

## BRAKE PARACHUTE FOR SUKHOI AIRCRAFT (SU-30)



## BRAKE PARACHUTE FOR SUKHOI AIRCRAFT (SU-30) Most Dependable Brake Parachute

### GENERAL INFORMATION:

The Twin Canopy 'Brake Parachute' is intended to reduce the landing run length of Sukhoi Aircraft or during aborted take-off at air speeds of at least 180 kmph and not exceeding 300 kmph & it is used by Indian Air Force. An Auxiliary chute is also provided which is a square shape canopy having area 0.980 Sq. m with coil spring stitched inside permanently.



### SPECIFICATION:

Aircraft Landing Speed (Normal)	: 260 kmph (72.2m/sec)
Aircraft Landing Speed (Emergency)	: 300 kmph (83.3m/sec)
Max. operational Load	: 234000 N (23861 Kgf)
Max. mass of Parachute System	: 24 kg
Design of Canopy	: Uni-cross
Surface Area of Main Parachute	: 24 m <sup>2</sup> each (2 nos.)
Span of Main Parachute	: 6.850 m
Life of Parachute	: 55 Streaming or 10 years whichever is earlier



Most Dependable Brake Parachute

FOR FURTHER ENQUIRIES  
PLEASE CONTACT:

**GLIDERS INDIA LIMITED**

GOVERNMENT OF INDIA UNDERTAKING, MINISTRY OF DEFENCE  
G.T. Road, Kanpur - 208013 U.P. (INDIA) Tel.: +91-512-2988487, 2988959

E-mail: [marketing@glidersindia.in](mailto:marketing@glidersindia.in), [corporate@glidersindia.in](mailto:corporate@glidersindia.in) Website: [www.glidersindia.in](http://www.glidersindia.in)

## BRAKE PARACHUTE FOR MIRAGE- 2000 AIRCRAFT



## BRAKE PARACHUTE FOR MIRAGE- 2000 AIRCRAFT

The Reliable One



### GENERAL INFORMATION:

The brake parachute is intended to reduce the Aircraft landing run of the aircraft and provides additional safety during emergencies. The main parachute is of uni-cross design with each cross strip of nylon fabric, 105 g measuring 5.280 m x 1.40 m provides canopy area of 13.5 Sq. m. An Auxiliary parachute of 1.410 in dia. is also provided which has circular shape.



### SPECIFICATION:

Aircraft Landing Speed (Normal)	: 300 kmph (160 knots)
Aircraft Landing Speed (Emergency)	: 390 kmph (210 knots)
Max. mass of Parachute System	: 13.5 kg
Design of Canopy	: Uni-Cross
Design of Auxiliary Parachute	: Circular
Surface Area of Canopy	: 12.84 Sq. mtr.
Across measurement of Canopy	: 5.28 m x 5.28 m
Life of Parachute	: 40 Streaming

The Reliable One

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## BRAKE PARACHUTE FOR JAGUAR AIRCRAFT



Brake Parachute you can count on



## BRAKE PARACHUTE FOR JAGUAR AIRCRAFT

Brake Parachute you can count on

### GENERAL INFORMATION:

The brake parachute is intended to reduce the Aircraft landing run of the aircraft and provides additional safety during emergencies. The main parachute is of circular shape design having dia. of canopy 5.64m provides canopy area as 24 Sq. m. The auxiliary parachute of hexagonal shape also provided to put into action the main parachute canopy.



### SPECIFICATION:

Aircraft Landing Speed (Normal)	: 150 knots
Aircraft Landing Speed (Emergency)	: 180 knots
Mass of Parachute System	: 11.5 kg
Design of Canopy	: Circular Ribbon Type
Dia. of Main Parachute	: 5.64 m
Area of Canopy	: 24 m <sup>2</sup>
Life of Parachute	: 10 Years or 40 Streaming whichever is earlier

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## BRAKE PARACHUTE FOR HAWK (AJT)



Brake Parachute for Advance Jet Trainer

## BRAKE PARACHUTE FOR HAWK (AJT) Brake Parachute for Advance Jet Trainer



### GENERAL INFORMATION:

The brake parachute is intended to reduce the Aircraft landing run of the aircraft and provides additional safety during emergencies. The shape of main parachute is Ring Slot and the area is 11.4 sqm. The auxiliary parachute of octagonal shape also provided to put into action the main parachute canopy.



### SPECIFICATION:

Maximum Deployment Speed	: 160 knots
Volume of Parachute Container	: 15" x 7" x 17"
Mass of Parachute System	: 6.0±0.2 kg
Area of Parachute System	: 11.4 sqm
Nominal dia. of Main Parachute	: 3.82 m
Life of Parachute	: 08 years or 45 Streaming Whichever is earlier

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E-mail: [marketing@glidersindia.in](mailto:marketing@glidersindia.in), [corporate@glidersindia.in](mailto:corporate@glidersindia.in) Website: [www.glidersindia.in](http://www.glidersindia.in)



## BRAKE PARACHUTE (HYBRID) FOR LCA (TEJAS)



## BRAKE PARACHUTE (HYBRID) FOR LCA (TEJAS)

Brake Parachute You Can Rely on

### GENERAL INFORMATION:

The brake parachute is intended to reduce the Aircraft landing run of the aircraft and provides additional safety during emergencies. The main parachute is of Uni-cross design having an area of  $17 \text{ m}^2$ . A spring loaded pilot chute has an area of  $0.05 \text{ m}^2$  is provided for initiating the auxiliary parachute. An auxiliary parachute of squared-shaped has an area of  $0.90 \text{ m}^2$  is provided for pulling main parachute out of deployment bag.



### SPECIFICATION:

Max. deployment Speed	: 285 kmph (Normal), 340 kmph (emergency)
Area of Canopy	: $17 \text{ m}^2$
Design of Canopy	: Uni-Cross
Weight of Parachute	: 10 kg
Shape of Auxiliary Parachute	: Square
Life of Parachute	: 08 years or 45 Streaming Whichever is earlier



Brake Parachute You Can Rely on

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## BRAKE PARACHUTE FOR MiG-21



Brake Parachute You Can Rely on



## BRAKE PARACHUTE FOR MiG-21

Brake Parachute You Can Rely on

### GENERAL INFORMATION:

The brake parachute is intended to reduce the Aircraft landing run of the aircraft and provides additional safety during emergencies. The main parachute is of Uni-cross design having an area of  $15.26 \text{ m}^2$ . An auxiliary parachute has an area of  $1 \text{ m}^2$  intended for withdrawal of the system from the container and actuation of it.



### SPECIFICATION:

Max. dep. Speed	: 180 kmph (Normal), 290 kmph (Emergency)
Canopy of dia.	: $15.26 \text{ m}^2$
Design of Canopy	: Uni-cross
Weight of Parachute	: 11 kg
Life of Parachute	: 45 Streaming (operational) or 10 years (storage) whichever is earlier

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## BRAKE PARACHUTE FOR MiG-29



Reliability at Core

## BRAKE PARACHUTE FOR MiG-29

Reliability at Core



### GENERAL INFORMATION:

The brake parachute is intended to reduce the Aircraft landing run of the aircraft and provides additional safety during emergencies. The main parachute is of Uni-cross design having an area of  $14.4 \text{ m}^2$ . A pilot chute has an area of  $0.05 \text{ m}^2$  consists of a bottom which mounts a side member with flaps, a sleeve and a spring has provided for initiating the auxiliary parachute. A Squared shape auxiliary parachute has an area of  $0.95 \text{ m}^2$  intended for withdrawal of the system from the container and actuation of it.

