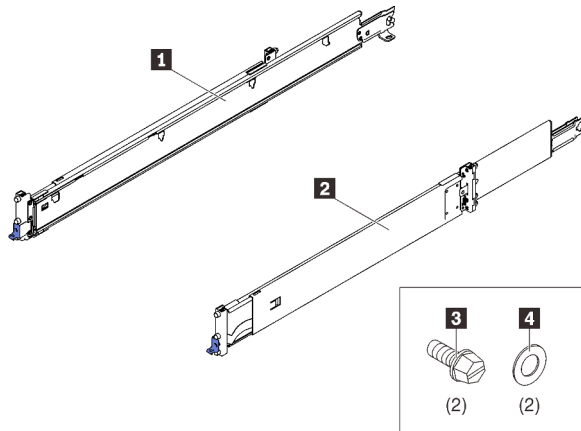


Rack Installation Guide

Rail kit parts inventory

The Toolless Rail Kit includes the following parts:



- 1** One left rail
- 2** One right rail
- 3** Two M5 screws
- 4** Two washers

Notes:

- This kit can be installed in both square hole and round hole rack.
- If any parts is missing, contact local service.

Read these guidelines first

Read the guidelines before installing the rail kit and system to the rack. Install the system to a rack that meets the following requirements:

- Minimum depth of 70 mm (2.76 inches) between the front mounting flanges and inside of the front door.
- Minimum depth of 214 mm (8.43 inches) between the chassis rear wall and inside of the rear door.
- The maximum distance between the front and rear mounting flanges is 812.8 mm (32.00 inches).
- If you want to install the rails and a 0U PDU into the same rack, the rack must meet the following height and depth requirements:
 - 42U or higher
 - Without CMA: at least 1000-mm (39.37-inch) deep
 - With CMA: at least 1200-mm (47.24-inch) deep
- Only install the system into a rack with perforated doors. Remove the rack doors and side panels for easy access during installation.
- When installing multiple units, start with installing the heaviest device to the lowest part of the rack.
- See the system *Maintenance Manual* or *Setup Guide* for the requirements of room air temperature.
- Do not block any air vents. Spare at least 15 cm (6 inches) of space for proper airflow.
- Do not leave the unoccupied space above or below an installed system in the rack empty. To prevent damage to system components, always install filler panels to cover unoccupied space to ensure proper air circulation.
- Do not leave more than one system slid out from the rack at the same time.
- Do not overload the power outlet when multiple devices are installed in the rack.

S036



18 - 32 kg (39 - 70 lb)



32 - 55 kg (70 - 121 lb)

CAUTION:
Use safe practices when lifting.

S037



CAUTION:
The weight of this part or unit is more than 55 kg (121.2 lb). It takes specially trained persons, a lifting device, or both to safely lift this part or unit.

R006

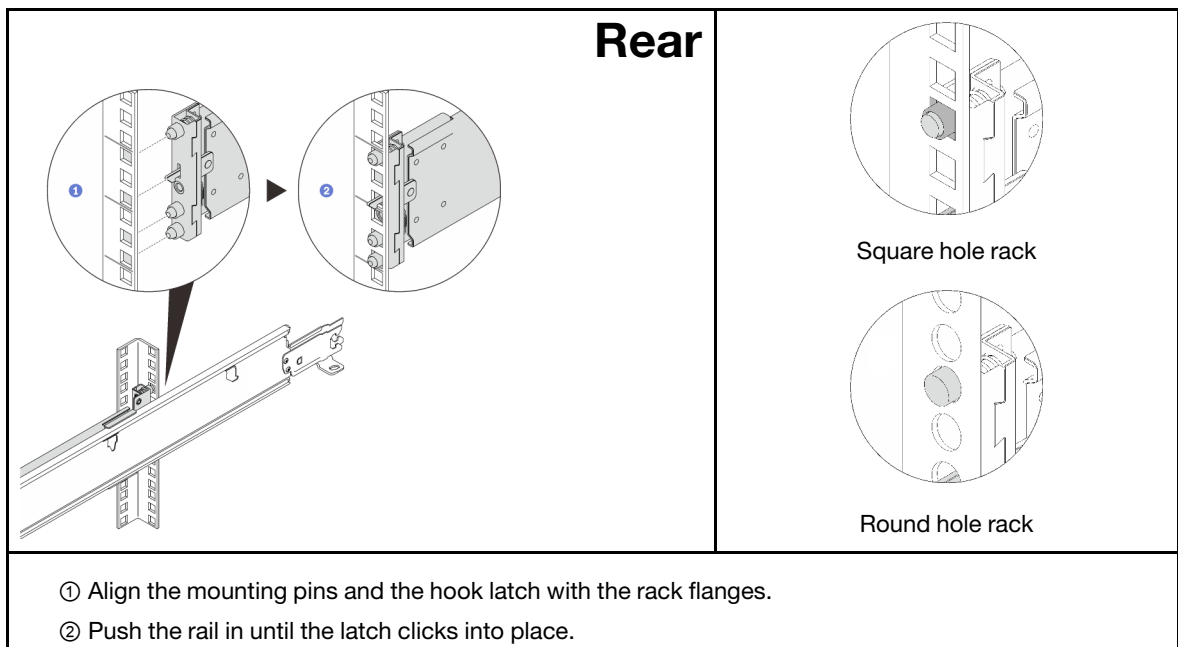


CAUTION:
Do not place any object on top of a rack-mounted device unless that rack-mounted device is intended for use as a shelf.

