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**RELIABLE  
HEAVY HAULAGE SPECIALISTS**

**YEW CHOON**



# ENGINEERING

Preparing the temporary Jetty in Sri Lanka to receive shipment for Puttalam Power Station.

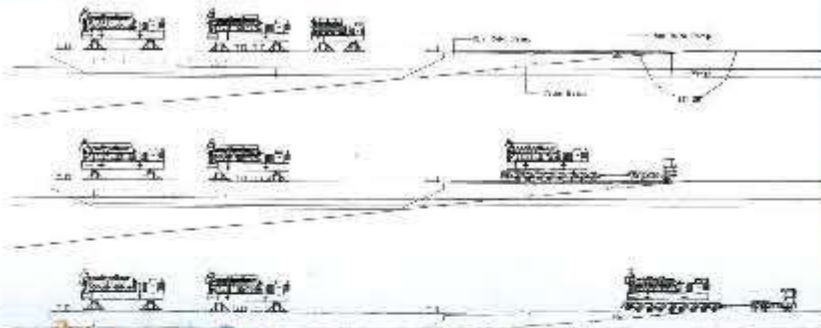


Over the years, the cargoes have become bigger and heavier, hence the need to avoid accidents is vital. To ensure that safety comes first, Yew Choon fine-tuned this aspect and is now operational with a team of engineers.

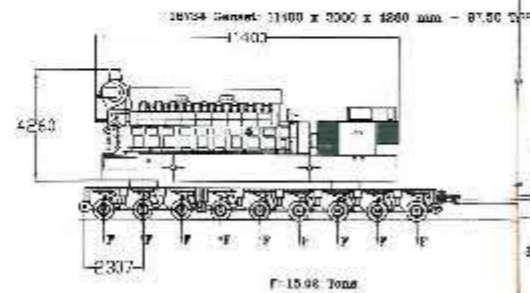
The engineering department at Yew Choon creates solutions and methods to transport and lift all types of oversized and overweight loads. Our clients can count on the engineering team throughout the whole process of design and execution. Some of the outputs of our engineering department are:

- Safety procedures
- Rigging studies
- Method statements
- Jetty proposals
- Transport plans
- Strength calculations
- Draft calculations

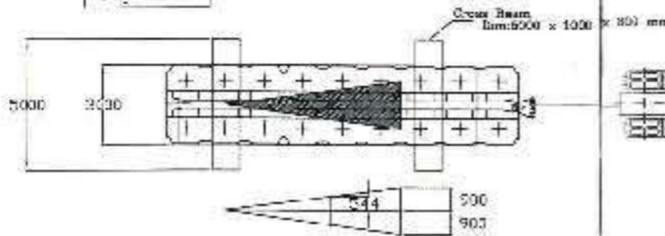
The cargo is lashed according to surveyor's satisfaction.



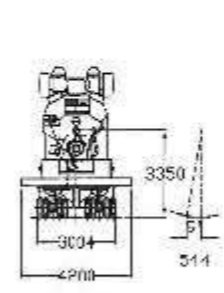
Side View



Top View



Rear View



Calculation

Cargo weight:	87.50
Trailer weight:	29.70 Tons
Cross beam:	9.00
<b>Total:</b>	<b>126.20 Tons</b>
Per axleline:	16.02 Tons
Per axleload:	7.61 Tons
Per tyreload:	1.88 Tons
Ground pressure:	0.34 Tons Per Sqm
Tipping angle:	9.22 degrees



The skidding channel is positioned under the Engine. The hydraulic trailer jacks the Engine down onto the skidding channel.



Positioning of the skidding channel.



The barge arrives at the temporary jetty.



The temporary road is ready for use to transport the heavy loads.



Cargo is discharged from the barge by re-rig system.



Yew Choon built a temporary road because the weight of the cargo exceeded the maximum allowable load of the bridge.

Yew Choon constructed this temporary road in order to transport the 280 tons Engine for Puttalam Power Station in Sri Lanka.



# WAREHOUSING & STORAGE

To fulfill the logistics needs of our clients, we provide ample storage space for them to store their cargo. The whole storage space is divided into two parts:

- 26,000 sq m open storage area
- 1,800 sq m warehouse

The covered warehouse is used for the storage of delicate cargo which requires extra care and cargo which tends to be more sensitive to weather conditions.

The total storage area is under 24hr security by camera surveillance and certified security guards.





# JACKING & SKIDDING

For shifting cargoes in places with low ceilings or other places where trailers and cranes cannot be used, we use skidding systems.

