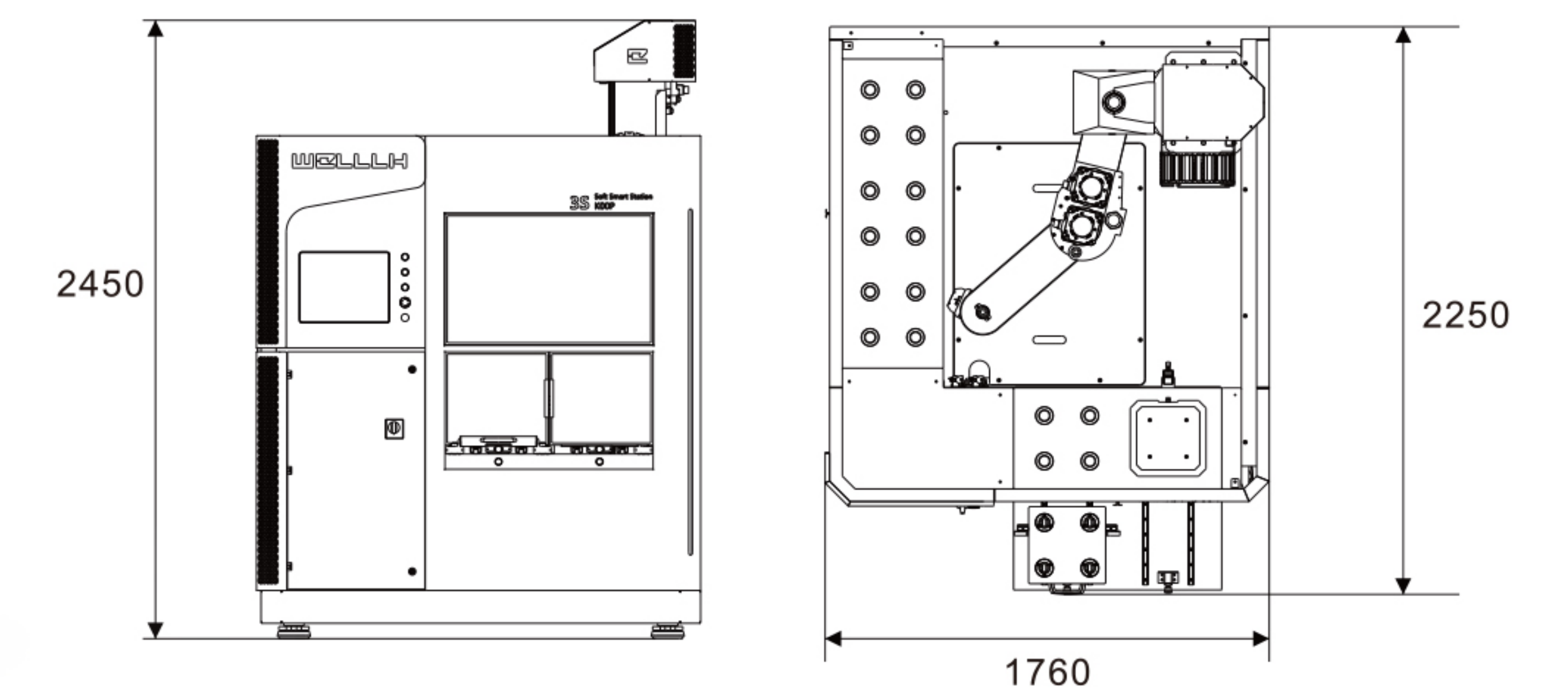
3S-K100 lite



Specifications

Max payload of palletizer	100kgs
Repeatability accuracy	±0.05mm
Rotation angle	0°~180°
Max payload of single layer	200kgs
Station quantity	16pcs
Floor space	About 2250mm*1760mm

