

HELICOPTER RESCUE HARNESS Mk 4

SEARCH AND RESCUE EQUIPMENT

Military, Coastguard and Civilian Search and Rescue (SAR) Helicopters are tasked with the recovery of survivors and casualties from the sea and other difficult or inaccessible locations. The Irvin-GQ Helicopter Rescue Harness Mk 4 is used to lower a SAR crewman to survivors. The Helicopter Rescue Strop is used in conjunction with the harness and enables the SAR crewman and survivor to be hoisted up to the helicopter.



Helicopter Rescue Harness Mk 4

The Helicopter Rescue Harness Mk 4 is used when lowering the SAR crewman to assist in the rescue of survivors. When in use, it is fitted to the crewman and connected to the helicopter winch cable hook. The Rescue Harness consists of four main components:

- **The Harness Assembly** - A polyester canvas bucket seat to accommodate the SAR crewman. The bucket seat is fitted with integral, adjustable body, shoulder and leg polyester webbing straps
- **The Suspension Strop** - A short polyester webbing strap that attaches the harness to the helicopter winch cable hook
- **A Quick Release Fitting (QRF)** - Connects the suspension strop to the harness
- **An Extension Strop** - A polyester webbing strap 1.8 m (72 in) in length which may be used as an additional connecting line between the harness and the helicopter winch cable hook

The Helicopter Rescue Harness Mk 4 is normally used in conjunction with the Helicopter Rescue Strop, in which the survivor is hoisted up into the aircraft. (See over for details and part numbers of the Rescue Strops)



The Hi-Line Transfer Assembly

During rescue operations in high sea states, there is a danger of the SAR crewman being struck by the ship's masts or rigging. The Hi-Line Transfer Assembly enables the helicopter to be positioned to one side of a ship during rescue operations. The assembly consists of:

- A length of 7800 N (1750 lbs) braided nylon or polyester rope
Line lengths of 28 m (90 ft), 46 m (150 ft), 61 m (200 ft) and 76 m (250 ft) are available
- A line stowage container of rigid or fabric construction
- A lowering weight

Prior to lowering the SAR crewman, the Hi-Line is positioned on the vessel's deck using the lowering weight. The helicopter then moves clear of the vessel. The SAR crewman is lowered and the vessel's crew pull on the HI-Line to guide the SAR crewman onto the deck.

Assembly	Part No.	NATO Stock Number
Helicopter Rescue Harness Mk 4	MRI GQ 486	1670-99-105-7316
Hi-Line Transfer Assembly - 46 m (150 ft)	Fabric Stowage Container MRI GQ 1139	1680-99-750-2705
Hi-Line Transfer Assembly - 28 m (90 ft)	Rigid Stowage Container MRI GQ 1705/A	1680-99-573-6687
Hi-Line Transfer Assembly - 46 m (150 ft)	Rigid Stowage Container MRI GQ 1705/B	1680-99-573-6688
Hi-Line Transfer Assembly - 61 m (200 ft)	Rigid Stowage Container MRI GQ 1705/C	1680-99-573-6689
Hi-Line Transfer Assembly - 76 m (250 ft)	Rigid Stowage Container MRI GQ 1705/D	1680-99-573-6690

The Helicopter Rescue Harness and the Hi-Line Transfer Assembly can be supplied in configurations to suit specific helicopter types and operating procedures. Please enquire regarding specific types or designs to meet special requirements or potential applications.

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Helicopter Rescue Strop



The Standard Helicopter Rescue Strop is a nylon webbing strap 2.03 m (80 in) in length. D-rings fitted at each end attach the strop to the helicopter winch cable hook. A slider, through which the two ends of the strop pass, enables the strop to be drawn close to the body of the survivor. A webbing handle on the outside of the strop enables the SAR crewman to control and restrain the survivor. The SAR crewman can easily fit the strop to injured and uninjured survivors but, if required, uninjured survivors can easily don the strop without assistance. No special equipment or clothing is required to fit or use the strop.

Alternative strops with lengths (over the D-rings) of 1.73 m (68 in), 2.06 m (81 in), 2.22 m (87 in) and 2.51 m (99 in) to suit specific helicopter types can be supplied.

Hypothermic Lift Strop



The Hypothermic Lift Strop when used in conjunction with a standard rescue strop, allows survivors suffering from hypothermia to be lifted horizontally into the aircraft thus minimising the risk of a post rescue loss of blood pressure.

The strop is of the same construction as the standard rescue strop and is 2.13 m (84 in) in length, including the D-rings. Both rescue strops are placed over the survivor's head and then the hypothermic strop is moved down the survivor's body and placed around the lower legs so that the survivor is lifted in a semi-recumbent position.

The illustration shows both lift strops, the Hypothermic Lift Strop is blue and the Helicopter Rescue Strop is Yellow

Assembly	Part No.	NATO Stock Number
Helicopter Rescue Strop - 2.03 m (80 in)	GQ 21266	1670-99-362-7256
Helicopter Rescue Strop - 1.73 m (68 in)	GQ D 14020	To be advised
Helicopter Rescue Strop - 2.06 m (81 in)	GQ D 31299/1	1670-99-852-0417
Helicopter Rescue Strop - 2.22 m (87 in)	GQ D 31299/2	1670-99-500-6332
Helicopter Rescue Strop - 2.51 m (99 in)	GQ D 31299/3	1670-99-723-0495
Hypothermic Lift Strop	GQ D 40021	1670-99-750-2704

The Child Rescue Valise provides a means of winch lifting a small child into a SAR Helicopter when that child is too small to be lifted by a Helicopter Rescue Strop – See Marketing Data Sheet: **Child Rescue Valise**

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