### SPECIFICATION:

Max. dep. Speed	: 180 kmph (Normal), 310 kmph(Emergency)
Area of Canopy	: $14.4 \text{ m}^2$
Design of Canopy	: Uni-cross
Weight of Parachute	: 8.2 kg
Shape of Auxiliary Parachute	: Square
Life of Parachute	: 55 Streaming (operational) or 10 years (storage) whichever is earlier



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## PARACHUTE TACTICAL ASSAULT-MAIN (PTA-M)



## PARACHUTE TACTICAL ASSAULT-MAIN (PTA-M)

For Smooth Deployment



### GENERAL INFORMATION:

The Parachute Tactical Assault –Main (PTA-M) has been developed for tactical military assault applications and for normal training purposes. The canopy is aero conical in shape which helps in avoiding post-inflation collapses and having 8 m flying dia. It has 16 air scoops for quick inflation of the canopy, 4 slits covered with net which helps in oscillation free descent and is provided with a anti-inversion net at the periphery to avoid malfunction like inversion/line over/blown periphery of the canopy. The parachute assembly consist of canopy, a bag inner for stowing the canopy, a pack outer which holds the canopy and bag inner in position and a 3-point attachment fully adjustable harness for comfortable wearing of the parachute by the jumper and a Carrying Bag.



### SPECIFICATION:

Max. Deployment speed	: 140 KIAS (Knots-Indicated Air Speed)
Drop altitude	: 300 ft. AGL (Min.) / 15,000 ft. AMSL (Max.)
Max. payload	: 150 kg
Rate of Descent	: 18 ft/sec.
Opening time	: 2.5 to 3 sec
Shock load	: Less than 5 g
Weight	: 14.00 kg
Main Parachute diameter	: 8 m (26.27 ft.)
Design of Canopy	: Aero conical
No. of Gore	: 28
No. of Panels	: 6
Life of Parachute	: 13 years or 100 jumps or whichever is earlier

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E-mail: [marketing@glidersindia.in](mailto:marketing@glidersindia.in), [corporate@glidersindia.in](mailto:corporate@glidersindia.in) Website: [www.glidersindia.in](http://www.glidersindia.in)

For Smooth Deployment



## PARACHUTE TACTICAL ASSAULT-RESERVE (PTA-R)



**For Emergency Escape**



## PARACHUTE TACTICAL ASSAULT-RESERVE (PTA-R) For Emergency Escape

### GENERAL INFORMATION:

The Parachute Tactical Assault –Reserve (PTA-R) has been developed for use during tactical military assault applications in conjunction with the PTA-M main parachute. This parachute assembly consists of a 7.0 m dia. Canopy flat circular in shape, a pack cover, a deployment spring and a pilot parachute. The parachute assembly, weighing 6.5 kg is designed for attaching at the chest harness rings for manual operation with the rip cord handle provided at the right side.



### SPECIFICATION:

Max. Deployment speed	: 150 knot
Drop altitude	: 300 ft. AGL(Min.) / 15,000 ft AMSL(Max.)
Max. weight/ payload	: 130 kg (286.6 lbs)
Opening time	: 2.5 sec
Rate of Descent	: 7.5 m (24.6 ft) /sec
Weight	: 6.5 kg (14.33 lbs)
Canopy diameter	: 7 m (22.96 ft)
Design of Canopy	: Flat, Circular
No. of rigging lines	: 20
No. of Gore	: 20
No. of Panels	: 5
Life of Parachute	: 13 years or one Emergency Escape whichever is earlier

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## PARACHUTE TACTICAL ASSAULT- GAJRAJ(PTA-G2)



## PARACHUTE TACTICAL ASSAULT- GAJRAJ(PTA-G2)

### Advance Personnel Parachute



#### GENERAL INFORMATION:

The Parachute Tactical Assault – Gajraj i.e. PTA (G2) is an advance version of existing PTA (G) personnel parachutes system. The proposed parachute system will enhance the capability of paratroopers in term of deployment velocity and deployment altitude. In existing parachute system, the paratrooper can be deployed up to speed of 400 kmph keeping maximum shock value within permissible limit. This parachute system can be used by paratroopers in airborne operations both for normal & high altitude drop zones



#### SPECIFICATION:

Air Craft	: High Speed Aircraft IL-76 and C-17 as well as AN-32, C-130J and Rotary Wing Aircraft
Deployment	: Static Line Operation, Rip Cord Handle or Pre-set operation of the Automatic Activation Device (AAD)
Aircraft Speed	: 120-400 kmph
Load Capacity	: 140 kg (All Up Weight)
Drop Altitude	: 450 m AGL-5000 m AMSL
Rate of Descent	: 5.5 m/s
Steerability	: Steering 360° in either direction via control toggles
Weight of Parachute Assembly	: 13.5 kg (Static line operation) & 14.5 kg (AAD)
Jump Life	: 100 jumps
Shelf Life	: 15 years

Advance Personnel Parachute

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# HIGH ALTITUDE PARACHUTE (HAP)



Deployment at Height

# HIGH ALTITUDE PARACHUTE (HAP)

Deployment at Height



## GENERAL INFORMATION:

The High Altitude Parachute (HAP) assembly has been designed for use during Para trooping operation and normal para-jump training from transport aircraft. This is a single stage static line parachute for high altitude and normal jump. The parachute assembly consist of canopy, a bag inner for stowing the canopy, a pack outer which holds the canopy and bag inner in position and a 3-point attachment fully adjustable harness for comfortable wearing of the parachute by the jumper and a Carrying Bag. The canopy having nominal dia. of 10.66 m is steerable with a 2T openings on gores no. 4, 5, 6 and 26,27,28 which helps in braking and steering during descent.

## SPECIFICATION:

Release Speed	: Up to 240 kmph
Deployment Height	: 750 ft. AMSL(Min.) / 15,000 ft AMSL(Max.)
Rate of Descent	: 3.4 m/sec.
Weight	: 15.00 kg (Approx.)
Main Parachute diameter	: 10.66 m
Design of Canopy	: Parabolic
No. of rigging lines	: 30
No. of Gore	: 30
No. of Panels	: 5
Life of Parachute	: 13 years or 100 jumps whichever is earlier

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## AIRCREW PARACHUTE CHEST TYPE MK-I



For Emergency Escape



## AIRCREW PARACHUTE CHEST TYPE MK-I For Emergency Escape

### GENERAL INFORMATION:

This assembly of parachute is used by Air Crew who occupy position in which it is not practicable to wear a parachute all the time. The Pack containing the Canopy and Auxiliary parachute is made detachable from the Harness and is kept in a prepared stowage. In case of an emergency it is hooked on to the Harness which is worn by the Crew all the time during flight. The assembly consists of 35 feet diameter Canopy extended skirt in shape which provides safe rate of descent even at high altitude terrain.