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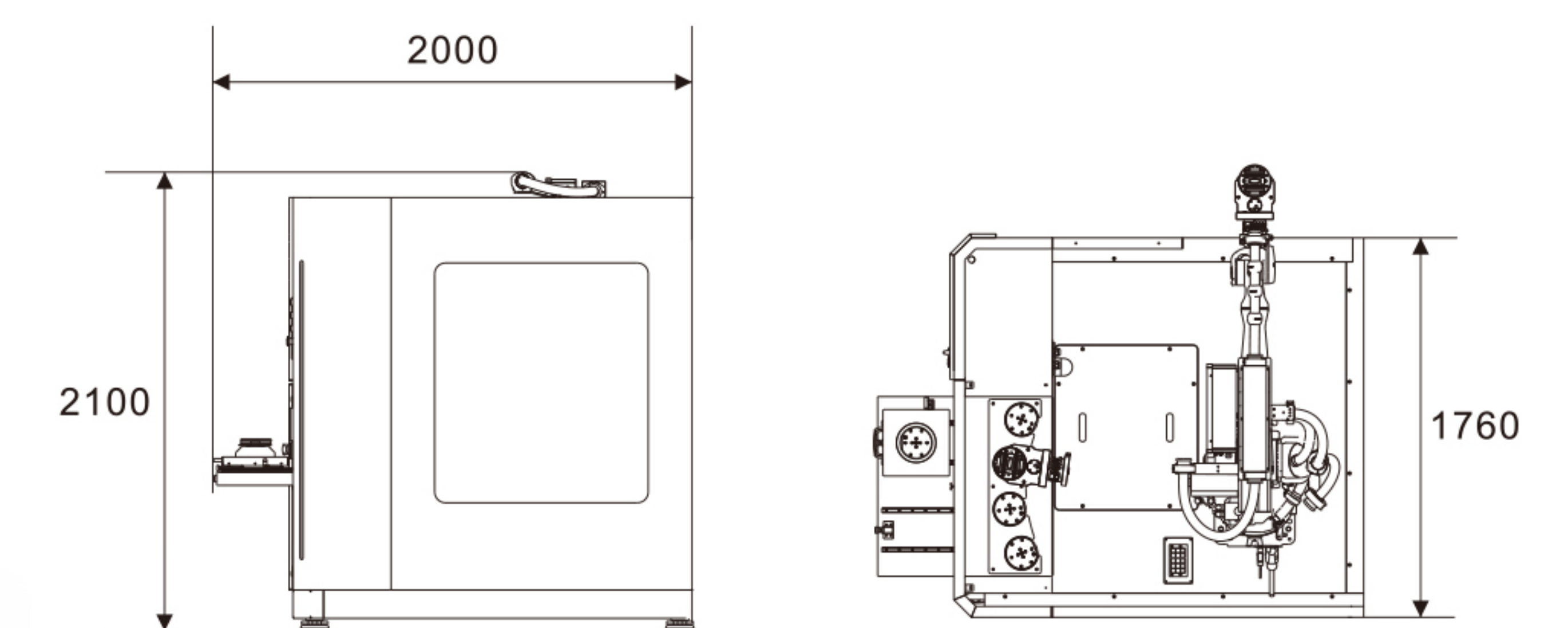
3S-K35/70R