We use two types of skidding channels, depending on the weight of the cargo. The light duty skidding system will be used for loads up to 250 metric tons. The heavy duty skidding system has a capacity of 1,000 metric tons. With the heavy duty skidding system, the cargo will be pushed by hydraulic pushing jacks.

When a skidding system cannot be used, Yew Choon can still move the cargo in other ways. A skidding method that is often used for load-outs is greasing and towing by winches.



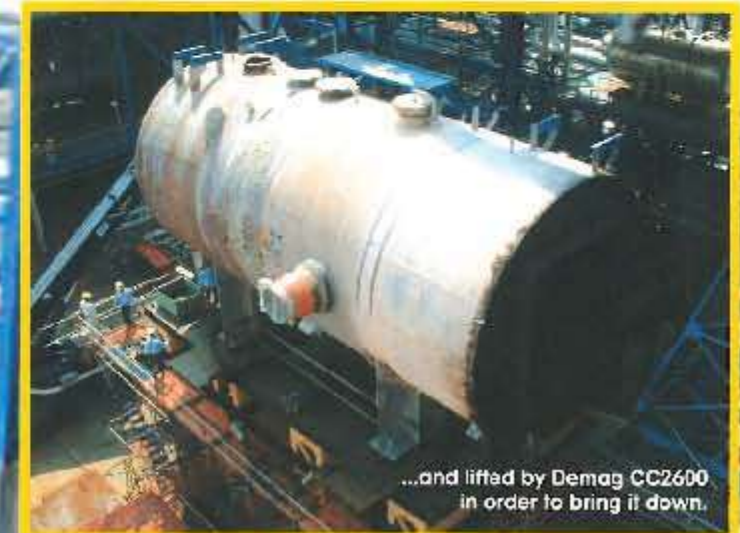
Positioning in progress.



Yew Choon constructed a 10m high platform next to the foundation of the old heat exchanger.



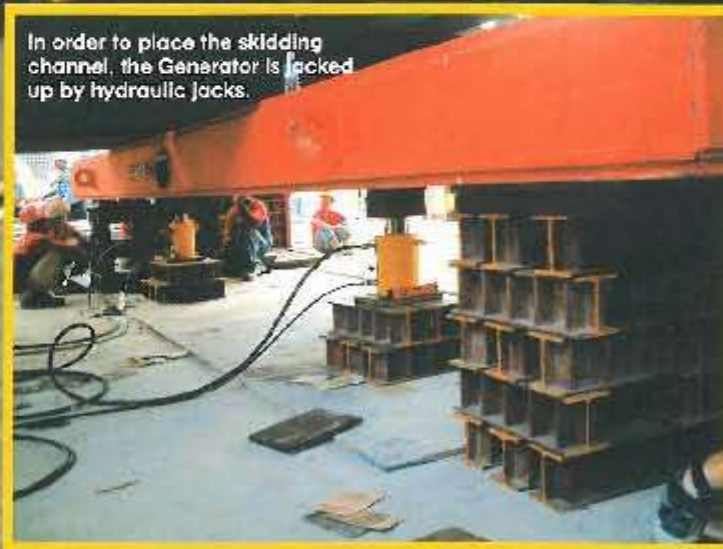
The old heat exchanger was skidded onto the platform...



...and lifted by Demag CC2600 in order to bring it down.



Arrival of new 270 tons Heat Exchanger at site in Merak, Indonesia by self-propelled trailer (spt). Dimension: 27.3 x 4 x 4.2m. The turning space that is needed to turn by spt is significantly smaller than the conventional trailers with prime mover.



In order to place the skidding channel, the Generator is jacked up by hydraulic jacks.



The Engine is shifted in the power house by 1000 tons skid system.



After the old heat exchanger was removed, the new one was lifted onto the platform. The new heat exchanger was placed on Teflon supports and was pulled over on stainless steel track by winches.



The skidding method is used to position this Transformer in an enclosed area.



# CRANAGE

Over the years, we have carried out many heavy-lift operations in many parts of Asia. With the experience gained, Yew Choon can now deliver a total package of rigging, lifting and installation assignments. Our project managers will be on hand to ensure that every job is executed safely and according to schedule.

## Crawler Cranes

Crawler cranes will be assembled at the jobsite. It is possible to travel with the crane over short distances. Because of their caterpillar tracks, they are perfect for rough terrain. Crawler cranes are able to lift a load and travel with the load in the hook (pick-and-carry).

