

Dust Suppression Spray Bars

Predominately used throughout underground mining operations, JSIS Engineering (JSIS) manufactures a range of Dust Suppression Spray Bars that comply with MDG 3608's Fire Retardant Anti Static (FRAS) parameters and recommendations.

Over the past few years, dust suppression has been a focal point of the mining industry as it strives to provide safer work environments for the industry as a whole. This industry focus saw JSIS work closely with major mining houses and their partners to design, develop and manufacture efficient and effective dust suppression spray bar systems that help combat this issue to assist in the prevention of harm to the health of both workers and the wider mining communities, in both Underground and Surface applications.

In particular, across 2017 and 2018, JSIS worked closely with Anglo American Grass Tree Mine to design, develop and manufacture dust suppression spray bar systems for their Development Crew. This collaboration of works resulted in Grasstree Mine being rewarded with the receipt of a Mining Safety Award as recognition of their work in developing a system that provided not only their team with safer work environments, but now the mining industry as a whole. A presentation of this entire system developed by the Grasstree team can be found on YouTube at <https://youtu.be/d0vsXIN1Y04>.

Our Dust Suppression Spray Bars can be made in a variety of shapes and sizes that include single or multiple sprays (flat fane, cone, air atomising) to enable a full curtain or wall of water to saturate and suppress dust. Internal piping is fully encapsulated in the polyurethane (PU), which protects the piping from exposure to damage as well as protecting the internal components from corrosion, allowing our Spray Bars to outlast others on the market. With piping pressure ratings from 1000kPa to 5000kPa, our solid internal spray bars and hydraulic fittings are designed and manufactured to operate in the harsh environments they are intended for.

Our most popular spray bars are manufactured using rare earth magnets embedded in the PU which not only provides a mounting solution that is secure and solid, they provide flexibility as a variety of mounting positions may be allowable across the steel surface the bar is being attached to. Rare earth magnets are the most powerful magnets available and create high amounts of pull force. These magnets are renowned for their powerful magnetic field, great bonding strength and high coercivity. By utilising these magnets within our spray bars JSIS provide spray bars that are robust and long lasting. Alternatively, if magnets are not what you are after, JSIS is able to include mounting plates moulded into a design of any configuration to suit your design and mounting requirements.

