

## CONTAINERS FOR HIGH AND LOW-VELOCITY AIRDROP

The A-Series of Cargo Delivery Container Assemblies is designed for the aerial delivery of supplies, disassembled equipment, or small items of ready-to-use equipment prepared for airdrop. The packed containers are used in conjunction with cargo delivery parachutes. The number and types of parachutes required to stabilize the load and slow its descent depend on the type of container used, the weight of the load, and the type of airdrop.



### TYPES OF AIRDROP

#### The Low-Velocity Airdrop

Low-velocity airdrop is the delivery of supplies and equipment from an aircraft in flight using cargo parachutes. The items are usually rigged with honeycomb under them. The cargo parachutes are attached to the top of the load. The parachutes slow the descent of the load and ensure minimum shock when the load hits the ground.

#### The High-Velocity Airdrop

High-velocity airdrop is the delivery of supplies and equipment from an aircraft in flight using a stabilizing parachute. The items are rigged with honeycomb under them. The stabilizing parachute is attached to the top of the load to maintain it in an upright position.

#### Free Drop

Free drop is the delivery of certain non-fragile items of supply from an aircraft in flight without the use of the parachutes or other retarding devices.

The Irvin A-Series containers are also designed and used for High-Altitude Airdrop Resupply from aircraft flying up to 25,000 feet (7,620 m).



### A-7A, A-21, A-22, A-23 CARGO DELIVERY CONTAINERS

#### A-7A Airdrop Cargo Sling Assembly

NATO Stock No.: 1670-00-251-1153

This assembly consists of four identical sling straps. The length of each strap is 188 inches (478 cm). Each sling strap is fitted with a parachute harness adapter (commonly called a friction adapter) and a floating D-ring. Loads weighing up to 500 lbs (227 kg) may be airdropped with an A-7A airdrop cargo sling assembly. Each A-7A cargo sling strap weighs 1-1/2 lbs (680 grams).



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## A-21 Cargo Bag Assembly

NATO Stock No.: 1670-00-242-9173

This assembly is an adjustable container. It consists of a sling assembly with scuff pad, fixed quick-release strap and assembly, two O-ring straps, three quick-release straps, and a 97 x 115-inch (246 x 292 cm) canvas cover. The A-21 cargo bag assembly has a 500-lb (227 Kg) load capacity.



## A-22 Cargo Bag Assembly

NATO Stock No.: 1670-00-587-3421

The A-22 cargo bag assembly is an adjustable cotton duck cloth/nylon and nylon webbing container. It consists of a sling assembly, a cover, and four suspension webs. The container weight is about 41 lb (19 Kg). The load may be rigged with or without a cover. The weight capacity for the container is 501-2200 lbs (227-998 Kg) without the weight of the parachute. The height will vary, but will not exceed 83 in (211 cm) with parachute unless specific rigging procedure authorizes it.

## Stretch A-22 Cargo Bag –and- Double A-22 Cargo Bag

NATO Stock No.: 1670-00-587-3421 / 1670-00-587-3421

Both these cargo bags consist of two A-22 cargo bag assemblies. The covers may or may not be used. Only six of the suspension webs are used. Nylon and cotton sling assemblies must not be mixed. The weight capacity of the load is 900-2200 lbs (408-998 Kg) without the weight of the parachute. The difference is in the rigging.



## A-23 Cargo Bag

NATO Stock No.: 1670-01-065-3748

The A-23 sling assembly is similar to the A-22 sling assembly, but it has additional support webs on all four sides with an additional D-ring on each side. The weight capacity of the load is 501-2200 lbs (227-998 Kg) without the weight of the parachute. The A-23 container assembly is used for HAARS drops, but may be used for A-22 drops.



*IRVIN products have been developed and tested for over 75 years to demanding specifications. They are in use worldwide and are endorsed by many nations as products of reliability and quality.*