

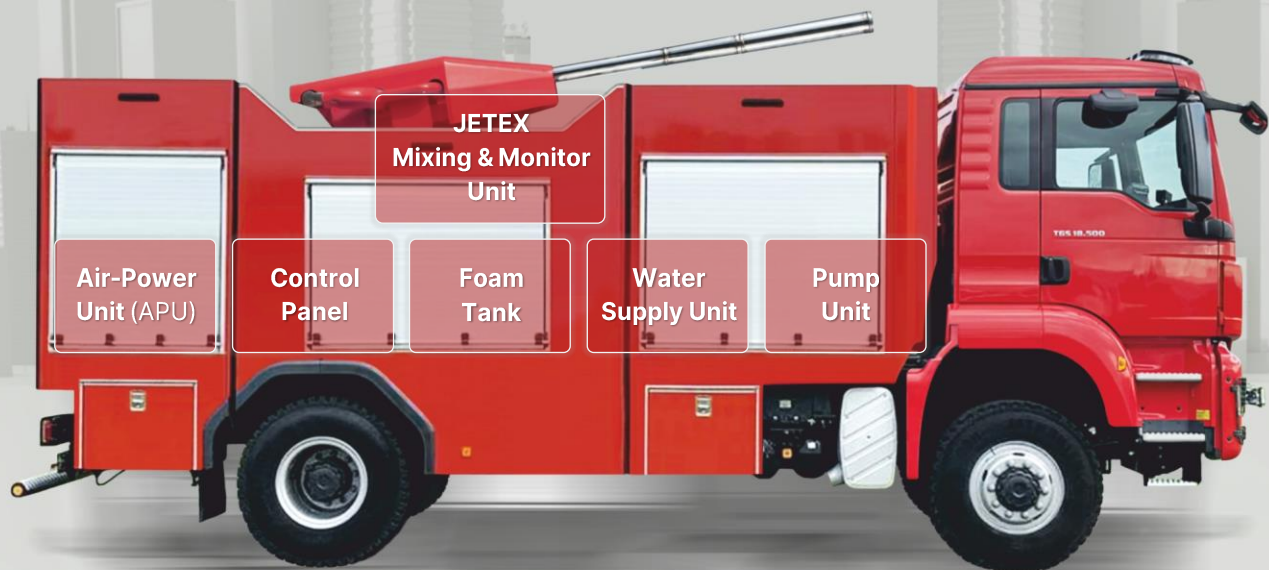


JETEX APU Package

AVIATION-DERIVED AIR POWER FOR INDUSTRIAL FIREFIGHTING

A specialized JETEX APU firefighting platform

A different approach to air-assisted industrial firefighting



Not a conventional water-carrying fire truck

A mobile JETEX APU platform designed for operation from external water supply

Most air-assisted firefighting systems generate airflow around the extinguishing agent.

The JETEX APU Package combines:

- JETEX mixing and monitor system
- aviation-derived Auxiliary Power Unit
- air delivery system
- pump unit
- control and integration package

Instead of relying on a large industrial compressor installation, the system uses a compact gas-turbine power unit originally developed for aviation applications.

JETEX uses a different principle

Compressed air is introduced directly into the extinguishing stream, creating a high-energy two-phase flow that combines water, foam and air within a single coherent jet.

The result is a firefighting platform designed to deliver a long-range two-phase extinguishing stream under demanding industrial conditions.

FROM PROVEN PROTOTYPE TO INDUSTRIAL PLATFORM

JETEX technology has already progressed beyond the laboratory stage.



A fully functional container-based prototype has been developed and successfully demonstrated in multiple large-scale fire scenarios.

The next stage is the industrial integration of the JETEX firefighting principle into a professional mobile platform powered by an aviation-derived APU and intended for operation from external water supply systems available at industrial sites.

This stage includes independent validation, reliability optimization and prototype vehicle development together with an OEM / integration partner.

WHY THIS PLATFORM DOES NOT CARRY ITS OWN WATER

The JETEX APU Package is not intended as a conventional municipal-style fire truck with an onboard water tank.

It is conceived as a specialized industrial firefighting platform for facilities where water is already available through:

- fixed industrial firewater networks
- hydrants and ring mains
- pump stations
- tank farm water supply systems
- port and terminal firefighting infrastructure
- temporary water supply from support vehicles or external sources

By removing the need for a large onboard water tank, the platform can use the available chassis capacity for the systems that are critical to JETEX operation:

- APU air-power package
- JETEX mixing and monitor system
- foam system
- pump package
- controls and integration hardware

This approach creates a lighter and more focused industrial firefighting platform intended for high-intensity intervention rather than water transport.

CURRENT DEVELOPMENT STAGE

We are building the world's first vehicle-integrated JETEX APU firefighting platform – a mobile system that uses an aviation-derived Auxiliary Power Unit to generate a powerful two-phase extinguishing stream for extreme hydrocarbon fires.

WHY AVIATION-DERIVED APU POWER?

The use of an aviation-derived APU is not intended as a stylistic reference to aerospace technology. It is a practical engineering choice.

Compared with large industrial compressor packages, an APU offers a compact and powerful source of compressed air better suited to mobile firefighting applications where installation space, system weight and vehicle integration become critical.

Key advantages include:

- high power-to-weight ratio
- compact dimensions
- proven aerospace engineering
- rapid start-up capability
- practical suitability for mobile industrial firefighting platforms.

DESIGNED FOR INDUSTRIAL SITES WITH EXISTING WATER INFRASTRUCTURE

The JETEX APU Package is intended for facilities where water availability is not the primary limitation, but where effective fire suppression still depends on how efficiently the extinguishing agent can be delivered to the seat of the fire.

Typical applications include:

- oil storage terminals and tank farms
- refineries
- petrochemical plants
- LNG facilities
- ports and marine terminals
- large industrial process facilities

In such environments, the key operational challenge is often not the transport of water, but the rapid and effective application of the extinguishing stream under difficult industrial fire conditions.

A VEHICLE-INTEGRATED JETEX PLATFORM

The JETEX APU Package is designed as a vehicle-integrated industrial firefighting platform.

Its purpose is not to replace conventional fire trucks.

Its purpose is to provide industrial operators and specialized vehicle manufacturers with a new mobile firefighting architecture for critical incidents where a powerful two-phase JETEX stream may offer operational advantages.

The concept is particularly relevant for industrial environments where:

- water is already available on site;
- long-range stream performance matters;
- intervention speed is critical;
- foam application must be combined with strong cooling and penetration capability.

This opens the door for collaboration with vehicle manufacturers, industrial firefighting experts, engineering partners, testing and validation organizations, and industrial end users.



Explore the full concept and technical platform overview: jetex-sgt.com/concept

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