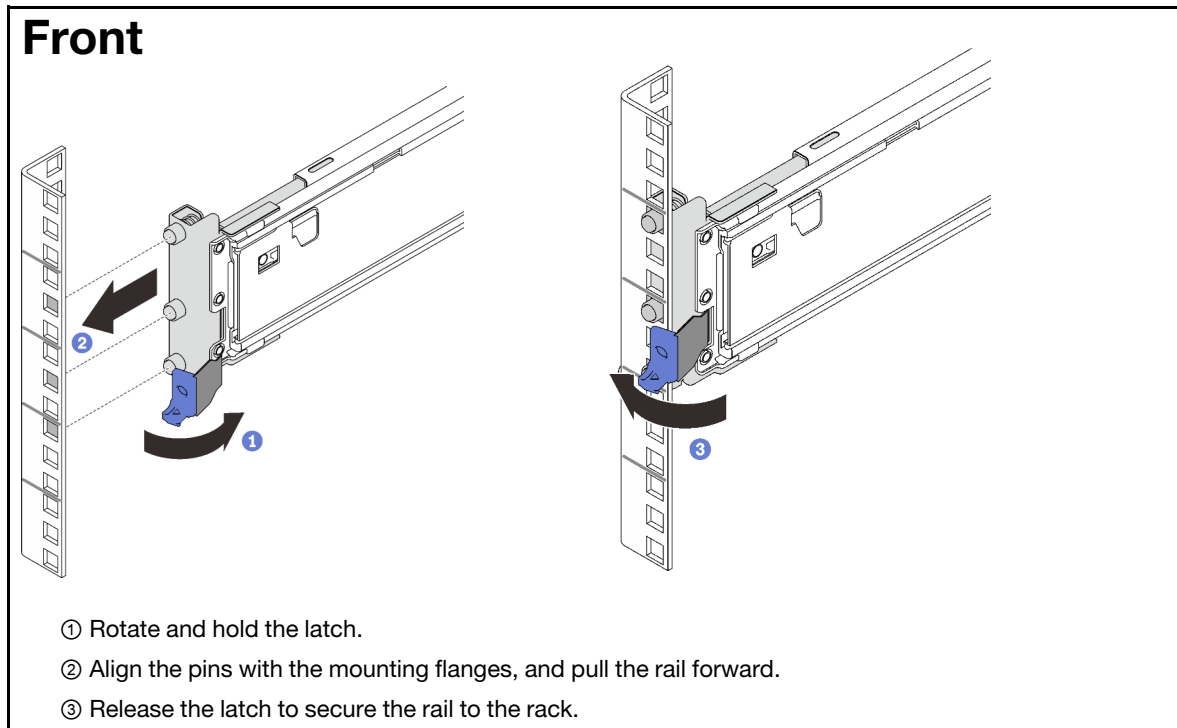
Install the rail kit to the rack

Note: (Optional) If the system is being installed into a shallow rack or with a 0U PDU in the rear, the CMA brackets may need to be removed to reduce the length of the rails (see [“Appendix: Remove the CMA bracket”](#) on page 11).

Step 1. Install the rear mounting pins to the rack.



Step 2. Install the front mounting pins to the rack.



Step 3. Repeat the previous two steps on the other rail.

Step 4. Proceed to [“System installation” on page 3](#).

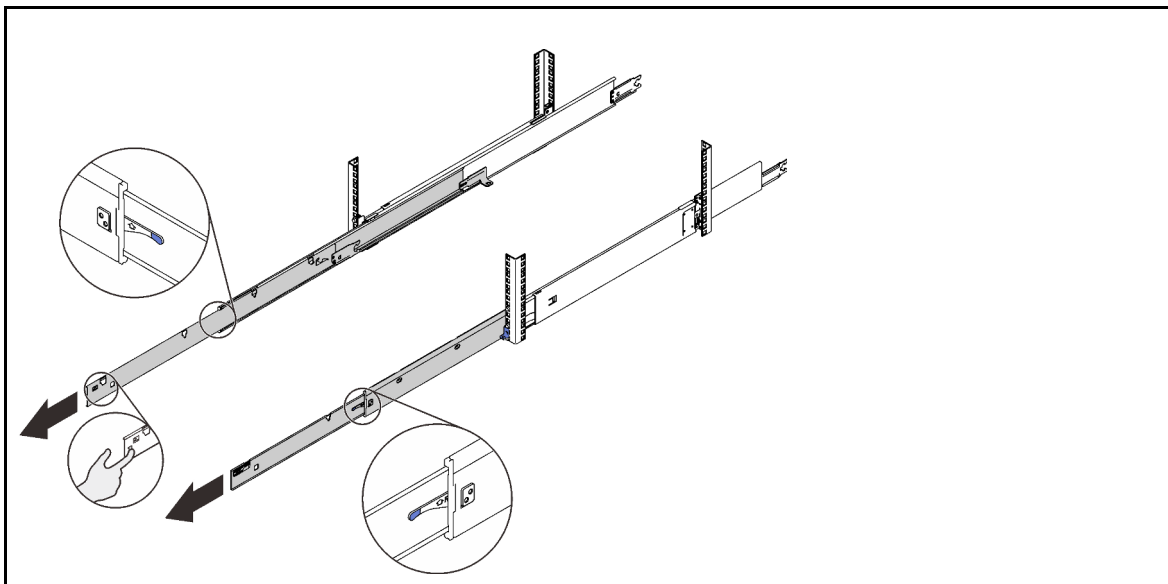
System installation

Choose the one that best suits the installation scenario from the following two options.








