



Radiation Protection – Triple
Overlapping Doors
SLH-COR-3T-pb4.0

SLEEK
KÖHL Medical Business Unit



Specialized for
hybrid operation room



Radiation Protection - Triple Overlapping Doors
(Specialized for hybrid operation room)
SLH-COR-3T-pb4.0

It is used for the mobile CT parking position in the hybrid operating room. When the door is open, it enables multi-disciplinary synchronous surgery; when the door is closed, it separates two operating rooms.

Double-sided stainless steel $\geq 2.0\text{mm}$ (AISI 304#); surface sprayed with baking paint, color and pattern can be customized. The door leaf and internal frame are embedded with Pb4.0. The door thickness is 45-55mm (except for special customization). The door has double-sided fireproof coating. The special door core material has flame-retardant, fireproof, heat-absorbing and moisture-proof properties. The door seal adopts silicone strips and sealing strips. The four corners of the door are protected by integral of aluminum profiles. The overall door frame is of anodized aluminum profile structure, and the door surface panel is a whole board without seams.

The overall door has dual-function selectivity: Function 1 - three door leaves are switched on and off simultaneously with linkage; Function 2 (when Function 1 fails) - the overall door can still be opened and closed one by one.

Technical Parameters

This door type is specially designed for hybrid operating rooms - triple overlapping radiation protection doors.

Electrical Technical Specifications

Standard Power Supply	220~240V \pm 6% 50~60Hz
Optional Power Supply	100~120V \pm 6% 50~60Hz
Motor	AC36V low-voltage AC motor (two units)
Rated Power	450W
Standby Power Consumption	<10W
Frequency Conversion Technology	PMSM (FOC Field Oriented Control Technology)
Fuse	3.15A(220V)/5A(110V)
Operating Temperature	-20°Cto50°C
Ambient Temperature	-20°Cto50°C
Backup Battery	1 \times 12V DC700mAh

Operating Parameters

Adjustable Door Opening Speed	$\leq 0.5\text{m/s}$
Adjustable Door Closing Speed	0.6 to 1m/s
Maximum Acceleration	1.6m/s^2
Maximum Door Weight (Lead Door pb4.0)	1 \times 1500Kg
Maximum Door Weight (Lead Door pb4.0)	3 \times 1000Kg

Technical Specifications

Door Operator Dimensions (Height \times Depth)	300 \times 304mm
Maximum Door Operator Length	6000-8000mm
Single-Sliding Door Passage Width (Minimum/Maximum)	500-3500mm
Three-Sliding Door Passage Width (Minimum/Maximum)	500-3500mm
Maximum Height (Recommended Value)	3000-3500mm



pb4.0

Automatiktür öffnen

Functional Applications and Safety Configurations

Indoor and Outdoor	Full-open switch (for operating table passage)
Indoor and Outdoor	Half-open switch (for medical staff passage)
Indoor and Outdoor	Normally open switch (for equipment maintenance)
On the outer ceiling	Dual-monitoring safety sensors
On the inner ceiling	Dual-monitoring safety sensors



