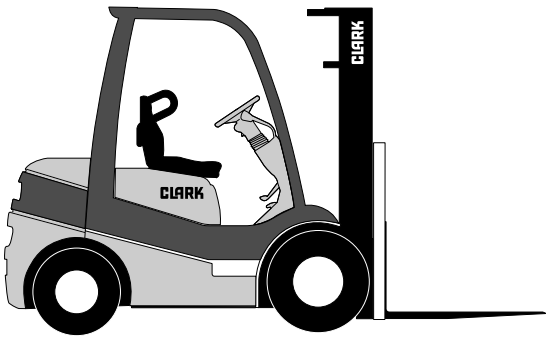
Operator`s Manual

C 15/18/20s/20/25/30/33/35 D/L/G
C 15/18/20s/20/25/30/32C L/G
C 40/45/50s/55s D/L
C 60/70/80 D
C 60/70/75 L
GTS 20/25/30 D/L

Rated Capacity : 1500 ~ 8000kg



Part No. 8067009
Book No. OM 751
Apr. 2009

CLARK
THE FORKLIFT

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Contents

FOREWORD

All technical data and all illustrations in these Operating Instructions are without obligation. We reserve the right to make alterations in the interests of technical progress.

The performance, economy and security of a forklift truck depends to a great extent on its proper handling as well as on regular maintenance and care. The following Operator Instructions should help you to make the best use of your CLARK forklift truck. Read through the instructions carefully and follow the given procedures strictly. Acquaint yourself with the controls and in particular observe all the safety regulations. Carry out all maintenance and care work at the recommended time intervals. CLARK forklift trucks are characterized by their easy aintenance design. You will therefore be able to carry out this work in a short time and without too much effort.

Regular maintenance and care of your forklift truck is recommended not just on economic ground because a faulty forklift truck represents a source of potential danger.

In addition you should observe the national regulations which provide inspections at set intervals of time. The contents and volume of the regulations could be different from country to country.

For any check-up, repair, maintenance and all other work concerning your forklift truck, please contact your CLARK dealer. Here, specially trained service personnel will be glad to help you at any time. Should you desire to carry out maintenance, repair and all other work on your forklift truck yourself, you can of course obtain all required spare parts and all necessary materials from your CLARK dealer. Please note: Only original CLARK spare parts guarantee the troublefree functioning and optimum economy of your forklift truck. Original CLARK spare parts are the best for your forklift truck. With their dimensional stability as well as their high material quality due to a continuous and strict quality control, they correspond to those parts used in the series production of our forklift trucks.

Finally we would like to draw your attention to the fact that any secondary damages due to improper handling, insufficient maintenance, wrong repairs or the use of other than original CLARK spare parts waive any liability by CLARK.

Any independent constructional modification or extension of the fork lift truck can unduly affect the safety resulting in the EU conformity being invalidated.

1. Safety Regulations

Guidelines for the due and correct use of CLARK forklift trucks

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- Stability
- Driver's protection

2. Inspection

- Inspection prior to bringing into first use.
- Regular and statutory inspections

3. Operation

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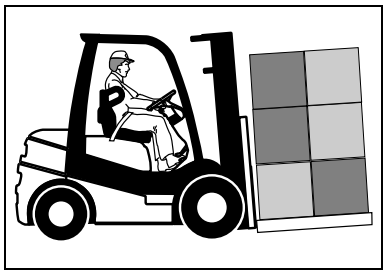
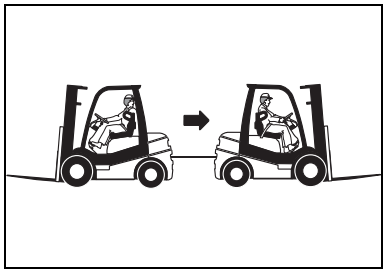
1) The forkift truck

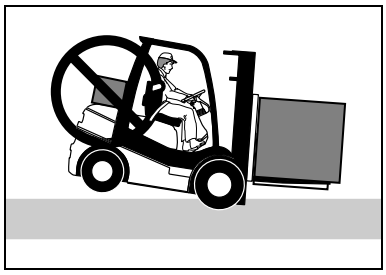
Use in accordance with the regulations



- Forklift trucks may only be usedin accordance with the regulations, following these operating instructions.
- Forklift trucks with fork arms are designed to take up, transport and stack individual loads and palleted goods.
- If a forklift truck is to be used for other purposes, permission must be gained from CLARK and if necessary from the supervisory authorities responsible, in order to prevent hazards arising.
- The use of attachments expands thepossible uses of a forklift truck many times over. Refer to the attachments operating manual for correct use of the accessories in accordance with the regulations.
- No vehicles of whatever type may be pushed with the forklift truck. Nor may it be used as a towing machine for rail vehicles. These prohibitions do not apply if the forklift truck is especially equipped for these purposes.

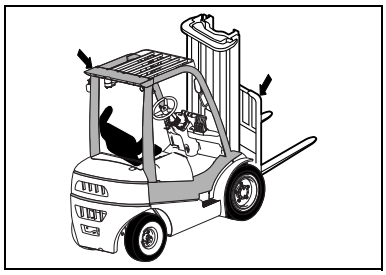


Stability



- CLARK forklift trucks are absolutely stable in the working positions and when driving, if used with due care and attention and observing the maximum permissible loads. The proof of sufficient stability is given by CLARK through tests on a tiltable platform corresponding to the related regulations (EC guideline No. 98/37/EC, International Safety Standard ISO3691, American Safety Standard ASME B56.1).
- Therefore, never overload your forklift truck. Take care as to the right weight and load center of your load. The mounting of extra counter weights to increase the load capacity is not permitted. Memorize the maximum permissible rated capacities of your forklift truck and, if you use one or several attachments, also the remaining load capacities indicated separately for these attachments. The load capacity of a forklift truck is influenced by the load center and also the lift height.

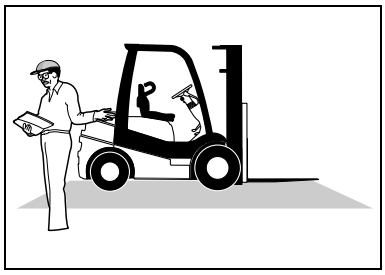
Driver's protection



- When stacking above the eye level of the seated driver an overhead guard must be used. If small parts are handled, a load backrest must be present.

2) Inspection

Inspection prior to bringing into first use



- The forklift truck must be checked as to its functionability prior to taking it into operation. The working area to be used must be tested as to its ground conditions (carrying capacity, flatness, sufficient width).

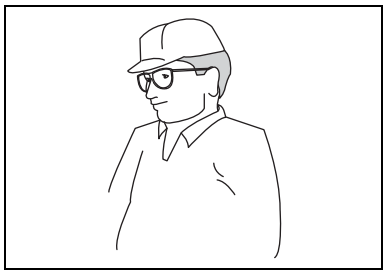
Regular and statutory inspections

- Forklift trucks must be regularly checked by trained and authorized service personnel. The time intervals between the regular checks are often prescribed by a national authority. CLARK recommends an annual check-up based on an average operational performance.
- Statutory inspections are required, if for instance the operator adds an attachment to his forklift truck. Modifications to the forklift truck are prohibited.

