

MAIN CATALOG

Naderer
Brandsimulation



MADE IN EUROPE



INDEX OF CONTENTS

Firetrainer for fire extinguisher training

Firetrainer Smartfire, Eco, Business.....	3
Mock-up modules.....	4
Firetrainer complete set.....	5
Automatic fire extinguisher filling System.....	6

Fire Modules for firefighter-training

Firetrainer Business III Professionell.....	7
Universal fire pan.....	8
Burning gas-bottle-valve / Acetylen-fire unit.....	9
Valve fire unit.....	10
Surface fire module.....	11
Firecar.....	12

Hazardous goods and fire simulation training unit

Mobile dangerous goods trainer GUBAS.....	13
Dangerous goods training facility tank (hook-up platform).....	15
Dangerous goods training platform facility (trailer).....	17
Petro-chemical fire training plant.....	18

Customized fire training plants

Fire training container 20" & 45".....	19
Aircrafttrainer A320.....	23
Individual exterior fireplaces.....	25
Training building „FRTC Frankfurt“.....	26
High Rise fire training building wit HAZMAT Warehouse Simulators	27
Petro-chemical fire training plant“.....	29
Train fire simulation plant“.....	30

HANDHELD FIRE EXTINGUISHING TRAINER

FIRETRAINER SMARTFIRE



The mobile fire simulation training unit smartfire is specially designed for instruction and employee training. It is characterized by its easy handling and compactness.

- Dimension fire tray closed: L/W/H: 840 x 650 x 250mm
Dimension fire tray open: L/W/H: 1.220 x 650 x 230mm
- Weight: ca. 65 kg
- Fire classes A/C and B can be represented
- Suitable for all extinguishing agents (foam, powder, water, CO²)
- Battery operation optional
- Manual operation only
- (Article no. 2150-2811)

FIRETRAINER ECO

Due to its external control unit, the fire simulation training unit Firepocket Eco can be used for employee training as well as for the operation of fire training modules for firefighters.

- Dimension fire tray closed: L/W/H: 840 x 650 x 250mm
Dimension fire tray open: L/W/H: 1.220 x 650 x 230mm
- Weight: ca. 112 kg
- Fire classes A/C and B can be represented
- Mains and battery operation standard
- Automatic or manual operation selectable
- Connectors for fire simulation training modules: 1
- Suitable for all extinguishing agents (foam, powder, water, CO²)
- (Article no. 2150-2326)



FIRETRAINER BUSINESS



The fire simulation training unit Firepocket Business has been developed for professional firefighter training. Depending on the variant type, up to 4 fire simulation modules can be operated simultaneously.

- Dimension fire tray closed: L/W/H: 840 x 650 x 250mm
Dimension fire tray open: L/W/H: 1.220 x 650 x 230mm
- Weight: ca. 140 kg
- Suitable for extinguishing agents foam, powder, water, CO²
- Fire classes A/C and B can be represented
- Mains and battery operation standard
- Automatic, manual or programmed operation selectable
- Connectors for fire simulation training modules: 4
- (Article no. 2150-2323)

MOCK-UP MODULES

WASTE PAPER BASKET



- Dimension L/W/H:
300 x 300 x 330 mm
- Weight: 5,7 kg
- (Article no. 1750-2235)

SPRAY TIN / AEROSOL EXPLOSION



- Dimension L/W/H:
200 x 200 x 500 mm
- Weight: 5,9 kg
- (Article no. 1750-2254)

ELECTRIC MOTOR



- Dimension L/W/H:
550 x 270 x 400 mm
- Weight: 9,3 kg
- (Article no. 1750-2248)

FRYING PAN / BURNING OIL EXPLOSION



- Dimension L/W/H:
270 x 200 x 480 mm
- Weight: 5,7 kg
- (Article no. 1750-3131)

ELECTRONIC SWITCH BOARD CABINET



- Dimension L/W/H:
530 x 400 x 550 mm
- Weight: 22,5 kg
- (Article no. 1750-2249)

MONITOR / TELEVISION



- Dimension L/W/H:
420 x 400 x 500 mm
- Weight: 8,7 kg
- (Article no. 1750-2247)