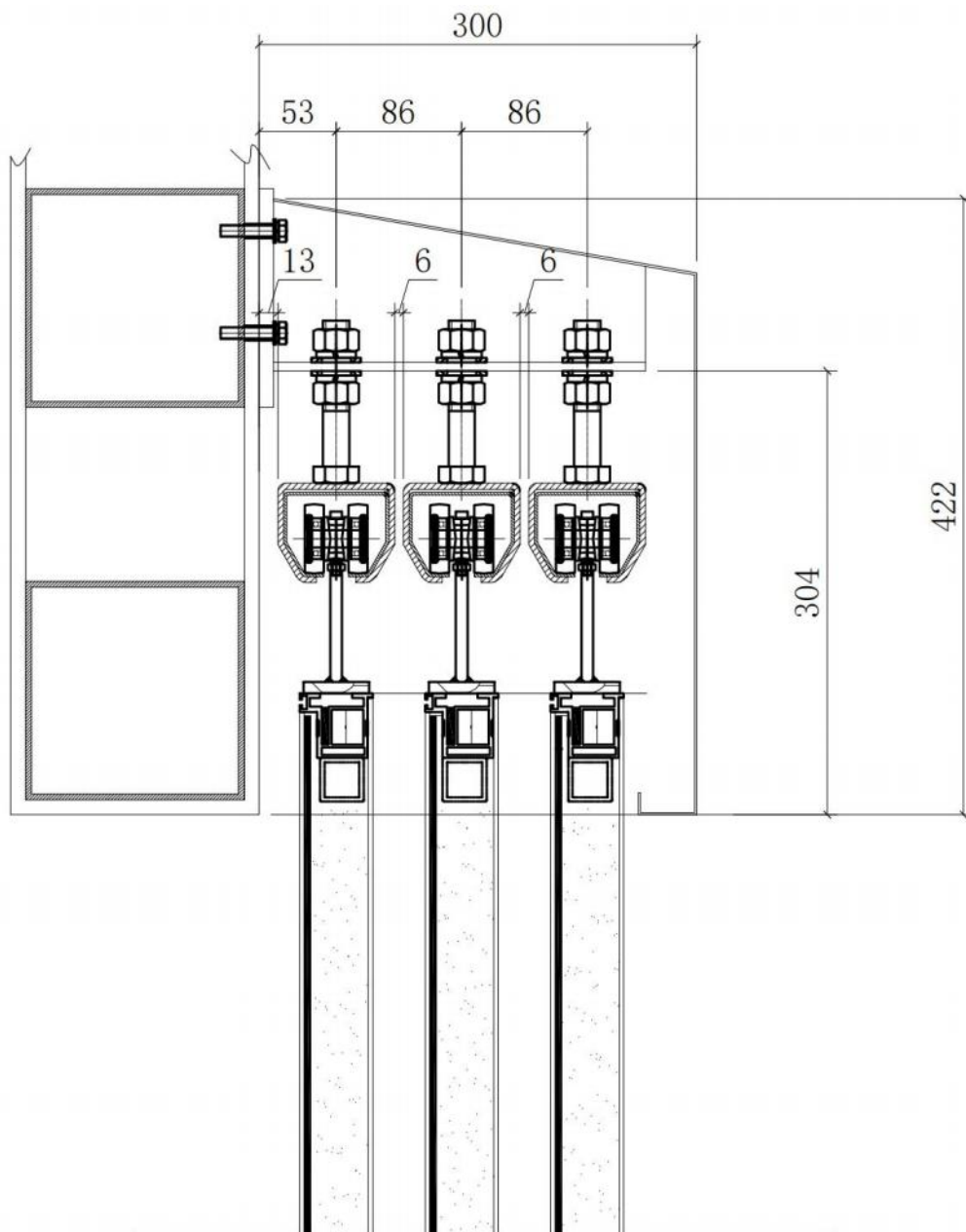
Door parameters

Door Parameters Technology:

1. Double-sided stainless steel $\geq 2.0\text{mm}$ (AISI 304#); surface sprayed with baking paint, color and pattern can be customized. The door leaf and internal frame are embedded with Pb4.0. The door thickness is 45-55mm (except for special customization). The door has double-sided fireproof coating. The special door core material has flame-retardant, fireproof, heat-absorbing and moisture-proof properties. The door seal adopts silicone strips and sealing strips. The four corners of the door are protected by integral of aluminum profiles. The overall door frame is of anodized aluminum profile structure, and the door surface panel is a whole board without seams.