3) Operation

The driver

- Only trained and authorized personnel may be charged with driving a forklift truck. Please also observe the legal regulations in your country.

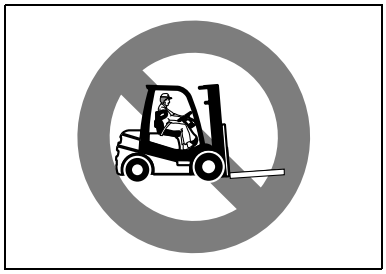


- We strongly recommend that you wear safety clothes suited for your work. Any wide or loose clothing must be avoided. Always wear a hard hat, safety shoes and, if required, safety glasses.
- Never drive your forklift with wet or oily hands or shoes. When you slip off the brake pedal or the wheel, serious accidents and personal injury may occur.

The working area

Operating aisles

- Never drive in areas which are closed to forklift trucks, but only use aisles cleared for forklift truck operation. Traveling aisles and loading areas must be clearly identified and free of obstacles. Watch the road surface - it must be sufficiently smooth and free of bumps, where possible. The floor within the working area for the stacking of loads must be even, horizontal and stable. Please further observe the legal regulations in your country.

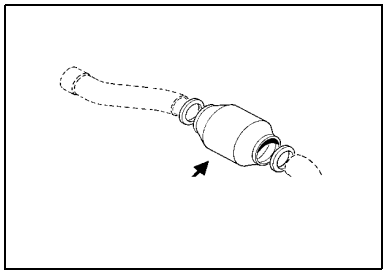


Hazard areas

- Forklift trucks which are to be used in flammable or explosive environments must be specially equipped for this purpose. The hazard areas must be identified accordingly.

Operation in closed rooms

- Forklift trucks with combustion engines may only be operated in closed rooms when any formation of harmful exhaust concentrations is prevented (danger of intoxication). This can only be achieved through exhaust gas cleaners (catalysts) or sufficient ventilation. Gas powered forklift trucks may not be operated in the vicinity of excavations or in rooms below ground level. All parking areas must be sufficiently ventilated.



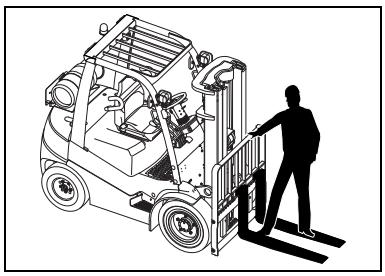
Traveling on public roads

- When traveling on public roads with the forklift truck, it must be equipped in accordance with the respective national regulations. The appropriate permission must be applied for from the competent authority.

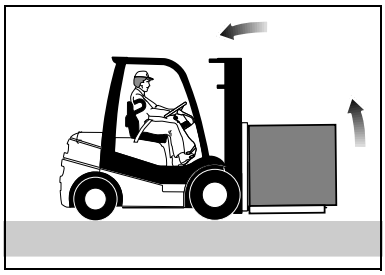
Handling of loads

Picking up and placing of loads

- Forklift trucks must never be loaded in excess of their rated capacity. The values indicated on the name plate apply only when the upright is in a vertical position.
- Spread the forks as far as possible. Always position the forks under the load as far as is practicable. Take care that the load is correctly balanced (centered) on both forks. Check the stability and balance of the load. Never lift a load with one fork only.



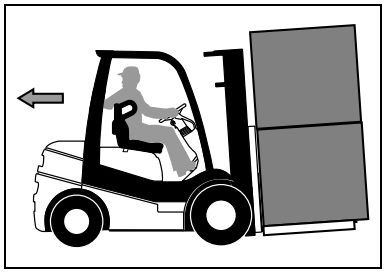
- When storing and stacking loads, correct placement is essential. Always place the loads carefully. Make sure that you do not exceed the maximum permissible stacking load when stacking and storing loads onto shelves.
- Never move loads stacked higher than the carriage backrest. The simultaneous pick-up of several unit loads is not advised. Defective unit loads should not be moved or stacked.



When driving

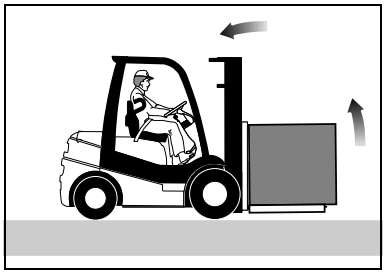
Visibility

- Do not drive forwards if the load is hindering your view. In this instance, drive backwards.
- If, however, the view is still impaired, a banksman should be used to overcome the hindrance. The forklift truck may then only be driven at walking speed and with particular caution, see also page 1.7 ”Behavior during Operation”.
- Ensure that the working area of yourforklift truck is adequately illuminated.



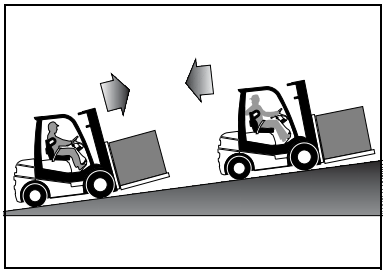
Stability

- Travel with the load tilted back and keep the load as low to the ground as possible (say 10 cm). This makes a better stability of the forklift truck. Keep in mind that an unladen forklift truck has a lower stability than a laden truck. Always use the same care when traveling whether laden or unladen.



Gradients

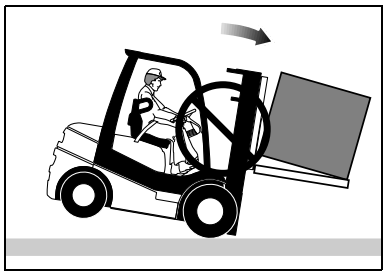
- Always keep the load on the upper-side on gradients. This prevents the slipping of the load from the forks or the rolling over of the forklift truck. In a laden condition, travel uphill in forward direction and downhill in reverse direction. With restricted visibility always seek assistance when travelling on gradients. Do not turn when going up or down a ramp. Never drive diagonally across the gradient. The forklift truck can easily roll over in this case. Always reduce your speed and drive with special care.
- Gradients should always have a sufficiently rough surface. For smooth, and even travel avoid any load contact with the ground.



Loading and unloading of vehicles

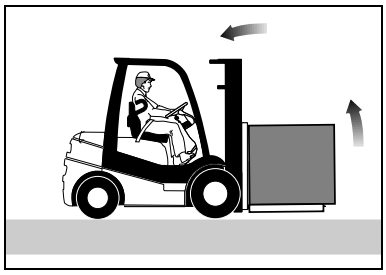
- Always approach the vehicle carefully. Make sure that load distribution is well balanced when loading or unloading. If you have to travel onto a vehicle for the loading or unloading process take particular care not to exceed the maximum permissible load capacity of the vehicle floor and the bridge plate. Both must be able to support the weight of the truck and load. Bridge plates must be securely fixed and must not slip when being entered. Secure the vehicle you enter with blocks against rolling. When entering vehicles or travelling on bridge plates reduce speed and be particularly careful. Also be very careful when travelling on bridge plates, especially close to the ramp edges. Keep a safe distance from the ramp edges particularly if the surface is wet or slippery.

With raised forks



- Never move your forklift truck with the load raised and tilted forward. Your forklift truck can lose stability in this condition. Only travel with the upright extended in the immediate area for picking up and stacking the loads. When raising the forks watch for obstacles above.