COFFEE MACHINE



- Dimension L/W/H:
340 x 250 x 590 mm
- Weight: 10,9 kg
- (Article no. 1750-6783)

GAS VALVE



- Dimension L/W/H:
200 x 200 x 890 mm
- Weight: 8,0 kg
- (Article no. 1750-2531)

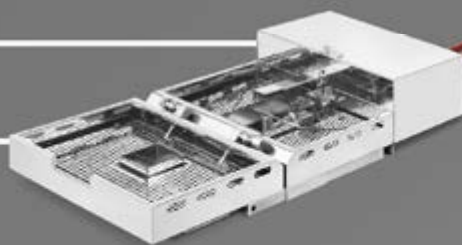
FIRETRAINER COMPLETE SET

With the Firetrainer complete sets, we offer a customised transport and storage option for all our entry-level equipment on a roll container basis. You decide which equipment should be compactly stored in the roll container.

Example of loading list for roller containers:

- Firetrainer ECO-II control unit
- Handheld remote controller
- Fire tray tiltable
- Dummy modules wastebasket and monitor
- Heating mats for gas bottles (Qty. 2)
- Gas hoses with pressure reducer

Liquid fire
Fire class „B“



Modern ECO-II
Control unit

fire tray

2 x 11 kg propane gas bottle

ramp

Waste paper basket
Fire class „A“



AUTOMATIC FIRE EXTINGUISHER FILLING SYSTEM

Similar to the Firetrainer complete set, we offer a customised transport and storage option for fire extinguishers including a filling system. With the automatic filling system, 2 fire extinguishers can be filled at the same time via quick-release couplings. This saves you the trouble of opening the fire extinguishers to fill them with water.

Example roller container mesh box:

- L: 1.200 W: 800 H: 1.200mm
- 4 swivel castors with dead man's brakes
- Drum and parking brakes
- Actuation is hydraulically
- Capacity for 12 pcs. fire extinguisher
- Attached drawer carriage for the compressor and the filling unit



3 x CO₂ Extinguisher
(optional)

Automatic fire
extinguisher filling system



Compressor 15 bar

Example loading list:

- 6 Fire extinguisher with lever
- 6 Fire extinguisher with impact button
- CO₂ fire extinguisher optional
- Automatic fire extinguisher filling System with compressor 15 bar

FIRETRAINER BUSINESS III PROFESSIONAL



Functional principle MANUAL operation

Pressing the corresponding button ignites the pilot flame. As soon as the pilot flame has been detected, the main flame can be started by pressing the button once more. When the button is pressed a third time, the fire goes out again.

Functional principle AUTOMATIC operation

If the automatic mode is active, the first flame is ignited when any button is pressed. If the pilot flame is detected, the main flame starts automatically. As soon as the first fire is extinguished, the second one starts automatically. Once the second is extinguished, the third starts and once this is extinguished, the fourth starts.

Functional principle PROGRAMME operation

If the unit is in the modus programme, 3 jump-over times can be set. Fire place 1 is started by pressing any button. Once the first timeout period has elapsed, the second fire point starts regardless of the status of the first. This continues until the fourth fire point is reached.

UNIVERSAL FIRE PAN

The universal fire pan is the ideal training device for firefighting training and is also suitable for the use of hand-held fire extinguishers. With a fire of the size of a Euro pallet, not only can all dummy modules be used, but also empty barrels or metal structures.



- Dimension L/W/H:
1.200 x 800 x 400mm
- Weight: ca. 90 kg
- Suitable for all extinguishing agents (foam, powder, water, CO²)
- Fire classes A/C and B can be represented
- Optionally also available with integrated control unit



BURNING GAS-BOTTLE-VALVE / ACETYLEN-FIRE UNIT

The universal fire pan serves as the basic module for the gas cylinder fireplace. Similar to the barrel fireplace, this fire module also has an inactive unit in the form of a 33 kg gas cylinder which can be filled with water (weight) for recovery exercises. The second gas cylinder has a gas hose fire which can be extinguished by closing the cylinder valve. Of course, this training module also offers a surround/surface fire.