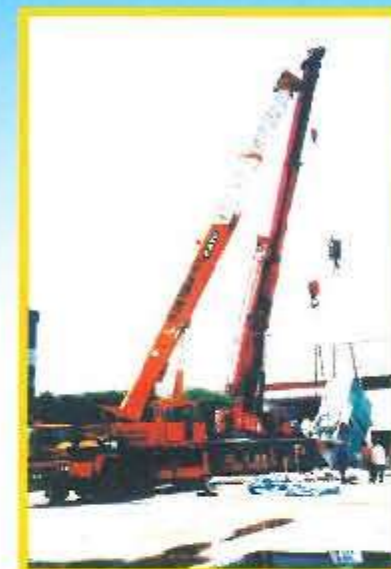


## Mobile Cranes

Mobile cranes are flexible and fast to commission. Once the crane is in position, the outriggers will be extended and the crane will stand fully on the outriggers. The wheels will be slightly above the ground. The telescopic boom can instantly reconfigure from a short boom with high capacity, to a long boom with a lower capacity.

## Lorry Cranes

Due to the size of the lorry crane, it is highly mobile. Sometimes it is possible to transport the cargo in the lorry and discharge it onto its foundation inside a building. The maximum capacity of our lorry cranes is 28 tons.



Deploying our cranes at the Betara Complex Development, Jabung, Indonesia.





# MARINE TRANSPORTATION AND RO-RO OPERATION

270 tons Turbo Compressors on the way to Senpah, Indonesia. Dimension of cargo: 27 x 7.3 x 15m.



Ro-ro operation of Turbo Compressors on arrival in Senpah.



At Yew Choon, we operate our own fleet of tugs and barges.

Our yard has its own private jetty. The jetty allows us to roll-on/roll-off (ro-ro) oversized and overweight cargo from the barge to our jetty and vice versa. To ensure safe ro-ro operations, the barge will be ballasted.

Our barges are equipped with a built-in coupling beam at the front of the barge. In order to prevent movement of the ro-ro ramps, these ramps are connected to the coupling beam. At the other end of the ro-ro ramps, steel wedges can be inserted. This combination is very solid and allows us to ro-ro tremendous loads.

Arrival of barge at temporary jetty - 280 tons diesel engines for P. T. Antam Power Station, Pomalaa, Indonesia. Dimension of cargo: 13.6 x 4.2 x 6.1m.



Generators and engines are loaded and lashed for journey to Puttalam Power Station, Sri Lanka.



Heavy lift being offloaded by ro-ro at Jurong Island.





Roll-on of 289 tons Gas Compressor to barge for journey to Hazira, India. Dimension: 25 x 7.8 x 11.7m.

# OVERSIZED HEAVYLIFTS



71.5 tons Tower, dimension: 66.99 x 2 x 2.2 m is unloaded via the floating crane and positioned on 2 units 2 x 6 axle lines Goldhofer trailer with a set of turntables attached.



Land transportation of Heavylift by 2 units self-propelled trailer (spt).



Land transportation of 300 tons Ammonia Converter to site, Bontang, Indonesia, KPI Project. Dimension: 21 x 3 x 3 m.



Transporting this 319 tons Unit to site by self-propelled trailer (spt) with heavy duty turntables.



Enroute to storage area from Seraya jetty by 2 units 6 axle lines (side-by-side) self-propelled Goldhofer hydraulic trailer with turntables (capacity: 700 tons).

319 tons Unit discharged from barge by to-ro operation. Equipment used for this operation was a combination of 2 units 6 axle lines Goldhofer hydraulic trailer with turntable. Dimension: 65 x 9 x 9m.



# HEAVY HAULAGE AND MODULE TRANSPORTATION

Whatever the size and weight, Yew Choon can transport it! Our fleet of Goldhofer hydraulic trailers exceeds 60-axle lines, including self-propelled trailers. The trailers are built-up from sections, and can be assembled in various combinations. Together, they will form a flat platform. The hydraulic system will divide the load equally over the axles.



Load-out of 1200 tons Fixed Process Unit. Dimension: 24.6 x 26 x 14.8m.

Our engineering department will make a safety study of every oversized or overweight cargo to be transported.

Besides hydraulic trailers, we have a wide range of more than 60 trailers. At Yew Choon, we think along with our clients to create tailor-made solutions. One example is the trailer that is specially designed to transport Singapore's trains (MRT).

