



Construction Site Systems

Tanks, Machines and Equipment Platforms
for Use in Unexploited Regions



safe • reliable • highly effective

Fields of Application and History of our Construction Site Systems

At least 60 per cent of our earth's landmass do not have surfaced roads. In these regions, villages, settlements and resources are accessed via unsurfaced earth roads, trails and paths.

mountains



desert



For these regions, we have designed and manufactured various systems during the last 15 years which are reliably deployed in power plants, in the mining and petroleum industry as well as by military forces.



Krampitz fuel station containers deployed by the German Armed Forces in Kosovo



Krampitz Pegasus® transport tank for mining vehicles



Krampitz Centaur® transport and storage tanks being tested by the German Armed Forces



Krampitz Pegasus® transport tank on mining vehicle being used underground

During the last couple of years, we have started to manufacture a highly interesting product line for power plant and mining companies for worldwide deployment at construction sites.

This product line is based on the Minotaur® transport platforms in various sizes and designs. Various machines and equipment groups can be installed and added fast and easily. For the supply of the machinery and equipment with fuel, suspensions or any other special fluids, our Minotaur® storage tanks and Centaur transport and storage tanks are used.

Our Minotaur® systems serve as platforms on special-purpose vehicles as well as for mobile, modular industrial plants.

Our systems can be lifted fast and easily on trucks via crane or fork lift and fastened using standard twist locks.

At the place of use, they can remain on the vehicle or can be set down for stationary tasks.

Characteristics of our Construction Site Systems



container frame - 10 ft

All our systems are based on a CSC approved container frame which is made of steel.

Our containers are thoroughly tested at special test benches to meet the hardest requirements of international transport. A deviation of 0 % in torsion tests are a normal characteristic of our units.



Krampitz tank system at a test bench



construction site systems on the vehicle load platform fastened with twist locks



construction site systems on a trailer

During transport on a truck through the wilderness, the heavy container frame protects the side walls and the system roof from damages caused by trees and branches. It also absorbs and compensates the torsional stress on the hauling vehicle. The heavy frame with its robust platform carries equipment and machinery weighing several tons safely.



construction site systems on an articulated vehicle

Our units can also be stacked and used as industrial plants. This is space-saving, effective and allows for complex production processes.

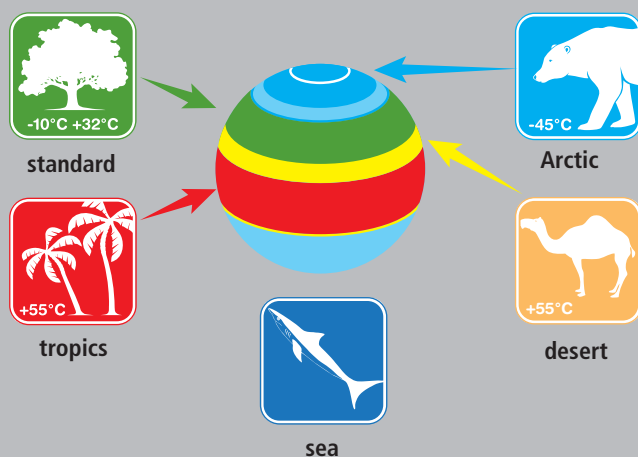
The concept of our Minotaur® system has been continuously extended for 15 years. Today, with its Minotaur systems, Krampitz Tanksystem GmbH offers a system which fulfils complex tasks and meets the most extraordinary requirements.



depot of various fuels in a power plant

We designed the climate packages below for our construction site systems:

Depending on the place of use and design, our climate packages are equipped with special lacquer finishes, insulation, air-conditioning systems or heating.



standard equipment
-the basis



The Arctic package
for deployment
at the polar circle.



The tropics package
for deployment
in the jungle.



The desert package
for deployment
in the desert.



The sea package
for deployment
in maritime climate.

standard

Arctic

tropics

desert

sea

Overview

Schematic Variants

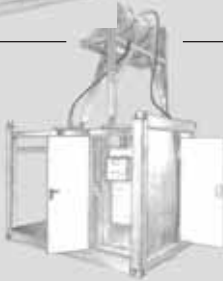
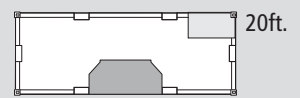
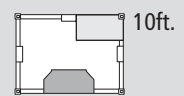
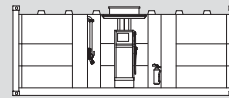
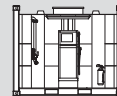
side view

top view

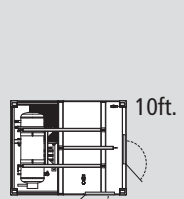
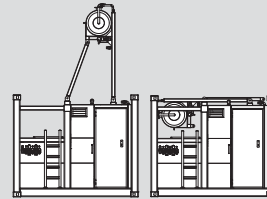


**Minotaur®
fuel station system**

optional: 40 ft

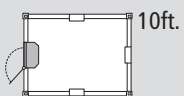
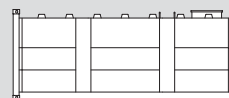
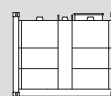


**Minotaur®
fuel supply system**

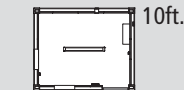
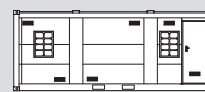
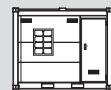


**Minotaur®
fuel storage tank system**

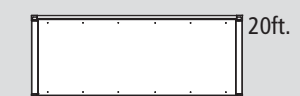
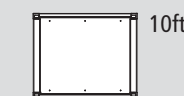
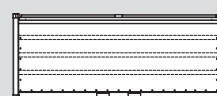
optional: 40 ft



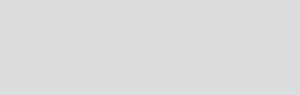
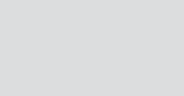
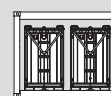
**Minotaur®
office system**



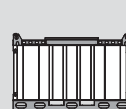
**Minotaur®
transport platform
with tarpaulin enclosure**



**Minotaur®
open transport platform**



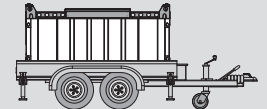
**Centaur®
transport and storage tank**



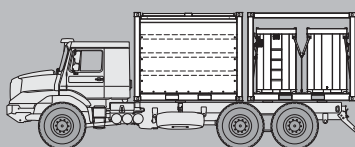
Centaur® 2000



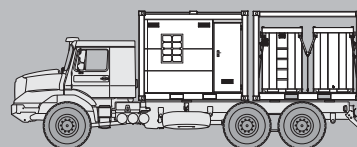
Centaur® 3000



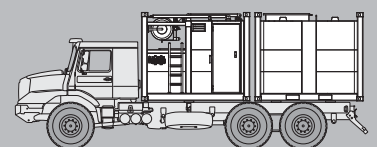
Centaur® tank trailer



truck with machine platform
and Centaur® transport platform



truck with office system and
Centaur® transport platform



truck with fuel supply system
and storage tank system

Approvals

Application

Industries

storage tank approval:
Z-38.12-23

CSC approval:
D-HH-4570/GL 9215 (10ft)
D-HH-4493/GL 9114 (20ft)

Double-wall fuel station system for the stationary fuel supply of vehicles and construction machinery.

storage tank approval:
Z-38.11-86 - KTE
Z-38.11-127 - Sump

CSC approval:
D-HH-4570/GL 9215 (10ft)
D-HH-4493/GL 9114 (20ft)

Fuel supply of large-size engines and vehicles at drilling sites in combination with the storage tank system.

storage tank approval:
Z-38.12-23

CSC approval:
D-HH-4570/GL 9215 (10ft)
D-HH-4493/GL 9114 (20ft)

Double-wall fuel storage tank system for the supply of large-size engines.

CSC approval:
D-HH-4570/GL 9215 (10ft)
D-HH-4493/GL 9114 (20ft)

Heat or low-temperature insulated room for use as office, laboratory, machine room or control room.

CSC approval:
D-HH-4570/GL 9115
D-HH-4522/GL 9139

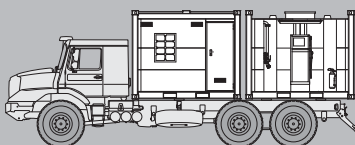
Tarpaulin-enclosed transport platform with removable roof for the installation of pumps, aggregates, engines, filter stations and winches.

