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**ROY HILL ON
PATH TO FULL
AUTOMATION**

NEWS
p8



**HOW TO SAVE
8M LITRES OF
WATER A YEAR**

TECHNICAL TALK
p90



**INSIDE:
GET THE
SUPERSCOOP
ON TRANSPORT**

OIL AND GAS REVIEW
p1



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With support from the Federal Government, Australia's coal industry is
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FEATURES P19-33



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EnviroMist has dust under control

NATIONAL

AUSTRALIAN company EnviroMist produces custom-made dust suppression systems for the mining industry that safeguard worker safety in a cost-effective way.

Reducing dust levels at mine sites and stockpile areas decreases the health and safety concerns of respirable dust diseases such as silicosis, black lung disease and others whilst reducing cleaning bills and reducing dust related maintenance issues.

The Brisbane-based company's high energy dust suppression systems run at extremely high pressure, up to 21,000kPa, to create a curtain of fine mist that captures and holds dust particles in a dust control zone.

Millions of tiny water droplets are created by EnviroMist's systems, leading to large coverage areas with low water usage when compared to low pressure systems.

The company has invested in research partnerships with Australian universities in order to understand the mechanisms of dust control and to calibrate the size distribution of the water droplets produced by EnviroMist's proprietary systems.

Research has determined that water droplet size plus the probabilistic chance of a water droplet contacting a dust particle is key to reducing overall dust levels in a system.

The firm's proprietary technology is tuned to match water droplet size to the dust particle size.

The size of water droplets produced by EnviroMist's system can be adjusted – from three microns up to 150 microns - to best match the type of dust that is being targeted.

EnviroMist's dust suppression and control systems are custom-made for clients from quality materials using its proprietary product knowledge.

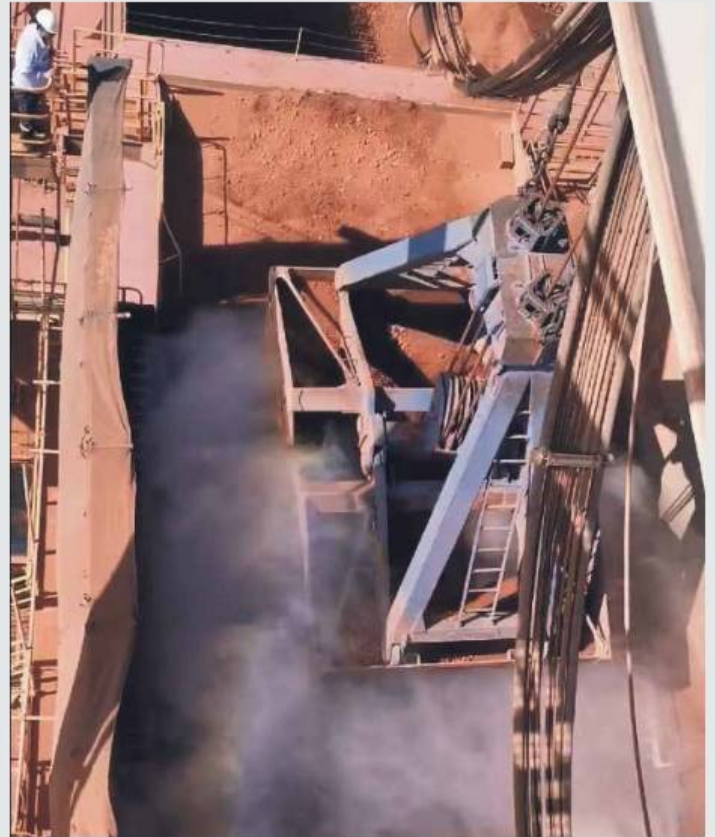
Spray bars are all stainless steel to meet safety requirements and to ensure longevity, while EnviroMist custom machine their own nozzles to meet the pressure and life requirements, with nozzle life lasting for years with little wear.

EnviroMist nozzles never block when fed by a correctly designed and maintained system.

EnviroMist's on-board control systems communicate with plant systems to coordinate system usage with operational requirements in scenarios such as truck dump stations and stockpiling off-feed conveyors.

Skilled engineers from the company can design, manufacture and install dust control systems to suit a client's special requirements.

The company serves many clients in the mining and manufacturing sectors in New South Wales, Queensland and WA.



EM spray system in operation during ship-unloading operation



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- Mining Machinery
- Ship Loaders & Unloaders
- Transfer Points & Chutes
- Construction Machinery

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