

LANDING DECELERATION PARACHUTE SYSTEMS

IRVIN AEROSPACE has a long history of success in designing, developing and producing landing deceleration parachutes for an extensive variety of aircraft and spacecraft applications. Some examples are:

Developed and produced ...

- Space Shuttle Orbiter
- SR-71 Aircraft
- B-70 Aircraft
- Corvus Missile
- F-104 Aircraft
- F-2 (Japan)
- F-16XL Aircraft VPCR
- F-20 Aircraft VPCR
- F-105G Aircraft VPCR
- F-5 Aircraft VPCR
- F-16 Aircraft VPCR



XB - 70

Produced ...

- B-52 Aircraft
- F-4 Aircraft

V.P.C.R. – VARIABLE POROSITY CONTINUOUS RIBBON

The Variable Porosity Continuous Ribbon (VPCR) parachute canopy is an innovative Irvin design created as an improvement over the standard ribbon and ringslot canopy configurations. Because of its unique construction, the VPCR exhibits such desirable characteristics as low maintenance, extended life expectancy (typically 100+ uses), weight efficiency and higher deployment velocity with improved stability. The reliability of the VPCR is the highest of all deceleration parachute types in current use including the Cruciform and Ringslot alternatives. Particularly important is the functional assurance and structural integrity of the VPCR as the canopy nears retirement. Catastrophic failure is precluded by the intrinsic damage propagation limitation of ribbon chute construction. Simplified logistics of maintenance include lower labor hours per repair and less frequent repairs.



SHUTTLE ORBITER
248,000 POUNDS
Moving at 230 knots!



SR - 71

A complete line of support accessories is available from Irvin Aerospace. A mortar deployment alternative, such as was applied on the Shuttle Orbiter Landing Deceleration Parachute System, is also available.

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.

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Decelerators-0803



THE F-16 LANDING DECELERATION PARACHUTE SYSTEM



Lockheed F-16 Fighting Falcon in flight and landing.



NEWLY UPGRADED IN 1992 TO FURTHER ENHANCE DEPLOYMENT RELIABILITY!!

(Existing systems may be upgraded by retrofit using P/N 756600 Upgrade Package)

Use of the Variable Porosity Continuous Ribbon (VPCR) chute results in significantly reduced wear on the expensive carbon wheel brakes, makes short field landings safer (shorter rollout) and stabilizes the aircraft on icy or wet runways.

OPERATIONAL ADVANTAGES

- Long service life
- Dependable, immediate opening....no squidding
- Good cross-wind performance
- Simple one-man packing
- High drag efficiency
- Deployments up to 170 knots
- Low maintenance costs

EXPERIENCE

In operational service worldwide for over 10 years! Selected by the following Air Forces:

- | | |
|---------------|---------------|
| • Norway | • Greece |
| • Netherlands | • Turkey |
| • Venezuela | • Indonesia |
| • Taiwan | • Japan (F-2) |