



Pressure Vessels



ISO 9001:2000

MEMBER



ASME U U2 S STAMPS



Forming

- Hot Rolling : 150mm
- Cold Rolling : 100mm
- Dished End
 - Hot : 55mm
 - Cold : 35mm

Deaerator 2800 I/D x 17000 ht x 30 Thk



SPECIAL WELDING TECHNIQUE

- Automatic twin wire submerged arc welding
- Automatic plasma + tungsten inert gas arc welding
- Semi-automatic gas metal arc welding
- Gas tungsten arc welding

MATERIAL

- Carbon steel / Cladded steel
- Stainless steel / Duplex steel

CODES AND STANDARDS

- ASME Section I
- ASME Section VIII Division I
- ASME Section VIII Division II
- PD 5500 (BS 5500)

TESTING FACILITIES

- Radiography test (X-Ray, Gamma Ray, Cobalt 60)
- Ultrasonic test (thickness, lamination, flaws, leakage)
- Magnetic particles test
- Dye- penetration test
- Impact test / tensile test / bend test
- Hardness test (rockwell, brinell, vickers)
- Ferrite measurement
- Chemical content analysis

HEAT TREATMENT FACILITIES

- Post weld heat treatment
- Normalizing
- Solution annealing



Surge Vessel 3100 I/D x 15000 ht x 20 Thk



Stainless Steel 316L Methanol Injection Storage Vessel 4500 I/D x 18000 lht x 22 Thk



Hot Conditioned Flash Drum 2500 I/D x 11000 ht x 16 Thk



CO₂ Insulated Road Tanker



High Pressure Syngas Cyclic Vessel 2600 I/D x 12000 ht x 50 Thk



CO₂ Insulated Storage Tank 3800 I/D x 21000 lth x 30 Thk



Compressor Suction Scrubber 2700 I/D x 7000 ht x 102 = 3 Thk S/S 316L Cladded

OUR OTHER PRODUCTS

- Heat Exchangers
- Fired Boiler Pressure Parts
- IMO Type 1 Tank Containers
- LPG/CO₂ Road Tanker



Detergent Feedstock Splitter Column 1600 I/D x 35000 ht x 22 Thk



High Pressure Steam Boiler Drum 2500 I/D x 10000 lth x 60 Thk

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CHIP NGAI ENGINEERING WORKS SDN. BHD.

10217-A

CNASIA Tankers



Cert. No.: KLR 0403866



Liquefied Carbon Dioxide Tankers

Designed and manufactured to ASME and DOSH requirements. Operating pressure - 18 bars.

Articulated tanker with tandem axles, air suspension and operating at 36000 kg GVW. Stainless steel 304 construction with the 18KL cylindrical tank externally clad with PU cold insulation and 2mm thick cover.

Tanker is complete with electric driven pump for liquid fill and discharge and allowing for operations on either side of the tanker. A cabinet complete with dust proof aluminium roller shutter doors conceals and keep all the equipment from picking up unwanted matter from the roads.



LPG / Chemical Tankers

Designed to ASME VIII and ADR code requirements, third party (eg Lloyd's and JKKP certified).

Design pressure: 4 to 17.5 bars, carbon or stainless steel construction for chemical compatibility. Tanker internal may be internal epoxy coated, rubber-lined or clad to suit media used.

Capacities range from 5 to 53.5 Kilolitres depending on client / JPJ requirements and chassis availabilities.

Tank can be rigidly mounted onto chassis or hauled by a suitable prime mover.

Complete supply and installation of tank fittings and components for full operation of the tanker, including filling and discharge through a pump and meter. Heavy duty under-run bumper for rear collision protection. Heat shielding and anti-static protection to the tanker.



Vacuum / Desludging Tankers

Design pressure: -1 bar to +1 bar

Cylindrical tank of 6mm thick mild steel construction. Capacities vary from 2.5m³ to 11m³ dependent on client requirements and chassis availabilities.

Separate or integral water tank for washing and cleaning purposes. Full bore rear door to allow for complete cleaning of the sludge tank internal.