### SPECIFICATION:

Aircraft Speed	: 100 to 160 knots
Release height	: 150 m AGL (Min.) / 7620 m AMSL (Max.)
Mass of Parachute System	: 13.4 kg
Design of Canopy	: Extended Skirt
Diameter of Parachute	: 35 feet / 10.66 m
Rate of decent	: 5 m/sec
No. of rigging lines	: 30
Life of Parachute	: 10 years (Storage) or one emergency escape whichever is earlier

FOR FURTHER ENQUIRIES  
PLEASE CONTACT:

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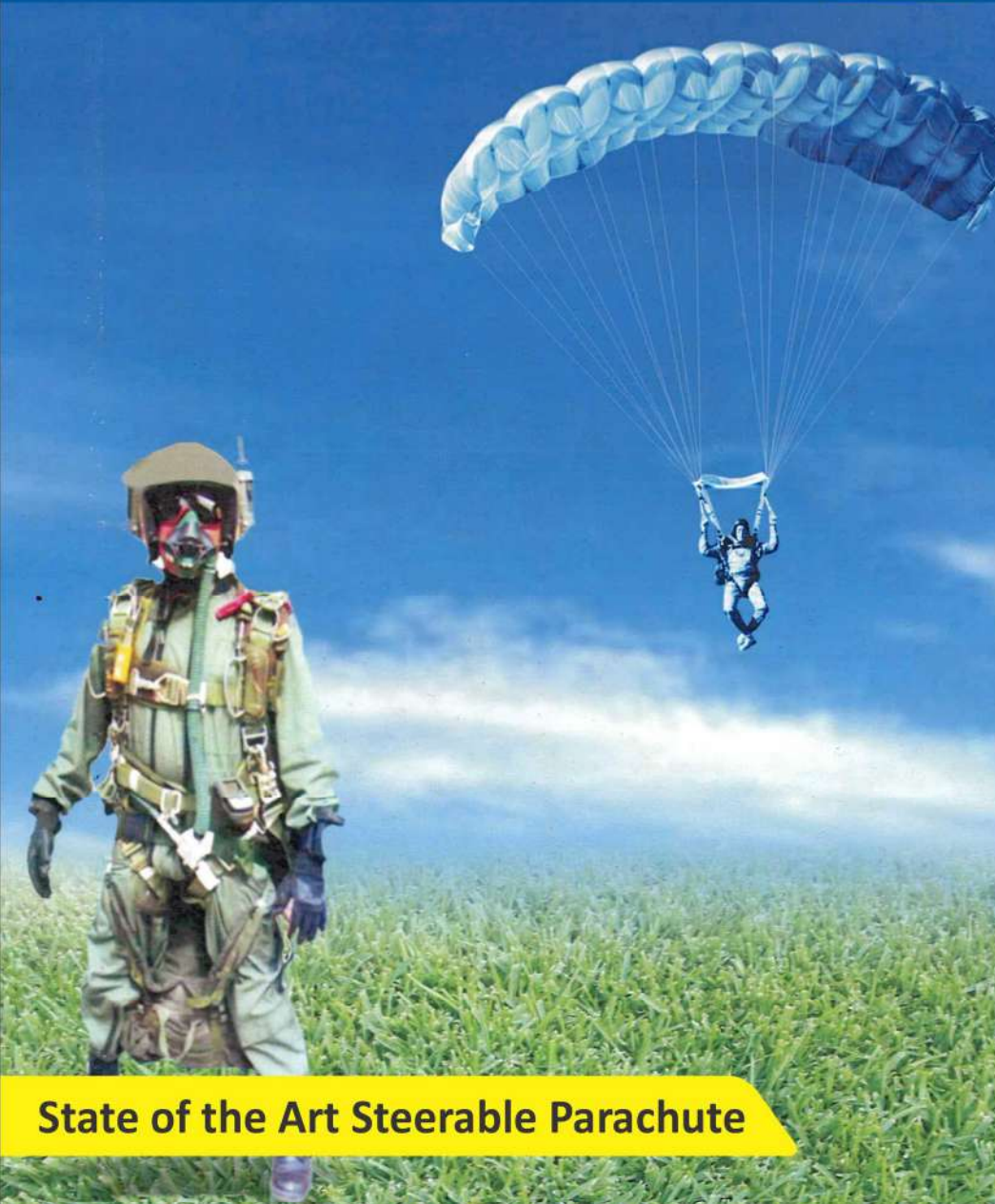
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## RAM AIR 9 CELL PARACHUTE (COMBAT FREE FALL PARACHUTE)



## RAM AIR 9 CELL PARACHUTE (COMBAT FREE FALL PARACHUTE) State of the Art Steerable Parachute



### GENERAL INFORMATION:

Ram Air Parachute is a highly steerable, manoeuvrable & provides pinpoint landing for clandestine and deep penetration into enemy territory. A paratrooper to jump from an aircraft flying at an altitude 0.3 km to 10 km. Parachute can be deployed just after exit i.e. High Altitude High Opening (HAHO) mode or after a free fall from some altitude i.e. High Altitude Low Opening (HALO) mode. The glide ratio of 3.5:1 is achieved using a high performance 9-cell Ram Air parachute packed in a tandem pack cover fitted on back of paratrooper. The main and reserve parachute canopies used in CFF are identical, therefore compactness of team is maintained even in case of any unlikely event with any team member.



### SPECIFICATION:

Design of Canopy	: Aerofoil
No. of Cells	: 9
Lift to drag ratio	: 3.5:1
Rate of Descent (Full Glide)	: 3.0 – 4.30 m/sec
Rate of Descent (Half Brakes)	: 1.5 – 3.00 m/sec
Rate of Descent (Full Brakes)	: 0.6 – 1.75 m/sec
Rate of Descent (Flared Brakes)	: 0.0 – 0.60 m/sec
Turn rate	: 15 Sec for a full turn of 360 Degree
Forward Speed	: up to 40 kmph
Opening Time	: 3-4 Sec
Max. Pay load	: 150 kg
Weight of System	: 18 kg (Max.)
Altitude of Operation	: 0.3 to 10.00 km AGL
Max. Deployment Velocity	: 280 kmph for free fall mode
Life of Parachute	: 13 years or 250 jumps whichever is earlier

State of the Art Steerable Parachute

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## BOAT ASSAULT PNEUMATIC LIGHT WEIGHT-1A (BAPLW)



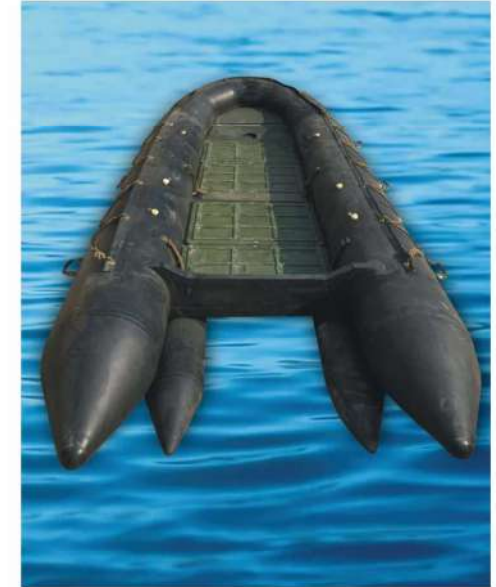
State of the Art Assault Boat



## BOAT ASSAULT PNEUMATIC LIGHT WEIGHT-1A (BAPLW) State of the Art Assault Boat

### GENERAL INFORMATION:

The Boat is intended to carry 12 fully armed and equipped men including two crews. An OBM 35 to 45 HP or paddles can be used for propulsion of the boat at a free board of 250 mm (1500 kg load). The boat has a 'U' shaped hull having two buoyancy tubes made out of rubberized nylon. The upper main buoyancy tube has a diameter of 500 mm and the lower buoyancy tube has a diameter of 250 mm. The main buoyancy tube has been divided into 6 compartments each fitted with a valve for inflation and deflation. The lower buoyancy tube has got one inflation/deflation valve at the stem end.