CSC approval:
D-HH-4570/GL 9115
D-HH-4522/GL 9139

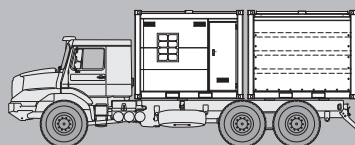
Open transport platform for the setup of Centaur tanks and machine aggregates.

storage tank approval:
Z-38.12-23
IBC approval:
D-BAM 6252-31A
D-BAM 7100-31A
D-BAM 12552-31A
D-BAM 12549-31A

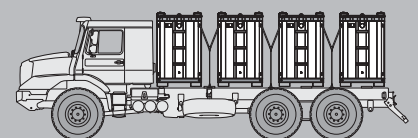
Double-wall transport and storage tank systems for the transport of fuels, mineral oils and suspensions. Single use and battery operation possible.



truck with office system
and fuel station system



truck with office system
and transport platform



truck with Centaur® tank battery

Fuel Station System - Diesel

The Minotaur® fuel station system has a cubic, double-wall design and is made of steel. The system is integrated into an ISO container frame. The tank body of the Minotaur® fuel station container is equipped with two functional niches. One functional niche is located in the centre of the long side of the container and offers room for one filling pump. The other functional niche on the rear side accommodates the entire electrical equipment, such as the vacuum leak alarm device, the electric terminal and distributor box and optionally a 5-kW diesel generator.

Advantages of Minotaur® fuel station systems:

- international approval for transport by ship, rail and road (CSC)
- stacks of up to 8 units possible (empty)
- high safety through high static strength of the tank body - double-wall design with vacuum leak indicator
- high tank volume - optimum space/capacity ratio due to cubic design
- equipment is protected through its arrangement in niches of the tank body
- designed for temperatures ranging from -25 °C to +50 °C
- extremely fast setup and start-up times of the system on site.

For operation, the fuel station system requires a stationary connection to the local power network unless a diesel generator is used.



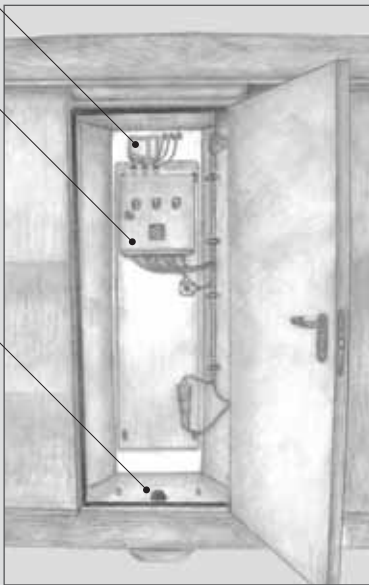
Capacity and Dimensions

tank type	fluid	capacity 100%	capacity 95%	length (total)	width (total)	height (total)	tank height	weight (empty)
		litres	litres	mm	mm	mm	mm	kg (approx.)
KCD-ISO-10	diesel	8,500	8,000	2,991	2,438	2,438	2,000	3,400
KCD-ISO-20	diesel	22,000	21,000	6,058	2,438	2,438	2,000	5,800

vacuum leak alarm device

electric terminal and distributor box (incl. control and wiring of existing electrical components)

cable feed-through on the bottom

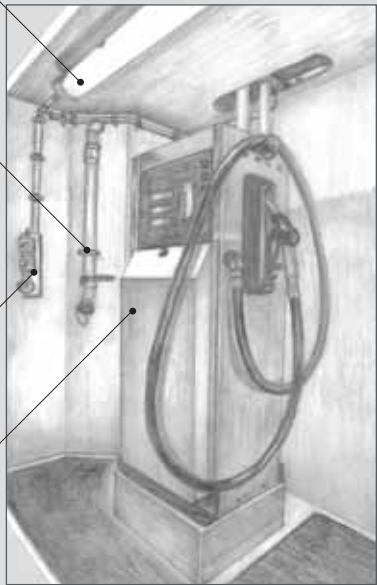


niche lighting - lamp

filling connection for tank vehicles

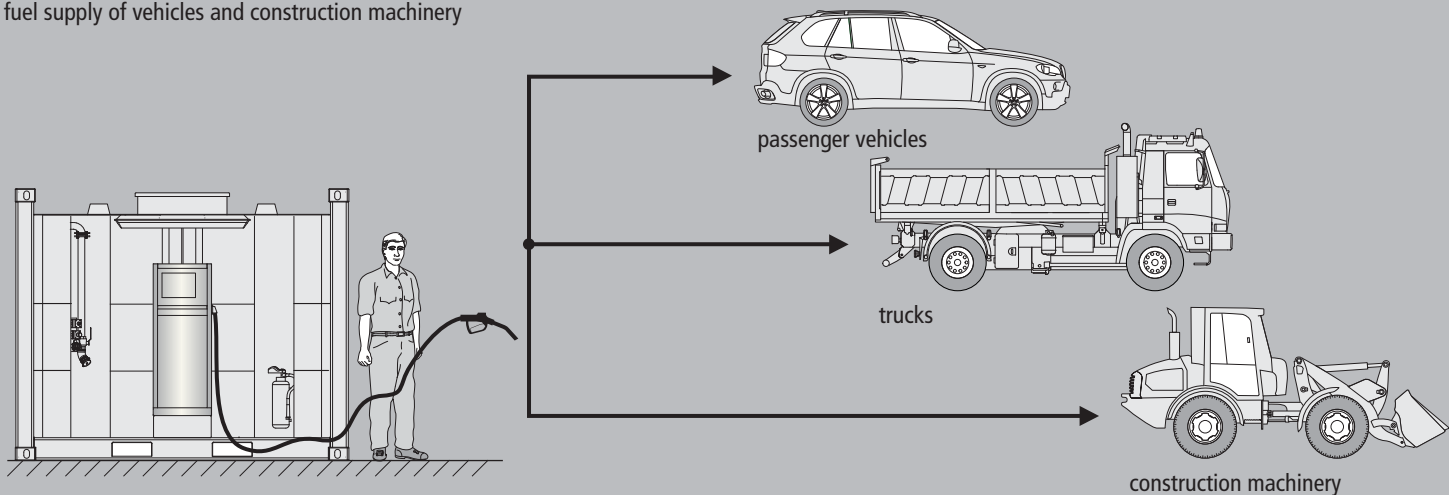
limiting-value transmitter, emergency stop switch and switch for the niche lighting

filling pump 80 litres/min.



Examples of Use of the Fuel Station Container

fuel supply of vehicles and construction machinery





fuel station system 10 ft



20 ft fuel station system used at a construction site at the North Sea



detail: dispenser niche with filling pump



20 ft fuel station system on its way to a construction site in Africa



optional: diesel generator 5 kW, 400 V

Fuel Supply System for Machines with Additional Filling Pump

The Minotaur® supply module in combination with the storage tank system allows the continuous fuel supply of up to eight consumers, such as diesel generators, pump aggregates and compressor aggregates, on a rig. The system is special owing to its foldable day tank which pushes the fuel via connection hoses into the diesel engines through the static flow due to its height of approx. 4 metres.