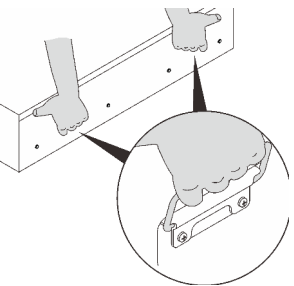
- [“Drop-in method” on page 4](#): ideal when installing the system into the lower part of the rack.
- [“Horizontal installation” on page 5](#): ideal in the following scenarios:
 - when a lift tool is available to support the system and allow precise alignment
 - when the system is to be installed above waist height

Drop-in method

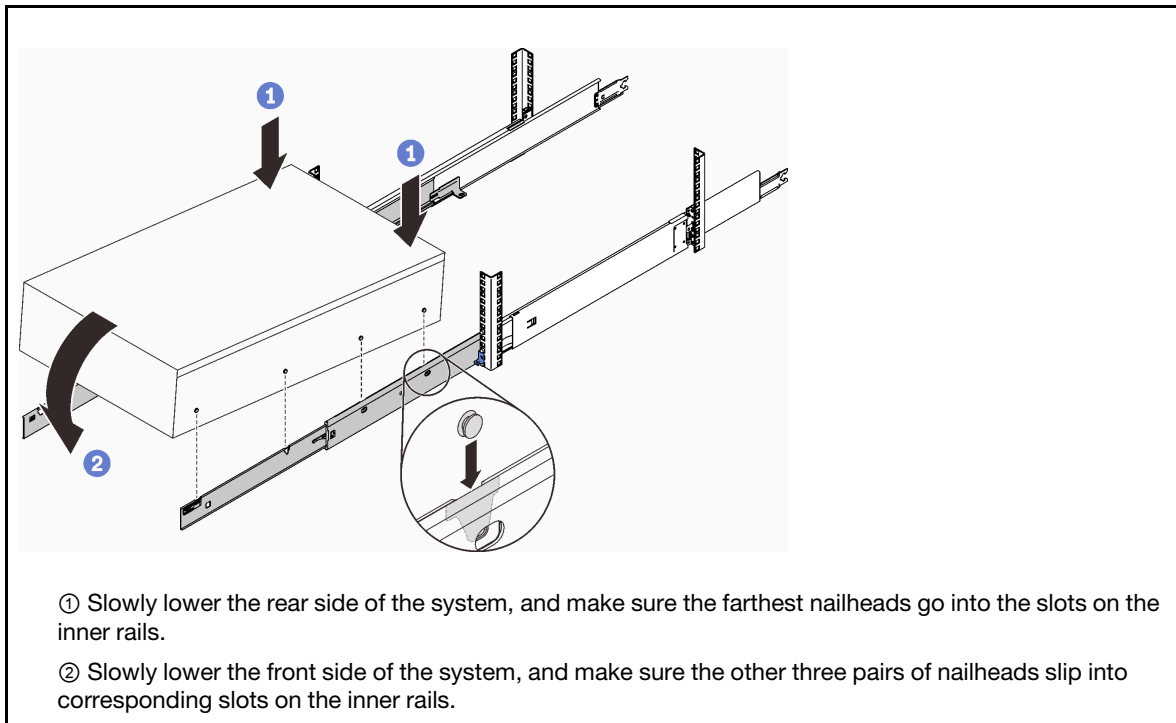
Step 1. Pull the inner rails all the way out until they stop.



Step 2. Lift the system. Two lifting options are available:




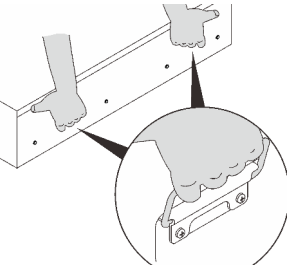
  <p>18-32 kg 39-70 lb</p> <p>For two-person lift, remove the following components beforehand:</p> <ul style="list-style-type: none">• All the power supply units• All the storage drives• Top cover• (If applicable) All the expansion trays	  <p>32-55 kg 70-121 lb</p>   <p>55-100 kg 121-220 lb</p>  <p>Otherwise, lift the system with three people or a lifting device.</p>
	<p>Note: When doing the lifting with people, make sure to lift the system by the handles.</p>

Step 3. Install the system onto the rack.