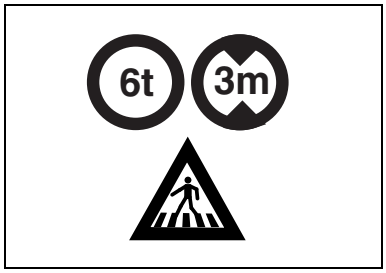
Tilting the upright



- The upright should only be tilted forward directly above the stacking area when picking up or placing the load. Otherwise drive your forklift truck with the upright tilted back.

Behavior during operation

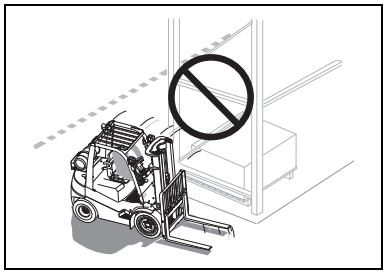
Traffic rules



- Observe all safety regulations and all warning signs. Always behave as if traveling on public roads. Reduce the speed of your forklift truck and use the horn near corners, entrances, exits and near people.

When driving

- Avoid any abrupt starting, excessive travelling speeds and sudden directional changes.
- Select the driving speed so that sufficient stopping distance is always available. It must be remembered that the net stopping distance increases by approximately the square of the speed and that sharp braking of the forklift truck can cause the drive wheels to slip and the truck to tip over.
- Braking on curves further increases the danger of the forklift truck tipping due to the tilting moment which occurs.
- Reduce speed before curves and ramps, in narrow passageways, on wet roads and restricted visibility.



- Always operate the truck carefully even without a load. An unladen forklift truck can roll over more quickly on curves than a laden truck. Always operate your truck safely and avoid accidents.
- Always look in the driving direction. No parts of the body should extend outside the truck.
- Always keep a sufficient distance from other vehicles so as to be able to stop in time in case of danger.

Safety of people

- Always make sure that there isnobody within the hazardous area of your forklift truck. Ask these people to leave the area immediately.
- Never use your forklift truck with persons within this area. Never allow anyone to stand under the lifted load or to pass under the load.
- Do not let other persons ride on the truck, on trailers or on the load.

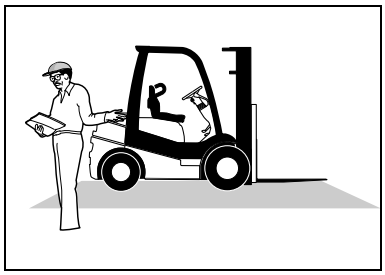
Troubleshooting

Daily inspection before operation

- Before starting to work check your forklift truck daily in accordance with the section "Daily Inspection". Always make sure that all safety systems are operating correctly. Never operate a truck which is damaged or not safe to operate. Check all warning and information signs. Any missing or damaged signs must be replaced immediately.

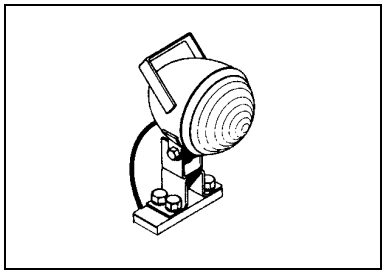
  Safety devices and switches may not be removed or rendered unusable. Predetermined set values may only be changed in agreement with the manufacturer.

  Damage and other faults must be reported immediately to the person in charge.



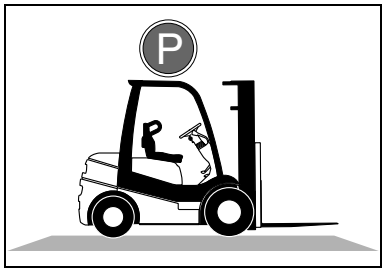
Illumination

- Forklift trucks used in poorly illuminated areas must be equipped with work lights.
  Forklift trucks used on public roads must be equipped with a lightning system in ac-cordance with national regulations.



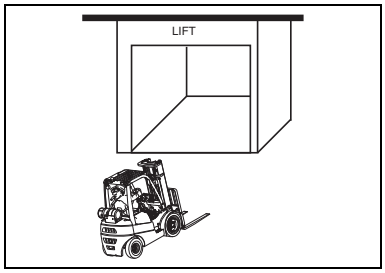
Leaving the forklift truck

Never leave the forklift truck with the up-right raised. Lower the carriage, tilt the upright forward, apply the parking brake, put the gear levers in the neutral position and secure your forklift truck against unauthorized use by third persons. Never park your forklift truck on gradients. But if this is necessary always secure the truck with wedges.

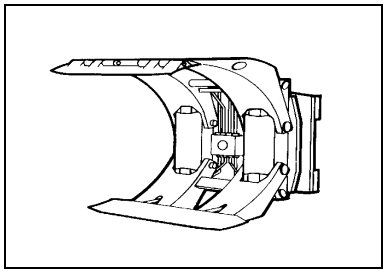


Transport of forklift trucks in elevators

- The transport of forklift trucks in elevators is only permitted, if the elevator has a sufficient load capacity and is designed for this purpose. The forklift truck must be secured in a way that it cannot touch the elevator walls and may not move inadvertently. All persons travelling with the forklift truck must enter the elevator after the forklift truck and must leave before the forklift truck.



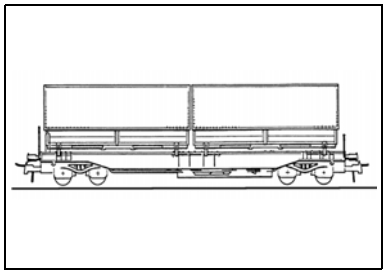
Attachments



- Attachments must fit the carriage without overlapping the carriage. The assembly of the attachment may only be carried out by trained and authorized personnel. If your forklift truck is equipped with one or several attachments, please read the respective operating instructions carefully. Always observe the maximum permissible load capacity of your truck when fitted with an attachment. The attachment capacity plate is positioned directly beside the name plate of the forklift truck and indicates the load capacity with a central load pick-up. Only use the attachment for the function specified. Always pick up the load centrally and additionally secure it, if required, against falling, slipping, rolling, swinging or tilting. You must have been trained in using the attachment.
- For attachments with the ability tomove loads more than 100 mm either side of centre, the residual load capacities must be obtained from the manufacturer and indicated on an additional capacity plate. Note that the load capacity decreases steadily with increasing height and off centre loading.

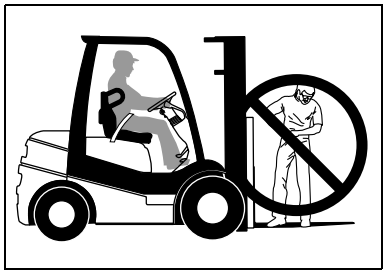
Additional regulations for special tasks

Shunting of rail vehicles



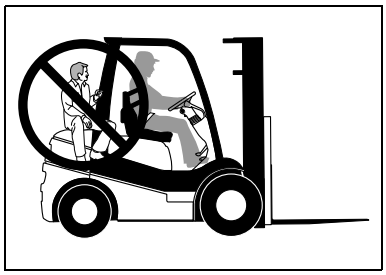
- Rail vehicles may only be moved by a forklift truck, if the latter is equipped for this purpose. Trucks may never be used to tow a vehicle from the front, they must always be at the side of the vehicle. The traveling road must be sufficiently firm.
- For moving rail vehicles no rigid linkage but only ropes may be used. The rope is to be attached at the rear eyelet on the last rail vehicle. The forklift truck must be equipped with a slip coupling. The slip coupling must open automatically at a traction angle of 45 degrees. Additionally, the driver must be able to manually open the slip coupling from the driver's seat in case of danger.
- When pushing rail vehicles, the forklift truck and rail vehicle may not be connected to each other. The forklift truck must be equipped with a bumper extending laterally. Only the last rail vehicle may be pushed.

