

## Case Study: Spanners Mixers

### Vertical stacks for the latest Euro 4 vehicles

Spanners Mixer Hire provides commercial mixer vehicles for the ready-mix concrete industry. The company runs a modern fleet of 16 hire vehicles and has very specific needs for exhausts.

As people regularly work around the vehicles and ground level exhaust discharge would stir up dust, the EminoX Exhaust Stack with vertical discharge is the ideal solution. The vertical mounting creates space on the chassis for the specialised body and helps to avoid damage due to the harsh environments in which the vehicles often work.

Keeping vehicle weight to a minimum in order to maximise payload is of primary importance to Spanners. Our lightweight stainless steel exhausts were combined with aluminium pole mountings, developed by EminoX to further reduce system weight.

With EminoX stacks already the exhaust of choice for the Spanners' fleet, the next challenge was to develop exhaust conversions for their new Euro 4 vehicles. Regulations for Euro 4 make it essential to maintain emissions performance and meet manufacturers' guidelines on back pressure.

Our extensive knowledge of emissions technology meant we were able to develop specialist vertical stack units to accommodate the required after-treatment components. The original manufacturers' components were carefully re-housed to achieve optimum performance. We successfully designed the systems to meet both the manufacturers' Euro 4 standards and Spanners' industry specific needs.

