

Pyronova passion for protection

About us

PYRONOVA, specializing in fire protection, brings practical solutions since 1992. In early days many targets were already set, one of them was to become the leading supplier of comprehensive solutions of fire safety in Europe. To achieve this, we rely on strategic pillars that allow us to transform our objectives into reality year after year.













Leader in fire Safety field

Effective solutions

Personal approach

Control of quality by an authority

Flexibility of local independent representation

More than 20 years of experiences

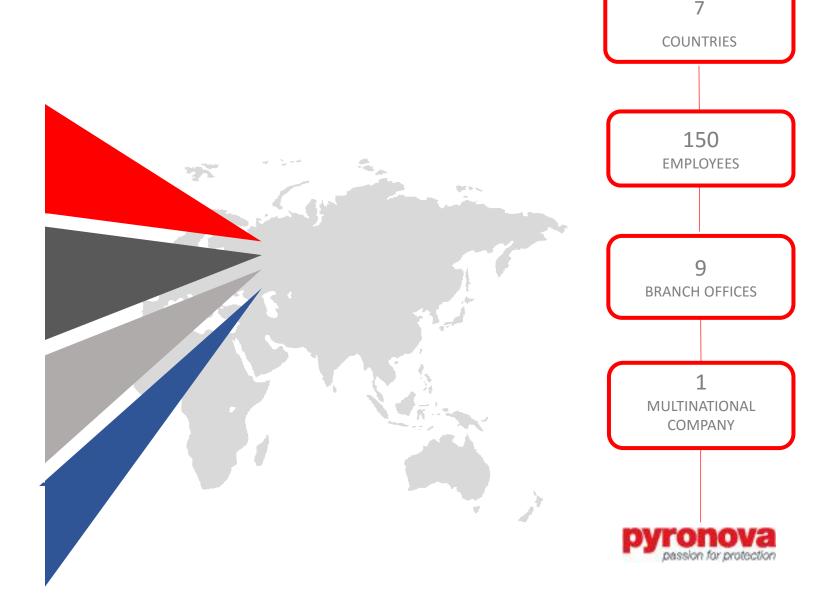
Group structure

- 1. Pyronova Poland / Warsaw
- 2. Pyronova Czech republic / Brno / Prague

3. Pyronova Slovakia / Trnava / Zvolen

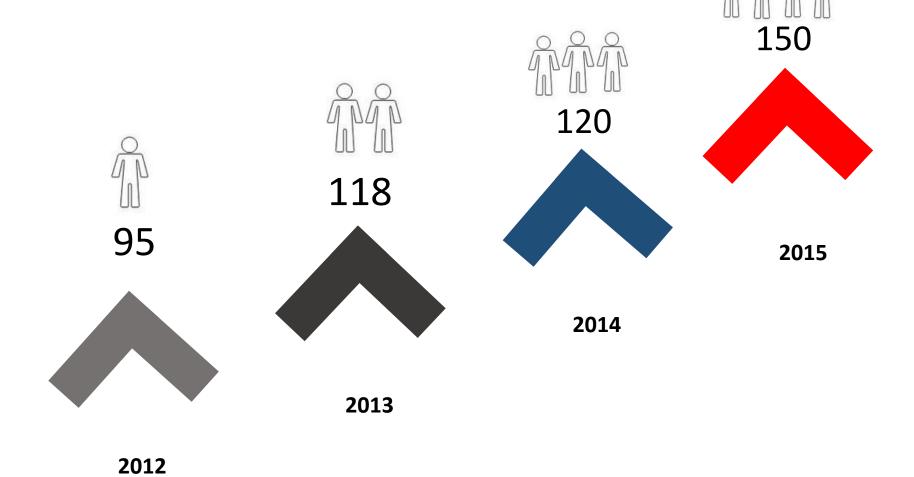
- 4. Pyronova Romania / Cluj Napoca / Bucharest
- **5.** Pyronova Hungaria / **Budapest**

