

# Underground Tanks

Double skin underground fuel storage

CZ have been manufacturing underground tanks since 1961 and double skinned tanks since 1989. Their Deuma automated equipment ensures tanks are superb in terms of concentricity and straightness and the submerged arc welding in and out ensures quality of welding techniques and elimination of weld stresses. They can supply not only the tanks but many ancillary items such as holding down straps, access chambers, ground covers, suction pipes, fill pipes and overflow prevention valves. Via their sister company CZ can supply UPP piping and fittings making a one-stop shop a reality.

All tanks are fully tested and certified to BS EN 12285 specification and, on completion of manufacture, are externally blast cleaned to SA 2.5 followed by a coating of solvent-free polyurethane. This coating receives a 100% pin-hole test on completion.

| Specification Summary |  |
|-----------------------|--|
| Capacity Range        | 5,000 to 100,000 Litres                                |
| Tank Diameters        | 1250mm, 1500mm, 1900mm, 2000mm, 2500mm, 2743mm, 3000mm |
| Tank Length           | If it can be transported CZ can build it               |
| Specification         | BS EN 12285 part 1                                     |
| External Coatings     | Polyurethane, Epoxy, Bitumen                           |
| Internal Linings      | Epoxy  |
| Testing               | Pneumatic or Hydraulic                                 |

Conventional



PetroFast



If you believe that the modular PetroFast system may suit your installation specification please contact Cookson and Zinn on the number given below and full information will be provided



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- The UK's number one tank manufacturer with over 45 years experience
- 5,000 to 100,000 Litre capacity
- Deuma automated assembly for maximum concentricity and straightness
- Single or multi-compartment
- Both skins tested and certified on completion
- Externally blast cleaned and coated
- 100% pin-hole test on finished coating
- Ancillary items supplied

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Technical innovation and cost effective design come together for maximum customer benefit



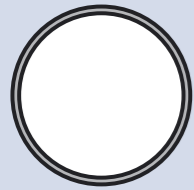
Sophisticated manufacturing techniques guarantee highest product integrity and extended maintenance free life



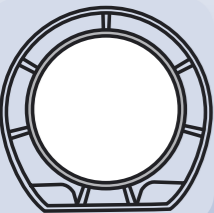
A convoy delivering finished underground storage tank's to port for shipping to mainland Europe and beyond



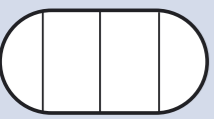
Precision made tanks, delivery on time every time ensures smooth installation procedures



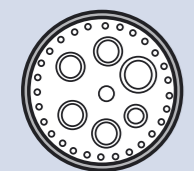
Double skinned



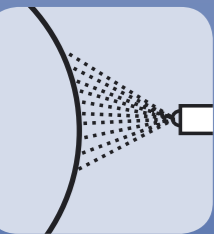
Deuma assembled



Multi compartment



Customised tank lid configurations



Spray coating

## Construction

Manufactured on Cookson and Zinn's Deuma automated assembly and welding facility.

By using close tolerance steel plate CZ guarantee maximum concentricity and straightness.

Submerged-arc welding inside and out, ensures high quality and maximum weld integrity, resulting in a higher finished product strength.

This quality is consistent from one tank to the next.

Tanks are designed and manufactured to BS EN 12285 part 1, the accepted standard for the UK, Europe and many countries worldwide.

CZ holds full approval from KIWA, TUV, UDT and AIB certifying authorities.

## Coating

For a 30 year minimum life expectancy, the materials of construction and manufacturing methods need to be supplemented by high quality surface finish and coating.

All underground tanks are blast cleaned to Sa2.5 followed by coating with Endoprene solvent-free polyurethane to a minimum thickness of 800 microns.

Epoxy or bitumen coatings can also be provided to suit national requirements or specific ground conditions and materials of backfill.

Permacor high build epoxy system, approved by KIWA is another system CZ can apply.

All coatings, regardless of material type, are 100% pin hole checked and thickness checked prior to despatch.

## Features

- Multi-compartment**  
 To offer flexibility of use, tanks can be built to provide multi-fuel usage.
- Ancillary Items**  
 It is possible for a comprehensive range of ancillary items to accompany your tanks.  
*Internally* Cookson and Zinn can provide suction pipes and fill pipes, complete with overfill prevention valves.  
*Externally*, Cookson and Zinn can supply manway access chambers (polyethylene or GRP) complete with corbelled top, ground covers, dipsticks and holding down straps, which can all be delivered with the tanks. In the case of the holding down straps these can be delivered prior to the tanks if required.
- Leak detection**  
 Supplied with the double skin tank is the LAG14ER leak detection system which provides 24 hour monitoring of the inner containment tank and the secondary skin. The interstitial space is filled with a mono-propylene glycol solution, which contains both anti-corrosive and low temperature properties, and is also an environmentally friendly liquid.

CZ can also provide an alternative means of leak detection in the form of a pressure system. This system, known as the DL-4000, holds the interstitial space under a small pressure during operation. Both the pressure and the liquid systems are simple in operation and totally effective.

## Transportation

Using experienced carriers CZ are able to offer reliable and efficient transport solutions, ensuring your tanks reach you at the right time to suit your installation programme.

## Export

PetroTechnik exports UPP pipework systems to over 120 countries. On the back of this incredible worldwide infrastructure CZ's underground tanks are now exported to over 20 countries including Germany, Poland, Czech Republic, Ghana and Mauritius. The company use logistics experts to ensure that tanks arrive on time, every time. Stock facilities are available in some countries allowing short lead time call-off. Distance is not a problem.

## Installation

Installers can plan well ahead of time knowing that the Cookson And Zinn tanks will arrive on time and to the absolute standard and specification required. To those who need recommendations on installation contractors this can be provided on request.