

## EXHAUST DECOUPLING RINGS AND MESH SLEEVES



**Description** Knitted mesh rings are used extensively in exhaust decoupling joints and load support assemblies to absorb vibration, take up thermal expansion and reduce noise. Transverse mounted engines generate high levels of vibration and consequently require a robust jointing system between the engine manifold and exhaust system capable of withstanding the stresses involved. With its unique structure knitted mesh rings have the ability to withstand the harsh exhaust gas environment and therefore provide decoupler manufacturers with an ideal solution to the problem of energy absorption. Mesh rings are constructed from corrosion resistant stainless steel and can be produced in a cylinder configuration or shaped to suit the decoupler housing as required.

Flexible tube assemblies can benefit from having a low cost mesh sleeving positioned either under or over the braid which reduces vibration and noise. Mesh sleeves can also protect the assembly from abrasion and in some instances can enable the braid coverage to be reduced hence leading to a cost reduction.

### Features and Benefits

- Withstand high temperatures and corrosive exhaust gas environment.
- Excellent vibration damping capability.
- Made endless to eliminate any possibility of mesh unwinding.
- Low cost manufacturing facilities.
- Fit any shape or size of ceramic brick.
- Prototypes can be produced cheaply and quickly from low cost die sets reducing product development time.

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