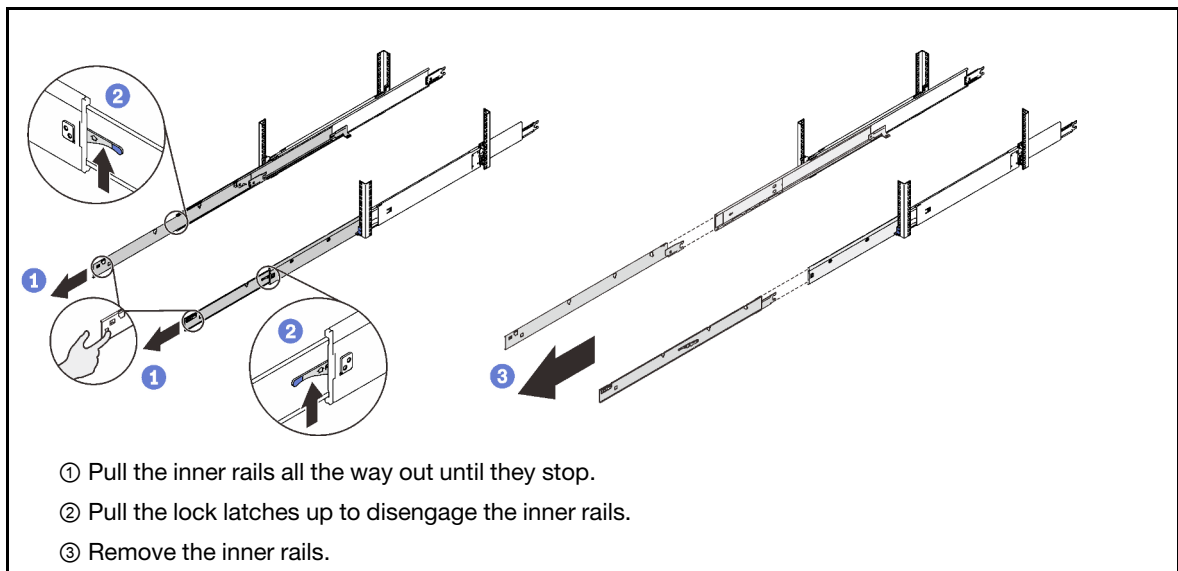


Horizontal installation

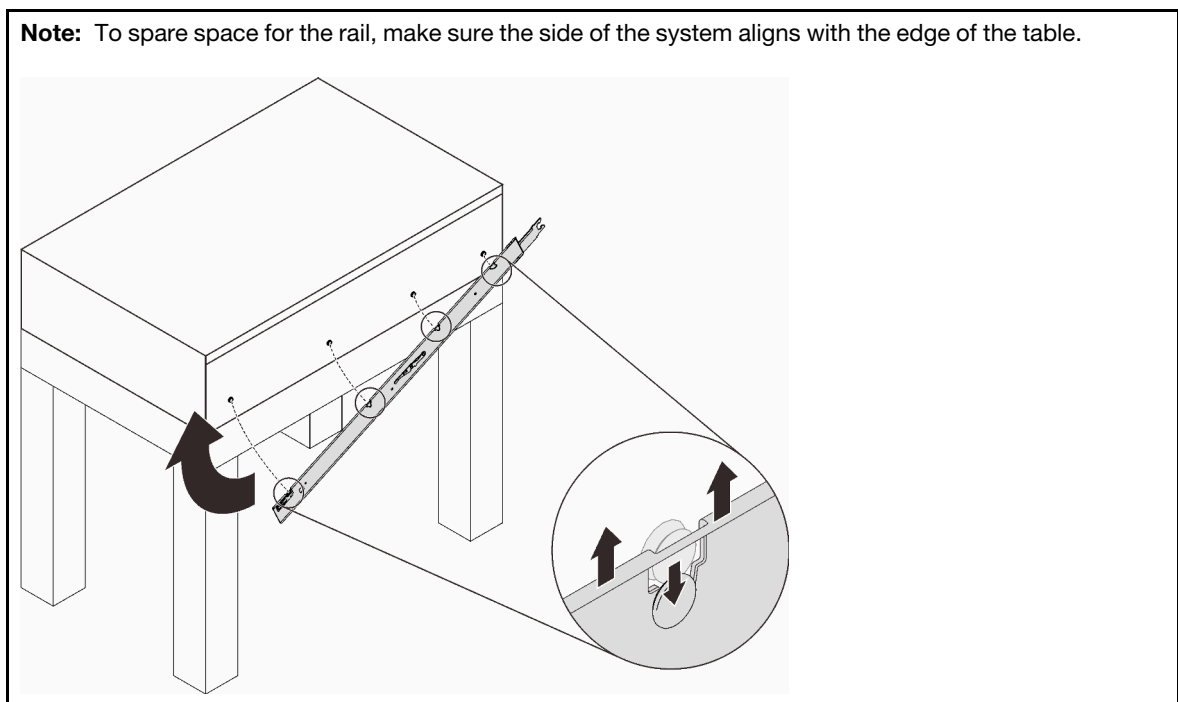
Step 1. Lift the system and place it on a table. Two lifting options are available:

 <p>18-32 kg 39-70 lb</p> <p>For two-person lift, remove the following components beforehand:</p> <ul style="list-style-type: none">• All the power supply units• All the storage drives• Top cover• (If applicable) All the expansion trays	 <p>32-55 kg 70-121 lb</p>  <p>55-100 kg 121-220 lb</p> <p>Otherwise, lift the system with three people or a lifting device.</p>
	<p>Note: When doing the lifting with people, make sure to lift the system by the handles.</p>

Step 2. Remove the inner rails from the intermediate rails.



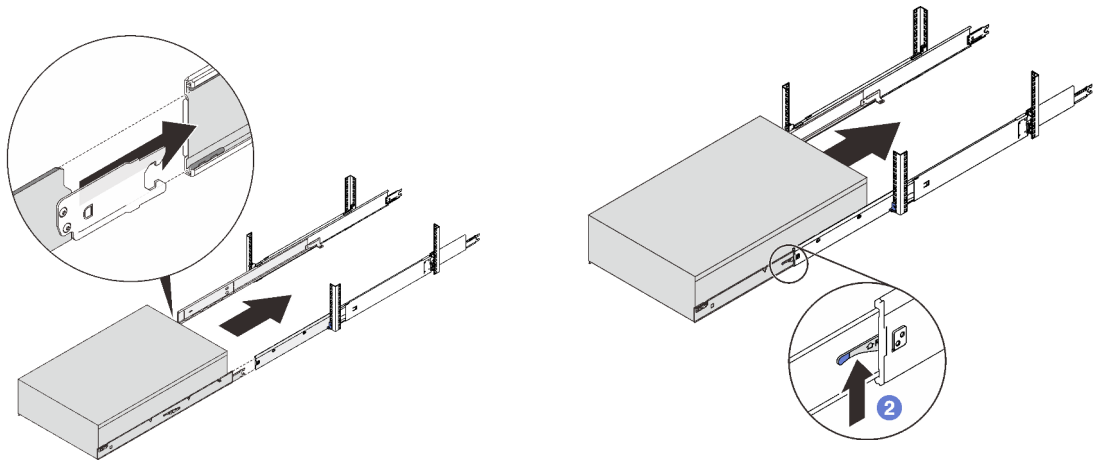
Step 3. Slip the rear nailhead into the corresponding slot on the inner rails; then, rotate the front end of the rail and make sure the other three nailheads go into the corresponding slots on the rail.



Step 4. Repeat the previous step on the other rail.

Step 5. Install the system to the rack.

Note: It is recommended to do this step with a lifting device that supports the system and allows precise alignment.