- Dimension L/W/H:
1.200 x 800 x 1.700mm
- Weight: ca. 160kg
- Suitable for all extinguishing agents
(foam, powder, water, CO²)
- Optimal for indoor use
- Optionally also available with integrated control unit
- This module can also be ordered as an acetylene fireplace. In this version, a heating mat which can be heated infinitely up to 200°C is additionally installed in the active gas cylinder to simulate the decomposition of acetylene. OPTIMAL FOR THE EMPLOYMENT OF THERMAL IMAGING CAMERAS!



VALVE FIRE

The valve fireplace is a professional training device for "teamwork", "water jet pipe training" and "heat familiarization". Due to its modular design, this fire module can either be set up as a "stand alone" version on a tripod or flanged to structures, flanges, pipelines, container walls, cisterns etc. With an output of approx. 2000 kW! it places extreme demands on the trainee.



- Dimension without tripod L/B/H:
1.030 x 680 x 460mm
- Dimension with tripod L/B/H:
1.030 x 820 x 1.460mm
- Weight: ca. 125 kg
- Ideally suited for hollow waterjet gun training
- Optionally also available with integrated control unit



SURFACE FIRE

The surface burning module is offered in different sizes (e.g., Ø2m or Ø3m). It can be operated in two stages, whereby the liquid phase is added in the second stage to obtain maximum output. By attaching a specially designed baffle, one or more waterjet nozzles can be used simultaneously.



- Built to DIN 14097
- Diameter 2m, up to 3m
- Fire surface: approx. 7m²
- Extinguishing success control via optical and thermal sensors
- Water drainage / filling valve at the lowest point of the fire pan
- Weight: ca. 500 kg
- Ideally suited for hollow waterjet gun training
- Optionally also available with integrated control unit



FIRECAR

The Firecar training device is designed for the training and instruction of firefighters. It offers a wide range of realistic fire scenarios and allows you to control the duration and intensity. Like the majority of our products, the Firecar can be ordered with manual, automatic or programme control.



- Mobile Firecar training unit with 4 fire places
- Various design options
- Forklift attachment for transport
- Smoke distribution system
- Simultaneous operation of all 4 fire places
- Control via wireless remote control unit
- Ideal for training with hollow jet nozzles
- Verification of extinguishing success via optical and thermal sensors (optional)
- **Possible Fire Places:**
 - Engine fire
 - Tyre fire
 - Dashboard fire
 - Interior fire
 - E-Car Battery fire



HAZARDOUS GOODS AND FIRE SIMULATION TRAINING UNIT GUBAS

GUBAS is the most modern mobile fire and leakage training unit on the market, offering real, efficient and safe training opportunities. The complete training unit is operated with environmentally friendly propane gas and does not contaminate air, soil or extinguishing water during training. The units are built in accordance with DIN 14097-2 (fire training systems for gas-operated display units) and are thus subject to the highest safety requirements.



FIRE SIMULATION

- ▶ Crack fire with product leakage
- ▶ Flow / ground fire
- ▶ Valve fire
- ▶ Pressure relief valve / tank rupture
- ▶ Fire simulation with inactive dummies
- ▶ Mobile (additional) fire modules



LEAKAGES

- ▶ Tank crack and leaking weld
- ▶ Leaking valves
- ▶ Pipe training system / salvage pumping
- ▶ Crash leakage at the front
- ▶ All known methods for leak sealing are applicable



ACETYLEN GAS (ADDITIONAL EQUIPMENT)

- ▶ Recovery of gas cylinders
- ▶ Cooling of gas cylinders
- ▶ Hose Fire
- ▶ Detection of decomposition inside
- ▶ Soot formation due to decomposition inside
- ▶ Thermal imaging camera training



TACTICS

- ▶ Reconnaissance in the event of accident
- ▶ Action training incl. recognition of the effectiveness of actions
- ▶ Tactics training for hazardous goods accidents
- ▶ Tactics for gas cylinder fires
- ▶ Situation awareness training
- ▶ Rescue of persons from containers
- ▶ Firefighting training



Design variants

GUBAS is designed and built entirely according to your wishes and specifications. Whether on a hook-lift platform, a tandem trailer, with or without container rescue unit.

You determine the equipment and appearance of your training system.

Of course, all system variants can also be delivered as a completely self-sufficient solution.



