

HFS Hytrans Fire System



Hytrans Fire System

mobile water supply



HFS

HFS



Hytrans Fire System

mobile water supply



In 1964 Kemach machinery was founded. In 1978 Kuiken NV became the major shareholder and since 1991 Kemach was a 100% subsidiary of Kuiken NV. The Kemach name was then changed to Kuiken Hytrans BV.

In 2006 Kuiken Hytrans BV joined the Holland Special Pumps group, already a long term partner. The name was changed to Hytrans Systems BV. Hytrans Systems currently has around 50 employees working in production, engineering, (after)sales and customer services. Hytrans products are exported world wide.

Hytrans Systems BV has two major product lines :



HTS

Hytrans Traffic System

mobile traffic information

Hytrans Fire System

mobile water supply



HFS



HFS



Hytrans Fire System

mobile water supply

Hytrans Fire System

mobile water supply



HFS



PROBLEM :

- Accessibility of open water sources at large scale fires or disasters, like
 - Earthquake
 - Floods
 - Shallow water
 - Sabotage/Attack
 - Explosion/losing fixed installed hydrant system

- Necessary time to built up a reliable, stable Water supply over thousands of meters.

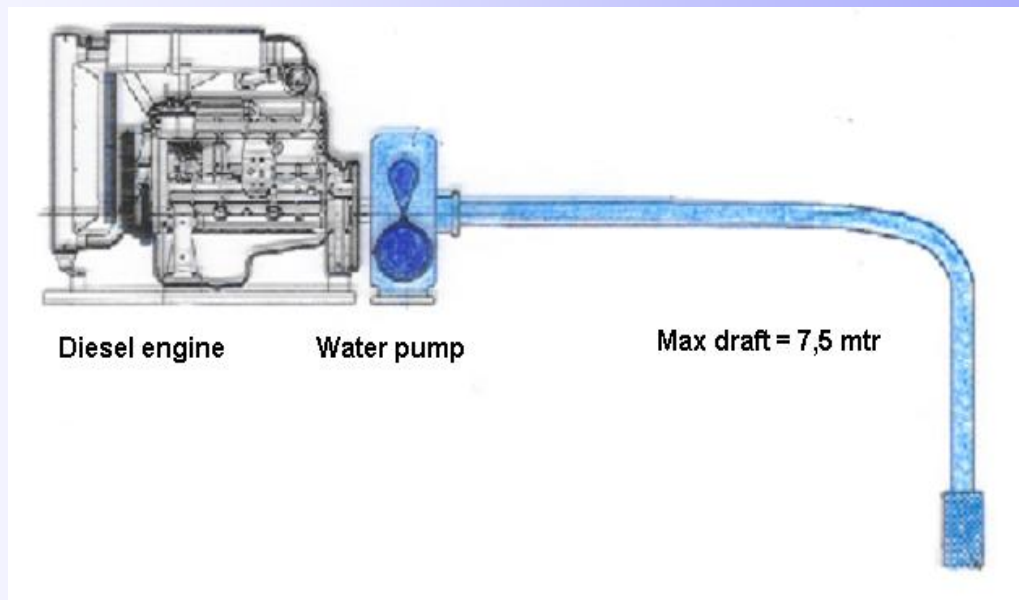


PROBLEM 2 :

- Investment- and Maintenance costs as well as flexibility of fixed installed water supply/fifi systems.
- Future (very often today already) manpower problems at the fire services.
- Recycling/pumping of contaminated fifi water.
- Available water capacity at new buildings (smaller diameter pipes because of quality drink water)
- Environment – drink water/fifi water