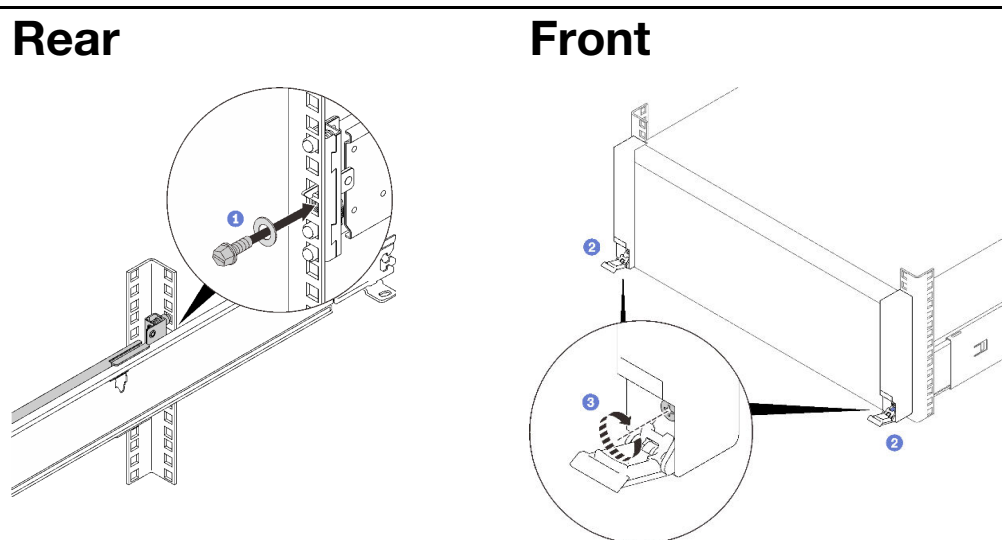


① Align the rear ends of the inner rails with the openings in the intermediate rails, and slowly push the system in toward the rack so the inner rails insert into the intermediate rails. Make sure the pairs of rails mate together correctly.

② Pull the lock latches up to unlock the rails, and slide the system all the way into the rack. Then, slide the system all the way out and all the way back in again to make sure the rails are working smoothly.

(Optional) Secure the system to the rack

Step 1. Secure the system to the rack.



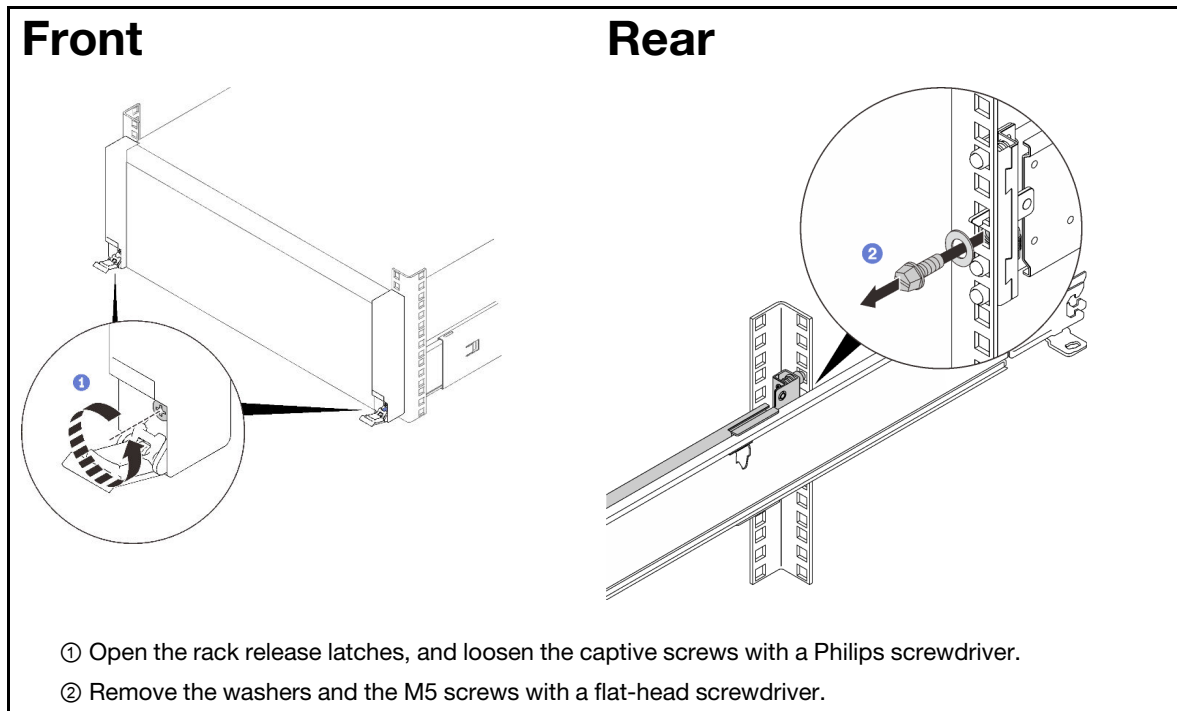
① Insert a washer and M5 screw to the hole below each hook latch, and fasten it with a flat-head screwdriver.

② Open the rack release latches.




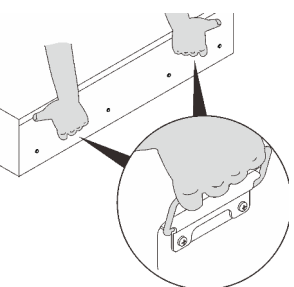
③ Fasten the captive screws with a Philips screwdriver.

System removal

Step 1. Disengage the system if it has been secured to the rack.



