

**PYROBAN**<sup>®</sup>

**Ex-tec**<sup>™</sup> & **Euromech**<sup>™</sup>

Preventing explosions, protecting people



Advanced explosion protection conversions for zone 1 (ATEX)

Ex-tec (for electric equipment) and Euromech (for diesel equipment) conversions combine leading explosion protection technology, offering workers and sites the latest safety when used in the chemical, pharmaceutical, food, flavours, paints, coatings, cosmetics, defence and other manufacturing industries.

**ZONE 1  
SAFETY**

Pyroban is a specialist engineering company that converts standard forklift trucks and similar mobile equipment so that they cannot cause a fire or explosion when used within industries that process, store and distribute flammable materials.

# Ex-tec 2G<sup>TM</sup>

Ex-tec 2G is a zone 1 solution for all types of electric equipment combining various explosion protection methods. The system does not detect a gas or vapour but works by modifying all ignition sources so the protected equipment is safe to operate in the presence of a flammable atmosphere.

Ex-tec 2G includes explosion proof Ex'd' enclosures for arcing and sparking components and surface temperature limitation to ensure the motors, brakes, electrics and other components remain below the auto-ignition temperatures (T Class) of flammable materials.

Frame leakage monitoring, stainless steel cladding of the forks, Ex'e' motors, Ex'i' intrinsically safe circuits, Ex'm' encapsulation and Ex'e' battery fitted with Ex'd' plugs and sockets completes the conversion.



*Ex'd' integrated enclosures for arcing and sparking components.*

All trucks are ATEX 94/9/EC compliant and refer to EN1755:2000+A1:2009. Conversion, testing and certification takes place at Pyroban factories.

A 3G (zone 2) alternative is also available



**Safe & Secure - Drivers rely on Ex-tec 2G**

// Pyroban EX systems are designed to integrate with all makes and models of forklift trucks. We maintain the truck performance characteristics and focus on ergonomics, ensuring the lowest EX lifetime cost possible. //

Steve Noakes, Engineering Manager, Pyroban Group Ltd

# Euromech 2G™

**Euromech 2G** is a zone 1 solution for all types of diesel equipment, combining various explosion protection methods. The system does not detect a gas or vapour but works by modifying all ignition sources so that the equipment is safe to operate in the presence of a flammable atmosphere.

**Euromech 2G** includes explosion proof Ex'd' enclosures for arcing and sparking components, cladding of forks and surface temperature limitation to ensure the engine, motors, brakes, electrics and other components remain below the auto-ignition temperatures (T Class) of flammable materials.

The system includes an inlet shutdown valve for automatic and manual shutdown and a water cooled exhaust gas cooler to limit surface and exhaust temperatures, frame leakage monitoring, Ex'e' components, Ex'i' intrinsically safe circuits, Ex'm' encapsulation and Ex'e' battery.



*Engine showing Pyroban's exhaust cooling system & components*

All trucks are ATEX 94/9/EC compliant and refer to EN1755:2000+A1:2009. Conversion, testing and certification takes place at Pyroban factories.

A 3G (zone 2) alternative is also available.



**Safe & Secure - Drivers rely on Euromech 2G**

# LIFETIME SAFETY

Explosion proof equipment will be delivered to site safe, however it should be maintained safely throughout its life. Follow these three steps:

## 1) ENSURE MAINTENANCE BY TRAINED PERSONNEL

Pyroban provides full training courses and certification for customer engineers maintaining the equipment.

End users should ensure that service engineers maintaining the equipment have a current Pyroban safety certificate.

## 2) FOLLOW MAINTENANCE SCHEDULES / GENUINE PARTS

Ensure the equipment is serviced according to Pyroban maintenance schedules using Pyroban approved parts.

## 3) EX-ASA - ANNUAL SAFETY AUDITS

Ensure equipment has an annual EX-ASA Audit, in accordance with EN 60079-17:2007.



Pyroban provides a full range of explosion prevention solutions. Dust solutions are also available.

## About Pyroban

The Pyroban Group provides explosion proof safety and environmental solutions for industry worldwide. Founded in 1972, Pyroban now operates manufacturing facilities in Europe and Asia with regional sales and service centres throughout the world. With continued investment in research, development and customer services, Pyroban remains a global leader in its field.



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