Forklift trucks used as working platforms



- Platforms on forklift trucks may only be used for occasional work which is fully supervised. This platform must be firmly connected to the forklift truck and with no extending parts. It must offer sufficient protection against the lifting mechanism and any persons on the platform must be secured against falling off. A working platform with persons on it may not be moved and the driver may not leave the forklift truck.
- **In addition, observe the statutory regulations of your country.**

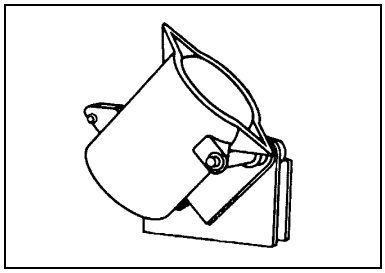
Forklift trucks used for the transport of persons



- The transport of persons by the forklift truck is only permissible, if the truck is equipped with appropriate seats or standing places and if the latter are designed for the transport of persons. Otherwise the transport of persons is prohibited.

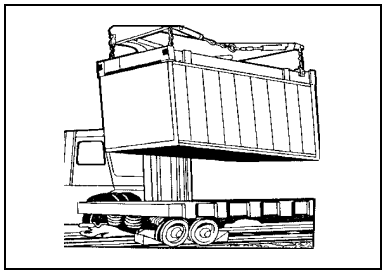
Forklift trucks used for the transport of molten masses

- Any containers for the transport of molten masses must be fixed to the forklift truck and with no extending parts. The inadvertent operation of rotating or tilting devices must be prevented. The stability of the forklift truck must be guaranteed and the energy supply lines must be protected against high temperatures. The driver of the truck must handle the load with special care.



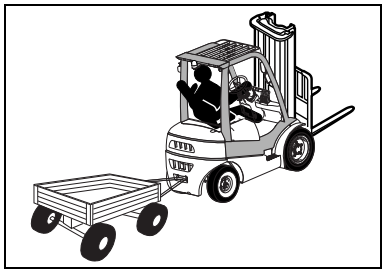
Forklift trucks used for the transport of containers

- Containers may be transported with forklift trucks only if the forklift trucks are specially designed for this purpose and are equipped with a spreader as a load pick-up device.



Trailer operation

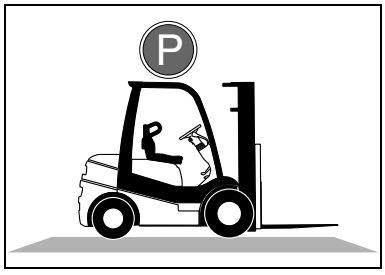
- Trailors without a power-brake system may only be moved if the braking force of the towing forklift truck is sufficient for a safe stop. For the permissible trailer load please contact your CLARK dealer.
- Forklift trucks may only tow trailered loads, if they are specially equipped for this purpose. The regular towing of trailers may only be carried out with a special trailer coupling (not by means of a tow pin). Please observe the information on the name plate of the trailer coupling. Trailer loads effect the braking force of your forklift truck ; this particularly applies to travelling on gradients. During the coupling process no persons are allowed between the trailer and the moving forklift truck. Please observe the valid regulations of your country.



Parking the forklift truck

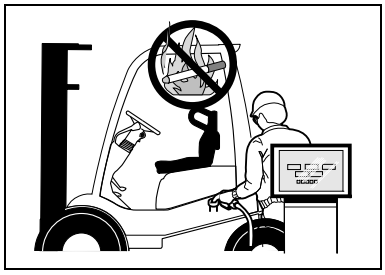
- Park your forklift truck in authorized areas only. For this purpose:
  - fully lower the forks to the ground
  - tilt the upright to the front
  - apply the parking brake
  - put the directional control lever in neutral position
  - turn the key to "Off" position
  - remove the key.

Gas powered forklift trucks should not be parked in the direct vicinity of heaters, excavations, tunnels and cellar windows. The check valve at the liquefied petroleum gas tank must always be closed.



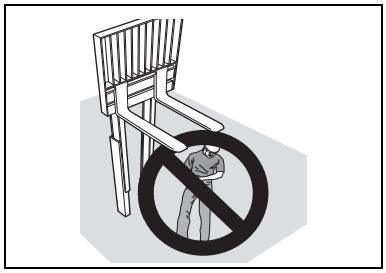
Refueling of forklift trucks with combustion engines

- Forklift trucks may only be refueled at the places provided for this purpose. Switch off the engine when refueling.
- Only those fuels listed in the operating instructions may be used.
- Smoking as well as the handling of open fires is strictly prohibited during the refueling process. This prohibition also applies when changing the liquid gas tank. Wipe off any spilt fuel and never forget to close the fuel tank again before restarting the engine.
- Please also observe the legal regulations of your country.

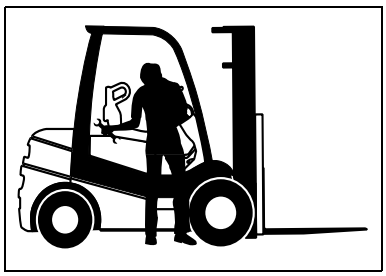


Repairs

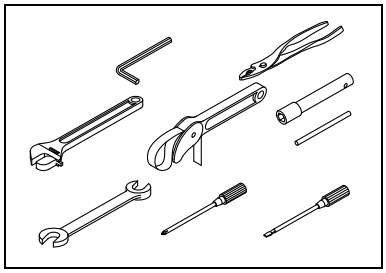
- Never carry out any maintenance or repair work under lifted loads. If the carriage must be lifted for maintenance and repair work, the carriage and inner rails must always be secured against inadvertent lowering. This can be obtained by means of a crane or with suitably dimensioned wooden beams. The beams must be inserted under the inner rails in a way that they cannot tip over. Any maintenance and repair work may only be carried out by trained and authorized personnel.



- Safety equipment and switches maynot be removed or made inefficient. Factory set adjustment values may not be changed.
- For any check-up, repair, maintenance and all other work concerning your forklift truck, please contact your CLARK dealer. Here, specially trained service personnel will be glad to help you at any time. Should you desire to carry out maintenance, repair and all other work on your forklift truck yourself, you can of course obtain all required spare parts and all necessary materials from your CLARK dealer. Please note: Only original CLARK spare parts guarantee the troublefree functioning and optimum economy of your forklift truck. Original CLARK spare parts are the best for your forklift truck. With their dimensional stability as well as their high material quality due to a continuous and strict quality control, they correspond to those parts used in the series production of our forklift trucks.