### SPECIFICATION:

Overall Length	: 4950 mm
Overall Width	: 1900 mm
Hull Diameter	: 500 mm
Carrying Capacity	: 12 Fully armed men including two crews.
Weight	: 74 kg (Max.) without Floor & Accessories 121 kg with Floor & Accessories
Free Board	: 300 mm at 1200 kg load 250 mm at 1500 kg load 200mm at 2000 kg load (in full capacity)

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# FLOAT ASSEMBLY FOR KM BRIDGE



# FLOAT ASSEMBLY FOR KM BRIDGE

A Reliable Floating Bridge



## GENERAL INFORMATION:

The Float is pneumatic and when inflated, it serves as a floating pier for the KM Bridge for crossing rivers and rivulets. The float has 12 equal capacity compartments with one valve and one inner (centre) compartment with 4 valves. When inflated it is prism-shaped with lifted bow and stern ends. Float is provided with 28 straps for tying the saddle assembly to the float. It is deflated, rolled up and packed in a cover 'Paulin Assembly'.



## SPECIFICATION:

### Critical Dimensions of Float when Outer Compartments inflated to 125 g/cm<sup>2</sup> Pressure

- Length : 12000 mm
- Width : 3000 mm
- Float Diameter : 1000 mm
- Length of Centre Portion (leg part) : 5600 mm 1735 mm

### Dimensions of Float when packed in Paulin Assembly

- Length : 1750 mm (Approx.)
- Diameter : 1150 mm (Approx.)
- Weight of (deflated) Float : 360 kg (Approx.)
- Weight of Paulin Assembly : 20 kg (Approx.)

### Carrying Capacity (Outer Compartments inflated to 125 g/cm<sup>2</sup> and middle to 10 g/cm<sup>2</sup>)

- For depth of immersion 500 mm : 13 Ton
- For depth of immersion 1000 mm : 26 Ton
- For complete immersion : 34 Ton

A Reliable Floating Bridge

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## SPLINT INFLATABLE



## SPLINT INFLATABLE

Protection with Comfort



### GENERAL INFORMATION:

The Splint Inflatable is one sided rubberised, leg shaped inflatable tube provided with a closed end medium duty plastic Slide fastener, spout and a separate air filling assembly.

Splint Inflatable is used to prevent the fractured hand of injured person from further dislocating. It is worn by the injured person and then air is filled into the Splint Inflatable which reduces the blood flow to the affected area.



### SPECIFICATION:

- Made of rubber coated nylon fabric.
- Waterproof.
- Zip provides ease of putting on.
- Provides comforts to the injured as the body movement is prevented by air filled in.

Protection with Comfort

FOR FURTHER ENQUIRIES  
PLEASE CONTACT:

**GLIDERS INDIA LIMITED**

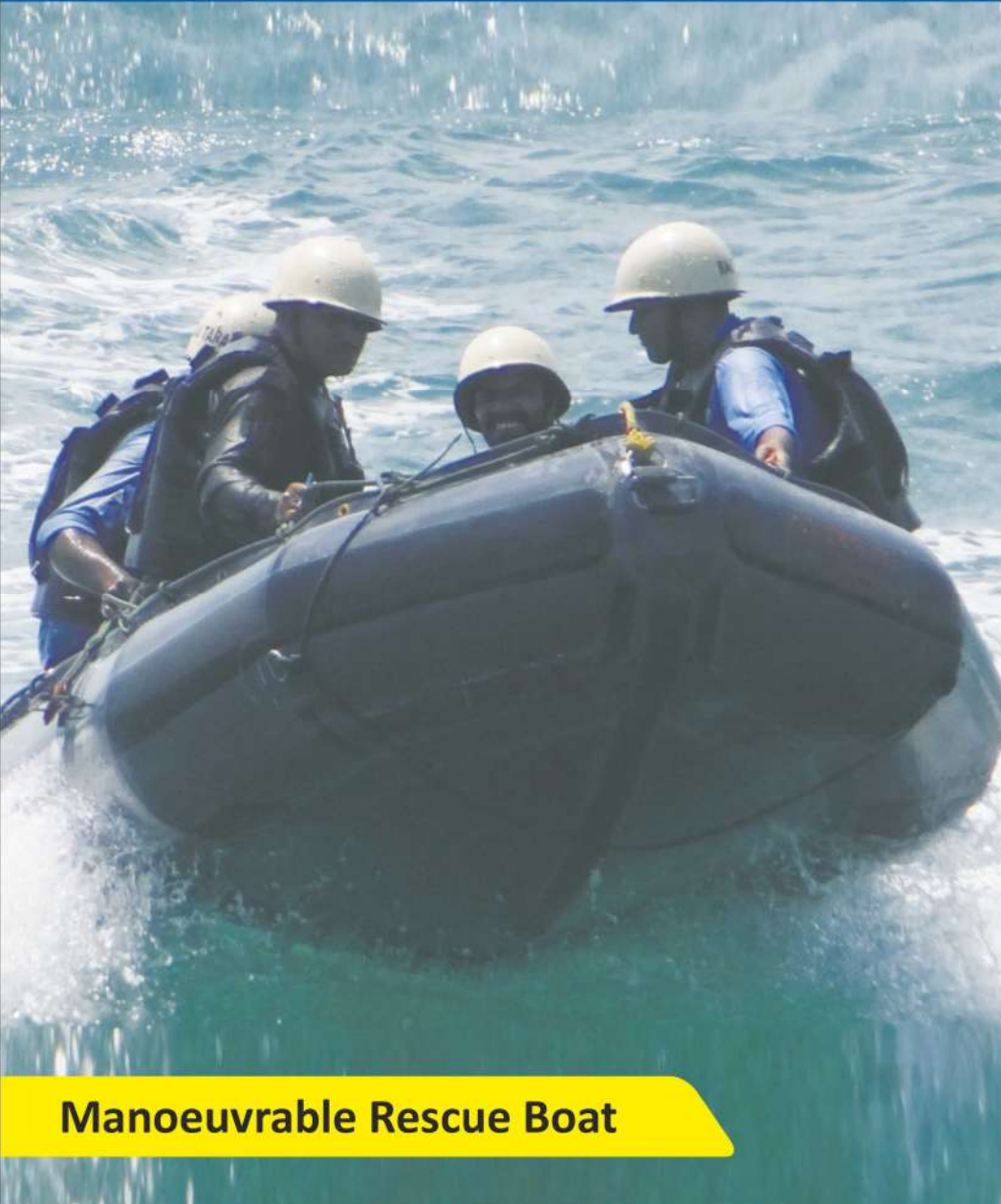
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E-mail: [marketing@glidersindia.in](mailto:marketing@glidersindia.in), [corporate@glidersindia.in](mailto:corporate@glidersindia.in) Website: [www.glidersindia.in](http://www.glidersindia.in)



## INFLATABLE BOAT GEMINI CRAFT



## INFLATABLE BOAT GEMINI CRAFT Manoeuvrable Rescue Boat



### GENERAL INFORMATION:

The Gemini Craft is designed to be seaworthy and carry out functions like

- (a) Diving Operations
- (b) Life Boat
- (c) Transport men and material
- (d) Limited Search and Rescue Operations at sea and in harbour with full complement and have good manoeuvrability and throttle response through its speed range (using 25-30 HP OBM) and particularly when coming alongside or breaking away from an underway vessel at its full load and complement.



