



PROGRAM
EXECUTIVE
OFFICE
SOLDIER

MODULAR LIGHTWEIGHT LOAD-CARRYING EQUIPMENT (MOLLE)

Project Manager Soldier Protection and Individual Equipment

Product Manager Soldier Clothing and Individual Equipment

<http://www.peosoldier.army.mil>

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Specifications

- **Component materials:** Water-repellent, military-specified fabrics and composites
- **Weight:** MOLLE Large Rucksack with frame and straps, 8 pounds empty; Tactical Assault Panel (TAP) with rifleman pouches, 4 pounds
- **Size:** One size
- **Color:** Universal Camouflage Pattern; MultiCam for Soldiers deploying or deployed to Operation Enduring Freedom, starting in August 2010

Program Status

Product improvements: 1) TAP (July 2010); 2) Medium Rucksack (July 2010); Improved Medic Set (2011)

"We loved the rucksack. It was amazing. You know, with the zipper at the bottom, you could just get the stuff out of the bottom of the rucksack instead of ruffling through your entire bag."

– SPC Vanessa Bonnes



The Modular Lightweight Load-carrying Equipment (MOLLE) system allows the Soldier to tailor individual loads to meet mission requirements with modular, flexible equipment.

The MOLLE is an integrated, modular load-carrying system designed for a variety of configurations, allowing Soldiers to tailor their individual loads to meet mission requirements. The basic MOLLE system is configured with the following items: Large Rucksack with an external frame and webbing to accommodate added components; the Tactical Assault Panel (TAP) with webbing; Waist Pack; Assault Pack; and Hydration System, all with compatible pouches and pockets. The MOLLE system's task/mission-specific sets are the Large Rucksack Set, Rifleman Set, Pistolman Set, Grenadier Set, SAW Gunner Set, and Medic Set.

The MOLLE system owes its modularity to the use of PALS, the Pouch Attachment Ladder System, a grid of webbing that consists of rows of heavy-duty nylon stitched onto load-carrying platforms such as backpacks and vests. It permits attachment of various MOLLE-compatible items such as holsters, magazine pouches, radio pouches, knife sheaths, and other gear. The wide variety of pouches allows Soldiers to tailor their load-carrying equipment to specific mission needs.

A number of improvements in the MOLLE system are underway, including: 1) replacing the Fighting Load Carrier with the Tactical Assault Panel, which is compatible with the safety release mechanism of the Improved Outer Tactical Vest; 2) introduction of a 3,000-cubic-inch Medium Rucksack to fill the gap for 3-day missions/72-hour packing list; and 3) an Improved Medic Set.