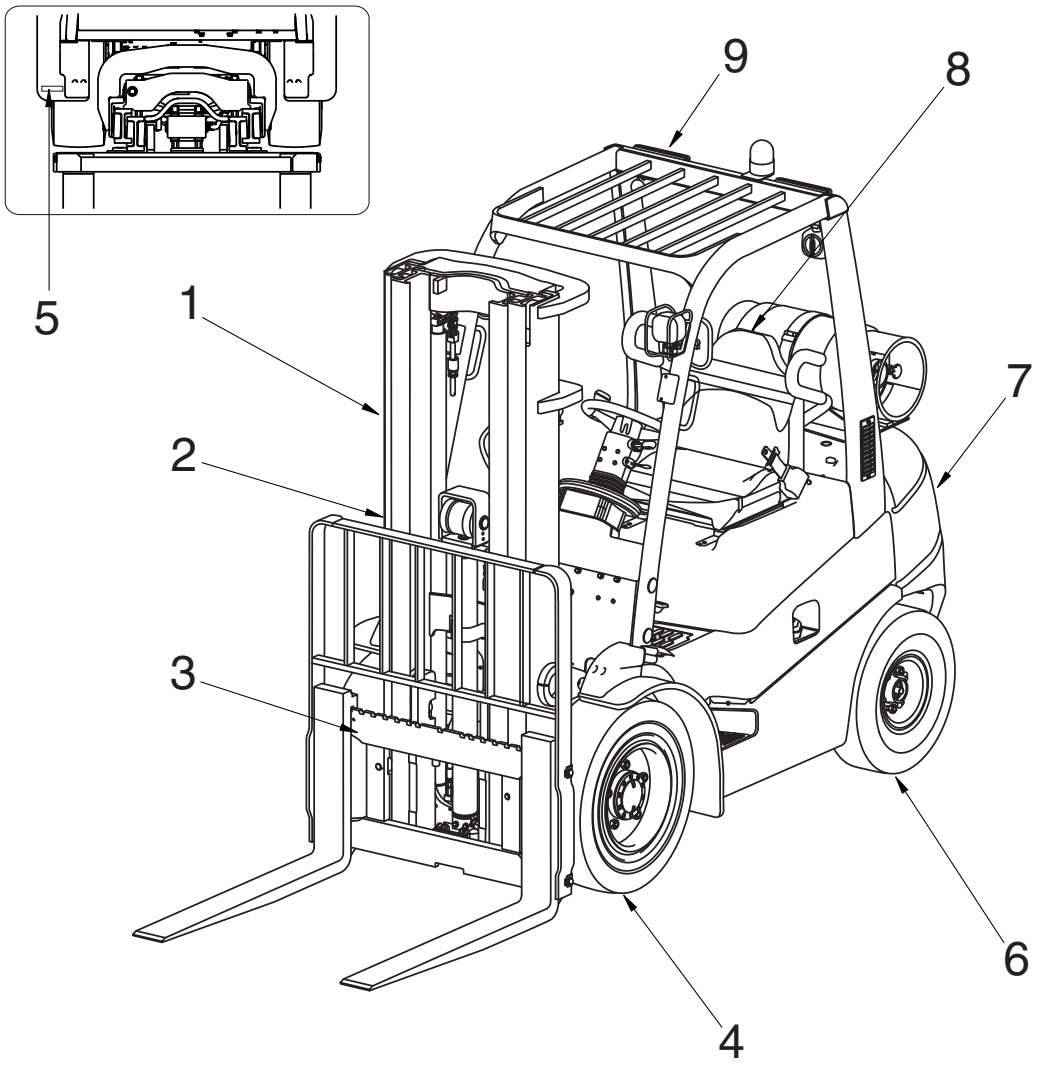


- Finally we would like to draw yourattention to the fact that any secondary damages due to improper handling, insufficient maintenance, wrong repairs or the use of other than original CLARK spare parts waive any liability by CLARK.



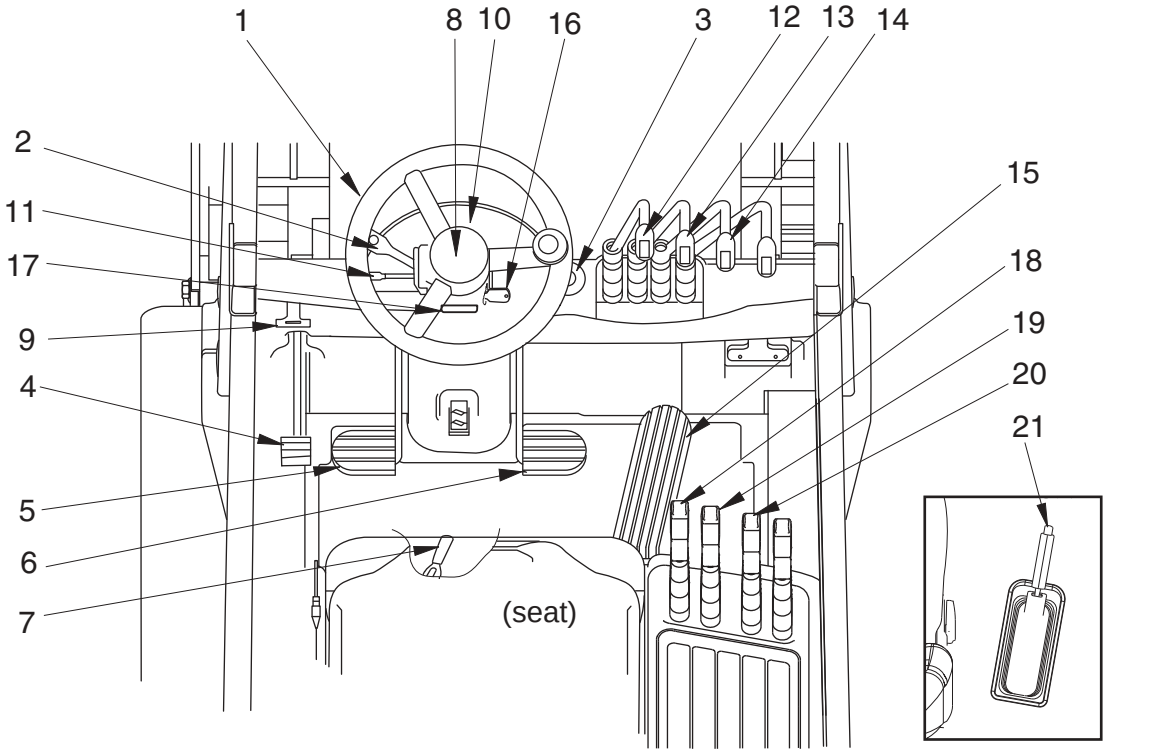
2. How Your Forklift Truck

1) Appearance



1. Upright
2. Upright deck number
   (necessary for ordering spare parts for the upright)
3. Fork carriage
4. Drive axle wheel
5. Truck serial number (necessary for ordering spare parts)
6. Steering axle wheel
7. Counterweight
8. Driver's seat
9. Driver's overhead guard