### SPECIFICATION:

Length	:	Not more than 4700 mm
Width	:	Not more than 1900 mm
Dia. Of Buoyancy Tube	:	Not less than 450 mm
Carrying Capacity	:	8-10 Men (80.5 kg per person)
Speed	:	Not less than 05 knots commensurate with 25-30 HP OBM.
Weight of Craft	:	Not more than 125 kgs including Floor Boards and Accessories (without OBM).

Manoeuvrable Rescue Boat

FOR FURTHER ENQUIRIES  
PLEASE CONTACT:

**GLIDERS INDIA LIMITED**

GOVERNMENT OF INDIA UNDERTAKING, MINISTRY OF DEFENCE  
G.T. Road, Kanpur - 208013 U.P. (INDIA) Tel.: +91-512-2988487, 2986959

E-mail: [marketing@glidersindia.in](mailto:marketing@glidersindia.in), [corporate@glidersindia.in](mailto:corporate@glidersindia.in) Website.: [www.glidersindia.in](http://www.glidersindia.in)



## BOAT, RECONNAISSANCE PNEUMATIC 3 MEN, 2A



## BOAT, RECONNAISSANCE PNEUMATIC 3 MEN, 2A Boat for Recce in Assault Condition



### GENERAL INFORMATION:

The Boat Recce Pneumatic 3 men 2A is a pneumatic rubber dinghy capable of carrying out measurement and observations during recce in assault condition. Special arrangements have been provided for fixing stretcher to evacuate casualties speedily. This boat is intended to carry 3 fully armed men with recce stores or a distributed load of 340 kgs at a free board of 254 mm measured at OBM Bracket Assembly. If any two compartments are punctured, the boat will still retain sufficient buoyancy to support the crew of three, provided that the holed compartments are on the opposite sides of the boat. Designed for propulsion both manually and with a 4.5 kw (6.5 HP) OBM.



### SPECIFICATION:

Overall Length	: 3400 to 3451 mm
Length up to transom	: 2571 to 2649 mm
Hull dia.	: 401 to 425 mm
Clear inside width at OBM Bracket assembly	: 580 to 605 mm
Total weight including accessories	: 61.75 kgs to 68.25 kgs
Speed with one-man rowing	: 3.2 knots (1.6 m/s)
Speed with two men paddling	: 3.4 knots (1.7 m/s)
Speed with 4.5 kw (6.5 HP) OBM	: 6 knots (3.0 m/s)

Boat for Recce in Assault Condition

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## EQUIPMENT CARGO AERIAL DELIVERY PARACHUTE SUPPLY DROPPING 8.5 M



## EQUIPMENT CARGO AERIAL DELIVERY PARACHUTE SUPPLY DROPPING 8.5 M Dropping of supplies



Dropping of Supplies

### GENERAL INFORMATION:

The parachute having a skirt dia. of 8.5 m used for dropping of supplies with one container canvas type SDM or with two container type SDB. This parachute is also used in cluster of two for heavy supplies dropping loads. A single parachute can be used for dropping the supplies from 135 kg to 160 kg.

Pack cover is used for packing of the ECAD Parachute SD 8.5 m made with blended fabric.



### SPECIFICATION:

Design of Canopy	:	Flat fully rigged
Skirt Dia. Of Canopy	:	8.5 m
No. Of Rigging lines	:	28
No. Of Gores/ Panels	:	28 Gores & 4 Panels/Gore
Life of Parachute system	:	10 years (Storage) or 2 drops whichever is earlier

FOR FURTHER ENQUIRIES  
PLEASE CONTACT:

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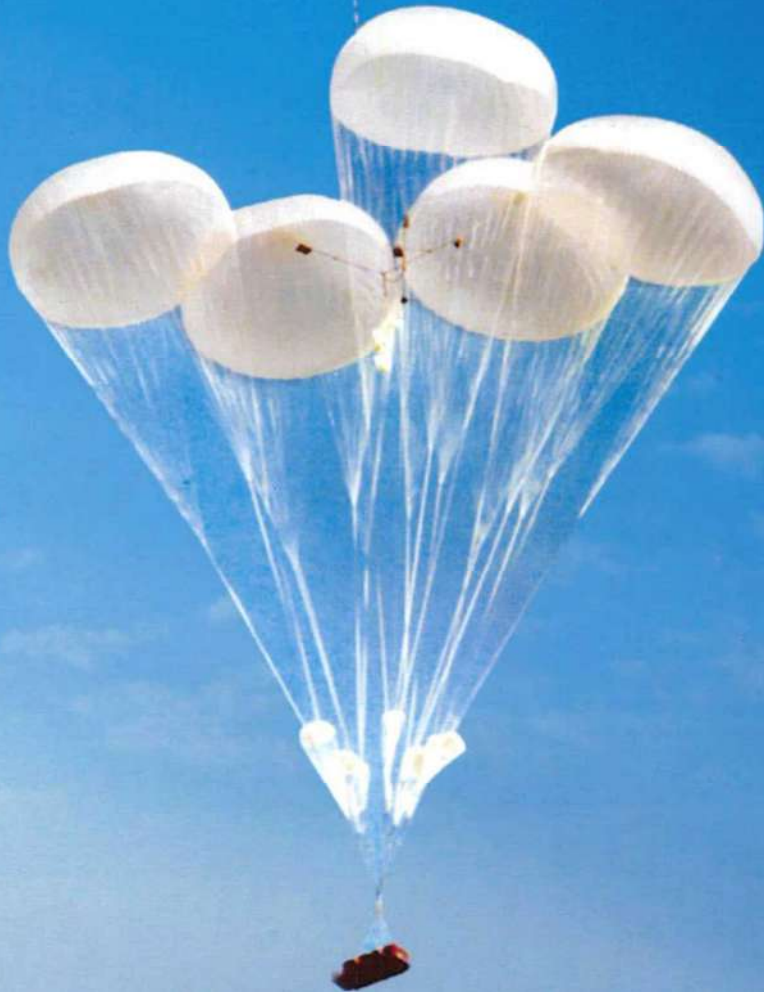
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## HEAVY DROP PARACHUTE SYSTEM for An- 32 AIRCRAFT



## HEAVY DROP PARACHUTE SYSTEM for An- 32 AIRCRAFT A Reliable Heavy Drop Parachute System



### GENERAL INFORMATION:

P-3 Heavy Drop parachute system is used for Para dropping of heavy equipment like jeep, jeep & trailer, jeep & RCL gun, 75/24 mm pack howitzer with ammunition etc. and also normal supply loads from this aircraft. The importance of these systems is realized when the target areas are inaccessible by roads. This system enables para dropping of military stores up to 3 tonnes from An- 32 heavy lift aircraft.



### SPECIFICATION:

Platform Size	:	4682 x 1869 x 116 mm
Mass of Platform	:	400 kg
Parachute System Weight	:	340 kg. (Approx.)
Drop Altitude	:	300 – 1500 m
Flight Speed	:	190 - 240 km/h
Landing Speed	:	7.5 m/sec
Re-usability	:	5 times
Area of Main Canopy	:	350 m <sup>2</sup>

A Reliable Heavy Drop Parachute System

FOR FURTHER ENQUIRIES  
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## P-7 HEAVY DROP PARACHUTE SYSTEM



Vehicles/Ammunition/ Equipment etc. Dropping



## P-7 HEAVY DROP PARACHUTE SYSTEM Vehicles/Ammunition/ Equipment etc. Dropping

### GENERAL INFORMATION:

P-7 Heavy Drop Parachute System is used for Para drop of military stores (vehicles/ammunition/equipment) of 7 Ton weight class. The Heavy Drop (P-7) System for IL-76 Aircraft consists of a platform & parachute system. Parachute System comprises a cluster of 5 Main canopies, 5 Brake chutes, 2 Auxiliary chutes & 1 Extractor parachute. The platform is a metallic structure made up of Aluminium/ Steel alloys. Shock absorption system & quick unlashng accessories.



