

## Carriage and transfer of cargo and personnel

### 1. Cargo Transportation

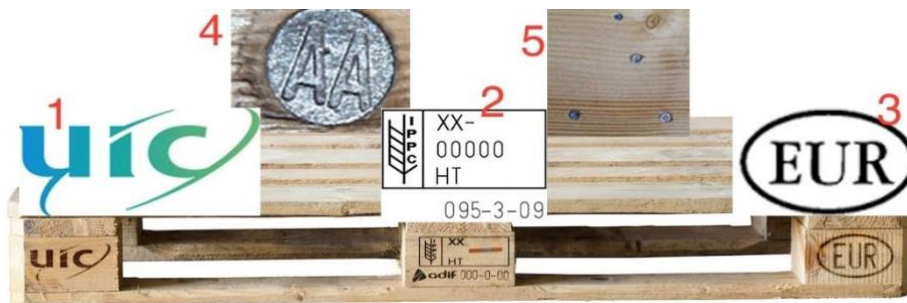
PKL provides transportation of cargo with tugboats. Accessible place for loading cargo is aft deck. Some tugs are equipped with deck cranes and can be used for lifting cargo from the quayside onto the deck. At sea vessel's crane must be used. The weather and loading conditions will be observed and tug Master will decide re best option of safe operation. Max deck load is 20t, for heavier cargoes please contact Company's operation department.

PKL is not liable for cargo during transportation or loading operation. It is sole liability of a hirer to insure cargo.

- Transport of Pallets

Tugs use soft lifting slings for lifting pallets and cargo. For safety of loading, pallets and cargo needs to comply with the following requirements:

- Pallets must be in good condition without any defects or signs of rotten wood.
- Proper visible certification:



- Pallets must be with opened sides so the slings could be safely applied:



- Cargo should fit dimensions of a pallet, not overhanging from sides.
- Weight distribution of cargo should be even to avoid capsizing.
- In case there are multiple objects on the pallets then they must be secured as one by plastic film or straps.

- **Transport of IBC Container**

Lifting of IBC containers with soft lifting slings is not recommended as they contain liquids with free surface effect that causes quick change to a center of gravity and can damage container frame. We kindly recommend to use special lifting frame designed for lifting of IBC containers (to be supplied by hirer).



## **2. Personnel Transfer**

PKL offers personnel transportation to and from vessels at sea. A vessel must provide safe (dis)embarkation from or to a tug by gangway or pilot ladder. All personnel preparing to transfer must wear lifejackets. Only limited number of lifejackets is available on a tug; therefore, a hirer should inform a vessel to have lifejackets ready before the operation.

Transfer conditions will vary depending on weather, transfer location and transfer system (pilot ladder, gangway). Safety of operation will be each time assessed by a tug Master.

People under influence of alcohol or people demonstrating improper/unsafe behavior will be banned from transfer. Passengers travel and move onboard a tug or between a tug and a vessel at their own risk.

PKL is not liable for passengers during transportation or transfer operation. It is sole liability of a hirer to insure transferred personnel.

## **3. Transportation of Fresh Water**

Fresh water delivery is available by several tugs. Please note that we supply TECHNICAL WATER only. Please see details in chapter 5 “Tug specification”.



**Hydrant connection type Storz 2.**



**Hydrant connection type DN50, PN16.**



#### 4. Work with Divers

Company and tug crews have experience working with divers. Many tugs can provide continuous power supply for diving equipment, sufficient space and accommodation. Power Supply 220V - 380V and 16A. Pin type F (standard EU domestic).

#### 5. Power supply

Some tugboats can provide electricity power supply for external consumers.

#### 6. Tugs specifications

##### ORION

- Max no. of pallets: 35 pcs. of EUR (800x1200mm) or 30 pcs. of FIN (1200x1000mm).
- Onboard crane SWL 700 kg at 12m.
- Total amount of TECHNICAL WATER which can be transported is 50 m<sup>3</sup> (hydrant connection type 2" Storz hose coupling):
  - From ballast tanks 25 m<sup>3</sup>. Flow rate is between 30 m<sup>3</sup>/h depending on hose length and angle.
  - From potable water tanks 25 m<sup>3</sup>. Flow rate is 10 m<sup>3</sup>/h depending on hose length and angle.

##### TAURUS

- Max no. of pallets: 38pcs. of EUR (800x1200mm) or 34 pcs. of FIN (1200x1000mm).
- No crane onboard.
- Power supply for external use:
  - Voltage 220/380V; 50Hz; 30kW
  - Cable length 50m with 63A, Industrial 5 pin plug connection.
- Total amount of TECHNICAL WATER which can be transported is 40 m<sup>3</sup>. Flow rate is between 10-20 m<sup>3</sup>/h depending on hose length and angle. Hose with length up to 40 m. Hydrant connection type 2" Storz hose coupling.

##### URAN

- Max no. of pallets: 5 pcs. of EUR (800x1200mm) or 5 pcs. of FIN (1200x1000mm).
- Onboard crane SWL 530 kg at 4m.
- No water supplies

##### VENTSPILS

- Max no. of pallets: 24 pcs. of EUR (800x1200mm) or 20 pcs. of FIN (1200x1000mm).
- No crane onboard.
- Power supply for external use:
  - Voltage 220/380V; 50Hz; 30kW
  - Cable length 50m with 63A, Industrial 5 pin plug connection.
- Total amount of TECHNICAL WATER which can be transported is 40 m<sup>3</sup>. Flow rate is between 10-20 m<sup>3</sup>/h depending on hose length and angle. Hose with length up to 55 m. Hydrant connection type 2" Storz hose coupling.