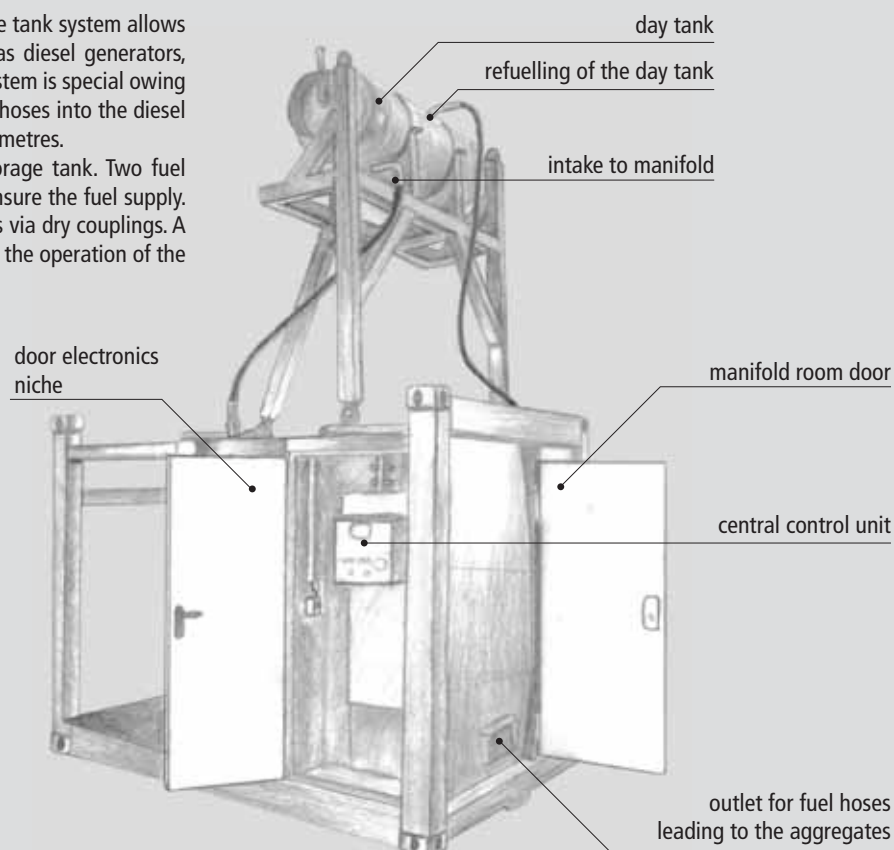
The day tank is continuously supplied by the connected storage tank. Two fuel pumps with a delivery volume of respectively 50 litres/min. ensure the fuel supply. Two large manifolds allow for connecting eight diesel engines via dry couplings. A central control unit monitors the filling levels of the tanks and the operation of the fuel pumps.

Advantages of Minotaur® fuel supply systems:

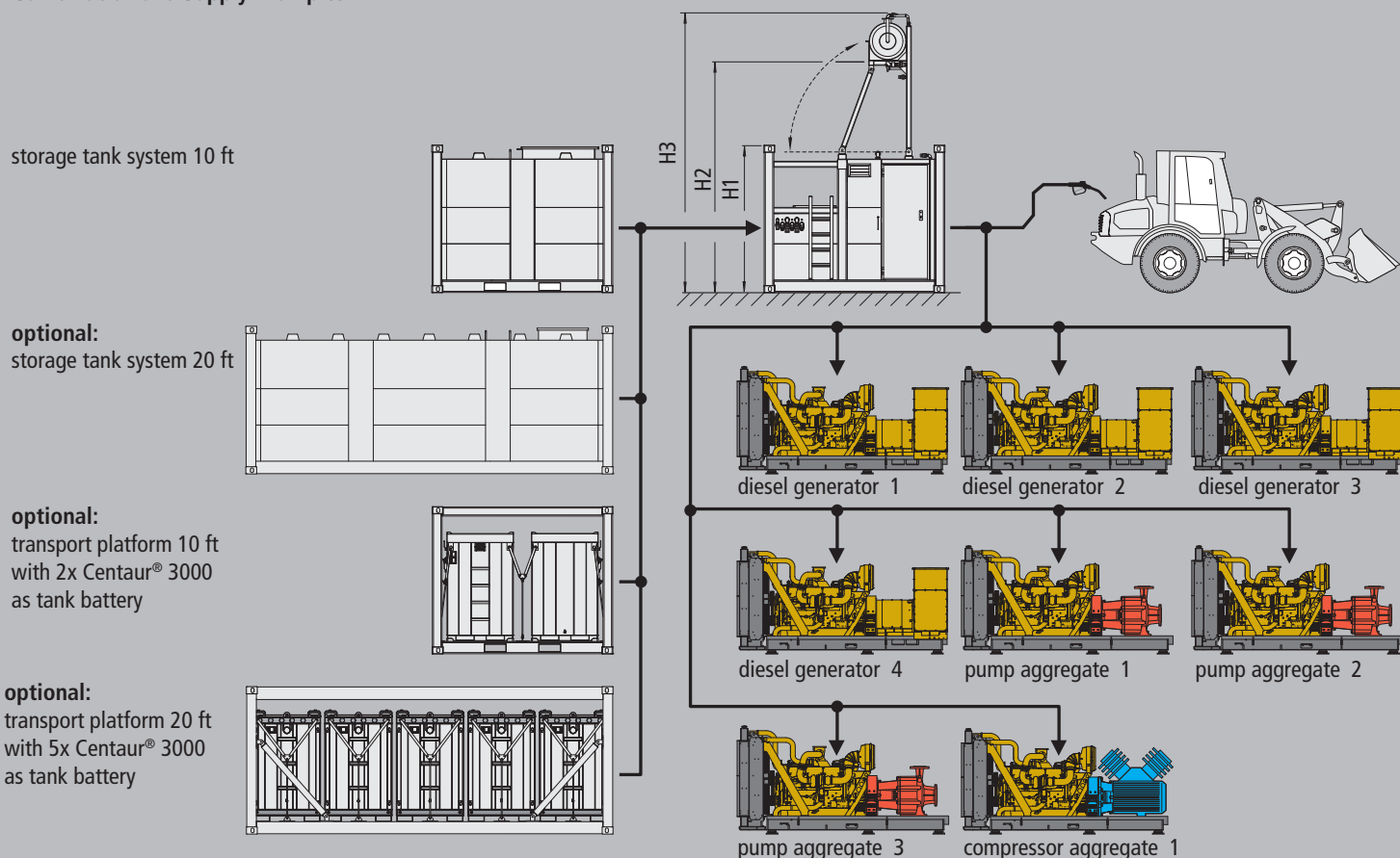
- international approval for transport by ship, rail and road (CSC)
- stacks of up to 8 units possible (empty)
- high safety through high static strength of the tank body
- safe fuel supply of up to eight diesel engines through highly mounted day tank
- equipment is protected through its arrangement in niches of the container body
- designed for temperatures ranging from -25 °C to +50 °C
- extremely fast setup and start-up times of the system on site. Max. 15 minutes.

Dimensions

tank type	fluid	length (total)	width (total)	weight (empty)	tank height (H1)	height of folded-out day tank (H2)	height (total) (H3)
		mm	mm	kg (approx.)	mm	mm	mm
10ft.	diesel	2,991	2,438	3,200	2,438	3,800	4,450



Combination and Supply Examples:





fuel distribution module with folded-out day tank - ready to use



flow and return manifolds for connecting 8 aggregates via dry couplings



day tank being folded into the container frame



day tank



central control unit in electronics niche

Fuel Storage Tank System

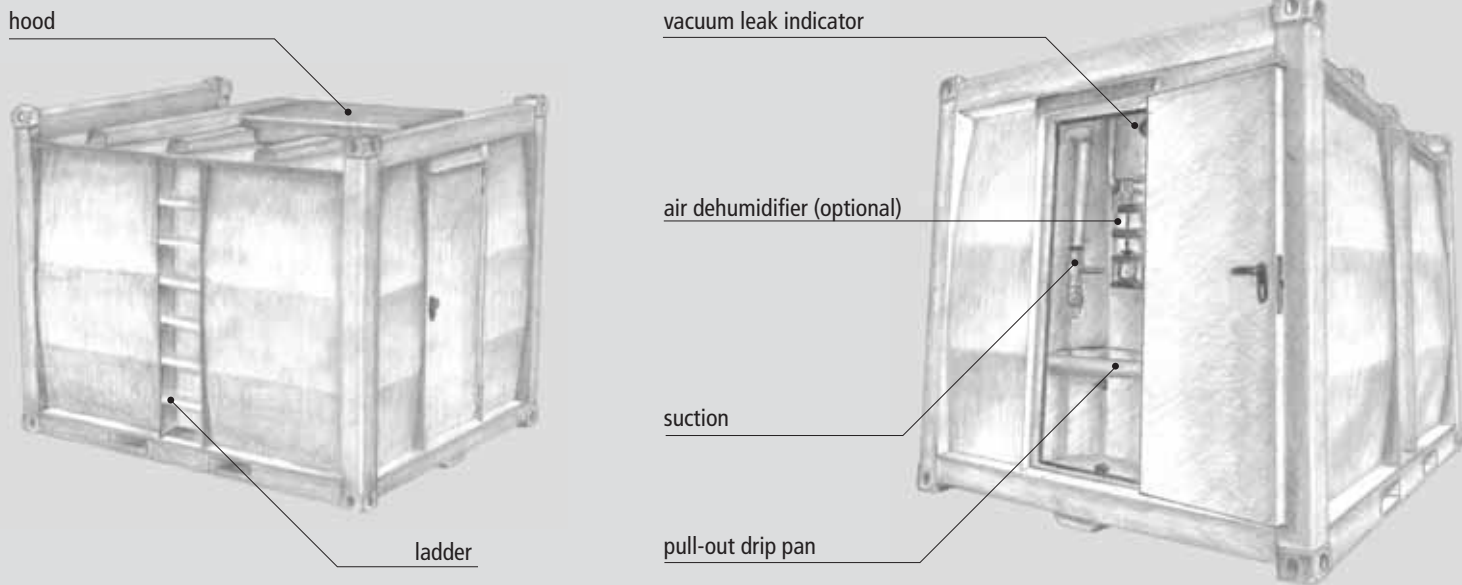
The Minotaur® storage tank container has a cubic, double-wall design. It is integrated into an ISO container frame and combines all system benefits. This especially refers to:

- transport - international approval for transport by ship, rail and road (CSC), when clean and empty,
- storage - stacks of up to 8 units possible (empty),
- safety - high static strength; double-wall design with vacuum leak indicator,
- storage capacity - optimum space/capacity ratio due to the cubic design,
- equipment is protected through its arrangement in one of the tank niches,
- designed for temperatures ranging from -25 °C to +50 °C,
- low investment costs: additional collecting pan is not required, load-bearing ground is sufficient.

The tank body of the Minotaur® storage tank container can be equipped with several functional niches which allow for the accommodation of technological components. The standard design includes one functional niche in the front wall. The storage tank container requires a stationary power supply connection for operation. (optional - diesel generator for power self-supply)

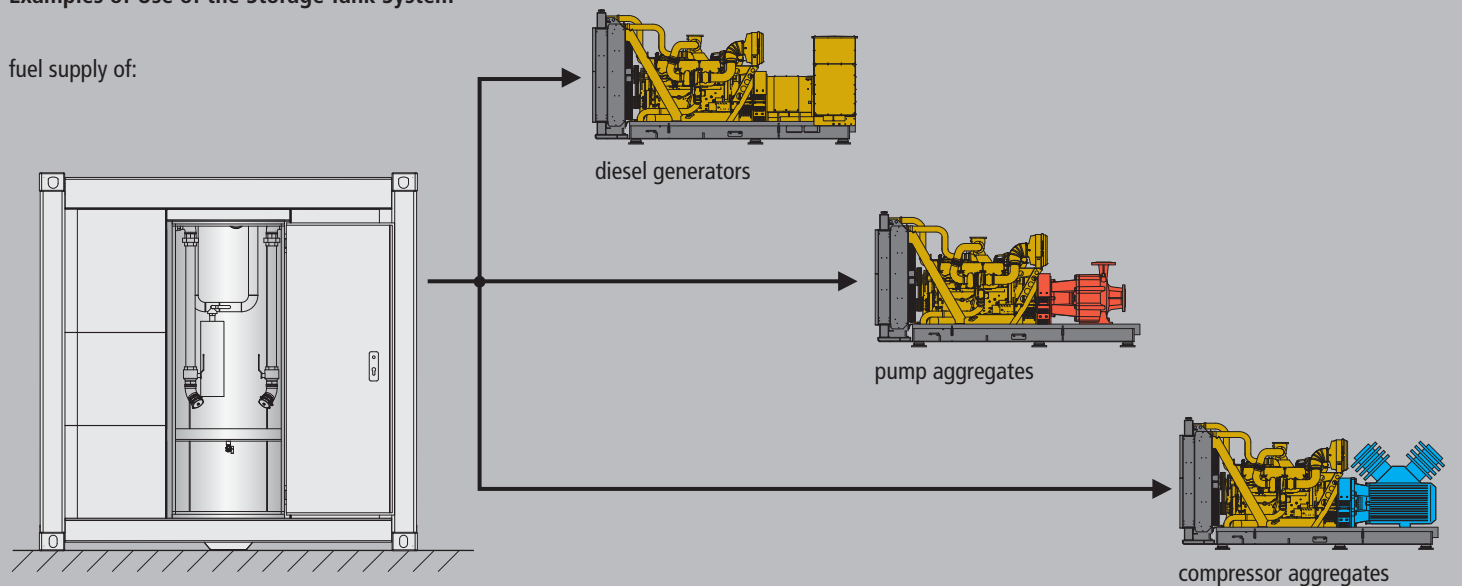
Capacity and Dimensions

tank type	fluid	capacity 100%	capacity 95%	length (total)	width (total)	height (total)	tank height	weight (empty)
		litres	litres	mm	mm	mm		kg (approx.)
KCD-ISO-10	diesel	11,500	11,000	2,991	2,438	2,438	2,000	3,200
KCD-ISO-20	diesel	25,000	24,000	6,058	2,438	2,438	2,000	5,600



Examples of Use of the Storage Tank System

fuel supply of:





storage tank system 10 ft



storage tank system 20 ft



suction and return sockets with special air dehumidifier



vacuum leak indication by leak monitoring system



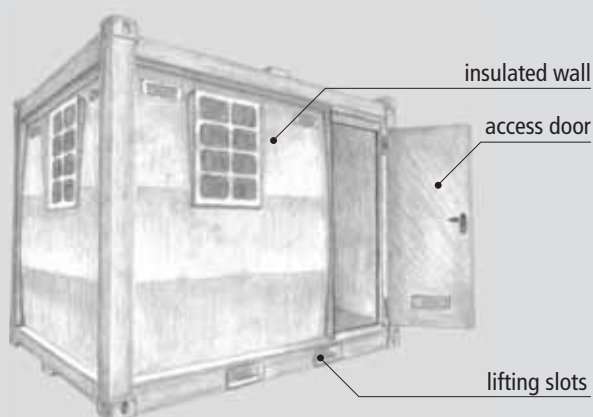
cable feed-through on the bottom

Office System with Closed Walls and Steel Roof, Type RKO

The Minotaur® office systems, type RKO, are all-purpose systems which can be used as an office, health care unit or laboratory. They are also used as soundproof and heat-insulated machine housings which can accommodate diesel generators, workshop equipment or complete electrical switchgears. The Minotaur® office systems are integrated into a stable ISO container frame. The roof and side walls are a fully-welded all-steel construction. A 50-mm-thick heat insulation of the roof and side walls is standard. Optional: 80-mm or 100-mm-thick insulation. The office system is equipped with an access door measuring 800 x 2,000 mm and two welded, fixed windows with steel security grilles. Optional: removable roof for the easy installation of machinery and switch cabinets. Standard: electrical equipment including power supply socket, electric terminal and distributor box, interior lighting and sockets.

Advantages of the Minotaur® office systems:

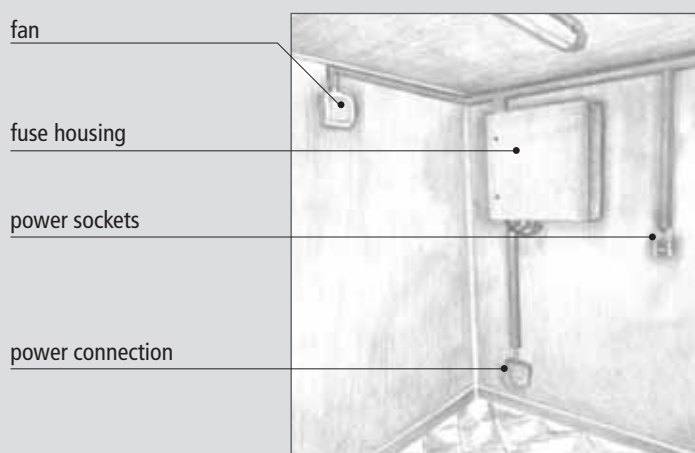
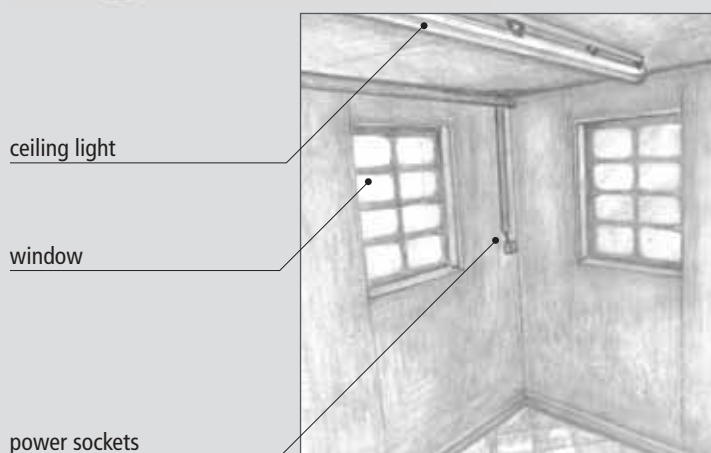
- international approval for transport by ship, rail and road (CSC)
- stacks of up to 8 units possible
- high payload capacity allows for the installation of large equipment
- high safety through welded all-steel body, high static strength
- designed for temperatures ranging from -25 °C to +70 °C



