

## SPACE LINEAR SHAPED CHARGE DEVICE (LSCD)

Pyroalliance designs and manufactures specific Linear Shape Charge Devices for different applications. These products, machined from a linear profile with an initiation port at each end, are dedicated to terminate a mission, sink used motor cases or passivate propellant tanks.

With a new generation of copper cutting cord incorporated into the charge holder, Pyroalliance offers lead free solutions compliant with the latest market needs.

Those LSCDs, combined with other Pyroalliance's products, are part of Flight Termination pyro-chains.

# Linear Shaped Charge Device

## Operation mode

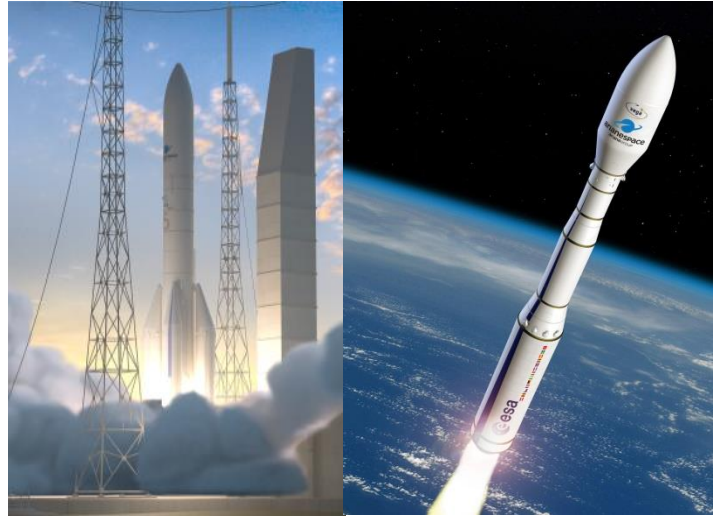
The LSCD operates in a detonation mode. Upon order reception from any detonating initiation source (detonator, transfer line, slapper), the integrated cutting cord generates a hydrodynamic jet of metal that severs metal or composite structures.

## Benefits

- Very high reliability level
- Fast execution
- Increased performance in a small footprint
- Easy integration (precise mechanical interfaces and mounts)
- No preventive maintenance needed
- Lead free
- REACH-compliant

## Applications

- Destruction / Flight Termination
- Motor case sinking



Ariane 6

Vega

## Key figures\*

Estimated Cutting performances**:	Up to 22 mm in steel and 35 mm in carbon composite
Main dimensions**:	0.60m to 2m length Up to 28mm diedric linear shape charge
Detonation velocity:	> 7700 m/s
Linear charge (RDX):	25-380g/m depending on cord type
Operating temperature:	Down to -80°C Up to + 100°C

\* Product under development and qualification

\*\* Please contact us for customized needs

**For more information please contact us.**  
**Visit our website: [www.pyroalliance.com](http://www.pyroalliance.com)**

## Product Classification

- Number UN: UN0288
- Storage class: 1.1D
- Not restricted by ITAR regulations

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**Produced by the Communication Department of Pyroalliance**

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