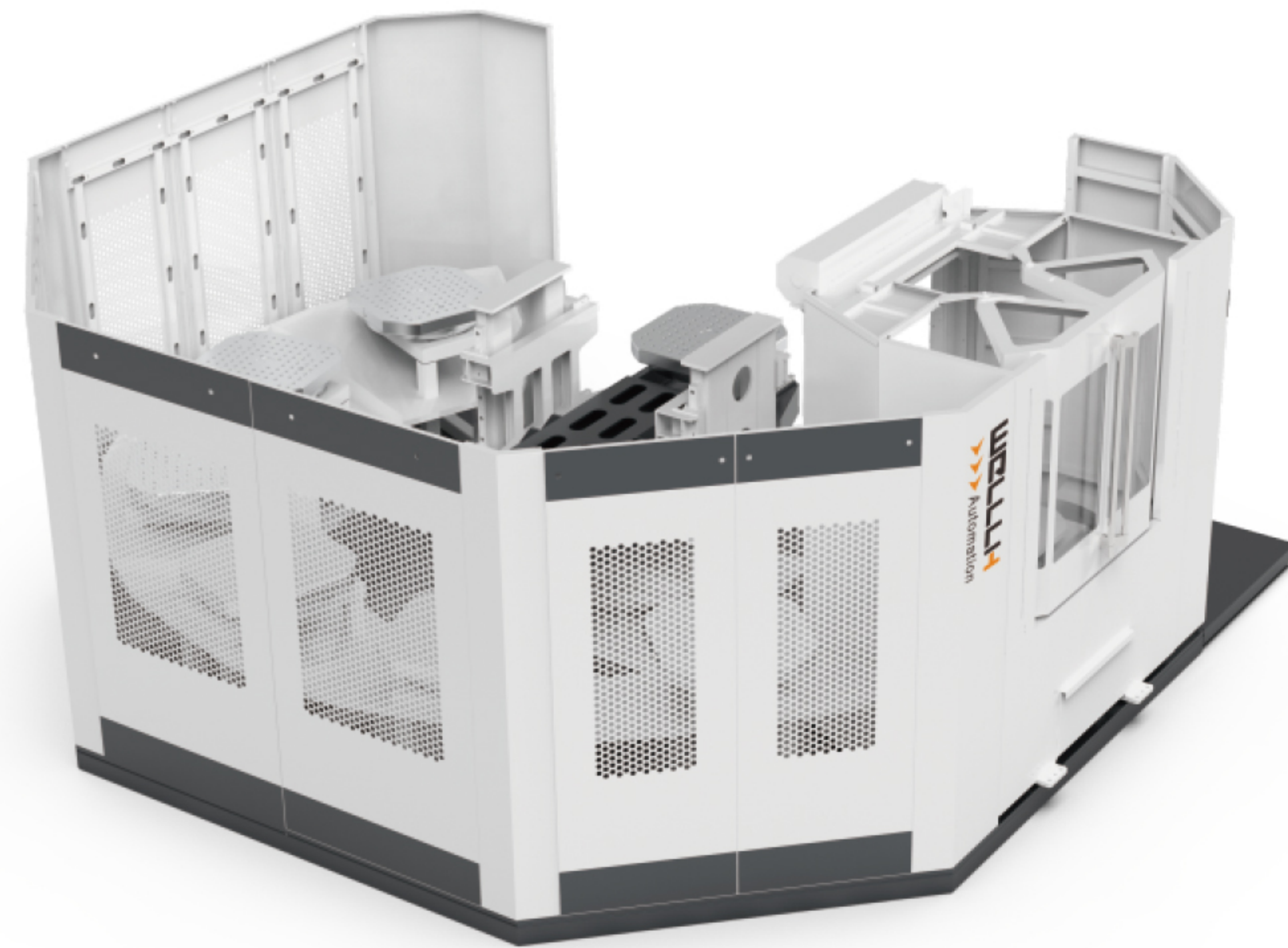
Specifications

Robot maximum load	35/70kg
Robot repeatable positioning accuracy	±0.05mm
Robot maximum reach radius	2013mm
Maximum load capacity of storage area	200kg
Shelf quantity	10pcs
Floor space	About 1758mm*3380mm