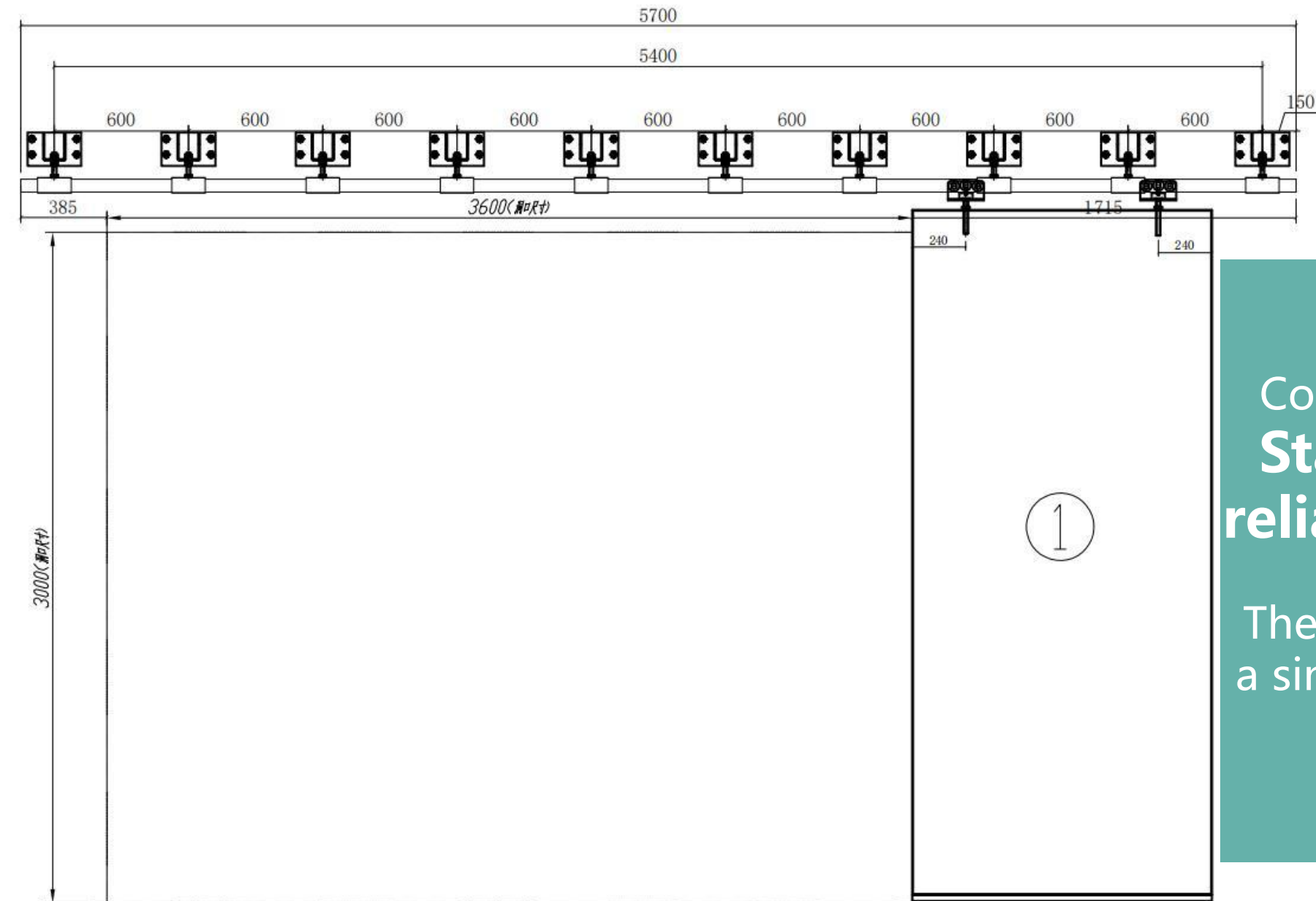
2. The overall door has dual-function selectivity: Function 1 - three door leaves are switched on and off simultaneously with linkage; Function 2 (when Function 1 fails) - the overall door can still be opened and closed one by one;





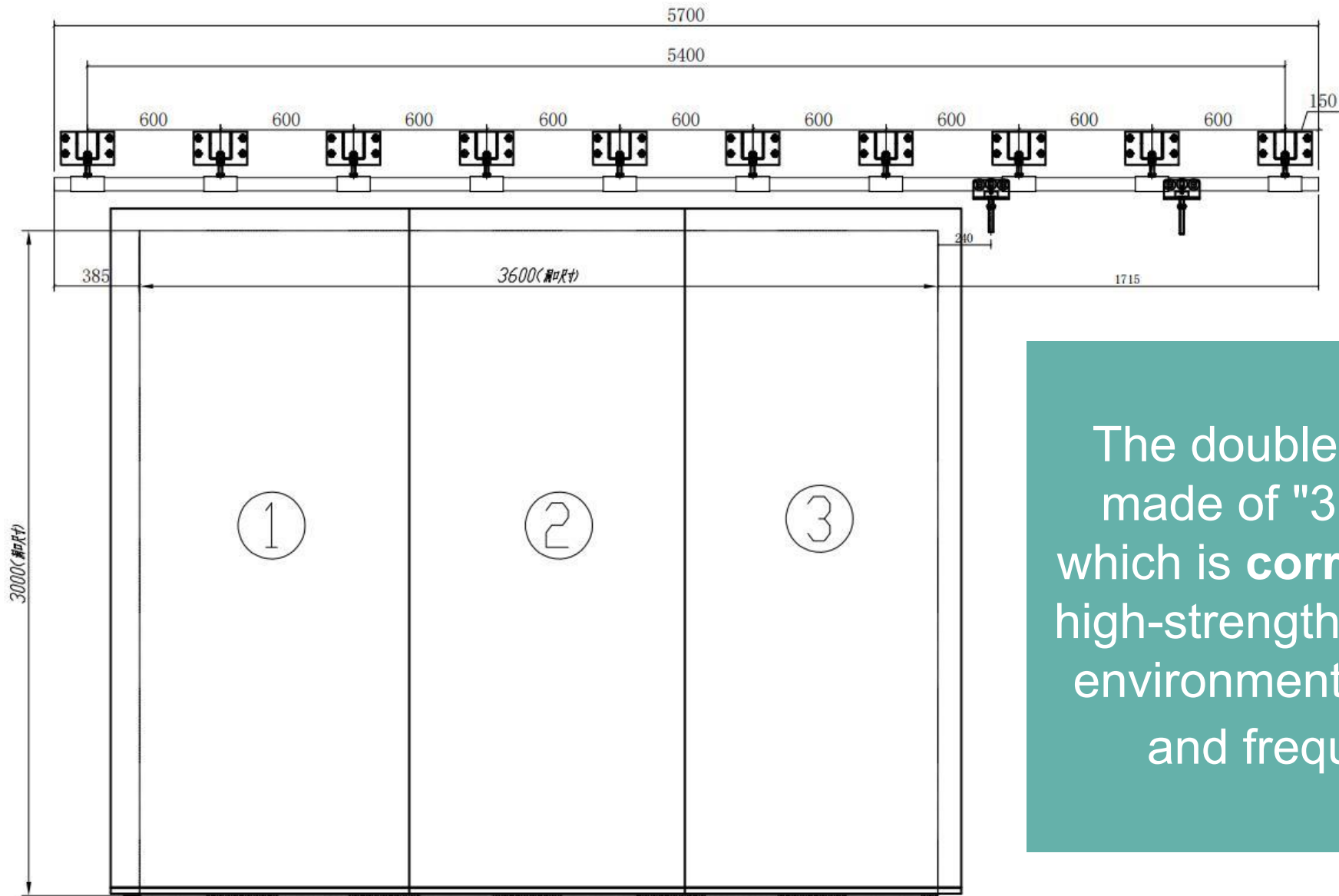
Heavy-duty Suspended Structure, **Safe** and stable operation.