### SPECIFICATION:

Platform Size	:	4216 x 2602 x 193 mm
All Up Weight	:	8500 kg (Approx.)
Payload	:	7000 kg
Parachute System	:	Cluster of 05 main parachutes
Platform Weight	:	1000 kg. (Approx.)
Parachute System Weight	:	590 kg. (Approx.)
Drop Speed	:	260-400 km/h
Landing Speed	:	7.8 m/sec
Re-usability	:	5 times
Area of Main Canopy	:	760 m <sup>2</sup>
Safe Dropping Altitude	:	500 m to 1500 m above landing site.

FOR FURTHER ENQUIRIES  
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## SPEED RESISTANCE PARACHUTE



To Build A Better Stamina



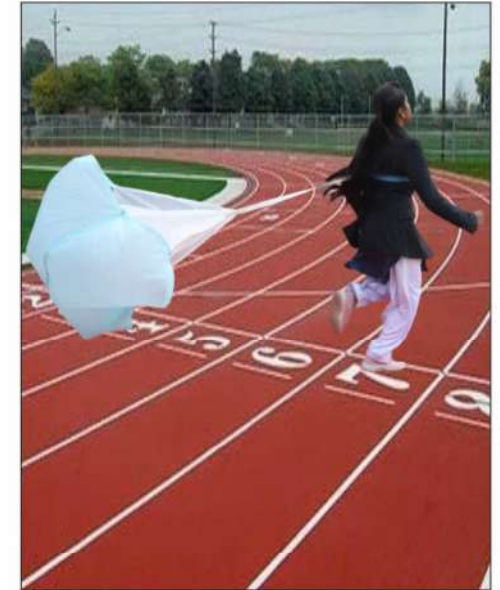
## SPEED RESISTANCE PARACHUTE To Build A Better Stamina

### GENERAL INFORMATION:

The Speed Resistance Parachute is made of nylon fabric and by high strength webbing nylon to harness system worn by runner.

The parachute fill with air once the runner as the runner starts running and picks up speed. When the parachute is filled with air, it provides resistance against running. This makes the running harder and athlete have to apply more strength to coetaneous running against the running. Speed resistance parachute are excellent way of resistance against speed while running. The faster athlete run, the more strength he required to move forward, making his muscles stronger.

This strength in the claves and ankles helps athlete stay longer on the track, increasing stamina and enhancing strides. It is also popular among the children.



### SPECIFICATION:

Diameter 48 inch (Approx.)

Adjustable waist from 28 to 44 inch.

It could also be made in different diameter sizes as per requirement.

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# PARACHUTE RECOVERY SYSTEM FOR PTA- LAKSHYA MK- II



# PARACHUTE RECOVERY SYSTEM FOR PTA- LAKSHYA MK- II

Trusted Recovery Parachute



## GENERAL INFORMATION:

This two stage Parachute is used for the safe recovery of Pilot less target Aircraft 'LAKSHYA' at the end of its mission. The maximum speed at which recovery can be initiated is limited to 810 kmph (225 m/s) IAS to 300 m AMSL. The design speed for main parachute deployment is 60 m/s IAS.

## SPECIFICATION:

Design of Canopy	: Tri-Conical
Nominal Dia. of Canopy	: 14.56 m
Recovery Mass (AUW)	: 500 kg
Recovery Altitude	: 300 m AGL to 9 km AGL
Recovery Speed	: At 300 m AGL, 270 kmph IAS (Min.) 810 kmph IAS (Max.) At 9 Km AGL 270 kmph IAS (Min.) 684 kmph IAS (Max.)
Packed Para Mass	: ≤ 22 kg
Volume of Packed Para	: 46000 cc.
Shelf Life of Parachute	: 10 Years
Max. permissible Packed storage	: 4 Months
Operational Life	: Sea Recovery : 01 Land Recovery: 05 on normal recovery 01 on emergency

Trusted Recovery Parachute

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## PILOT PARACHUTE PSU-36 FOR MiG-29 AIRCRAFT



**Reliable Emergency Escape**



## PILOT PARACHUTE PSU-36 FOR MiG-29 AIRCRAFT Reliable Emergency Escape

### GENERAL INFORMATION:

The Pilot Parachute PSU-36, is integral part of ejection seat used by pilot for ejection from the aircraft during emergency for safe landing. The pilot parachute PSU-36 used for ejection seat fitted in Mig-29 aircraft. This parachute is intended to provide an avenue of escape for the pilot from disabled aircraft both over land and water. The canopy body is a polygon with a circumscribed circle of 8770 mm dia.



### SPECIFICATION:

Max. Speed of deployment	: 650 kmph
Max. Altitude of deployment	: 5000 m
Canopy Area	: 60 m <sup>2</sup>
Max 'g' Valve	: 16 g
Design of Canopy	: Slotted Type
No. of rigging lines	: 28
Calendar life	: 8 years
Operational life	: One time use

FOR FURTHER ENQUIRIES  
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## PILOT PARACHUTE PSU-36 SERIES 4-3 FOR SU-30 AIRCRAFT



**Avenue of Emergency Escape**



## PILOT PARACHUTE PSU-36 SERIES 4-3 FOR SU-30 AIRCRAFT Avenue of Emergency Escape

### GENERAL INFORMATION:

The pilot parachute PSU-36, Series 4-3 is integral part of the ejection seat fitted in Su-30 aircraft. This parachute is intended to provide an avenue of escape for the pilot from disabled aircraft both over land and water.



### SPECIFICATION:

Mass of Crew Member	:	138 kg (Max.)
Mass of Ejection Seat	:	100 kg
Dia. of Parachute	:	8.88 mtr.
No. of Rigging Line	:	28
Length of Rigging Line	:	6000 + 1 %
Mass of parachute	:	<10 kg
Deployment Altitude	:	Up to 6000 m (AGL)
Max Deployment Speed	:	650 kmph
Reusability	:	One time use
Mode of operation	:	AUTONOMOUS
Operating Temp Range	:	- 40°C to + 60 °C
Storage Temperature	:	- 10°C to + 40 °C
g loading	:	16 g (Max.)
Descent Rate	:	6 m/s
Calendar Life of Parachute	:	8 Years

FOR FURTHER ENQUIRIES  
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## PARASAIL ASSEMBLY

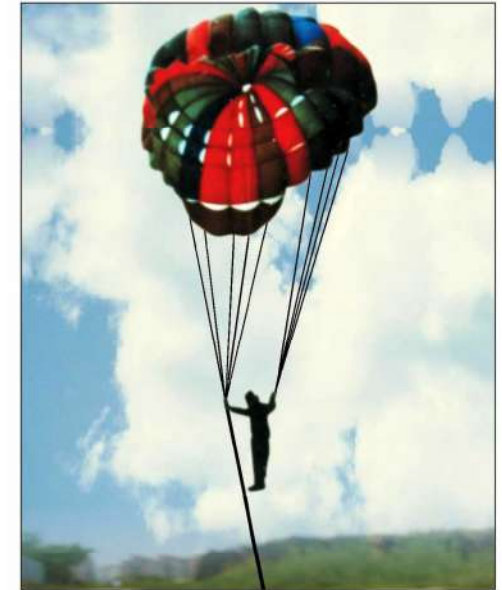


## PARASAIL ASSEMBLY Best for Adventurous Aerosport



### GENERAL INFORMATION:

This Parachute is for Parasailing which is an adventurous aero-sport. Para sailor along with the parasail parachute is pulled up into the air mechanically by a moving vehicle like a jeep. The canopy gets inflated and on further pulling it starts ascending in the air like a glider up to a certain height. At a predetermined height, the parachutist is disconnected from the rope and then it starts descending with the help of parachute as a Para-jumper. This parachute is also used to impart training of Para-trooping to NCC (Air Wing) cadets.