TIPPING TRAILER



HOOK-LIFT PLATFORM



TURNTABLE



TANDEM

MODULE und LEAKAGES

- ▶ Chemical plant leakage
- ▶ Road tanker fittings
- ▶ Railroad tanker fittings
- ▶ Defective gas pipe
- ▶ Valve fire unit
- ▶ Acetylene fire module
- ▶ Smoke system (presentation of gases/vapours)
- ▶ Colour mixing system (food colouring) up to 4 different colours



PROJEKT EXAMPLE MOBILE HAZARDOUS GOODS TRAINING FACILITY

- Dimension L/W/H: 5.900 x 2.550 x 2.500mm
- 13 leakage points
- Valve fire unit
- Acetylene fire module
- Smoke system (presentation of gases/vapours)
- Colour mixing system (food colouring) up to 4 different colours



PROJEKT EXAMPLE MOBILE HAZARDOUS GOODS TRAINING FACILITY

BUILT TO CUSTOMER REQUIREMENTS!

The dangerous goods training facility shown here was specially developed for practising damage to tank vehicles, tank containers, tank rail cars (railway) and pipelines (GSG situations). The roll-off container consists of a free-standing container and an equipment room for storing equipment and a training system for sealing pipeline leaks. The purpose of the exercise facility is to work on common valves of one valve type each of road tanker, rail cisterns and tank container.

The roll-off container is only charged with water and fog for exercise purposes. All systems were depicted as realistically as possible in terms of type and design. All depicted leakages are controlled via pipelines.

- Dimension L/W/H: 5.900 x 2.550 x 2.500mm
- Smoke system (presentation of gases / vapours)
- Possible exercise scenarios:
 - Sealing leaks in pipelines and tank containers
 - Repair of simulated leaks on valves
 - Rescue of persons from containers
 - Getting to know different valve systems on tank vehicles and their operating principle



Tank dummy road tanker fittings



Tank dummy tanker container fittings



Tank dummy railroad cistern fittings



PROJEKT EXAMPLE MOBILE CBRN TRAINING FACILITY

Chemical, biological, radiological and nuclear hazards

CBRN-Training Systems enable realistic training for emergency services personnel handling hazardous substances and goods. The aim is to provide practical training in safety, operational competence and tactical response in complex hazardous situations.

We can deliver stationary or mobile CBRN training facilities – on roll-off containers or tandem trailers – tailored to individual customer requirements.

Optionally, the complete training equipment, such as hazardous materials pumps, system separators, standpipes or decontamination equipment, can be supplied too.

With the additional optional Hazmat Trainer Pro, radiological and nuclear scenarios can also be realistically simulated.

- Dimension
Driving Condition: L/W/H: 6500x2500x2950 mm
Exercise Condition: L/W/H: 8000x5500x2950 mm
- Colour mixing system (food colouring) up to 4 different colours
- Smoke system (presentation of gases / vapours)
- Possible application scenarios:
 - Sealing leaks in tanks, pipes and flanges
 - Working in chemical protective suit (CPS) and with respiratory protection
 - Setting up and operating decontamination sites
 - Use of modern measurement and detection technology
 - Tactical cooperation between the fire service, ambulance service and special forces



PETRO-CHEMICAL FIRE TRAINING PLANT **OMV Petrobrazi Refinery, Plojesti / Romania**

Petro-chemical Firetraining facility on 2 floors

Fire scenarios:

Electric motor, tank rupture, gas valve, pump sealing, flange and overpressure valve



PROJEKT EXAMPLE MOBILE FIRE CONTAINER „MBA-2017-GVG“

- Mobile 45' HQ fire container with 6 fire places
- Vertical and lateral extension
- Curtain fireplaces
- Flash-over fire module
- Kitchen fire with frying pan fire
- Salon table fire (mobile)
- Bed fire (mobile)
- Staircase fire
- Artificial smoke system