Option for hydraulic tipping of tank for better discharge and cleaning. High air flow vacuum pump driven by truck PTO for vacuum suction and pressure discharge of sludge.

DOSH inspection and PMT certification.

Water / Sewer Cleaning Vehicles

• Water Tankers

Non pressure tank , normally of mild steel construction and is used for drinking water or for watering of plants by the municipalities.

Tank is either in elliptical shape or maximum section. Capacity is normally 5m³ operating at 11000kg GVW but can be larger dependent on client requirements.

Tank internal is blasted to SA2.5 and epoxy coated when used for carriage of drinking water. A direct coupled engine driven pump is used for tank filling and discharge through a 2" PVC corrugated hose and camlock couplings.

Optional features like overfill protection and audio/visual alarms can be arranged.

• Sewer Jetter

Designed for removal of blockages in sewer lines and drain pipes as well as removal of wet and dry debris from septic tanks and pits.

Carbon or stainless steel tank construction with capacities ranging from 3.5 to 10m³, single or double compartment for water and debris.

Rigid tank construction with mounting onto suitable 2 or 3 axle chassis.

Sewer jetter is complete with high pressure pump driven by split shaft PTO, high pressure jetting hose and nozzles on hydraulic driven hose reel that can be manoeuvred 180 degrees for ease of working.

• Combination Unit

Sewer combination unit is similar to the sewer jetter except that it has additional blower and big diameter suction hose that can rotate 330 degrees for ease of suction of wet and dry debris from septic tanks and pits.





Drawbar Tankers / Trailers

Designed for carriage of jet A1 fuel in airports or any specialty products in highways, eg an aluminium box body used for training purposes .

Hauled by a suitable prime mover or 4 wheel drive vehicle.

Elliptical carbon steel tank construction and mounted on a 'A frame' for minimise height.

Epoxy lined to tank internal for resistance to the jet fuel. Engine driven aluminium pump for product filling, refuelling and defueling through a coalescer filter.

Elaflex aviation hose and overwing nozzle with jet A1 selectivity for refuelling of small aircrafts. NATO toweye c/w overriding brakes with linkage to rear axle. Turntable at front axle for manouerverability.

Safety features and accessories including bonding reel, earthing strap and dry powder fire extinguishers.

Refined Sugar Tankers

Design pressure: 20 psi. Stainless steel 304 2B finish cylindrical tank construction with tank rear in eccentric conical shape to facilitate product discharge.

Tipping tank design with 4 stage telescopic hoist at front and heavy duty hinge at the rear for tank tipping to 45 degrees maximum.

Solimar fluidizer vibratory pads at the tank rear to facilitate product discharge. High flow roots blower for adequate air to push product up to 40' height silos. Large diameter manholes complete with quick opening hold down bolts to facilitate product filling.