### SPECIFICATION:

Design of Canopy	:	Extended Skirt Type
Diameter of Canopy	:	7100 mm (Approx.)
No. of Rigging Lines	:	24
Weight of Parachute	:	4 kg
No. of Gores	:	24
Load Carrying Range	:	50 – 80 kg
Life of Parachute	:	07 years or 1500 Sailings whichever is earlier

Best for Adventurous Aerosport

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## DRONE RESCUE PARACHUTES



## DRONE RESCUE PARACHUTES

Reliable Parachutes for UAVs



### GENERAL INFORMATION:

Drones are Unmanned Aerial Vehicles (UAVs) autonomously or remotely operated aircrafts, fly without on-board human pilot operated from the ground. Drones are used for entertainment, civilian applications, wildlife, remote sensing, surveying and photogrammetry, smart agriculture, disaster surveying and management, forestry, energy harvesting, and housing renovation, scientific applications, and military applications (surveillance and reconnaissance and attacking the enemy). During the flight drones may face a variety of problems internal (e.g., an electrical circuit failure, broken connection, or mechanical damage) and external (interference of an external obstacle such as birds or hostile force) and drones can become unmanageable, fall down and land on hard surface and damage resulting in large financial losses in addition to lost equipment and information. Parachute recovery is an important tool to avert damages and casualties caused by aircraft failures. Therefore, recovery parachutes have been developed for different weight class of Drones.

### SPECIFICATION:

Diameter of Canopy and Surface area may be varied to cover a vast range of Drones Weight Category.

Reliable Parachutes for UAVs

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## DANGER BUILDING COAT & TROUSERS



Protective Wear for DB Personnel



## DANGER BUILDING COAT & TROUSERS

Protective Wear for DB Personnel

### GENERAL INFORMATION:

Personal Protective Clothing i.e. Danger Building Coat & Trouser are specially designed as a protective wear for personnel's worked in ammunitions filling units. The material and design of the Coat & Trouser is such that it reduces the static charge generation by clothes in ammunition filling units and reduce the fire chances due to static charge generation by clothes and also work as a protective wear for the personnel working in the filling units.



### SPECIFICATION:

- It consists of Coat & Trousers.
- No Pockets and no belt loops are provided in Trousers.
- Trousers are available in four sizes.
- No pocket and no shoulder provided in the coat.
- Coat are also available in four sizes.
- Only Cotton make buttons are used in both Trousers and Coat.

FOR FURTHER ENQUIRIES  
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## PONCHO GLACIER



**Complete Protection in  
Snow Bound Areas**



## PONCHO GLACIER

**Complete Protection in Snow Bound Areas**

### **GENERAL INFORMATION:**

The Poncho Glacier is intended to be used by army personnel providing complete protection in snow bound areas and even from torrential rains for multipurpose uses in all region and terrain. It designed to serve as Cape with Hood, Bivouac and Ground sheet and provided with pack on the back. It is usable in universal size. The Polyurethane Coated surface of the fabric is kept inward while stitching the Poncho Glacier. The Poncho is manufactured in two pieces of rectangular shape fabric nylon 105 gm joined together longitudinally by two rows of machine stitching 7 mm apart leaving a portion about the centre for attachment of pouch and hood.



### **SPECIFICATION:**

- The Polyurethane Coated surface of the fabric is kept inward while stitching the Poncho.
- Available in Universal Size.
- Available in Snow White colour.
- It is an open garment with camouflage property in sub-zero-degree glacier regions.
- It is also utilized as cover during snow fall.

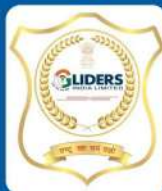
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## NBC SUIT PERMEABLE MK-IV



Protective wear for Toxic Chemicals



## NBC SUIT PERMEABLE MK-IV Protective wear for Toxic Chemicals

### GENERAL INFORMATION:

Nuclear, Biological & Chemical Permeable Suit provides protection against toxic chemicals. This suit consists of Jacket with integrated hood with Trousers and can be used directly over the under garments. The suit is air permeable and allows evaporation of sweat. The Suit is made in four Sizes i.e. Small, Medium, Large and Extra Large. The Jacket and Trousers have been made by integrated outer polyester fabric with the inner Active carbon spheres adhered laminated fabric. The Trousers has been provided with the gallice and fasteners hook and loop tape for tightening at the waist and tape elastic for tight sealing. Jacket is of front close design and integrated with hood for protection of head and ears and sleeves have been provided with hook and loop for proper sealing.



### SPECIFICATION:

- It consists of Jacket & Trousers.  
It can be worn as either over garment or normal garment.
  - It is permeable to air and breathable (allows sweat to escape) which provides comfort to the wearer from thermal stress.
  - The outer fabric has flame retardant and oil repellent characteristics and thus prevents burn injury and also repels chemicals droplets from the surface.
  - The activated carbon spheres, which are adsorbent, are made from synthetic precursor materials having improved adsorption of toxic vapours and better mechanical strength
  - It is washable and can be reused up to 3 wash cycles, if washed with specified method.
- Size : Four viz. Small, Medium, Large & Extra Large.
  - Weight : 3.0 Kg (Max.) for all the four sizes.
  - Packing : Packed in laminated packing pouch after vacuuming and then heat sealing after filling with nitrogen to prevent degradation during storage.

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## WATER PROOF MULTI PURPOSE RAIN PONCHO CONVERTIBILITY AS BIVOUAC



**Camouflaging & Multipurpose Protective Wear**



## WATER PROOF MULTI PURPOSE RAIN PONCHO CONVERTIBILITY AS BIVOUAC Camouflaging & Multipurpose Protective Wear

### **GENERAL INFORMATION:**

The Water Proof Multi-Purpose Rain Poncho Convertibility as Bivouac is open garments with camouflage property. It is utilized as cover during rain. The Water Proof Multi-Purpose Rain Poncho Convertibility as Bivouac is made of 100% woven polyamide fabric. It is intended to be used by MHA personnel providing complete protection to rain for multipurpose uses. It designed to serve with hood, bivouac and ground sheet and provided with a pouch. Poncho is also provided with pockets. It is usable in universal size.



### **SPECIFICATION:**

- The Polyurethane Coated surface of the fabric is kept inward while stitching the Poncho.
- Available in Universal Size.
- Available in different printing pattern id force specific such as CoBRA, CRPF, BSF etc.
- Length of Poncho – 2120 ± 20 mm.
- Width of Poncho – 1620 ± 20 mm.

