



change that doesn't  
cost the earth

# Misting SYSTEMS



WWW.DUST.I-CAT.CO.ZA | 086 112 4228

#### LOCALISED DUST SUPPRESSION SYSTEMS:

- Crushers
- Push feeders
- Screens
- Transfer Points: header boxes and discharge
- Stockpiles
- Tipping bins/areas
- Specialised dust suppression systems including full turn-key solutions

## LOW PRESSURE LOCALISED DUST SUPPRESSION MISTING SYSTEM

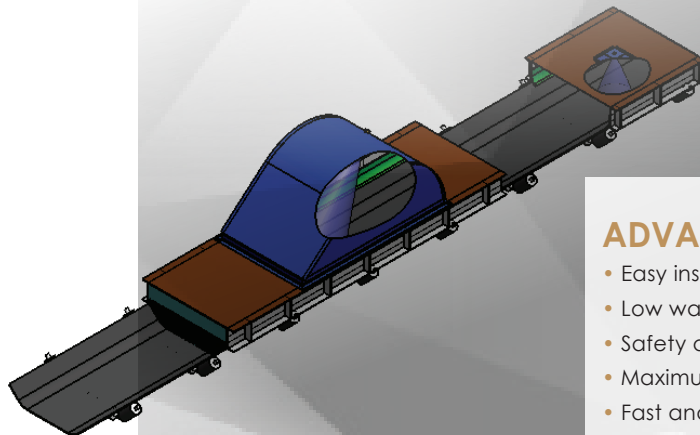
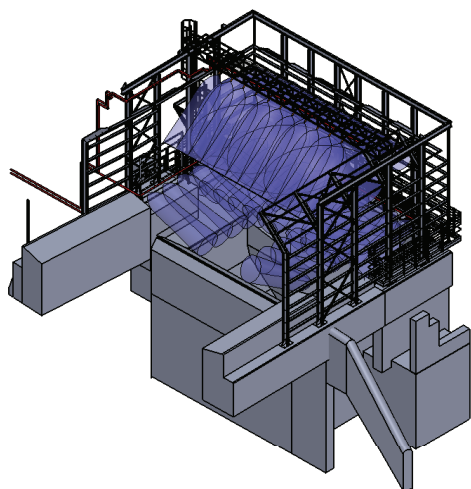
I-CAT offers unique tailor-made solutions for dust suppression of fugitive dust, generated at transfer points and crusher plants.

The system offers an innovative way to reduce the amount of fugitive dust particles by using highly dispersed water in the form of water mist.

The key element of the system is the patented GTK®, DMK® and FEN® nozzles which generate a high kinetic energy water mist droplet that encapsulates dust particles which prevents them from becoming airborne.

The Dromader® Diffuser system, which consists of a special collector and strategic mounted GTK® and DMK® nozzles, that were designed to maximize dust neutralization efficiency of both hydrophilic and hydrophobic particles.

The special construction of the diffusers improves the effectiveness of the misting system to suppress dust. The system is based on the pressure gradient that moves the dust into the Dromader's bulge where the mist nozzles operate. It finally stabilises the dust and places it back on the conveyor. The system is so effective that almost 100% of the water converted into mist is involved in removing dust.



#### ADVANTAGES:

- Easy installation
- Low water usage
- Safety due to low pressure water and/or air
- Maximum effectiveness in agglomeration of dust particles thanks to high level of water dispersion
- Fast and uniform spreading of the water mist inside the chutes and covers
- Choice between manual or automated control panels

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