

Unit 4: Mode of Transport

1. swap-body
2. Container ship
3. Grappler lift
4. road-railer trailer
5. river barge
6. LGV (large goods vehicle)



SWAP-BODY

Carrying unit strong enough for repeated use, but not enough to be top-lifted or stackable when loaded, designed for intermodal transport of which one leg is road



CONTAINER SHIP

a ship that is designed to carry goods stowed in containers



GRAPPLER LIFT

grasping device having hinged tines or jaws that close around an object or load, used especially in lifting or dragging heavy items



RIVER BARGE

**flat-bottomed boat, built mainly for river
and canal transport of heavy goods
(also called inland waterway)**



ROAD-RAILER TRAILER

A HIGHWAY TRAILER OR
SEMI-TRAILER, SPECIALLY
EQUIPPED FOR USE IN RAILROAD INTERMODAL
SERVICE



LGV (LARGE GOODS VEHICLE)

the official name for a large vehicle,
for example a truck, for transporting goods



Match the different types of freight traffic (1-6) with the definitions (a-f).

1. multimodal

2. piggyback

3. intermodal

4. unaccompanied

5. block train

6. single-wagon

- a. The driver does not stay with his road vehicle during transport by rail or ferry.**
- b. Goods are transported in the same loading unit or vehicle using different modes of transport. The handling of the freight itself is not necessary when changing modes.**
- c. A single shipper uses a whole train which is run directly from the loading point to the destination. No assembling and disassembling is required.**
- d. Carriage of goods by at least two different modes of transport, e.g. shipping by motor lorry and aircraft.**
- e. Train is formed out of individual wagons or sets of wagons which have different origins and different destinations.**
- f. Combines road and rail transport: whole motor lorries, trailers or swap-bodies are carried by rail.**

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Ex.4 Match the pictures (a-d) with the names (1-4).



a. _____



b. _____



c. _____



d. _____

- 1. gantry crane**
- 2. ISO container**
- 3. reach stacker**
- 4. transtainer**

GANTRY CRANE

A specialized crane which travels along a supported structure which can span a wide area which raises and lowers heavy cargo onto a form of transport



ISO CONTAINER

specifically designed to carry goods overseas, aboard container liners. For this reason they have to be built to very precise specifications and standards, otherwise they could pose a risk to the safety of anyone handling it, or cause damage to other containers being transported alongside.



REACH STACKER

a vehicle used for handling intermodal cargo containers in small terminals or medium-sized ports. Reach stackers are able to transport a container short distances very quickly and pile them in various rows depending on its access



TRANSTAINER

is a hoisting (RAISING/LIFTING) device for loading or unloading containers onto or from railway wagons. It is a gantry crane that usually travels on rails and is set up across a track bundle at a container terminal.



Ex.3 Replace the underlined words with verbs given below that have the same meaning. Use the correct verb forms.

stack, come, run, fix, attach, lift, fit

1. This type of crane is used for raising containers. _____
2. Containers are available in a variety of versions and sizes. _____
3. It's a heavy-duty fork lift truck equipped with a spreader beam. _____
4. With this device you can pile containers on top of each other. _____
5. Some containers have a bogie fixed to them. _____
6. This device is mounted on rails. _____
7. The crane is motorized and able to move alongside the quay. _____

Unit 4: Exercise 1

Now complete the descriptions of the intermodal transport and handling equipment with verbs from the box.

fitted, straddle, mounted, loading, attached, reach, handle, piling, made, move

1. A piece of machinery used for _____ and unloading container from ships onto trucks or rail wagons and vice versa. It is rail-mounted and can _____ at least four railway tracks. It is motorized and can _____ parallel to ship's side.
2. A special type of device which is able to _____ very heavy loads. It is used for transferring swap-bodies and containers from rail wagons to trucks and vice versa. It has four legs _____ with wheels and a spreader beam which can span a wide area. It can be _____ on rails or rubber tyres and is able to straddle several rows of containers.
3. A kind of forklift truck used in container handling. It is equipped with a spreader beam and a lifting arm and can be used for lifting containers and _____ them on top of each other. It is very flexible and has a high stacking and storage capacity as it is able to _____ beyond the first row of containers to lift a container.
4. A rigid box _____ of steel which is very common in intermodal freight transport. It can be used for transport by sea, rail, air, and road. It is available in many different versions and sizes. For example, there are open-top and flat-rack versions. Some of them have wheels or a bogie _____ to them. The most common lengths are 20, 40, and 45 feet. It is made to the specifications of the International Standard Organization.

