



20MM UALS

Universal Ammunition Loading System

ARMAMENTS

AIRCRAFT PLATFORM SYSTEMS

The self-contained Universal Ammunition Loading System produced by General Dynamics Ordnance and Tactical Systems significantly reduces the time and manpower required to load all U.S. Air Force, Navy and NATO aircraft equipped with internal M61A1/M61A2 20mm Gatling gun systems produced by General Dynamics.

UALS consists of two sub-systems: a loader and a replenisher unit. The UALS loader transfers ammunition into the aircraft’s weapon system. External drive power is supplied by a GFE manual hand crank or by a self-contained pneumatic supply carried on the UALS. The pneumatic air cylinders can load up to three full UALS complements.

The UALS’s 2,100-round capacity loads either two A-7, four F-16, two F-15, three F-4E, three F-14 or three F-18 aircraft before it must be replenished.

A UALS replenisher is capable of accepting 20mm bulk (loose) or linked ammunition while simultaneously receiving and sorting spent cases and unfired rounds. It also strips ammunition tubes.

The replenisher reduces manpower requirements in the munitions area as only three crew members are required to replenish the UALS.

SPECIFICATIONS

Weight	Loaded	3,100lbs (1,409kg)
	Empty	1,928lbs (876kg)
Average Capacity	2,100 rounds (20mm)	
Average Loading Rate	400 rounds per minute (may be operated at higher rates up to 1,000 rounds per minute)	
Power Required	400 inch-pounds maximum (total systems & aircraft torque)	
Crew Required for Aircraft Loading	Two	