Other Yew Choon trailers are:

- Extendable trailers with a capacity of 60 metric tons.
- Lowbeds with a capacity up to 60 metric tons.
- Flatbeds.



Preparing 289 tons Gas Compressor to roll-on barge for journey to Hazira, India. Dimension: 25 x 7.8 x 11.7m.



Re-ro ramps in place for this 590 tons Module. Dimension: 16 x 7 x 26m.



Land transportation of 290 tons Turbo Compressor by self-propelled trailer (spt) to site in Senpoh, Indonesia.



Bound for oilfield production platform in Myanmar, this 957 tons Module is rolled onto barge by 2 times 21 axle lines. Dimension of Module: 29 x 13 x 10m



# COMPANY PROFILE

With over 30 years' experience in heavy-lift transportation and machinery moving, Yew Choon today provides a haulage service for very heavy and oversized cargoes, encompassing marine and land transportation, ro-ro operation, jacking & skidding, craning, warehousing & storage and engineering.

Known for our reliability and excellent track record, we are poised to extend our specialized heavy-haulage services to anywhere in the world.

To date, we have completed projects successfully inter-country in Bangladesh, China, Philippines, Sri Lanka, Thailand, Cambodia, Vietnam, West Malaysia, East Malaysia, Brunei and Indonesia from Singapore.



Moving 375 tons Gas Turbine into position by hydraulic pushing jacks on skids.



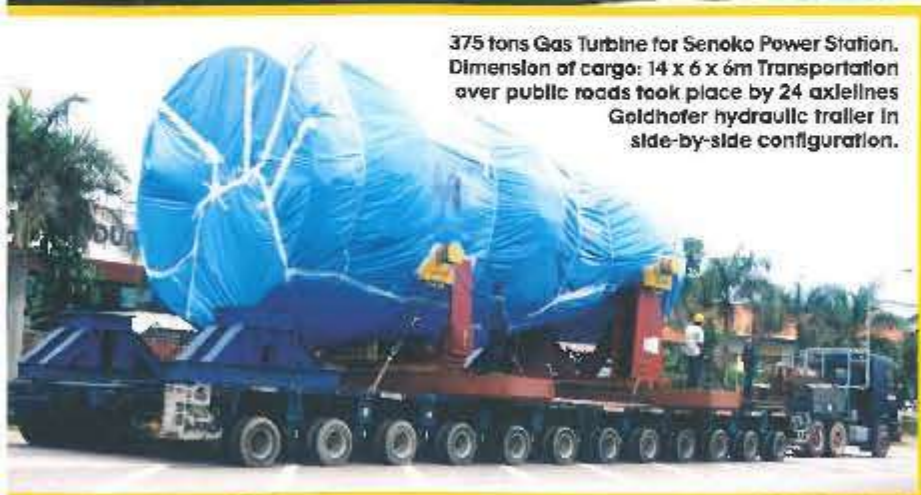
Erection of column by 300T main and 150T tailing crawler crane.



Goldhofer hydraulic trailer is used to transport this 18.5m high turbo heavy compressor by 18 axle lines, 1 1/2 configuration.



26m high Module is rolled onto the barge by Goldhofer hydraulic trailer, 18 axle lines side-by-side.



375 tons Gas Turbine for Senoko Power Station. Dimension of cargo: 14 x 6 x 6m Transportation over public roads took place by 24 axles lines Goldhofer hydraulic trailer in side-by-side configuration.



5 units 289 tons Gas Compressors bound for Hazira, India onboard our own barge, towed by Yew Choon's 2403hp tug. Dimension of cargo: 25 x 7.8 x 11.7m.



Transporting 1200 tons Fixed Process Unit onto barge for shipment to Indonesia. Dimension of cargo: 24.6 x 26 x 14.8m



# IN RECOGNITION OF HERCULEAN EFFORT



**SAMSUNG**

## Merit Award

Yew Choon Private Limited  
President Neo Hock Chong

In gratitude of your willingness to cooperate and assist, we present this merit award of appreciation. In honor of our 35<sup>th</sup> Anniversary of Foundation, we show our utmost appreciation for your company's hard work and dedication through superior technology and ability to develop and enrich our company albeit difficult market conditions.

April 26, 2005

*Yeon-Joo Jung*  
Yeon-Joo Jung  
President and CEO  
Samsung Engineering Co., Ltd.

Another barge serves as a temporary landing point for 2 units 590 tons Absorber on arrival in Songkhla, Thailand. Dimension of cargo: 44.8 x 4.4 x 4.8m.