2) Operator’s compartmant and Controls



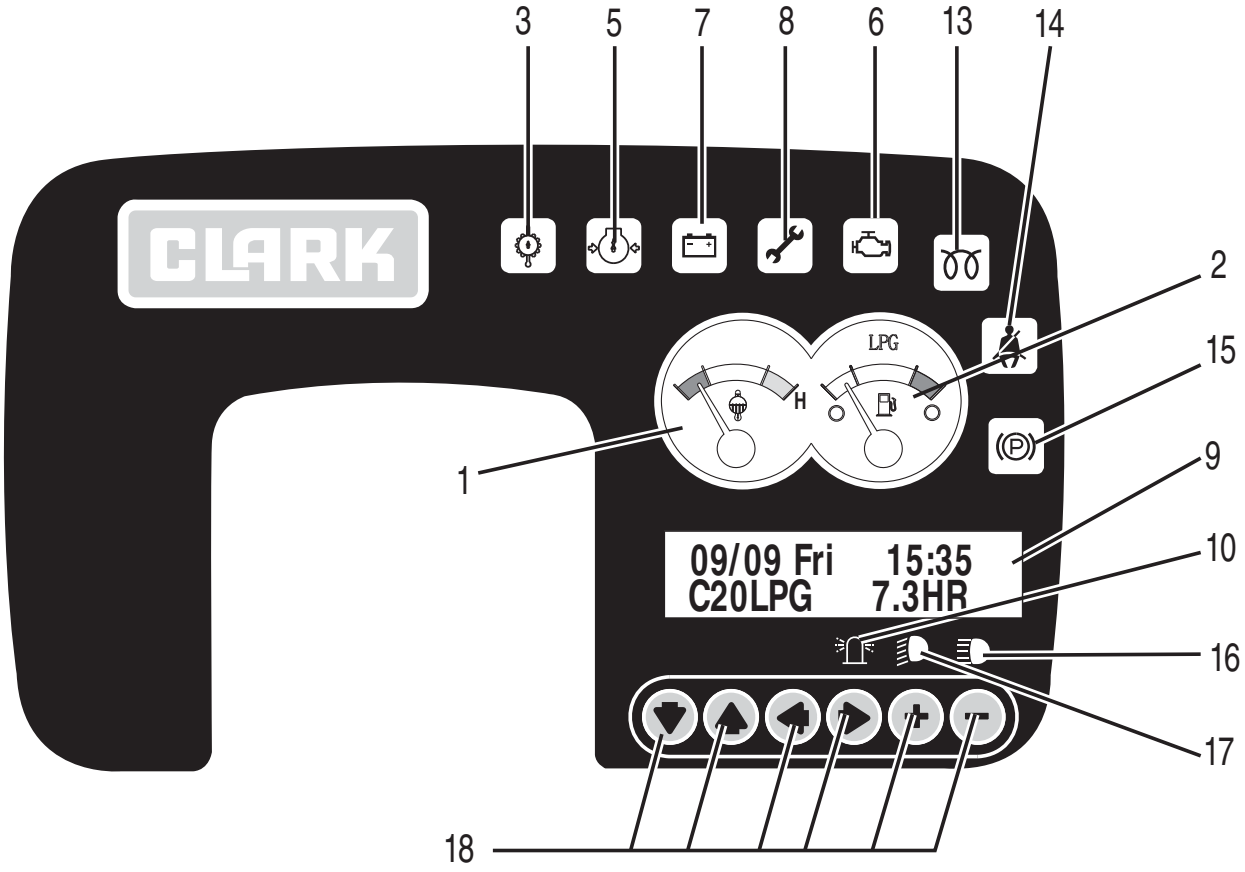
(GTS20~30, C40~80)

1. Steering Handwheel
2. Forward/Reverse Lever
3. Brake Fluid Reservoir
4. Parking Brake Pedal (C15-35)
5. Inching Pedal
6. Brake Pedal
7. Seat Adjustment Lever
8. Horn Button
9. Parking Brake Release (C15-35)
10. Instrument Pod
11. Turn Signal Lever
12. Lift Control Lever (C15-35)
13. Tilt Control Lever (C15-35)
14. Auxiliary Control Lever (C15-35)
15. Accelerator Pedal
16. Key Switch
17. Steer Column Tilt Lever
18. Lift Control Lever (GTS20-30 / C40-80)
19. Tilt Control Lever (GTS20-30 / C40-80)
20. Auxiliary Control Lever (GTS20-30 / C40-80)
21. Parking Brake Lever (GTS20-30 / C40-80)

IMPORTANT

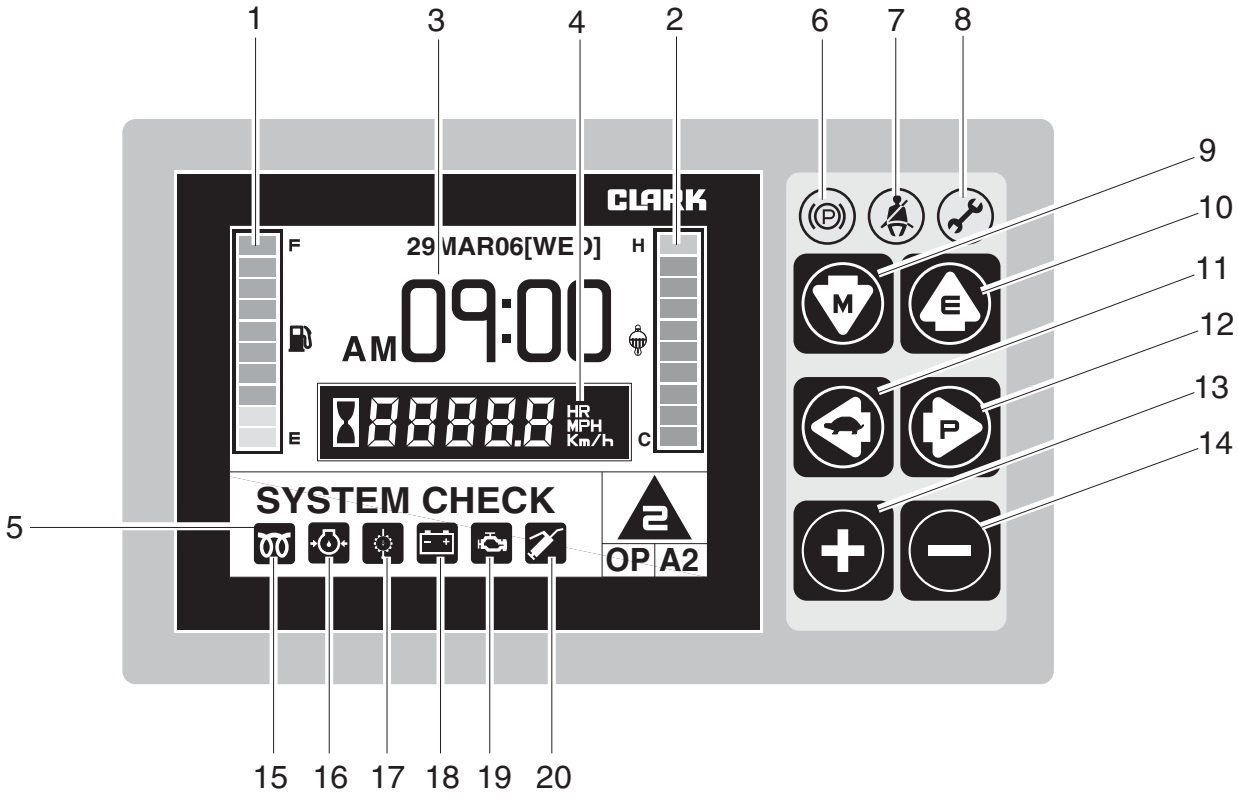
Familiarize yourself with the controls and follow safe operating procedures.