Conventional Systems

- Conventional system
- 70% Capacity loss when draft = 7,5 meter



Conventional Systems

Hytrans Fire System

mobile water supply



HFS

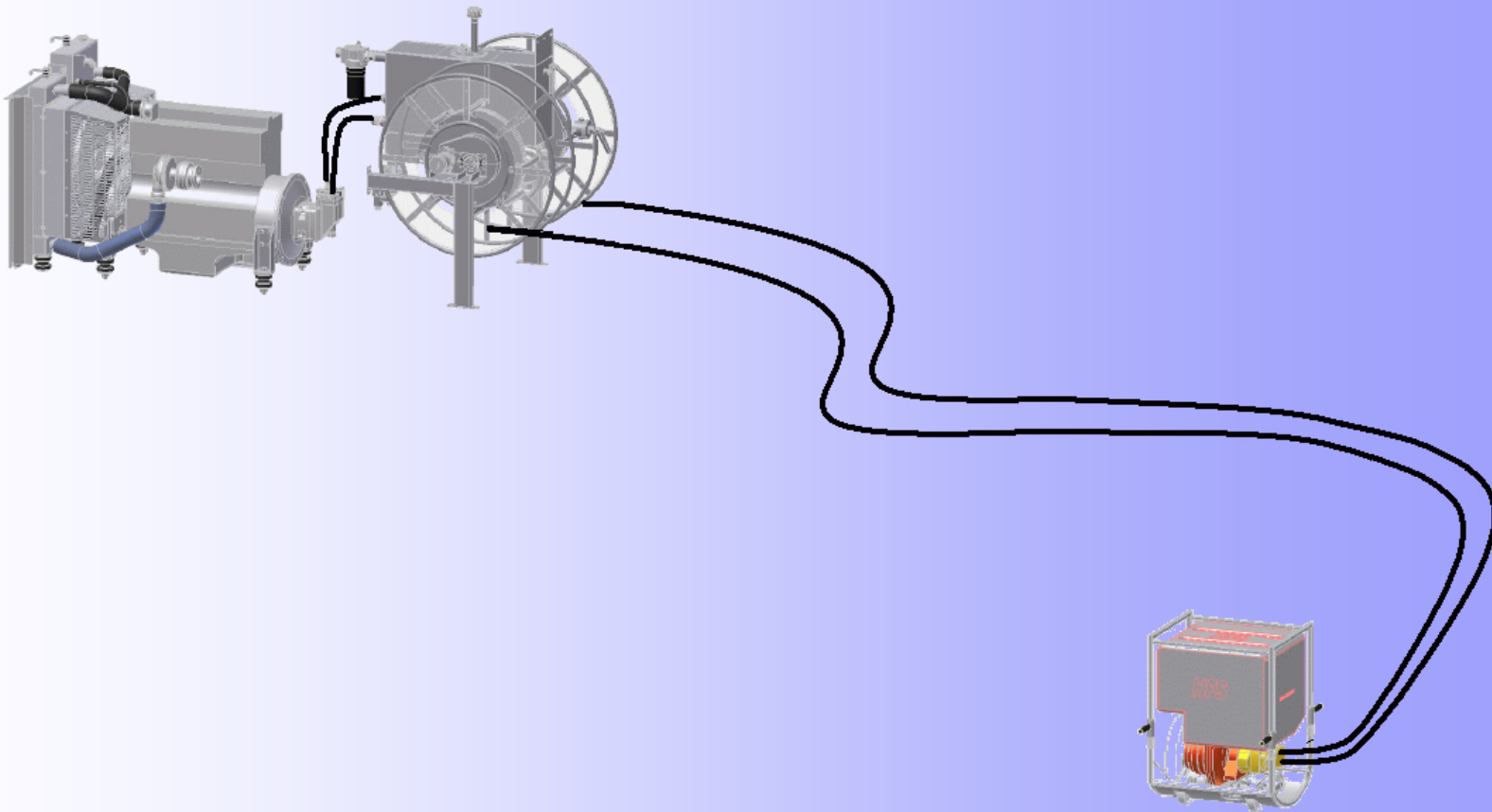
The Solution

Hytrans Fire System

mobile water supply



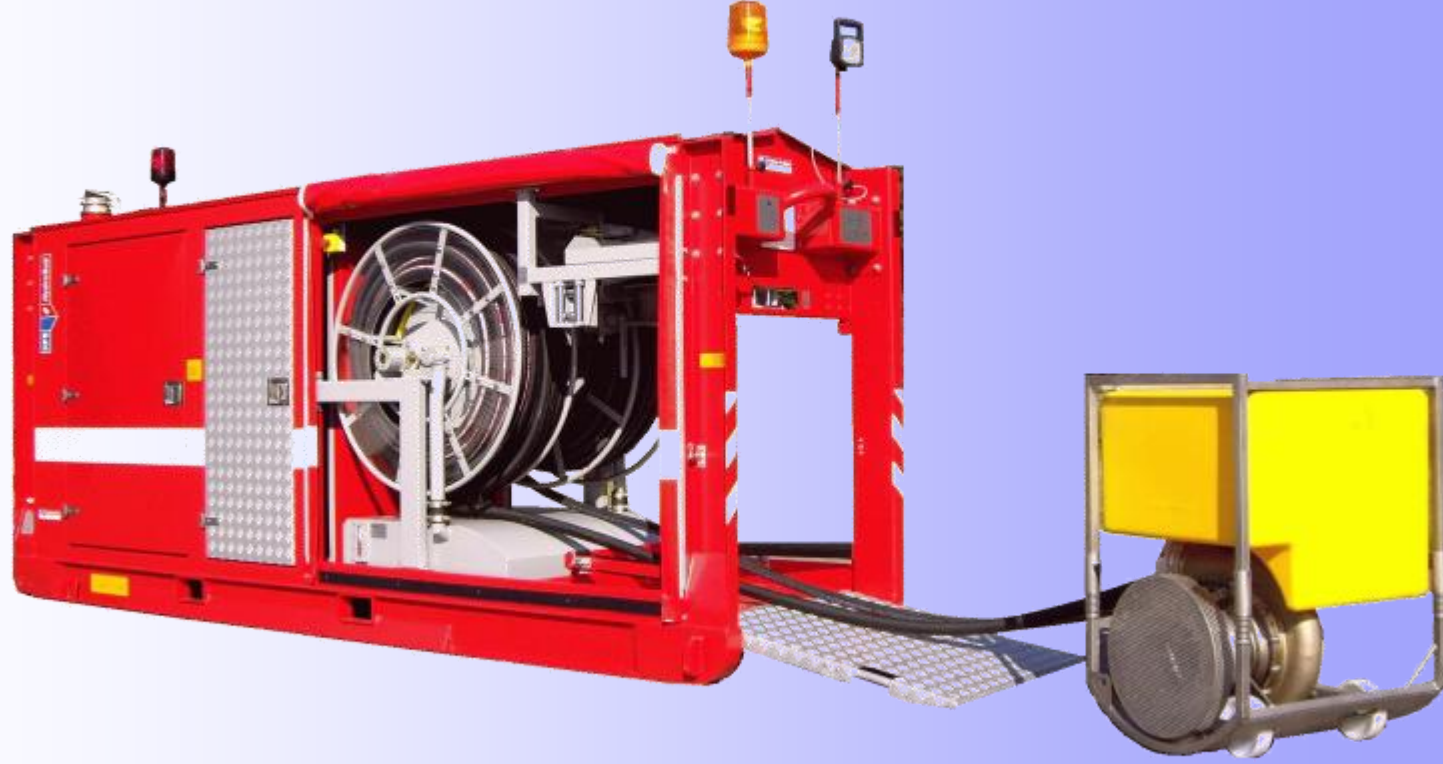
HFS





mobile water supply

The HydroSub

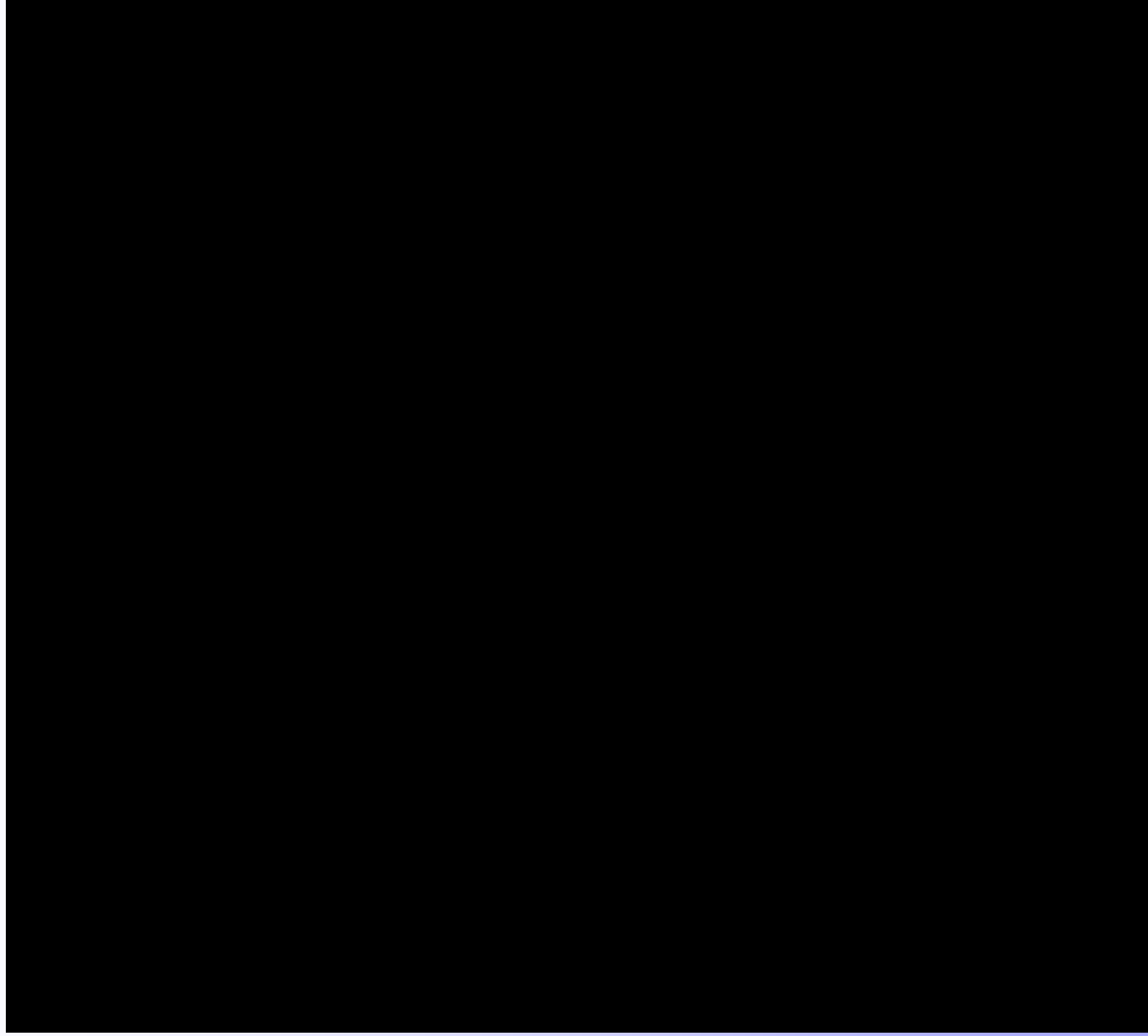


HFS



Hytrans Fire System

mobile water supply



Getting (to) the water in every situation:

Hytrans Fire System

mobile water supply



HFS

Advantages

Hytrans Fire System

mobile water supply



HFS

Advantages

Hytrans Fire System

mobile water supply



HFS