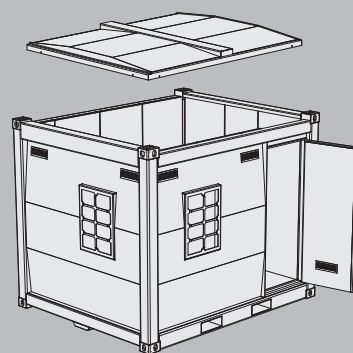
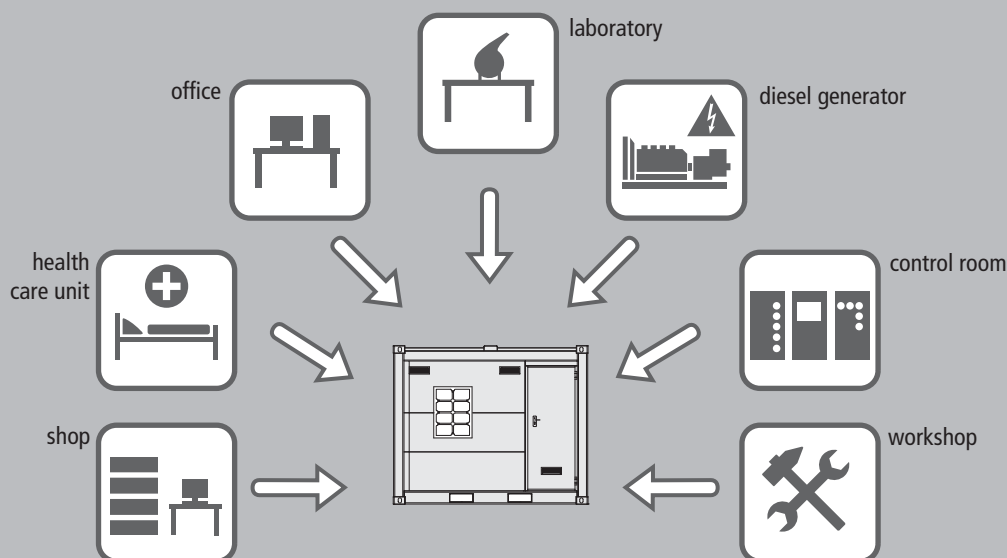
Capacity and Dimensions

tank type	floor space	length (total)	width (total)	height (total)	room height	weight (empty)	payload
	m²	mm	mm	mm	mm	kg (approx.)	kg
RKO-ISO-10	5.8	2,991	2,438	2,438	2,000	2,400	12,000
RKO-ISO-20	12.4	6,058	2,438	2,438	2,000	4,600	20,000

optional: air-conditioning
on-board diesel generator, see picture



Examples of Use of the Office System



optional:
office system with removable steel roof for the easy installation of equipment



office system, 10 ft



interior view: fan



interior view: central control unit



interior view: windows with security grille



32-A socket in outside wall



optional: air-conditioning, diesel generator

Steel Transport Platform with Removable Steel Roof and Tarpaulin Side Walls, Type TPP

The Minotaur® transport platforms, type TPP, made of steel with removable steel roof and tarpaulin side walls, are designed for the accommodation of machines and systems which are consistently moved from one construction site to the next. The stable CSC ISO container frame carries the equipment and protects the system from damages during handling and transport processes. The removable roof allows for the fast and easy loading of the equipment on the platform. To protect the transport platform from equipment leaks, the bottom structure of the transport platform is equipped with a 10-cm-high collecting pan.

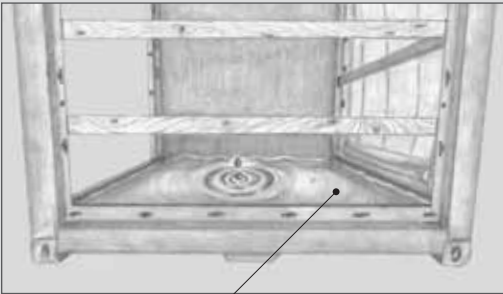
Advantages of the Minotaur® transport platforms:

- international approval for transport by ship, rail and road (CSC)
- stacks of up to 8 units possible
- high safety for the load through fully-welded, all-steel frame structure
- high payload capacity allows for the installation of large equipment
- protection of the equipment from weather and dust through tarpaulin-enclosed transport platform
- fast and easy installation of equipment through removable steel roof

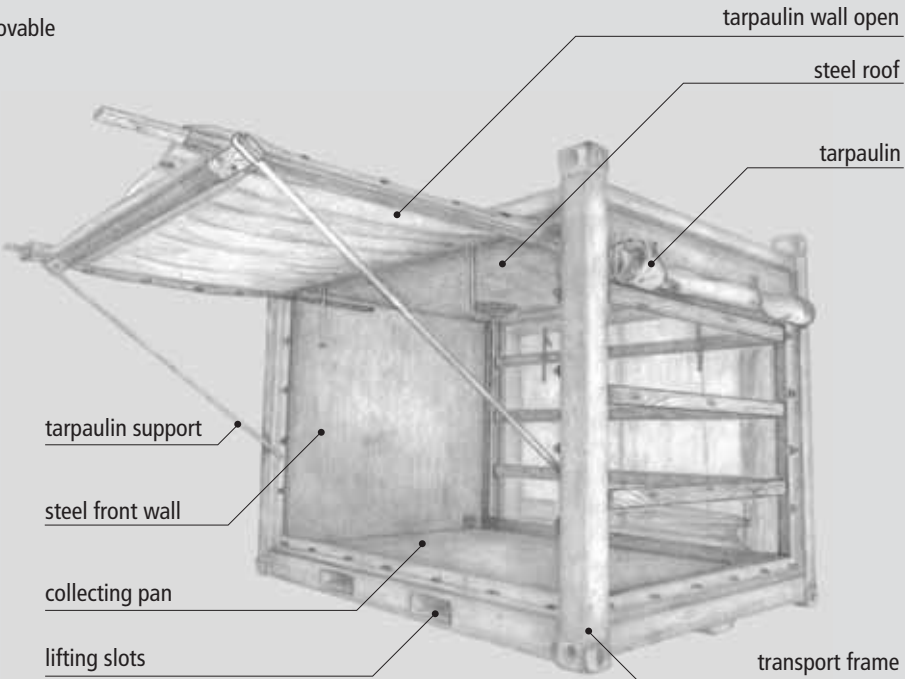
Capacity and Dimensions

tank type	floor space	length (total)	width (total)	height (total)	loading space height	weight (empty)	payload
	m²	mm	mm	mm	mm	kg (approx.)	kg
TPP-ISO-10	5.8	2,991	2,438	2,438	2,000	2,400	12,000
TPP-ISO-20	12.4	6,058	2,438	2,438	2,000	4,600	20,000

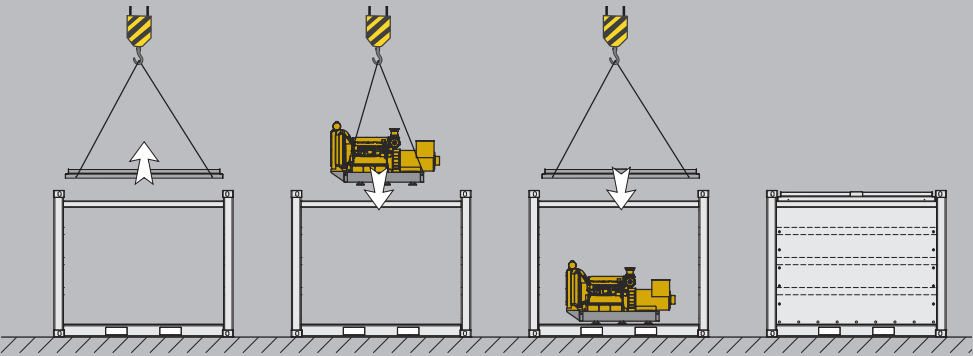
Fully-welded steel bottom with 100-mm-high collecting pan for collecting leakage from pump and filter units.