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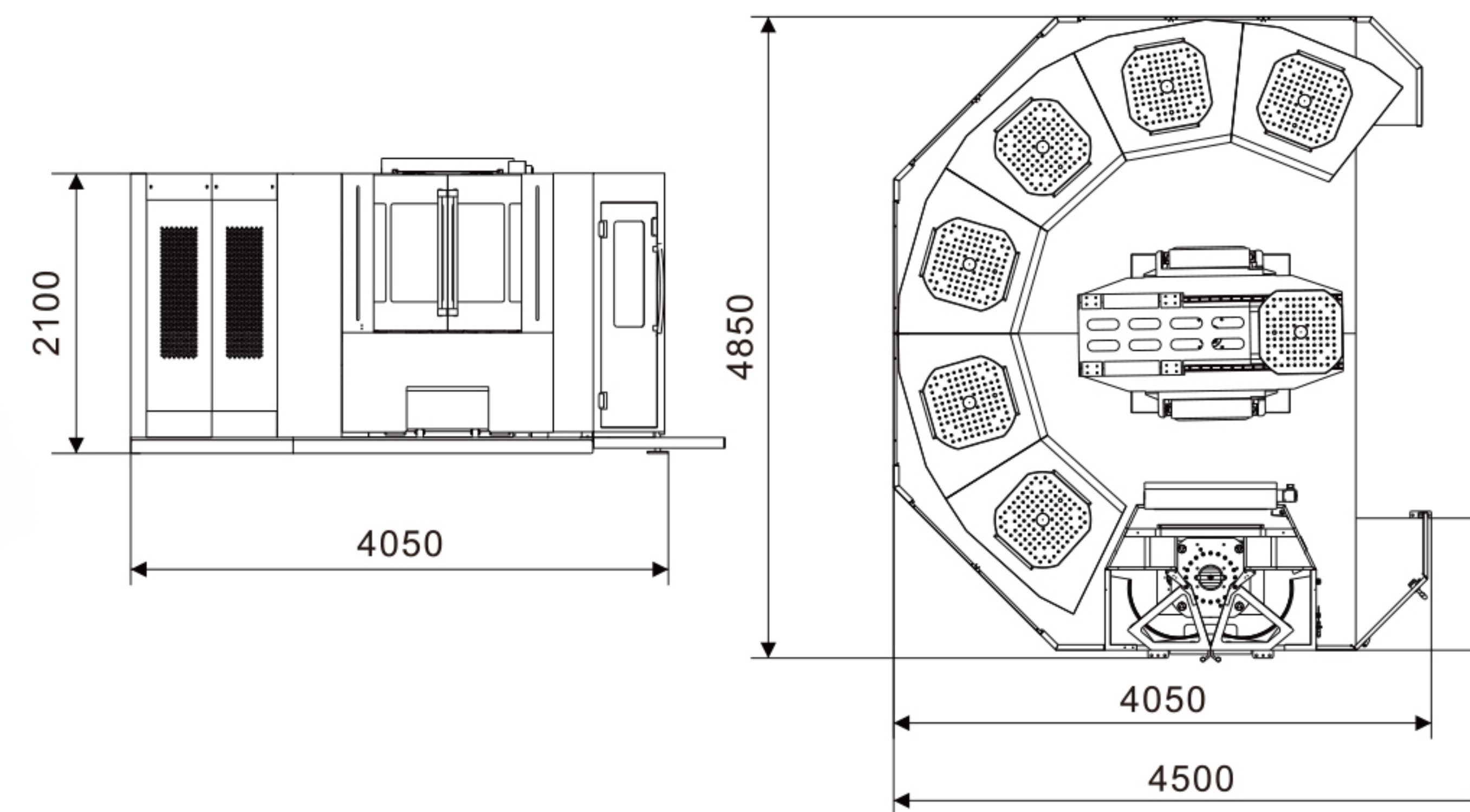
3S-R630D



Specifications

Max payload of palletizer	2T
Repeatability accuracy	±0.05mm
Rotation angle	0°~360°
Station quantity	6pcs (Standard configuration)
Floor space	About 4500mm*4850mm