Advantages

Hytrans Fire System

mobile water supply



HFS



HFS



Hytrans Fire System

mobile water supply



Advantages

Hytrans Fire System

mobile water supply



HFS

Advantages

Hytrans Fire System

mobile water supply



HFS



Advantages

Hytrans Fire System

mobile water supply



extreme shallow water



HFS

Advantages

Hytrans Fire System

mobile water supply



HFS



Advantages

Hytrans Fire System

mobile water supply



HFS

Advantages

Hytrans Fire System

mobile water supply



HFS



Product Line

- HydroSub 60

- Trailer
- Truck
- Skid
- Pick-Up

- Up to 30 meters draft
- 1500 – 4500 l/min,
with FloodPump up to 20.000l/min
- Up to 12 bar



HS60

Hytrans Fire System

mobile water supply



HFS



HS60

Hytrans Fire System

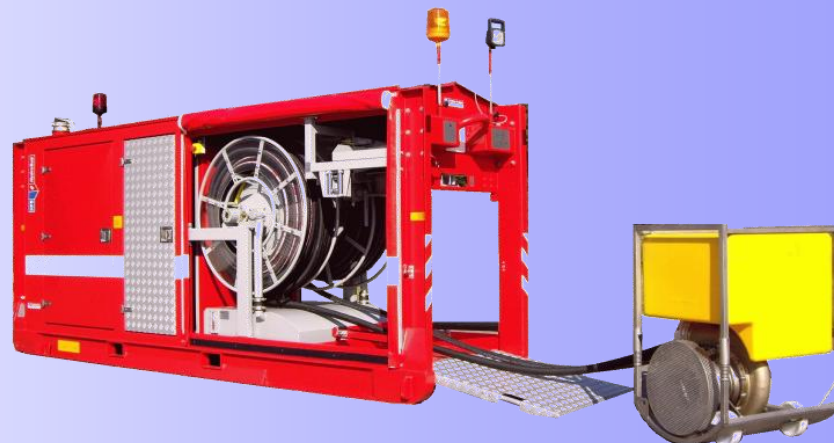
mobile water supply



Product Line

HydroSub 150, on

- Container
 - Fixed installed
 - Trailer
- Up to 60 Meter draft
 - 3500 – 8000 l/min, with FloodPumps up to approx. **45.000l/min**
 - Up to 16 bar



HFS



Hytrans Fire System

mobile water supply

Product Line



HydroSub150

Hytrans Fire System

mobile water supply



HFS

Advantages

Hytrans Fire System

mobile water supply



HFS

Product Line

- Large capacity units
 - HydroSub 300
 - HydroSub 450
 - HydroSub 900
 - Auto boost concept