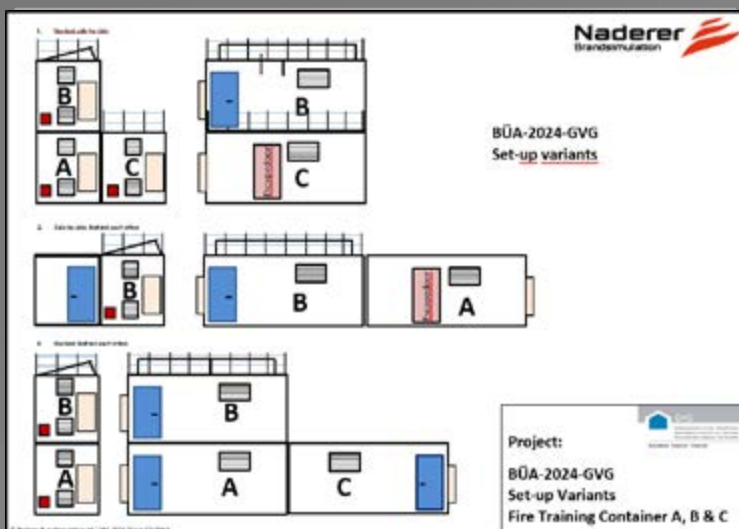
PROJEKT EXAMPLE MOBILE FIRE CONTAINER „FIRE EAGLE“

- Mobile 45' HQ fire container with 6 fire places
- Gas bottle valve fire module
- Flash-over fire module
- Bed fire module
- Flange fire module
- Staircase fire
- Kitchen fire with frying pan fire
- Hot Door
- Artificial smoke system



PROJEKT EXAMPLE 3 MOBILE FIRE CONTAINERS 20' ON HOOKLIFT PLATFORMS

- 3 Mobile 20' fire containers with 2 fire places each
- Gas bottle valve fire module
- Floor fire module
- Ceiling fire module
- Barrel fire module
- Universal fire pan module
- Laboratory bench fire with frying pan fire
- Artificial smoke system
- Containers can be operated individually or simultaneously in different set-up variants



PROJEKT EXAMPLE AIRCRAFTTRAINER A320

Airport Zweibrücken, Germany

- Aircraft trainer with 6 fire places
- Cockpit fire, kitchen fire (galley), rubbish bin fire in the toilet
- Hat-rack fire, landing gear fire
- Engine fire with 3 burner elements in liquid and gas phase
- Opening in the engine for use with Fognail
- Automatic spreading of the fire possible
- Flashover training

Implementation of customer wishes possible!



Aircraft A320 Wing & Landing Gear Fire **International Airport Al Ain, Abu Dhabi, United Arab Emirates**

- Engine fire with 3 burner elements in liquid and gas phase
- Opening in the engine for use with Fognail
- Landing Gear Fire
- Automatic spreading of the fire possible
- Spill Fire 16 sqm



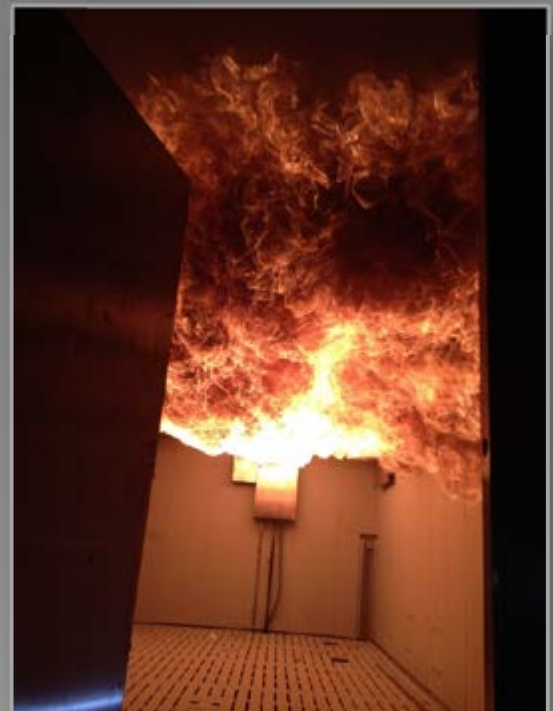
PROJECT EXAMPLE INDIVIDUAL EXTERIOR FIREPLACES Bavarian Fire Service Academy, Geretsried, Germany

- Fire training facility into 3 fire stations
- Firecar (tyre fire, engine fire, interior fire, boot fire)
- Railroad cistern with 2 valve fires and surface fire
- Filling station fire