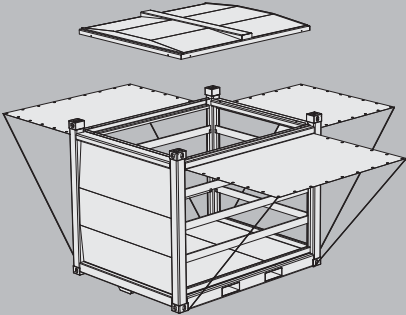
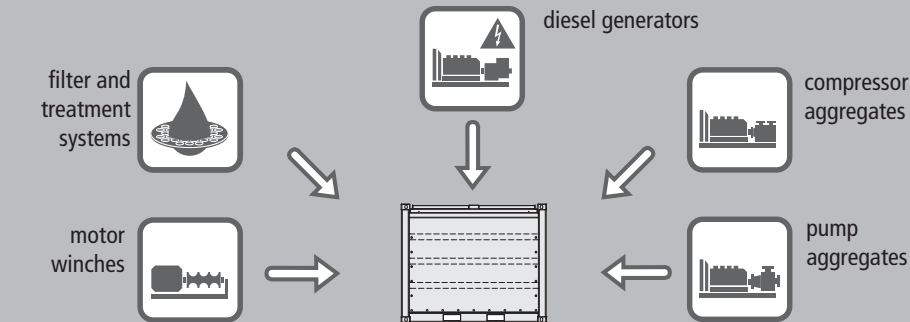
collecting pan



easy installation of machines and aggregates through removable roof



Examples of Use of the Transport Frame with Tarpaulin Enclosure for the Installation of:



transport platforms with removable steel roof and tarpaulin side walls



transport platform with tarpaulins and removable steel roof



transport platform with open tarpaulin



interior view of the transport platform with protective side wall tarpaulins and, on the ceiling, visible roof connection

Steel Transport Platform with Open Roof and Sides, Type TPO

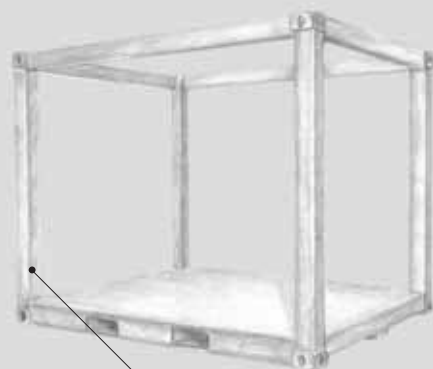
The Minotaur® transport platform, type TPO, made of steel with open roof and sides, serves primarily the transport of Centaur® IBCs. Safely fastened in a stable CSC steel frame, the Centaur® IBCs or other equipment and materials can be safely transported to their place of use. The frame structure protects the load from mechanical damages induced by external causes.

Advantages of Minotaur® transport platforms:

- international approval for transport by ship, rail and road (CSC)
- stacks of up to 8 units possible
- high safety for the load through fully-welded, all-steel frame structure
- high payload capacity of the transport platform allows for the installation of large equipment
- fast and easy installation of Centaur® IBCs through standard anchor points
- setup of battery tank systems made of Centaur® IBCs is possible

Capacity and Dimensions

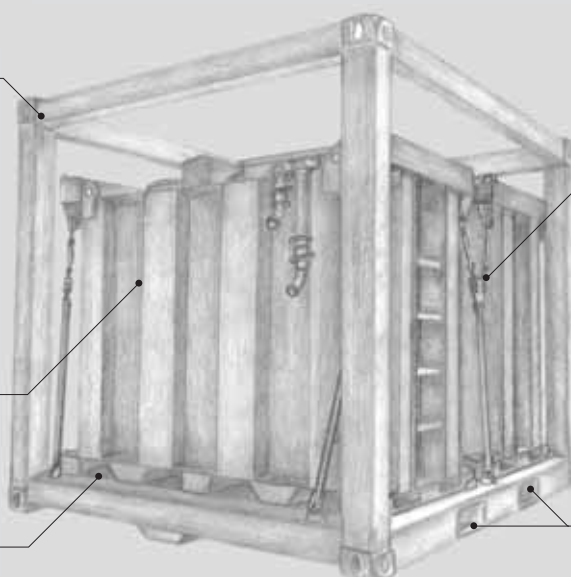
tank type	floor space	length (total)	width (total)	height (total)	loading space height	weight (empty)	payload
	m ²	mm	mm	mm	mm	kg (approx.)	kg
TPO-ISO-10	5.8	2,991	2,438	2,438	2,000	2,400	12,000
TPO-ISO-20	12.4	6,058	2,438	2,438	2,000	4,600	20,000



transport frame

IBC Centaur®

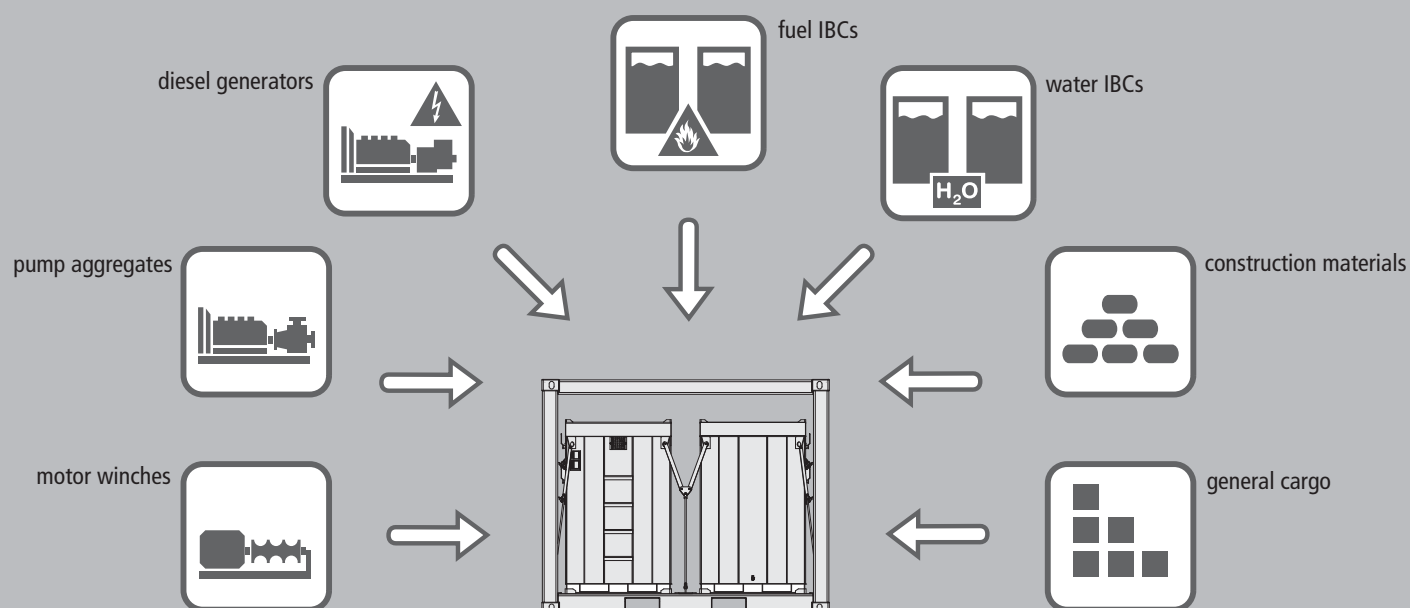
steel bottom



Centaur® guying with fastening brackets

lifting slot

Examples of Use of the Open Transport Frame for the Transport of:





transport platform, 10 ft, equipped with 2 Centaur® 3000



bottom fastening of the Centaur® guying



Centaur® guying



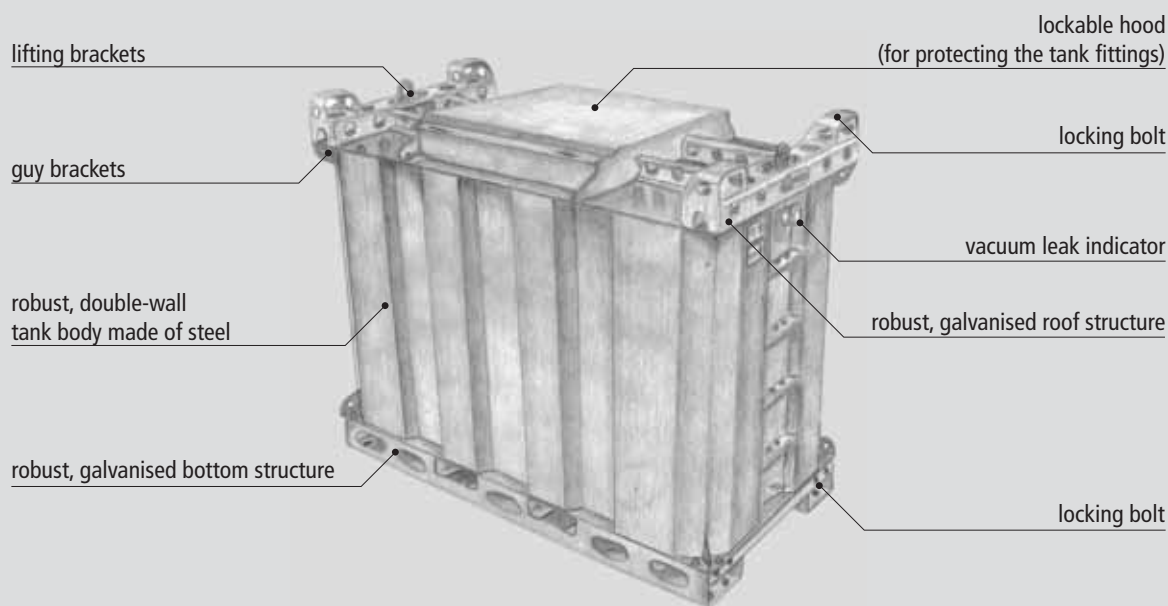
transport stop angles for Centaur® IBCs

Centaur® Transport and Storage Tank

The transport of fuels to the place of use is a problem in many areas of the world. Unsurfaced roads, rough terrain, paths through unexploited landscapes, mining in extreme areas. Such regions are hardly, if at all, accessible with normal tank vehicles. With Centaur® tanks there is no need for large tank depots, expensive loading equipment and special tank vehicles as well as separate storage tanks at the customer site. Centaur® transport is more cost-effective, faster and significantly safer than the traditional fuel logistics system. The Centaur® transport and storage tank container is used for the transport and storage of fluids, such as diesel, petrol, kerosene, heating oil or lubricating oils. The extremely robust double-wall design allows for the integration into any transport and supply system. Centaur® containers are safe, temperature-tolerant and shock-resistant. The high level of corrosion protection guarantees a long life and operating time. Centaur® transport and storage tank containers can be transported regardless of their filling level: empty (unclean), half-full or completely full.

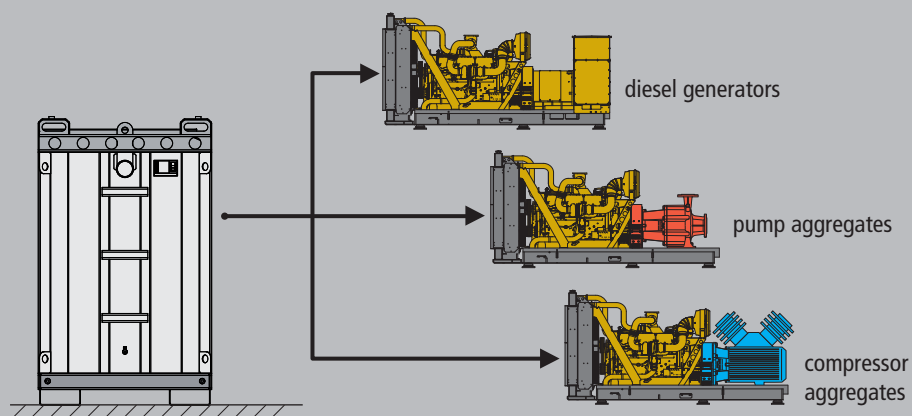
Capacity and Dimensions

tank type	capacity 100%	capacity 95%	length (total)	width (total)	tank height	height (total)	weight (empty)
	litres	litres	mm	mm	mm	mm	kg (approx.)
TC-QI-2000F	2,100	2,000	2,200	1,100	1,000	1,420	950
TC-QI-3000F	2,950	2,800	2,200	1,100	1,400	1,820	1,150

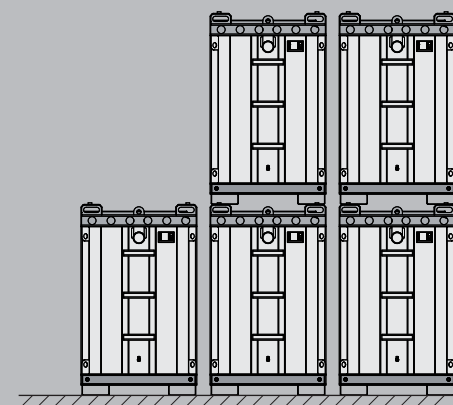


Examples of Use of the Centaur® Transport and Storage Tank

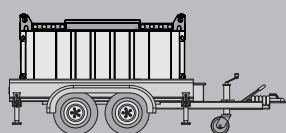
fuel supply of:



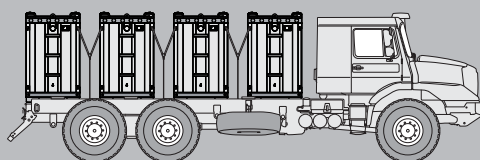
Centaur® stack for intermediate storage



transport on trailer

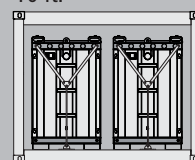


transport on truck

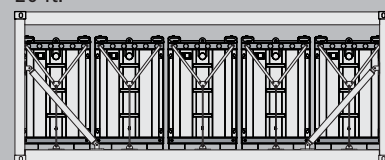


transport on transport platforms

10 ft.



20 ft.





Centaur® 3000



Centaur® 3000 being IBC tested



The Centaur® design provides all requirements for fast transports and can be converted into a mobile fuel station for use at construction sites, airports, in agriculture or mining. The Centaur® containers are all-purpose containers, regardless of whether used as single tanks or large industrial tank battery depots. Robust, highly effective and safe.



International transports in ISO standard freight containers, either stacked as a battery or used separately with other transport goods, redefine transport of hazardous materials.