Step 2. Determine lifting method. Two lifting options are available:

 <p>18-32 kg 39-70 lb</p> <p>For two-person lift, remove the following components beforehand:</p> <ul style="list-style-type: none">• All the power supply units• All the storage drives• Top cover• (If applicable) All the expansion trays	 <p>32-55 kg 70-121 lb</p>  <p>55-100 kg 121-220 lb</p> <p>Otherwise, lift the system with three people or a lifting device.</p>
	<p>Note: When doing the lifting with people, make sure to lift the system by the handles.</p>

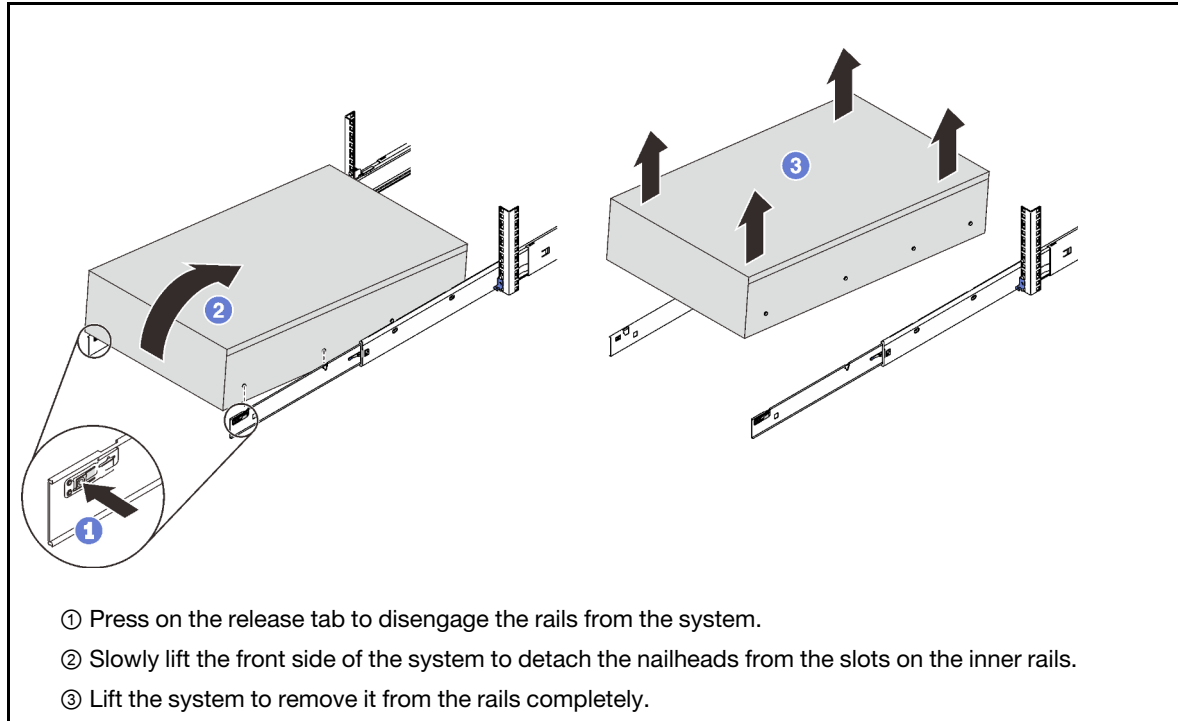
Step 3. Proceed to one of the following options to remove the system if it has been installed to the rack.

- [“Angled Removal” on page 9](#)

- [“Horizontal removal” on page 9](#)

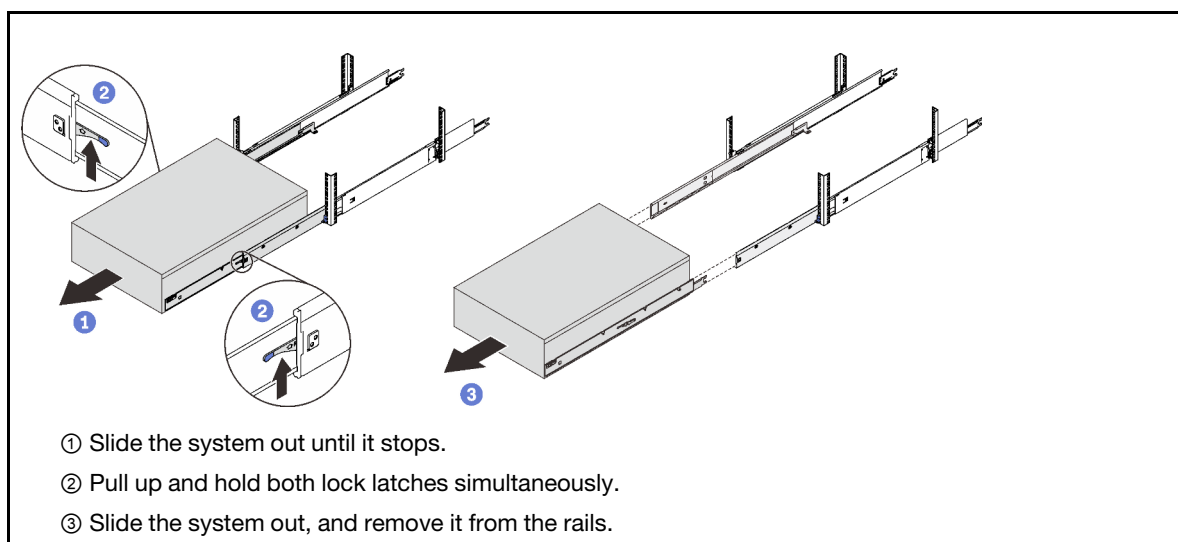
Angled Removal

Step 1. Remove the system from the rails.