Product Line

- HydroSub 450
 - 1 pump (SHFL)
 - “Boost” Concept
 - Max 50 meter distance
 - Max v-draft 10-15 m @ 11.000 l/min
 - 11.000 l/m @ 12 Bar
 - 700 bHP engine
 - Also available with full controlled foam unit 1% - 6%



Product Line

- HydroSub 900
 - 2 pumps (SHFL)
 - “Boost” Concept
 - Max 50 meter distance
 - Max 10 –15 m v-draft @ 22.000 l/min
 - Up to 22.000 l/m
 - 12 bar
 - 1100 bHP 16V
 - Also available with full controlled foam unit 1% - 6%.



Product Line

Hytrans Fire System

mobile water supply



Due to sophisticated CanBus controls very easy to deploy as a BoostPump.



HFS

Product Line

HFS AutoBoost Concept

- HydroSub 150's
- 1 AutoBoost Unit
- 10" or 12" Hoses
- Up to approx. 45.000 l/m @ 12 bar
- Also available with full controlled foam unit 1% - 6%.



Easy controls/operation

- failure warning via text message
- call in for fuel level,...
- automatic Start/Stop message via e-mail for logbook
-



Easy controls/operation

Hytrans Fire System

mobile water supply



HFS



Product Line

Hytrans Fire System

mobile water supply

Various Containers

- Hook arm system
- Pump unit & Hose on one Container
- 5,5 or 6,5 meter
- Single or double front cabinet



HFS

Hose Layer Container

High speed hose laying

Hytrans Fire System

mobile water supply



HFS

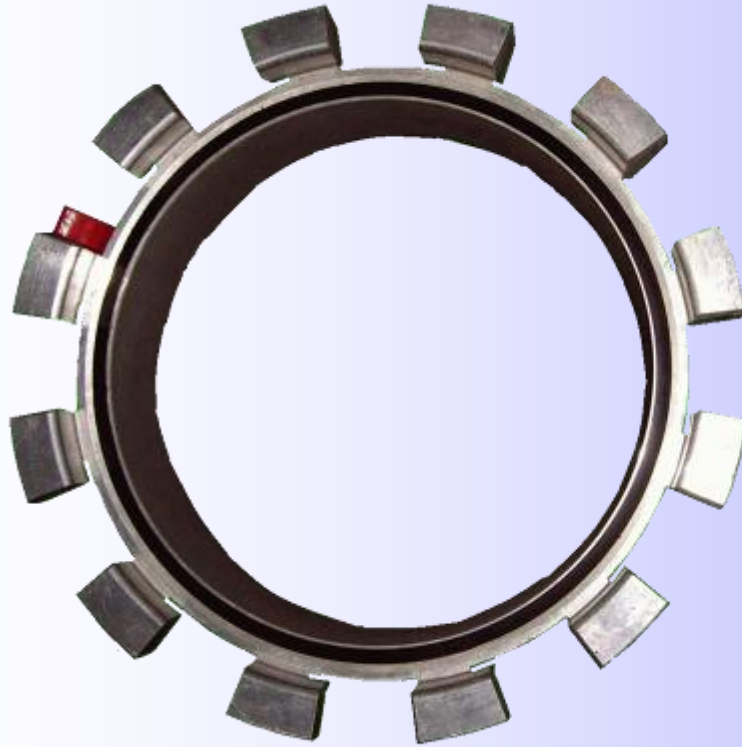


High Speed Hose Laying





Large Diameter Hose



12"



2.1/2"



Large Diameter Hose

Hytrans Fire System

mobile water supply



HFS



Hose Recovery Units

HRU-200

5" – 6" – 8" hose
1000mtr in 30 minutes
3 person crew (including driver)
Pick up coupled hose
Pick up from left and right side
(power slide)



HRU-300

10" – 12" hose
1000mtr in 45 minutes
4 person crew (including driver)
Pick up coupled hose
Pick up left or right side



Portable Water Supply Equipment

All parts to make a complete mobile hydrant system

Dividers

Y-pieces

Gate valves

Non return valves

Adaptors

Coupling Spanners

Etc, etc.



Product Line

Hytrans Fire System

mobile water supply



HFS

NO PROTOTYPE!!

Worldwide in use for more
than 20 years!!



Hytrans Fire System

mobile water supply



HFS

Proven Performance

HFS International Deployments

Hytrans Fire System

mobile water supply

- Flooding
- Earth quake
- Iraq / East Timor
- Major fires all over the world
- Oil plants
- Chemical plants





More information
and
DVD available!