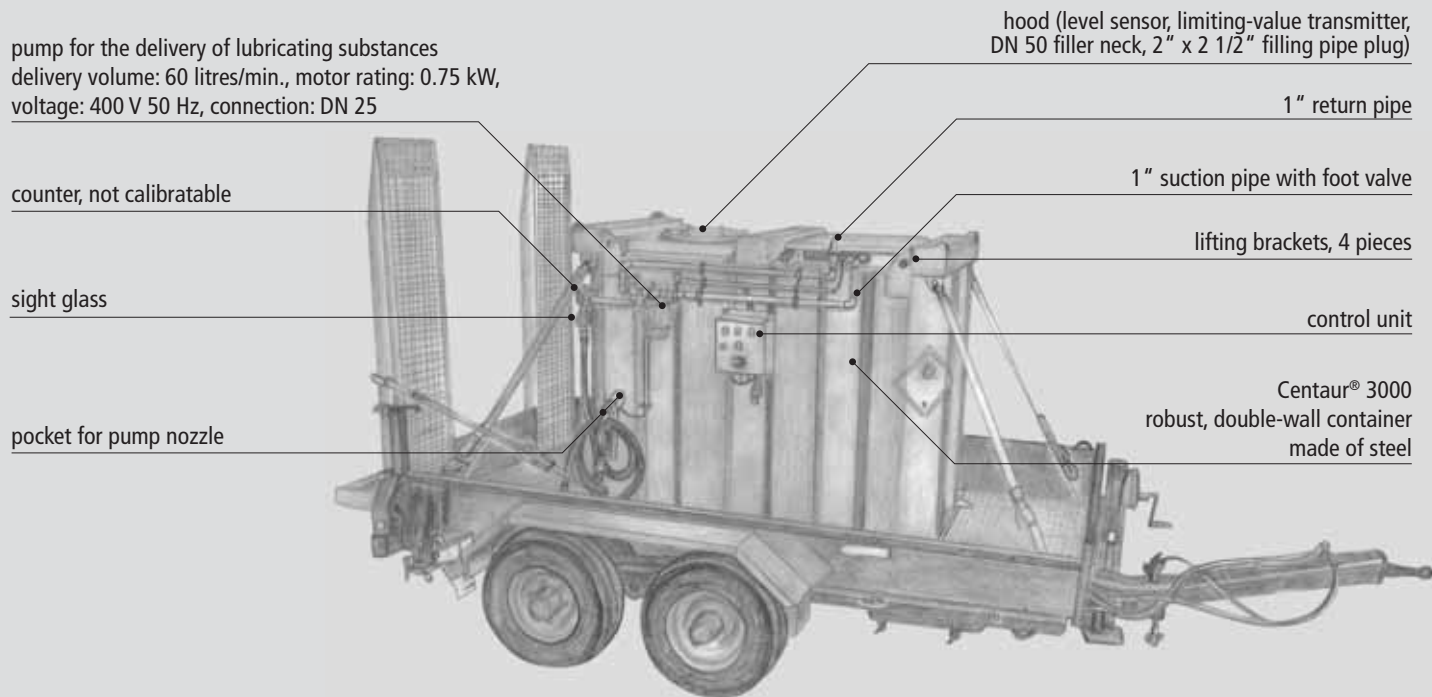


A Centaur® tank battery converts a regular truck into a tank vehicle. The option allows for modern logistics to distribute small amounts at various locations. The exchange of individual Centaur® containers is fast and time-saving.



The standard dimensions and the option to stack them allow for the setup of tank depots. The double-wall design of the Centaur® containers and their robust bottom and roof structure ensure highest safety. Fuel can be distributed without any highly technical and expensive efforts. Simple fork lifts or crane are used to handle the Centaur® containers fast and accurately. There is no need to purchase any further expensive special equipment.

Trailer with Centaur® Transport and Storage Tank Equipped as a Compact Tank Vehicle



Technical data of the trailer T105S

weights	gross weight incl. supporting load	kg	10500
	of which supporting load	kg	500
	unladen weight approx.	kg	2380
	live weight if standard equipment approx.	kg	8120
dimensions	platform length x width, approx.	mm	4000x2000
	wall height:	mm	350

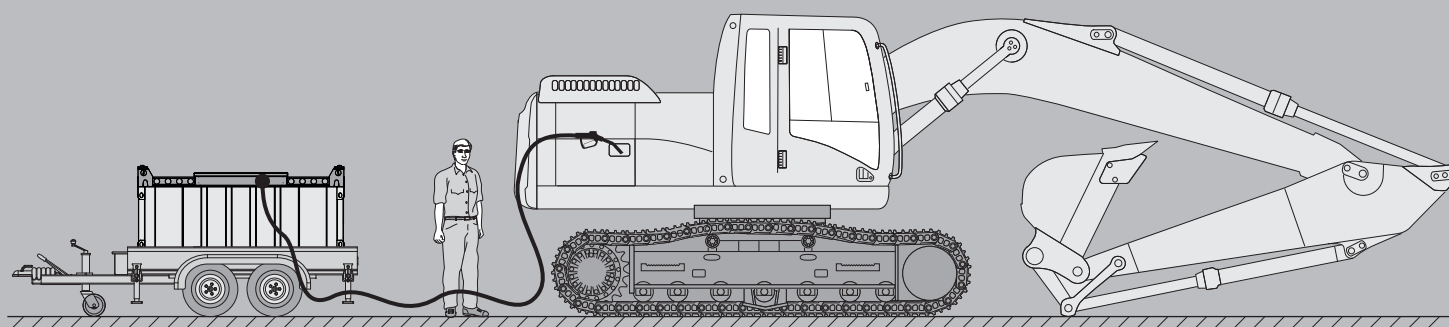
dimensions	loading height unladen, approx.	mm	660
	drawtube length, approx.	mm	1900
	coupling height when loaded, approx.	mm	700-1000
	total length x total width x total height	mm	6450x2550x2950
tyres	dimension (manufacturer of our choice)	4 x	4 x 235/75R17.5

Technical equipment of the trailer

- axles** drum brake with s-cams, low-maintenance
- suspension** low-maintenance parabolic spring with optimum load compensation
- brake** air brake meeting EC directives, automatic antiskid system, automatic load-dependent brake, spring-loaded parking brake
- platform** low-lying steel pan between the wheels, platform floor made of steel bulb plates, profiled front and side walls, rear wall as resin coated plywood board between ramps, galvanised mudguards, 4 lashing points in the corners
- draw gear** central tube with screw-type drawbar eye 40 mm according to DIN 74054-40D, steplessly adjustable Warning! Respect the V and Dc value as well as the supporting load incl. tractor/trailer synchronisation (brake)!

- electrics** 24-Volt splash-proof and vibration-damped 7-function-light with integrated tail and rear fog lamp, end-outline marker lamps, two 7-pin or one 15-pin connection cable at customer's option
- outriggers** gearbox support with low and fast gear, rear support feet on the ramp
- colour** steel parts steel-blasted and pre-treated, primed, single-coloured with high-quality high-solid lacquer (low in solvents), RAL colour at customer's option, wheels silver
- equipment** wheel chocks, space for one-line number plate, test book for gross vehicle weight > 10 tons

Example of Use of the Trailer with Centaur® Transport and Storage Tank

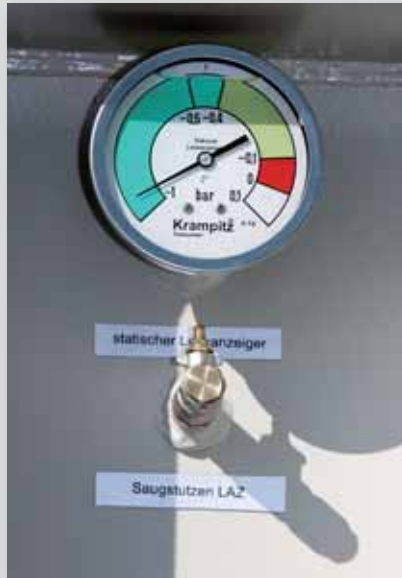




trailer with Centaur® 3000 transport and storage tank equipped as a compact tank vehicle



pump nozzle with pump nozzle pocket
hose length 4 m



static leak indicator and suction nozzle



central control unit



counter with sight glass



pump



optional: diesel generator

Krampitz Tanksystem GmbH • About Us



Krampitz Tanksystem GmbH is a highly specialised manufacturer of storage and transport tanks made of steel. Our tanks are mainly used for the storage of fuels and lubricants.



20 years of experience in tank production ensure a high level of quality, safety and design of our products. 15,000 manufactured systems demonstrate the confidence of many customers all over the world.



Our products are manufactured with millimetre precision meeting the regular requirements of both plant and mechanical engineering. Our CNC supported production guarantees a consistently high quality. Extensive quality tests are conducted throughout the entire production process.



Together with our CAD design engineers, we develop our standard tanks as well as your custom product, fast and professionally.

Our comprehensive list of technical approvals for our tanks, containers and equipment ensure that our products are always state-of-the-art in technology.

Krampitz Tanksystem GmbH • About Us



Even after 15 years of constant use, our heavy mining containers are considered „unbreakable“.

Our military versions for fuel stations and transport tanks have been deployed worldwide for 10 years and enjoy the highest reputation among our customers as well as inspection and approval organisations.



Our tanks, containers and systems are in use on all continents; thus we are aware of the climatic particularities in the various regions of the world as well as of the mechanical stress in certain parts of Africa, Asia and Latin America.

Our patented cubic design is our special trademark. It ensures optimum use of space, cost-effective transports and the best-possible integration into existing systems and infrastructures.



Our tanks and containers are designed for a long life. Therefore, the structure and design of our products are characterised by numerous constructional details in order to prevent damages due to corrosion and excessive wear.



Further Product Information



Professional Supply of Combustion Engines



Minotaur® Fuel Station Systems



One-Wall Day Tank Modules



Centaur® Transport and Storage Tank Container



System Pumps

Krampitz Tanksystem GmbH

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