- **6.** Pyronova Bulgaria / **Sofia**
- 7. Pyronova Ukraine / Velyka Bakta



Satisfied employees





Constant renewal portfolio of our products



OxyReduct



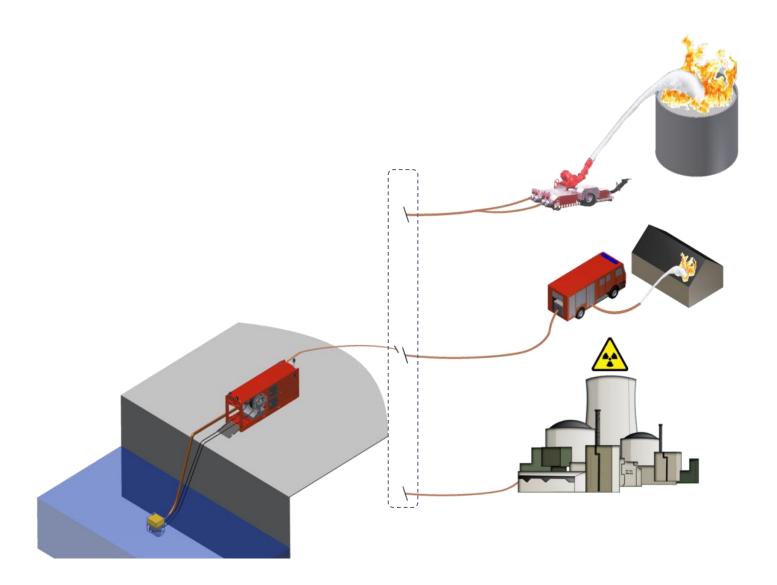




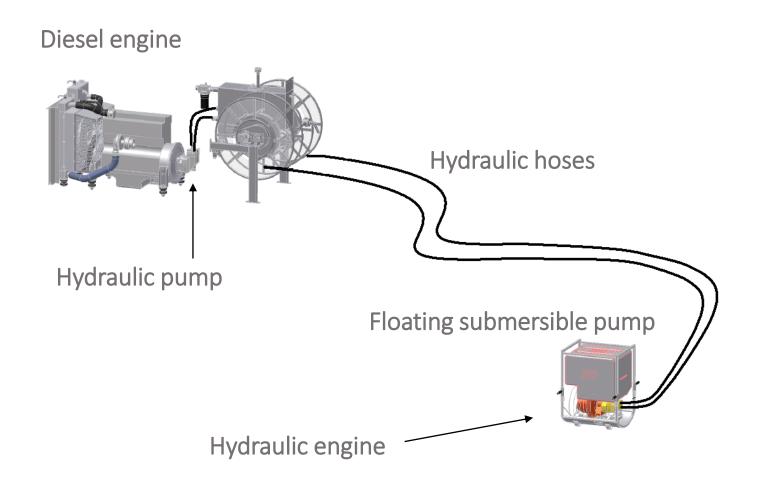
CAFS

FOGTEC

Hytrans Fire System – use



Hytrans Fire System – pumping principle



Hytrans Fire System – pump units









HS 60 1.500 l/min at 10 bar 4.500 l/min at 2,5 bar

HS 150 3.000 l/min at 11 bar 8.000 l/min at 2,5 bar

HS 450 15.000 l/min at 12 bar

HS 900 NG 24.000 l/min at 12 bar



HS 1200 30.000 l/min at 12 bar



Autoboost from 5.000 l/min at 5 bar up to 45.000 l/min at 12 bar



Powerfoam 6% up to 24.000 l/min 3% up to 48.000 l/min

Hytrans Fire System – hoses manipulation





Hoses laying

Up to 40 km/hod 1 person

Hose recovering

Up to 4 km/hod 3-4 persons

Situation:

Fire at Buncefield in 2005

After explosion 22 tanks in fire, fixed water supply system damaged by explosion.

HFS system was used:

6x HS150 at the normally inaccessible water source,

3x HS150 as booster pumps,

4x HS150 to run off water,

33.000 m of 6" hoses deployed within 1 hour!

32.000 l/min the constant water flow over 2 km!

Water source – balanced tank – 35.000 m³.



Situation:

Fire at Buncefield in 2005 – standard water transport system?

$$N_C = \frac{T_1 + T_2 + T_3}{T_4} + 1$$
 $T_1 = \frac{60 \times L}{V_j} = (60 \times 2) / 40 = 3 \text{ min}$

$$T_2 = \frac{V_N}{Q_c} = 8.000 / 4.000 = 2 \text{ min}$$

$$T_3 = \frac{60 \text{ x L}}{V_n} = \frac{(60 \text{ x 2})}{35} = 3,43 \text{ min}$$

$$T_4 = \frac{V_N}{Q_H}$$
 = 8.000 / 32.000 = 0,25 min



Situation:

Fire at Buncefield in 2005

$$3 + 2 + 3,43$$

 $N_C = ---- + 1 = 35$
 $0,25$

35 fire trucks only to transport the water!