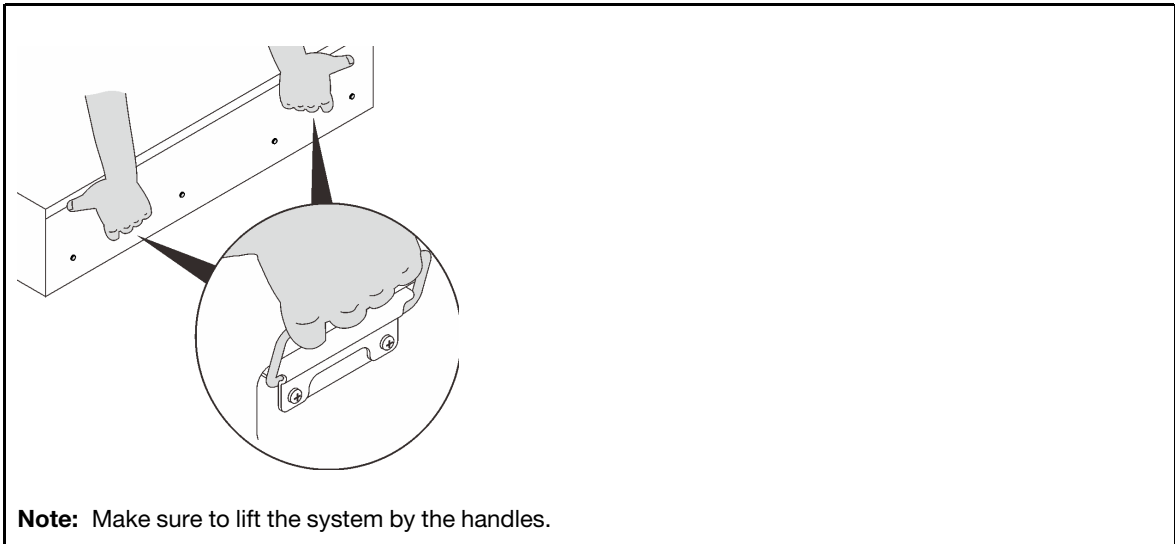


Horizontal removal

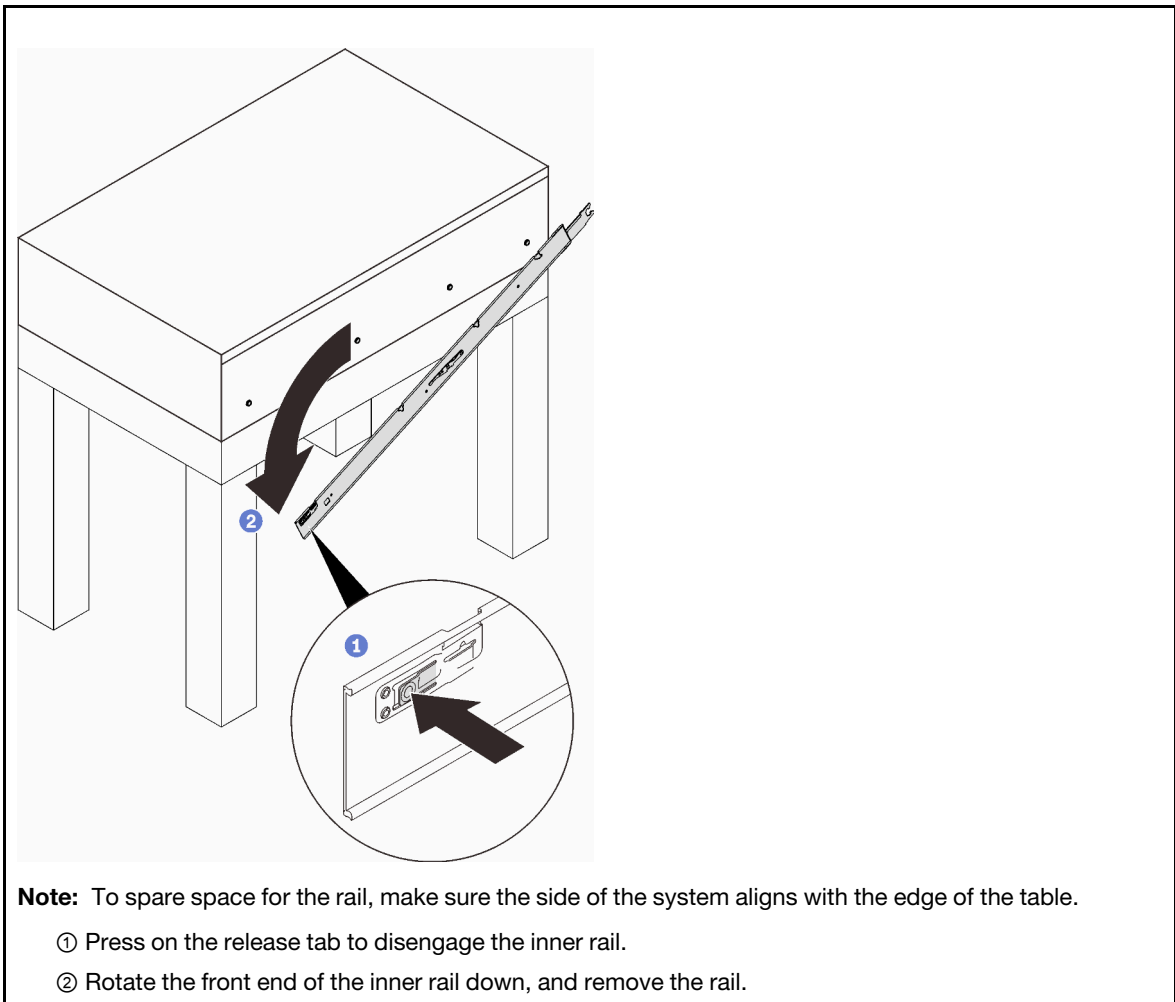
Step 1. Remove the system along with the inner rails.



