



## DIAMOND BACK®

### LOW COST RANGE EXTENSION WING ASSEMBLY

Diamond Back® is a low cost, high performance range expansion wing assembly, compatible with air-launched stores.

Diamond Back® features a unique joined tandem wing design that extends the wings from a compact storage position. The deployed wings provide a diamond shaped platform with excellent maneuverability and glide characteristics.

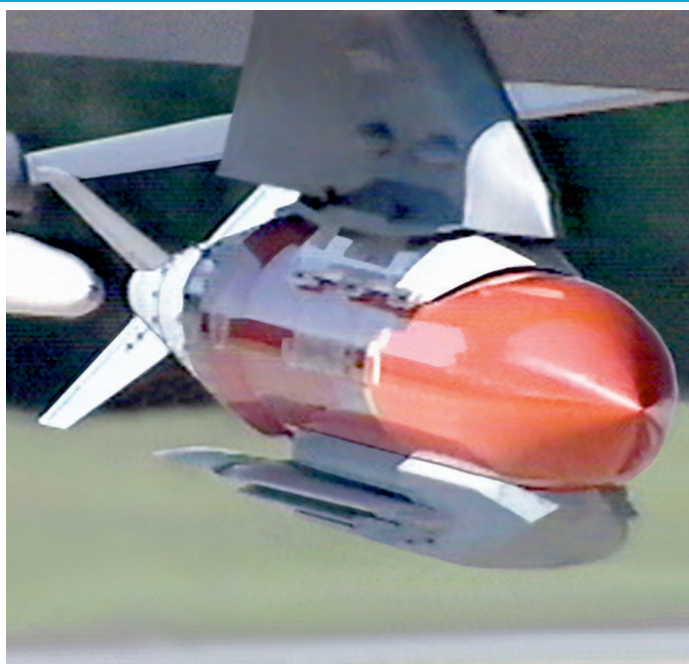
**The Diamond Back® wing assembly triples the stand-off of air-launched stores providing more flexible mission options.**

The unique wing assembly, provides stand-off and cross-track maneuverability for a significantly expanded footprint for air-launched stores. The larger footprint not only provides additional survivability for the delivery aircraft, but also allows delivery to multiple points from a single release point. Diamond Back's compressed carriage design meets the demanding space requirements and for internal rotary launchers in the B-1 and B-2 bombers as well as on the F-35 and F-22.

#### Operational advantages

- Low cost, high performance
- Increases launch platform
- In full rate production
- Combat proven

Diamond Back® is currently in full rate production for the US Air Force Small Diameter Bomb and has been combat proven in U.S. combat operations over the last ten years.



## Why Diamond Back®?

- Allows delivery to multiple points from a single release point
- Provides increased stand-off outside point defenses
- Provides expanded delivery envelope
- Increases launch aircraft survivability and tactical flexibility
- Shapes terminal profiles for delivery vector and velocity
- In production and successfully used in combat operations

## Benefits

- Scalable size to accommodate full weapon load out
- Longer range and improved maneuverability
- Deployment mechanism is simple, robust and reliable at any launch condition

## Flight-proven Extended Range

The Diamond Back® wing assembly has been extensively tested, qualified, and combat proven for the GBU-39/B Small Diameter Bomb (SDB) weapon. Diamond Back® has also been successfully demonstrated in flight on the extended range Joint Direct Attack Munition (JDAM) BLU-109 weapon and the Focused Lethality Munition.

## Production status

The integrated Diamond Back® wing assembly is in full rate production for use on the US Air Force small diameter bomb. Total production has exceeded 32,000 units.

## Technical characteristics/specifications

|                |                                   |
|----------------|-----------------------------------|
| <b>Weight:</b> | <b>24 lbs</b>                     |
| <b>Length:</b> | <b>47 Inches (wings closed)</b>   |
|                | <b>42 Inches (wings extended)</b> |
| <b>Width:</b>  | <b>7.5 Inches (wings closed)</b>  |
|                | <b>63 Inches (wings extended)</b> |