Other fire trucks needed to boost the pressure, Other fire trucks or monitors needed for fire figting!

HFS system performed the task which normally would take 160 fire fighting vehicles!



Situation:

Fire at Chemopetrol in 1996

Petrol station and tanks in fire: 11.000 m³ gasoline 5.000 m³ gasoline Hydrant system insufficient.

More than 350 firemen deployed at fire fighting at once, Almost 1.100 firemen participated in total, FDPT from 35 districts participated.

Extinguishing took 7 days and nights in total, Used 43.680 $\rm m^3$ of water, 450 t of foam concentrates, 18 t of $\rm CO_2$, more than 18 t of powder and other agents.



Hydrant system insufficient!

Risks in petrochemical industry

Explosion damages the fixed fire extinguishing system

Explosion damages the hydrant system pipeline

Insufficient water supply

SOLUTION FOR EFFICIENT FIRE FIGHTING: HYTRANS FIRE SYSTEM AS A MOBILE WATER TRANSPORT SYSTEM

Various use



Direct firefighting - monitors

Water supply to fire trucks

Water supply to hydrants

Water supply to boosters









Water supply for "Big Wind"







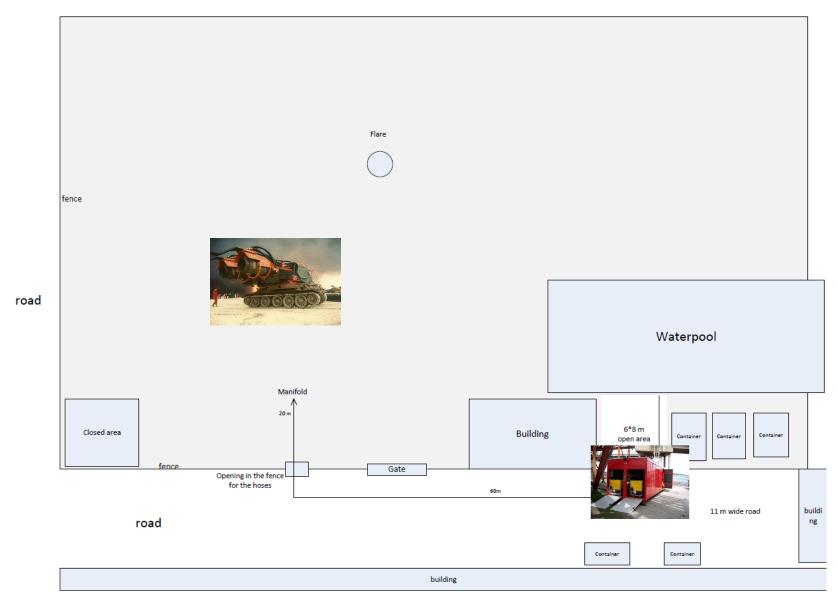
Hydrosub HS1200 30.000 l/min at 12 bar

2 lines 12" hoses reduced to 4 lines of 6" hoses connected to hydrant pipeline

Big Wind Required input: 30.000 l/min at 6 bar

WELCOME TO THE LIVE DEMO THIS AFTERNOON

Water supply for "Big Wind"



Satisfied customers

Hella
Continental
Emerson
Faurecia
FM Logistic
Gas & Oil
IAC
Iron Mountain
JCI
J&T Group
Lego
PSA
Strabag

U.S. Steel

Volkswagen

Zipp Lufkin Industries Timken Cameron Kronospan Facebook Diehl Aircabin Procter & Gamble Delphi **Arvin Meritor** Audi Schweighofer Pannonia Bioethanol Europe Macromex Plastimat

Chemart Farmol Mercedes Protocom Nafta Gbely Hopi On Semiconductor Skanska Metrostav Brose Eset Takenaka Kia Radel & Hahn Slovnaft

Furni Finish
Habau
Meopta
Lifestyle Logistic
Transpetrol
Visteon
Würth
Aldi
Arcadom
Duslo
Ecco
Getrag Ford Transmission
NCHZ
Prologis

Trigranit

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