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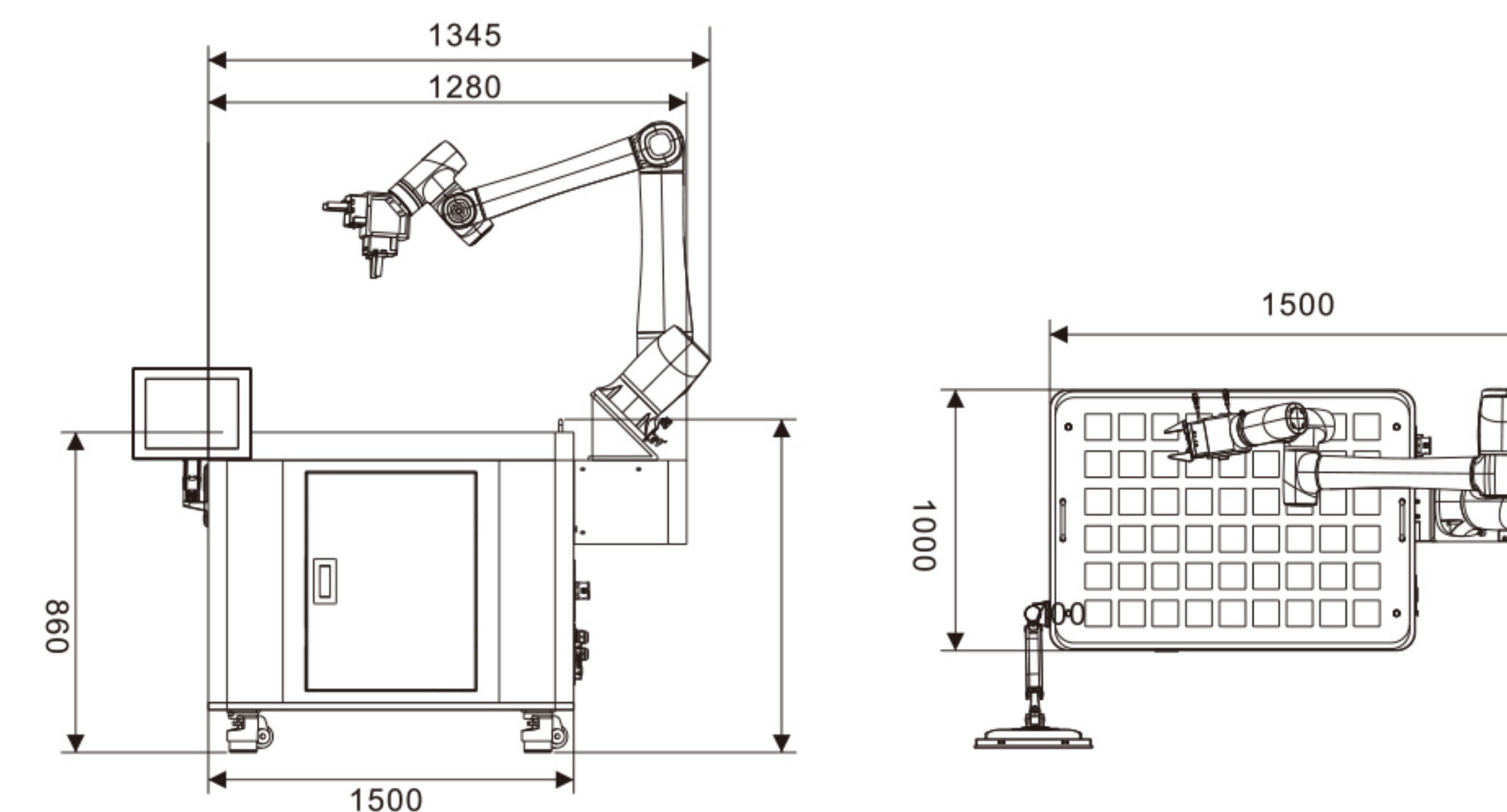
3S-L25R



Specifications

Load	10kg
Working radius	1300mm
Repeatability accuracy	±0.03mm
Tray type	Interchangeable single material tray
Grating size	800mmx1100mm
Workpiece weight	≤1kg
Floor space	1000mmx1500mm