PROJEKT EXAMPLE FIRE TRAINING BUILDING „FRTC FRANKFURT“

- 7-storey building
- 11 fire training rooms
- 2 wireless remote-control units
- 3 mobile fire places
- Staircase fire
- 4 Fireplaces mock-up's (kitchen, workbench, bed, sofa)
- 4 stationary fireplaces (window fire, flash-over, roof fire, gasometer fire)
- Artificial smoke / fog system



PROJEKT EXAMPLE HIGH RISE FIRE TRAINING BUILDING CIVIL DEFENCE ACADEMY, ABU DHABI, UNITED ARAB EMIRATS



- Size HRB: 12-storeys, 2 Tunnels
- Hazardous goods warehouse
- 14 fire sectors, 3 sectors + HAZMAT can be operated simultaneously
- 3 Operator stations & 3 RCU
- 27 firesimulators with 35 fireplaces
- 13 Special Effect Props in the HAZMAT
- Solid Fire Room & Flue Gas Cleaning Plant
- 1 Hot Door
- 24 Smoke generators
- 28 Day/Night & 27 Thermal Cameras
- 2 Gas Evaporators (450 & 600 kg/h)
- 50 Gas Sensors
- 20 Combustion Air fans
- 28 Exhaust axial & roof fire gas fans



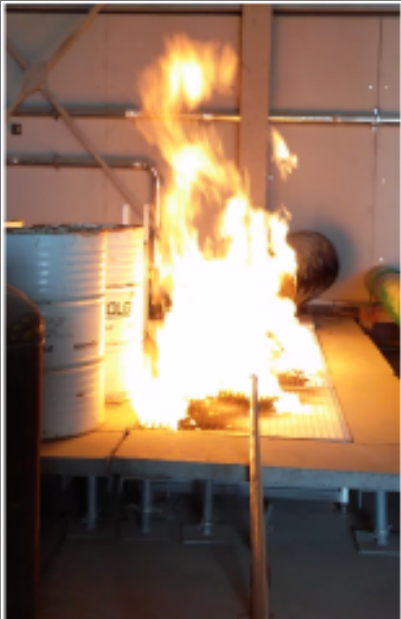
Flash-over with ceiling fire







HAZMAT Warehouse Simulator



PROJEKT EXAMPLE PETRO-CHEMICAL FIRE TRAINING PLANT HANDAN, CHINA

- 2 Oil Tanks, 1 Gas Tank
- 1 Petro-Chemical Installation
- 13 Fireplaces on 4 floor levels
- 1 Oil Tank top fire
- 4x3 Pipe leaks
- 3 Fire Sectors (2 can operate simultaneously)
- 2 Operator Stations & 2 Remote Control Units
- 2 Gas Evaporators (2x 450 kg/h)



PROJEKT EXAMPLE TRAIN FIRE SIMULATION PLANT RESC KORSOR, DENMARK

- 1 Train Coach in Tunnel
- Seat Fire, double
- Seat Fire, Business Case
- Suitcase Fire
- Electric Cabinet Fire
- Wireless remote control
- Gas monitoring system



TRAINING FOR SECURITY – IN SAFETY!

More than 25 years of experience and continuous further developments lead to new innovative products. These cover a wide range of exercise and training possibilities.

High-quality materials, state-of-the-art components and an innovative team guarantee first-class product quality. Due to the modular design of our systems, the products can be flexibly adapted to customer requirements. All products are operated with environmentally friendly propane or natural gas.

Our creative team consists of experienced firefighters, engineers and sales people and is available to you worldwide for service and after-sales support.

We guarantee a high industrial standard for the production of all devices, among others according to DIN 14097. All devices are manufactured and tested according to strict QMS specifications.

Our company guarantees:

- High manufacturing quality – unbeatable in service life
- Reliability and functionality
- Fair price-performance ratio
- Close customer contact and mutual trust
- Certified plants
- QM-System
- DIN 14097
- Guarantee beyond the warranty period

- QMS
- Warranty – 24 months
- Technically certified
- Production according to DIN Test specifications



- **DIN 14097 GDG (2018-05)**
Fire training systems gas-fuelled display units
- **DIN EN 746-2 (2011-02)**
Safety requirements for furnaces and fuel management systems
- **VDE 0116 (1989-10)**



www.naderer-firetrainer.com



www.heat-wave.de



**Premiers
for
Equipment**



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