CHIP NGAI ENGINEERING WORKS SDN BHD

10217-A

ASIA TANK CONTAINERS (MALAYSIA) SDN BHD

404650-W

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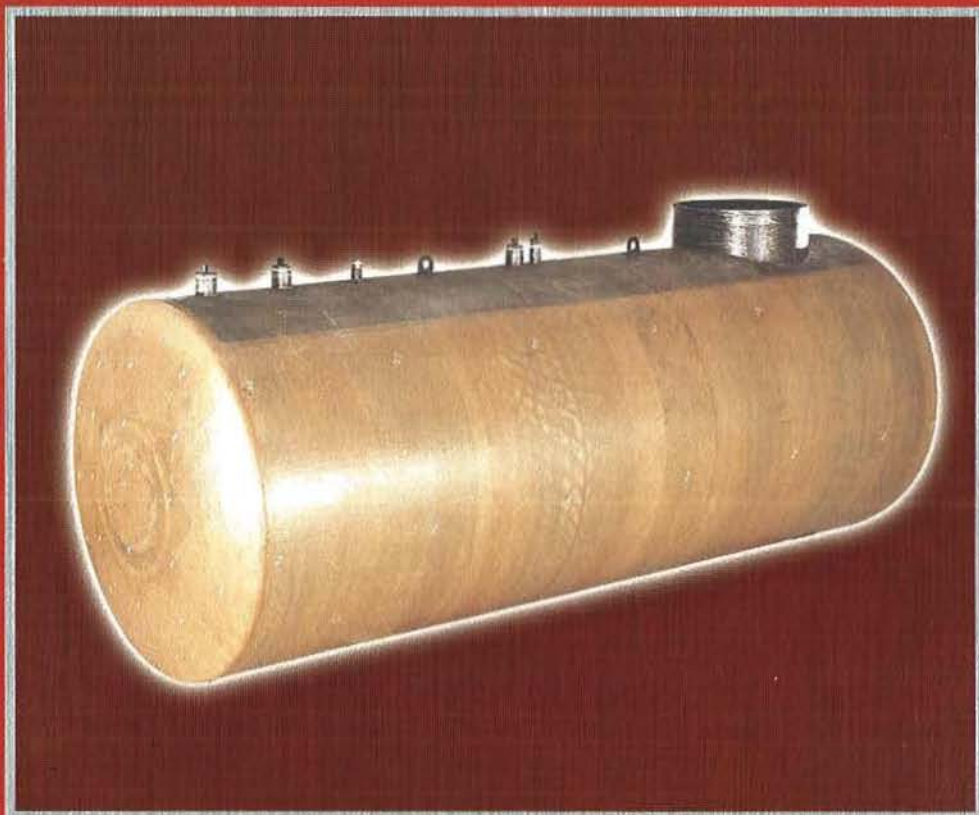
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STEEL / FIBRE UNDERGROUND STORAGE TANKS



*An environmentally safe double-wall,
corrosion-resistant secondary containment
with the strength of steel.*

In response to the need for an environmentally safe underground storage tank, CN has developed a Steel/Fibre Tank.

A product of years of development and testing, the Steel/Fibre Tank has proven to be a safe and effective means of secondary containment and corrosion protection for steel tanks.

The tank's jacket is made with minimum of 2mm FRP Sheet, a dielectric, non-corrosive and chemically resistant material which has a proven history of stability in underground application. Its 330° design provides an airtight secondary containment jacket which is applied to a UL-58 steel underground storage tank, considered the strongest and most chemically-compatible tank in the industry. This application creates a unique double wall-tank. Using a steel inner wall for structural strength and a semi-rigid outer wall, our tank offers excellent impact and puncture resistance. This jacketed storage tank is compatible not only with the petroleum fuels, methanols, ethanols and other chemicals it may contain, but also protects the environment by completely isolating the tank from corrosion causing effects of the surrounding environment.

The tank's outer wall is separated from the steel tank by a special plastic to create an annular space. Striker plates are strategically placed under each opening for internal corrosion protection. A monitoring column and access fitting is provided on one tank end for installation of leak detection sensors. Spray and build up FRP to provide an air testable container around the entire steel tank.



This method by spraying and built-up contains chop fibre, glass and hardener, of which is stronger when is set.



Our tanks range in capacity from 550 to 22,000 gallons and in diameter from 4 ft. to 10 ft., coming complete with warranty.



Steel / Fibre Double Wall Double Compartment



Steel / Fibre Double Wall Single Compartment



Guide Specifications

- Steel Fibre Storage Tank shall be built in accordance to UL and BS standards
- Shall be compatible with all products mentioned
- Shall be constructed to allow interstitial fluid migration
- Shall be corrosion resistant, dielectric, non-degradable and resistant to attack from microbial corrosion
- Shall have access fitting for insertion of a leak detection monitor

ASME U U2 S STAMPS



ISO 9001:2000

Nationwide Authorized Agents

Should your business require tanks in more than one region of the country, we can serve your needs through any one of our authorized agents. Every agent is an established and recognized steel tank manufacturer and has been well trained on the product, to the same specifications and quality anywhere in the country nationwide.

Authorized Agent's chop



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Metal Forming Section



Cert. No.: KLR 0403966