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a. fork-lift truck

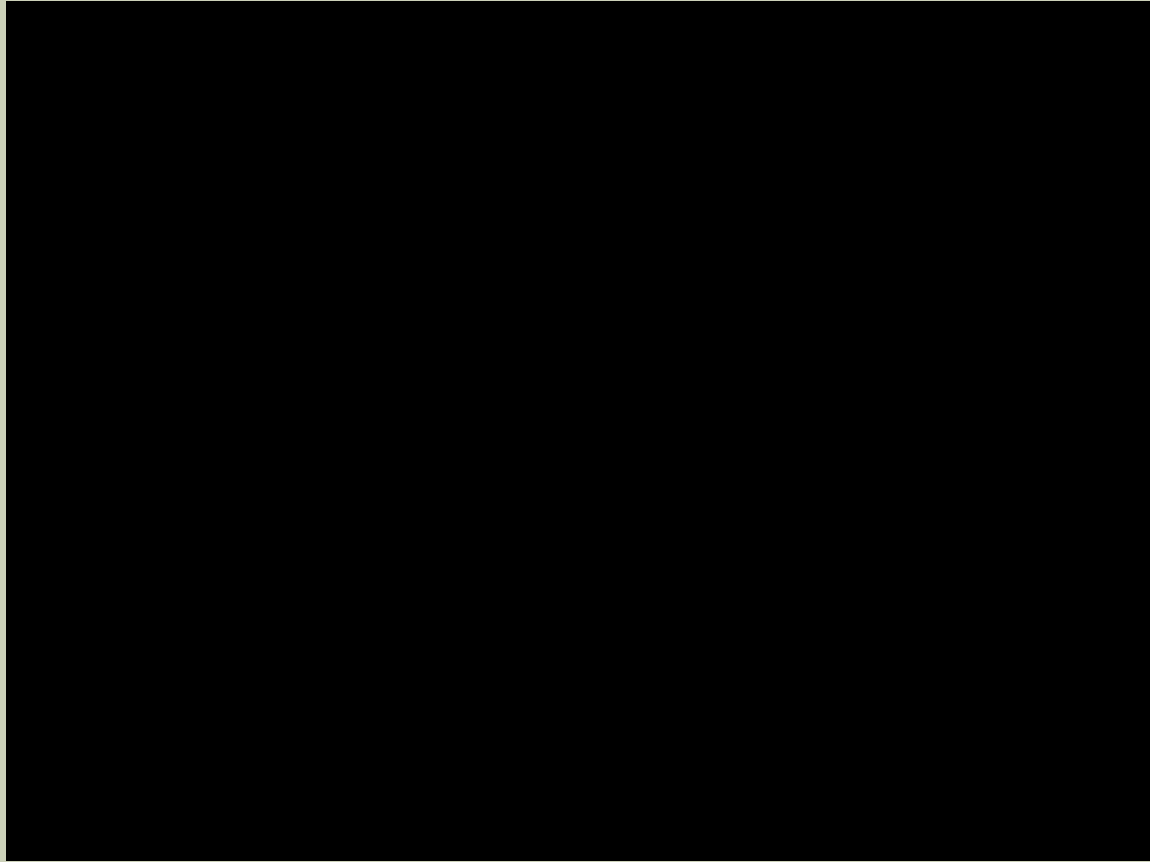
b. hand pallet-truck

c. trolley

d. pallet

e. tote bin





https://www.youtube.com/watch?v=_W8o7X7kzdA&feature=youtu.be

Now label the different types of containers 1-5

1.



4.



2.



5.



3.



First of all, we offer the general purpose container for any general dry cargo. It comes with a timber floor and has various lashing devices to secure the load.

These lashing points are located horizontally at floor level and vertically next to the door corner posts. Our refrigerated container, called 'reefer', can be used for delicate cargo and perishables. It is temperature-controlled and is particularly suitable for cargo that needs regulated or cool temperatures.

With our reefer your cargo reaches its destination in perfect condition.

If you want to ship liquids, for example, foodstuffs or chemicals, we can provide you with our 'tanktainer'. This is a standard container frame with a tank fitted inside.

As an extra, we also offer tank container with electric plugs in case the cargo needs cooling or heating during transport. For bulky cargo we recommend the open-top container. It comes with a PVC tarpaulin cover instead of a roof panel to allow loading from the top. The doors can be removed to make loading easier. Last but not least, there is our 'flat-rack' container which is especially designed for heavy loads. We recommend this special type of container for the transportation of heavy machinery and pipes.



Listen again and complete the sentences.

level • tarpaulin • frame • machinery • lashing • removed • controlled • plugs

- 1 It comes with a timber floor and has various _____ devices to secure the load.
- 2 These lashing points are located horizontally at floor _____.
- 3 It is temperature-_____ and is particularly suitable for cargo that needs regulated or cool temperatures.
- 4 This is a standard container _____ with a tank fitted inside.
- 5 As an extra, we also offer tank containers with electric _____ in case the cargo needs cooling or heating during transport.
- 6 It comes with a PVC _____ cover instead of a roof panel to allow loading from the top.
- 7 The doors can be _____ to make loading easier.
- 8 We recommend this special type of container for the transportation of heavy _____ and pipes.

