Miltech Simulations CH47D

Cargo Load Capabilities

> Caution
> External Cargo dropping and loading are currently incompatible with our carrier products. We are actively looking for solutions to this issue.

The CH47D is a highly versatile support helicopter, designed to carry heavy cargo loads and transport troops from land and sea into the battlefield. Whether in remote locations, or challenging terrains such as deserts and mountains, the CH47D excels in its role.

Our rendition of the CH47D Features full cargo-loading and carrying capabilities, both in the internal cargo bay, and externally using sling loads.

Internal Cargo Configuration

Internal Cargo Configuration

CLICK HERE FOR HOW TO LOAD INTERNAL CARGO

The spacious cabin can be used for carrying troops, vehicles, supplies, and equipment. This rendition of the CH47D includes:

- **Troops:** Depiction of a generic troop load being transported inside the helicopter.
- **Medvac:** Depiction of a generic Medical Evacuation setup, with two injured patients escorted by a special military medical team.
- **Special Ops Rhib:** Depiction of a Special Ops Rigid-Hull Inflatable Boat that can be deployed to (or rescued from) a combat field directly from the helicopter.
- **Pallets:** Depiction of a generic Pallet Setup for humanitarian aid, supply transport or heavy cargo transport.
- **Humvee:** Depiction of a heavy armored vehicle, transported inside the cargo bay. A total of two humvees can be transported - one inside the helicopter and one externally.

Loading Procedure

The Electronic Flight Bag (EFB) is used to load and unload internal cargo to the aircraft.

1. Turn on the EFB screen by pressing the ▣ **HOME** Button
2. Navigate to the **LOAD** page
3. Select "Internal Loads"
4. Load/Unload cargo by pressing on the available options.
5. A single cargo load type (External or Internal) can be active at any given moment.
6. Selecting a different load type will unload the active option, and load the selected option.
7. Loading any external cargo load will automatically unload any internal cargo.

External Cargo Configuration

External Cargo Configuration

> Caution
> **Beware of sling load limitations** - must fly at maximum 120kts and avoid violent maneuvers when carrying external loads.

CLICK HERE FOR HOW TO LOAD EXTERNAL CARGO

For oversized or heavy cargo that cannot be carried inside the cabin, the CH47D uses an external load configuration. This involves attaching the cargo to the helicopter using a sling. Depicted in brackets is the sling load configuration used in each case. This rendition of the CH47D includes:

- **[TANDEM] UAV Container:** Depiction of a generic UAV Container, used to control unmanned aerial vehicles from the battlefield.
- **[MID] Blackhawk Helicopter Fuselage:** Depiction of a Blackhawk Helicopter fuselage for rescue or transport operations.
- **[MID] Cargo Nets:** Large cargo nets for Vertical Replenishment Operations.
- **[TANDEM] Large Rhib:** Depiction of an oversize Rigid-Hull Inflatable Boat for patrol or SEAL operations.
- **[TANDEM] Humvee:** Depiction of a heavy armored vehicle, transported as a sling-loaded cargo.
- **[MID] Water Bucket:** For firefighting operations.

Cargo Hooks

The CH47D features three Cargo Hooks:

- [1] Front Fixed Cargo Hook
- [2] Mid Retractable Cargo Hook
- [3] Aft Fixed Cargo Hook

Hoist Modes

Four configurations can be used for different cargo loads:

- Tandem, in which both the front and aft hooks are used. Eg. UAV Container, Large Rhib, Humvee.
- Mid, in which only the mid hook is used. Eg. Blackhawk, Cargo Nets, Water Bucket.
- Aft, in which only the aft hook is used [NOT DEPICTED ON THIS PRODUCT]
- Front, in which only the front hook is used [NOT DEPICTED ON THIS PRODUCT]

Regardless of the sling configuration, weight is always added directly to the aircraft's center of gravity. This is due to the limitations of dynamic weight loading on MSFS.

Hoist mode must be selected on the overhead panel before picking up external loads. Selection of the Mid Hoist Mode will additionally operate the Hoist Door automatically.

Loading Procedure

The Electronic Flight Bag (EFB) is used to load and unload internal cargo to the aircraft.

1. Turn on the EFB screen by pressing the ▣ **HOME** Button
2. Navigate to the **LOAD** page
3. Select "External Loads"
4. Load/Unload cargo by pressing on the available options.
5. A single cargo load type (External or Internal) can be active at any given moment.
6. Selecting a different load type will unload the active option, and load the selected option.
7. Select the correct Sling Mode on the overhead panel. Sling mode depends on the type of load (Tandem or Mid). The tablet will display a blinking red error message if the sling mode is not configured correctly.
8. **The selected object will spawn near the aircraft - usually at 9 o'clock.** Takeoff and establish a hover.
9. Use the Tablet Radar to slowly approach the object:
10. Sustain a controlled hover. Altitude must be **at or slightly above the target altitude as indicated on the tablet.**
11. Approach the object slowly.
12. **Object (Red Dot) must be within the area marked by the green circle.** Keep altitude as close to the target as possible.
13. Sustain hover for a few seconds while the cargo is loaded.
14. Upon confirmation that cargo has been successfully loaded, apply collective and increase altitude.
15. **Cargo will be automatically dropped upon crossing below 50ft.**
16. **The cargo sling may break in high G/violent maneuvers.**
17. **Dropped cargo can be picked up again. However, you must increase the altitude >100ft before dropped cargo is available for pickup again.**