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## PARACHUTE SYSTEM FOR AIR DROPPABLE CONTAINER (ADC-150)



Provide Rapid Logistic Support



## PARACHUTE SYSTEM FOR AIR DROPPABLE CONTAINER (ADC-150) Provide Rapid Logistic Support

### GENERAL INFORMATION:

Air droppable containers are required by Indian Navy to provide rapid logistic support to ships and submarines at sea during war as well as peace time. Parachute system for air droppable container that is used to mount on the rare of ADC is required to decelerate the carrier to the desired impact speed so that the impact load-due does not exceed its designed limit. It provides the platform for the designed carrier to land with safe speed without hampering the sensitivity of the items.

The parachute system is designed to operate automatically after release of ADC-150 from the aircraft. Just after safe clearance from the aircraft, the R-4 cutter of 1 sec delay will be fired to activate the opening of parachute. In order to accomplish this task, a self-deployed parachute which is termed as Auxiliary Parachute of Dia 0.61 m is designed for the parachute system. A ring slot parachute ( $\varnothing$  2 m) is designed as a drogue parachute for further reducing the speed & load impact of Container after being dropped from the aircraft to safe speed at which the deployment of main canopy can occur. A main parachute ( $\varnothing$ 8m) is designed to safe landing speed of container into sea.

### SPECIFICATION:

All Up Weight	:	(AUW)270 kg
Container Size	:	$\varnothing$ 440 mm X 2416 mm long
Aircraft	:	IL – 38 SD&P8I
Release Altitude	:	1000 to 10,000 ft (305 to 3,050 m)
Release Speed	:	350-500 kmph (97 to 139m/s)
Touchdown Speed	:	11 m/s
Shelf Life	:	10 years (Storage)
Drop Life	:	01 time



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## ADVANCED LIGHT WEIGHT TORPEDO (ALWT)



## ADVANCED LIGHT WEIGHT TORPEDO (ALWT) Torpedo Trajectory Control with Accuracy & Safety



### GENERAL INFORMATION:

Advanced Light Weight Torpedo (ALWT) for air launch from helicopter, aircraft and missile. The parachute system is intended to accurately and safely control the trajectory of the Torpedo and to decelerate it to the desired velocity at splashdown. At splashdown, the parachute is to be detached from the torpedo.



### SPECIFICATION:

All Up Weight	: (AUW)270 kg
Container Size	: Ø440 mm X 2416 mm long
Aircraft	: IL – 38 SD&P8I
Release Altitude	: 1000 to 10,000 ft (305 to 3,050 m)
Release Speed	: 350-500 kmph (97 to 139m/s)
Touchdown Speed	: 11 m/s
Shelf Life	: 10 years (Storage)
Drop Life	: 01 time

**Torpedo Trajectory Control  
with Accuracy & Safety**

FOR FURTHER ENQUIRIES  
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G.T. Road, Kanpur - 208013 U.P. (INDIA) Tel.: +91-512-2988487, 2988959  
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## MILITARY COMBAT PARACHUTE SYSTEM



## MILITARY COMBAT PARACHUTE SYSTEM Manoeuvrable & Light Weight MCPS



### GENERAL INFORMATION:

Military Combat Parachute System provides complete solution for military free fall application. MCPS features significant advancement over existing system especially in terms of glide ratio, manoeuvrability, light weight and payload carrying capacity. The system consists of 9-cell semi-elliptical Ram Air Parachute, state-of-the-art Oxygen System, programmable Para computer.

### The MCPS system can be use in following modes

- High Altitude High Opening (HAHO): Jump from as high as 30,000 ft.
- High Altitude Medium Opening (HAMO): Jump from as high as 30,000 ft and opening anywhere up to 10,000 ft.
- High Altitude Low Opening (HALO): Jump from as high as 30,000 ft. and opening anywhere between 9,000 ft. – 5,000 ft The proposed system has high glide ratio i.e 4:1 and better manoeuvrability the parachutes can be flown through very large distances.

### SPECIFICATION:

Design of Canopy	: Aerofoil
No. of Cells	: 9
Lift to drag ratio	: 4:1
Opening Time	: 3-4 Sec.
Max./Min. Pay load	: 200/50 kg
Weight of System	: 18 kg (Max.)
Altitude of Operation	: 2000 to 30000 ft.
Max. Deployment Velocity	: Static Line - 150 kmph & free fall mode 280 kmph
Weight of System	: 22 kg
Life of Parachute	: 10 years or 250 jumps whichever is earlier



Manoeuvrable & Light Weight MCPS

FOR FURTHER ENQUIRIES  
PLEASE CONTACT:

**GLIDERS INDIA LIMITED**

GOVERNMENT OF INDIA UNDERTAKING, MINISTRY OF DEFENCE

G.T. Road, Kanpur - 208013 U.P. (INDIA) Tel.: +91-512-2988487, 2988959

E-mail: [marketing@glidersindia.in](mailto:marketing@glidersindia.in), [corporate@glidersindia.in](mailto:corporate@glidersindia.in) Website: [www.glidersindia.in](http://www.glidersindia.in)



# ILLUMINATING PARACHUTES



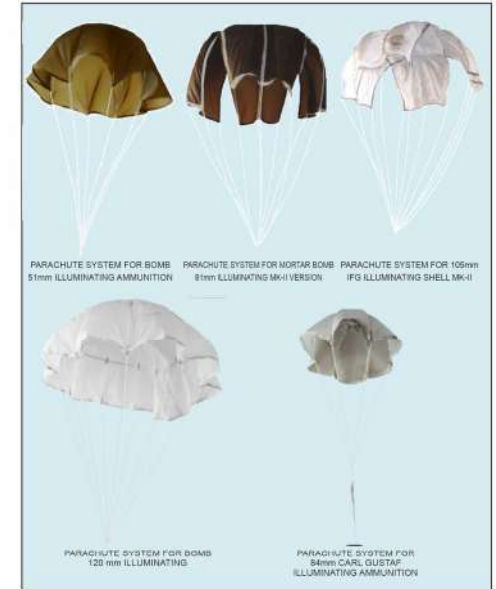
# ILLUMINATING PARACHUTES

The Light that Shines in the Darkness



### GENERAL INFORMATION:

The illuminating parachutes are used to decelerate and to stabilise the speed of bombs and for a quick illumination of target area. These parachutes can also be used to provide complete battle field illumination. Used extensively to support night warfare. The illumination provided by these parachutes is sufficient for identification and engagement of all types moving and non-moving objects. The illumination will also help for movement of troops and location of enemy post and their movement.



### SPECIFICATION:

Parameters	Illuminating Parachute Category					
	51 mm	81 mm	84 mm	105 mm	120 mm	155 mm
Weight of Parachute (Approx.)	20 gm	100 gm	120 gm	360 gm	160 gm	400 gm
Auto Deployment	Fuze	Fuze	Fuze	Fuze	Fuze	Fuze
Candle Weight (Mass of filled bomb/shell)	0.93 kg	3.85 kg	1.85 kg	15.5 kg	13.05 kg	43 kg
Rate of descent	3-4 m/sec	Less than 5 m/s	5 m/s	Less than 10 m/s	NA	NA
Altitude of opening	150 mtr	400-500 mtr (Approx.)	200 mtr (Approx.)	400-500 mtr (Approx.)	600 mtr	1200 mtr
No of Uses	Single Use	Single Use	Single Use	Single Use	Single Use	Single Use

The Light that Shines in the Darkness

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G.T. Road, Kanpur - 208013 U.P. (INDIA) Tel.: +91-512-2988487, 2986959  
E-mail: [marketing@glidersindia.in](mailto:marketing@glidersindia.in), [corporate@glidersindia.in](mailto:corporate@glidersindia.in) Website: [www.glidersindia.in](http://www.glidersindia.in)