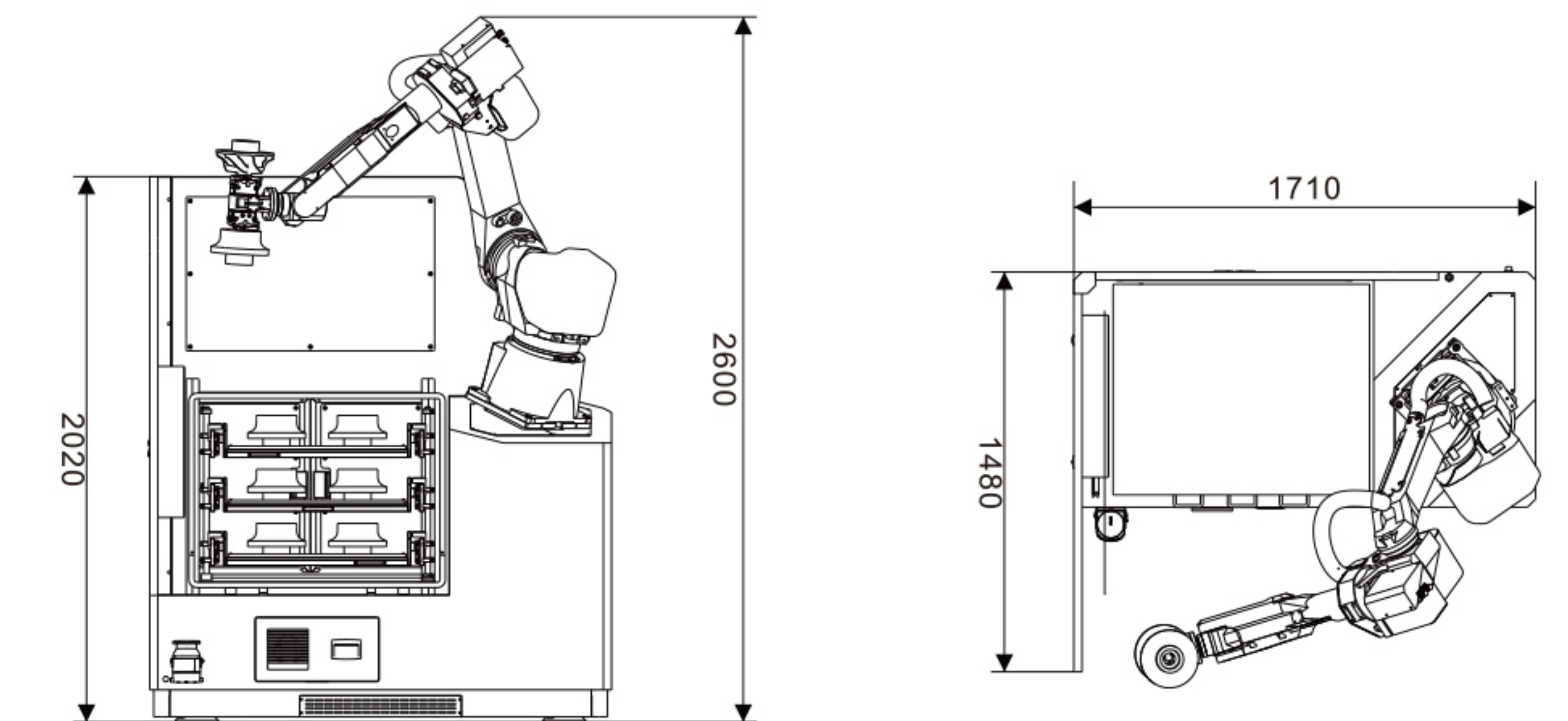
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Specifications

Number of drawers (standard)	4	Workpiece weight	≤ 5kg
Number of drawers (maximum)	4	Maximum load capacity per layer	150kg
Included grid plates	4	Workpiece diameter 100mm	30
Additional grid plates	Optional	Workpiece diameter 50mm	72
Maximum load capacity	25 kg	Workpiece diameter 25mm	182