(C15-35)



1. Coolant Temperature Gauge
2. Fuel Gauge
3. Transaxle Oil Temperature
5. Engine Oil Pressure
6. Engine check
7. Alternator Charging Status
8. Service Icon
9. LCD Display
10. Strobe light
13. Glow Plug Preheat
14. Seat Belt
15. Parking Brake
16. Work Lamp Switch
17. Rear Work Lamp Switch
18. Function Key

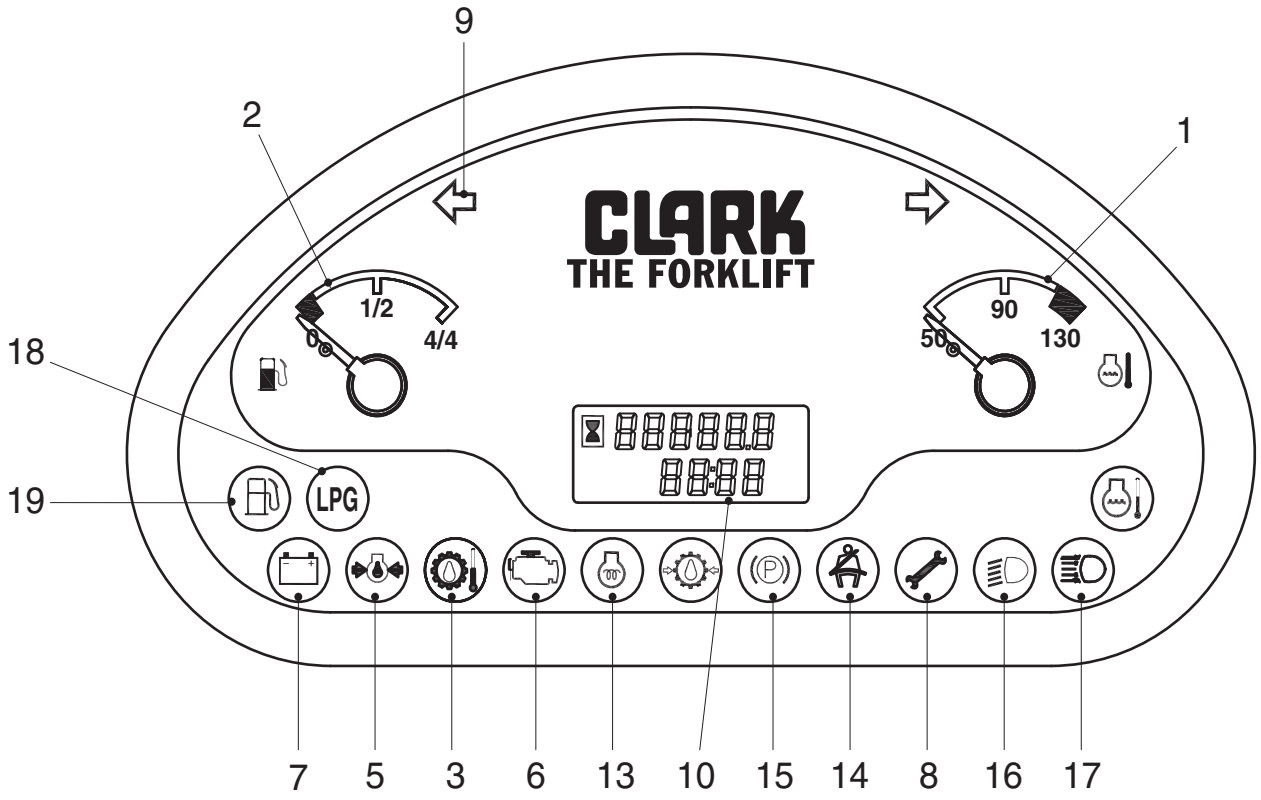
(C60-80)



1. Fuel level Indication
2. Engine coolant temperature indicator
3. Date & Time display
4. Hourmeter & Speed
5. Message display & Travel direction icon
6. Parking brake LED
7. Seat belt LED
8. Error LED
9. Down arrow button (Mode button)
10. Up arrow button (Enter button)
11. Left arrow button (Slow speed button)
12. Right arrow button (Power button)
13. Plus button
14. Minus button
15. Glow Plug Preheat
16. Engine Oil Pressure
17. Transaxle Oil Temperature
18. Alternator Charging Status
19. Engine check
20. Service Icon

- Keep your eyes on the warning instrument panel while you work with your fork-lift truck.
- If instrument panel does an unusual operation, you must inspect the fork-lift truck immediately.

(GTS20-30, C40-55s)

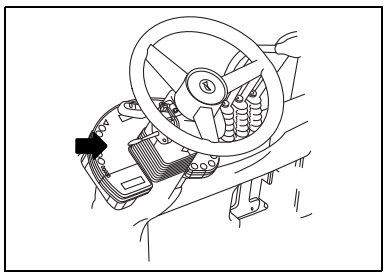


1. Coolant Temperature Gauge
2. Fuel Gauge
3. Transaxle Oil Temperature
5. Engine Oil Pressure
6. Engine check
7. Alternator Charging Status
8. Service Icon
9. Turn Signal
10. Hour Meter
13. Glow Plug Preheat
14. Seat Belt
15. Parking Brake
16. Work Lamp Switch
17. Rear Work Lamp Switch
18. LPG truck signal
19. Fuel warning lamp

- Keep your eyes on the warning instrument panel while you work with your fork-lift truck.
- If instrument panel does an unusual operation, you must inspect the fork-lift truck immediately.

Functions

General function

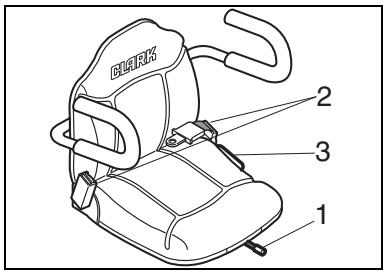


- The instrument pod consists of indicator lights, an hour meter, a circuit board and attached gauges.
- Provides the operator with important information about truck condition and shut down the truck in the event that certain critical conditions are present.

Engine shutdown function

- The instrument pod circuit board receives signals from sensors in various locations and shut down the truck when coolant temperature, transaxle fluid temperature are excessive or engine oil pressure is low. Before shutting down the truck, the instrument pod sounds alarm for 30 seconds and flashes indicator lights. After shutdown, the truck may be restarted, but if the fault condition persists, the truck is shut down again in 30 seconds.

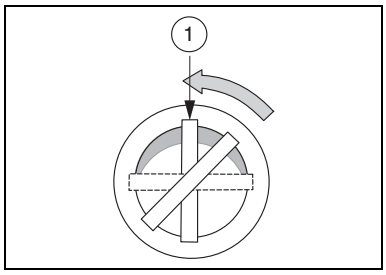
Seat switch application



- The instrument pod shuts down the running truck without warning when the operator leaves the seat over 3 seconds with the FWD/REV switch is engaged. Directional switch must open and key switch must always be turned OFF, to restart engine.
- When directional switch is open and parking brake is not engaged, if the operator leaves a seat, after 3 seconds, the instrument pod will sound buzzer, and then honk horn.
- Setting the parking brake shall reset the alarm.(The engine is not shut down.)