Step 2. Lift the system and place it on the table.



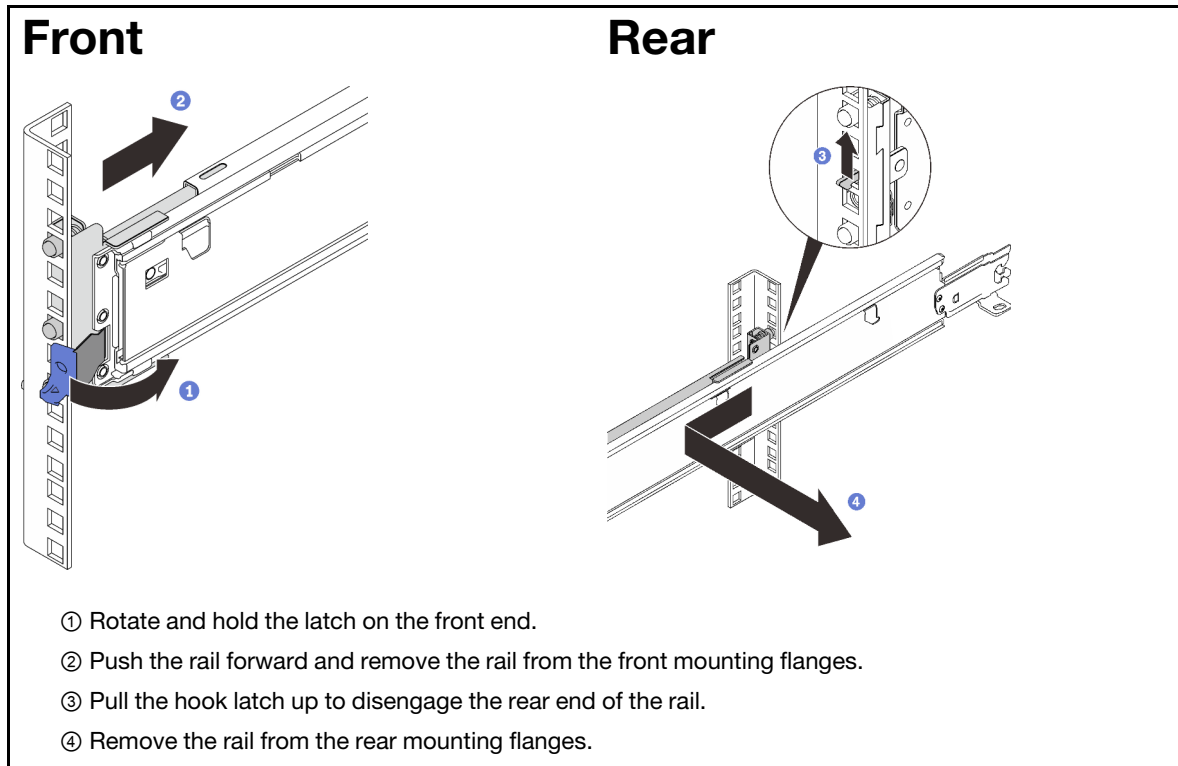
Step 3. Remove the inner rail from the system.



Step 4. Repeat the previous step on the other rail.

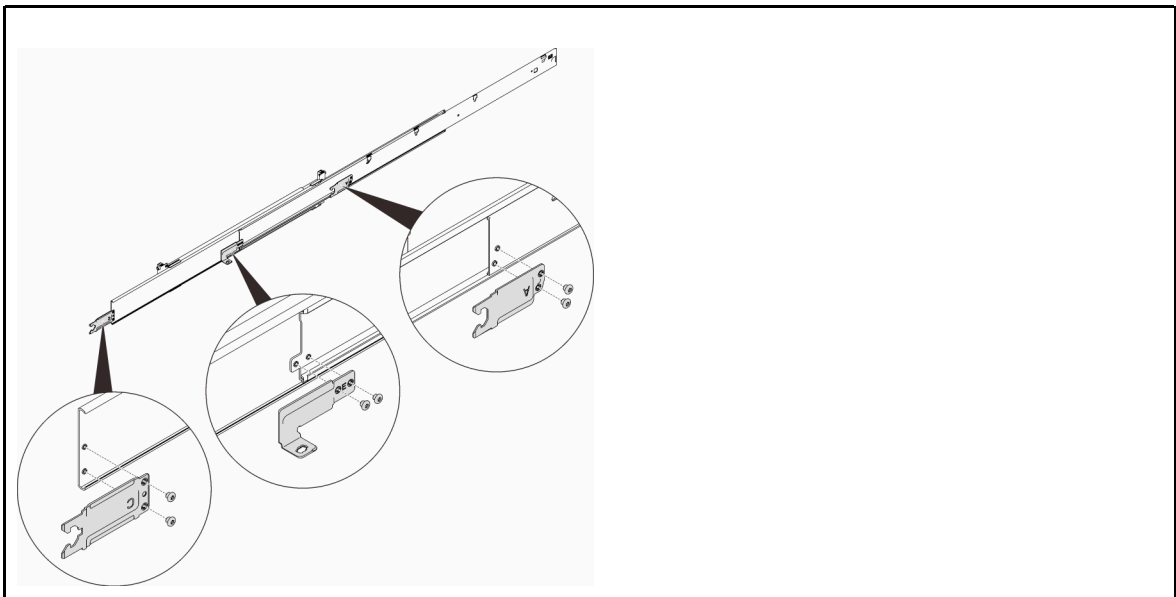
Remove the rails from the rack

Step 1. Remove the rails from the rack.



Appendix: Remove the CMA bracket

Step 1. To reduce the length of the rails, remove the screws that secure the three pairs of CMA brackets to the rails.



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