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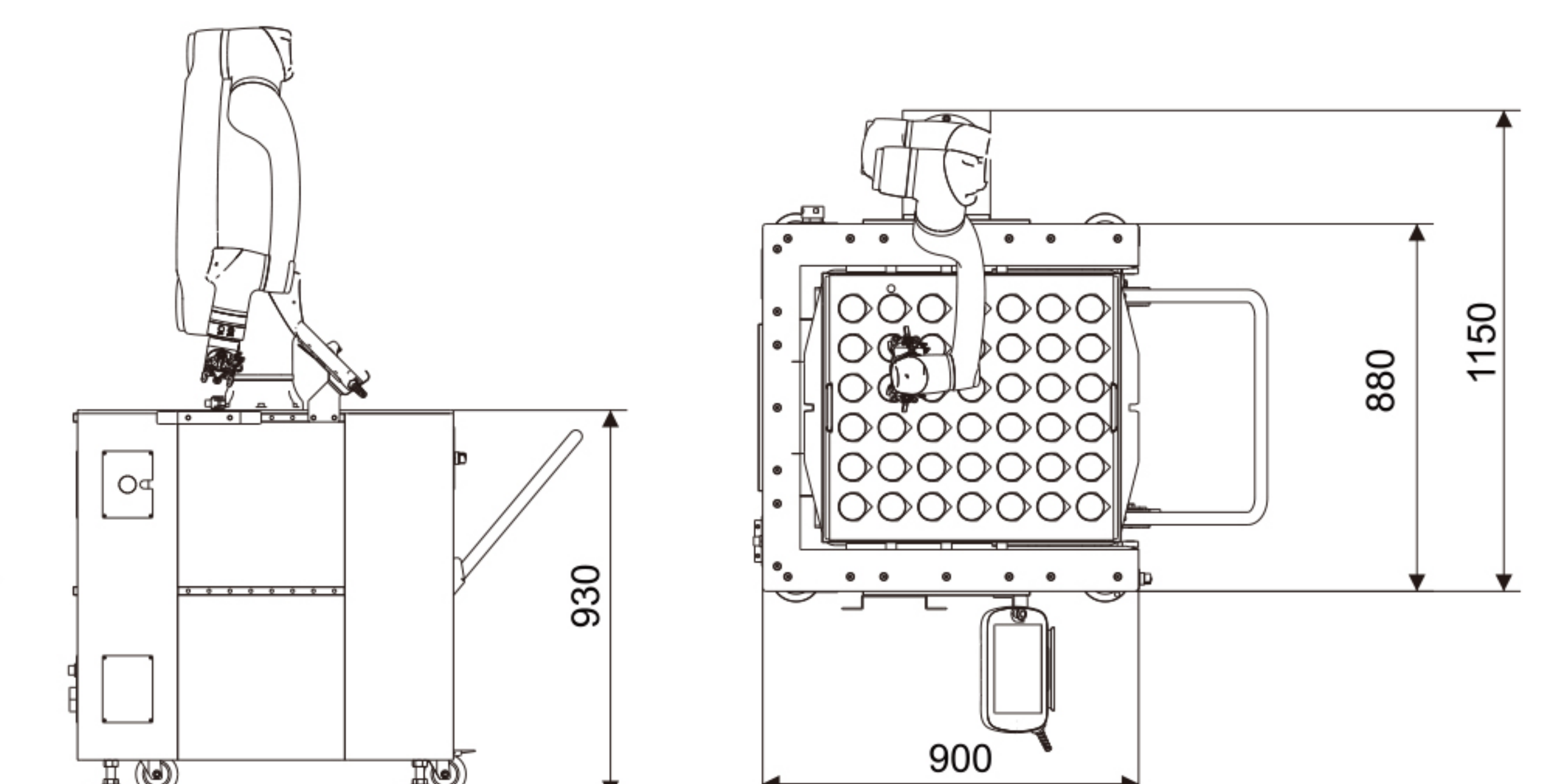
3S-P10C



Specifications

Load	8kg
Working radius	1300mm
Repeatability accuracy	±0.03mm
Tray type	Interchangeable single material tray
Grating size	640mmx680mm
Workpiece weight	≤1kg
Floor space	900mmx930mm

