

Blast Resistant Ducts





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Blast Resistant Fire Rated Ducting Systems

Mech Tool Engineering Ltd (MTE) designs and manufactures high performance fire rated, stainless steel, blast resistant ducting systems engineered to deliver exceptional protection in the most demanding offshore and onshore environments. These systems provide enhanced structural resilience against fire, blast, and high pressure ventilation conditions, ensuring critical life safety performance where it is needed most.

Engineered for Extreme Conditions

Every MTE ducting system is fully designed, engineered, fabricated, and supported in house, including complete structural integration and tie in details. This ensures seamless installation and full compliance with:

- Project specific mechanical and structural requirements
- Harsh offshore environmental loads
- Third party certification and approval standards

The ducting is specifically developed to withstand the intense operational conditions associated with offshore platforms, industrial ventilation systems, and life safety air supply pathways.



Performance and Safety

MTE blast rated ducts create a significantly safer operating environment in applications requiring:

- Enhanced blast resistance
- Increased structural stability
- High air velocity and static pressure performance

Typical use cases include Living Quarter (LQ) fresh air intakes, equipment room ventilation, and other safety critical areas where reliable fire and blast protection is mandatory.

Below: Trial assembly of roof-level ducting. Turning vanes in compliance with DW/144 HVCA 'Specification for Sheet Metal Ductwork'.





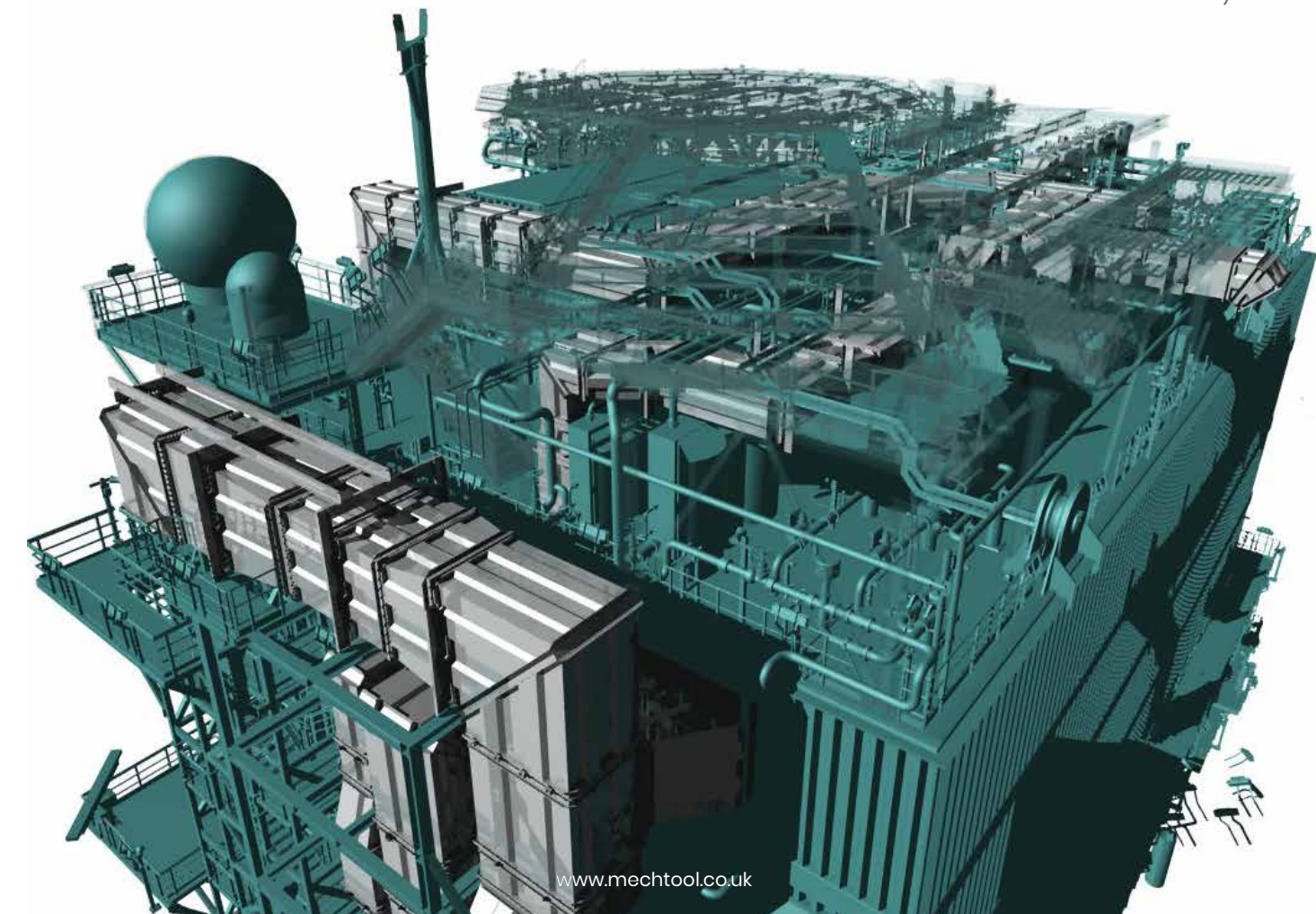
Lightweight, Fully Rated Design

Comparative studies show that MTE's blast resistant ducting is the lightest fully rated system available, allowing operators to realise weight savings from concept through to final installation. This aligns with MTE's long established platform weight reduction philosophy, delivering improved structural efficiency and reduced lifecycle costs across offshore assets.

Typical Applications

- Blast resistant life safety ventilation systems
- Living Quarter (LQ) fresh air ducting
- Equipment room ventilation ducting
- Fire rated high pressure / high velocity air systems
- High integrity module ventilation

Below: 3D model created for client by MTE





Your Safety. Our Priority.



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