



SPACE

LINEAR SHAPED CHARGE DEVICE (LSCD)

Pyroalliance designs and manufactures specific Linear Shaped 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. They are embarked on Ariane 6 and Vega-C.

More generally, Pyroalliance delivers complete pyrotechnic chains adapted to its customers' needs. They are designed and manufactured under Pyroalliance design authority.

LINEAR SHAPED CHARGE DEVICE (LSCD)

Operating 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
- Design compatible with RCC 319 Commonality Standard

Applications

- Destruction / Flight Termination
- Motor case sinking

Typical performances and features

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



Ariane 6

Vega-C

Product Classification

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

For more information

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