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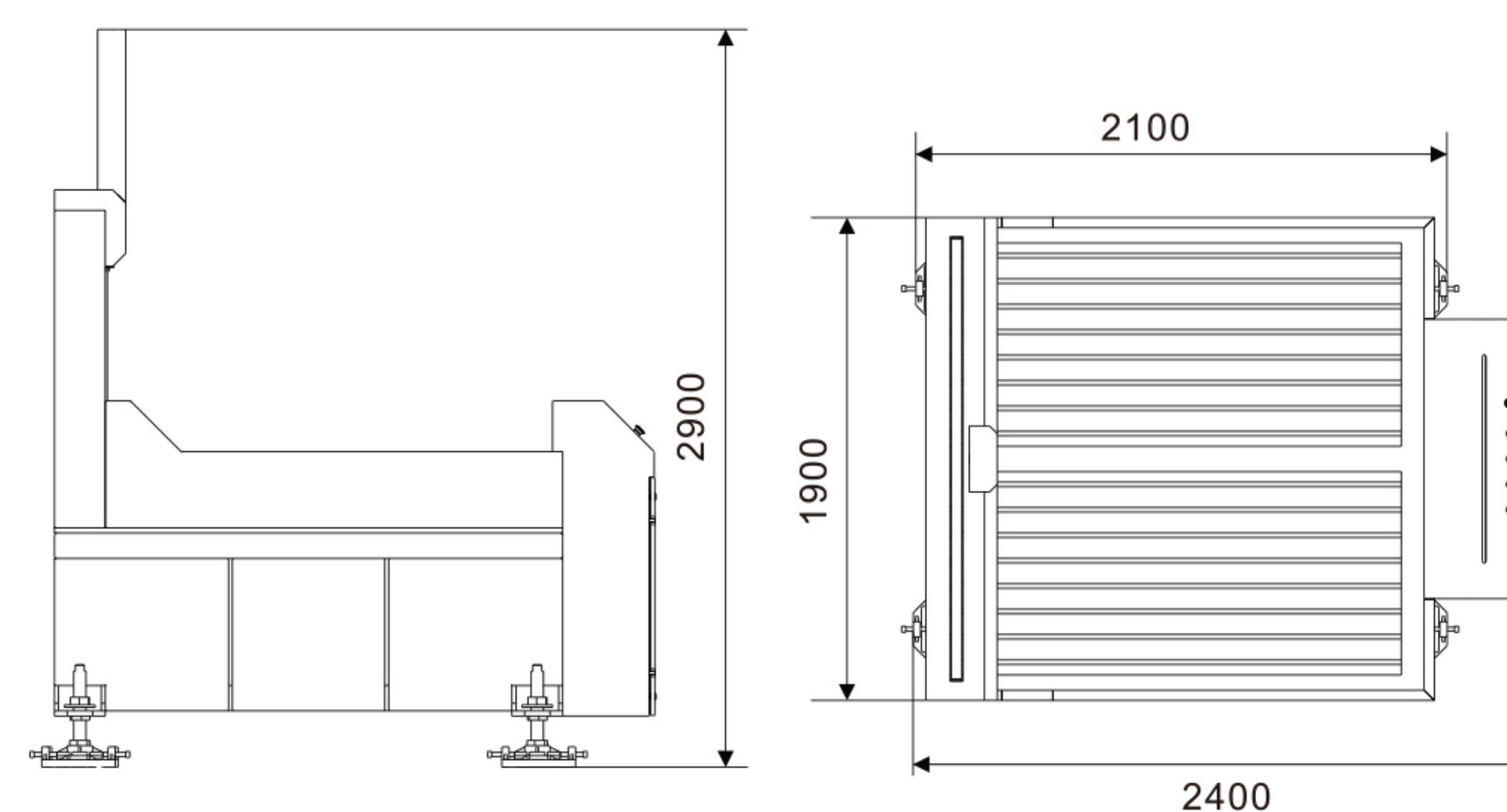
APC-L850



Specifications

Single workstation maximum load	2T
Repeatability accuracy	±0.05mm
Dual workstation maximum load	4T
Station quantity	2pcs (Standard configuration)
Floor space	About 2400mm*1900mm

Please note that the specifications and appearance are subject to change due to improvements or other reasons.



3S-T08



Specifications

Load	8kg
Working radius	1300mm
Repeatability accuracy	±0.03mm
Tray type	Interchangeable single material tray
Grating size	640mmx680mm
Workpiece weight	≤1kg
Floor space	900mmx930mm

Please note that the specifications and appearance are subject to change due to improvements or other reasons.