- The combination of special nylon wear-resistant material wheel sets and steel rails achieves mute, wear-resistant and smooth effects.
- The special nylon material does not generate static electricity, accumulate dust or produce dust particles during operation.
- The mechanical balance structure of the wheel sets keeps the door body in a horizontal and vertical state at all times.

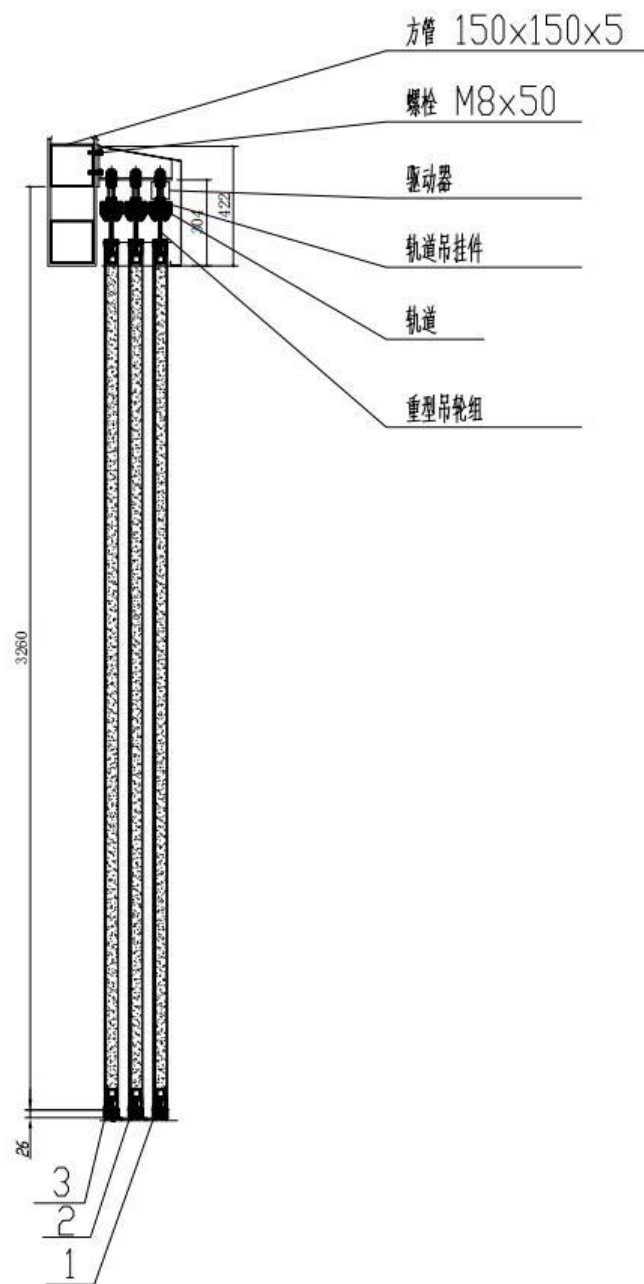


Combined Hoisting Design
**Stable structure and
 reliable load-bearing;**

The load-bearing capacity of
 a single track is $\geq 2T$, and that
 of three tracks is $\geq 6T$.



The double-sided door body is made of "316" stainless steel, which is **corrosion-resistant** and high-strength, suitable for medical environments with high humidity and frequent disinfection.



As a local support or protection component, it has precise dimensions and a compact structure, ensuring functions without occupying excessive space, and is equipped with a **unique structural interconnection design**.

When the triple-stack mechanical linkage device fails, the triple-stack door can **still operate normally**.



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