Neutral start function and Anti-restart function

Neutral start function



- The instrument pod will not allow the starter to be engaged if directional switches are closed or key has been in start position once. Key switch must always be turned OFF to restart engine.

Anti-restart function

- When engine is already running, the start motor does not rotate although the key switch is turned start position.

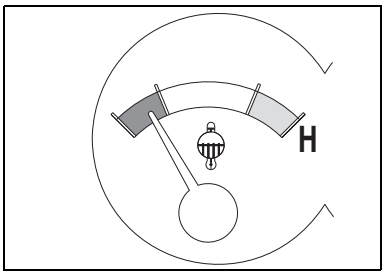
Anti drive and parking brake reminder function

- When parking brake is engaged, the truck cannot be driven although the directional switch closed.
- A parking brake alarm shall be activated if key switch is turned to the
- OFF position and the parking brake is not applied. Applying the parking brake will reset the alarm.

Gauges and indicators

Coolant temperature gauge

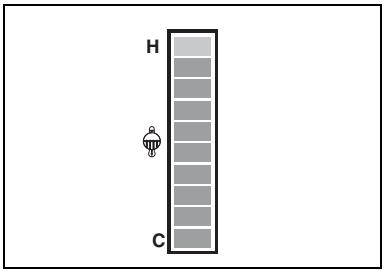
1) It is divided into 3 colour zones according to temperature. (C15-35)



Blue	~ 64℃	When starting to operate
Yellow	64 ~ 110℃	While normal operating
Red	110℃	When overloaded, enter Red zone
	113℃	When overheated, buzzer sound for 1sec
	116 ℃~	Buzzer sound for 2sec; Engine will be shut down after 30sec.

If the wire of cooling water temp gauge is broken or the gauge scale doesn't move after 10min of engine starting, engine will be shut down because the gauge is recognized as defective.

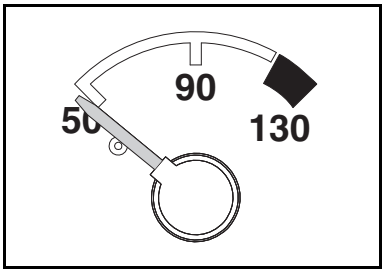
2) It is divided into 2 colour zones according to temperature. (C60-80)



Blue	~ 64℃	When starting to operate
Blue	64 ~ 110℃	While normal operating
Red	110℃	When overloaded, enter Red zone
	113℃	When overheated, buzzer sound for 1sec
	116 ℃~	Flashing and Buzzer sound for 2sec ; Engine will be shut down after 30sec.

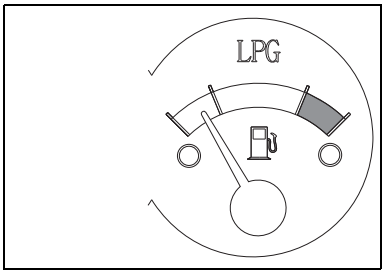
If the wire of cooling water temp gauge is broken or the gauge scale doesn't move after 10min of engine starting, engine will be shut down because the gauge is recognized as defective.

3) Coolant temperature gauge (GTS20-30, C40-55s)

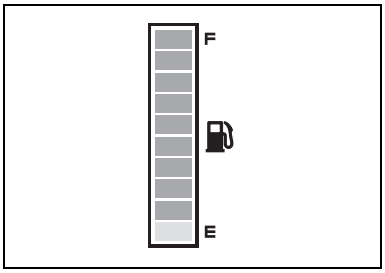


Fuel gauge

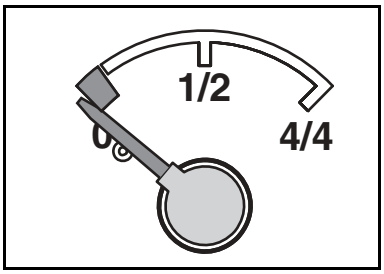
1) It displays the remaining fuel level in fuel tank. (C15-35)
If the level is low, the buzzer will sound 3 times and "LOW FUEL" message will be displayed on LCD window.



2) It displays the remaining fuel level in fuel tank. (C60-80)
If the level is low, the Flashing and buzzer will sound 1 Secand and "LOW FUEL" message will be displayed on LCD window.



3) It displays the remaining fuel level in fuel tank. (GTS20-30, C40-55s)

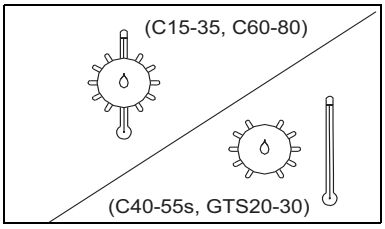


Transaxle oil temperature

Indicates that the transaxle oil temperature is excessive.

If the light is on, shut down the truck and service it.

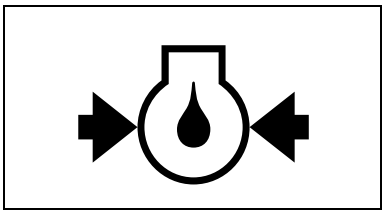
The truck will go into shut down mode after the light flashes for 30 seconds.(the buzzer sounds)



Engine oil pressure

Indicates engine oil pressure is too low. If the light is on, shut down the truck and service it.

The truck will go into shut down mode after the light flashes for 30 seconds.(the buzzer sounds)

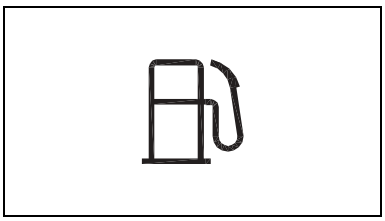


LPG truck lamp (GTS20-30L, C40-55sL)

This simbol displays when the LPG truck.

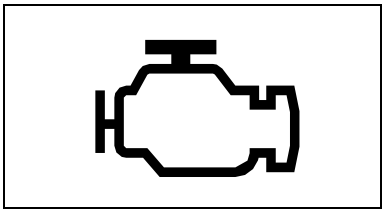
Fuel warning lamp (GTS20-30L, C40-55sL)

This simbol displays when the LPG fuel empty.



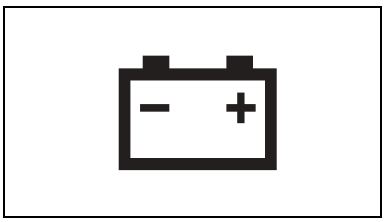
Engine Check

When the engine has problem, this LED will be on.

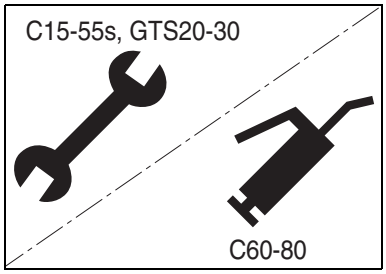


Alternator charging status

Indicates that the alternator is not properly charging the battery. Service is required to correct the problem.



Service icon

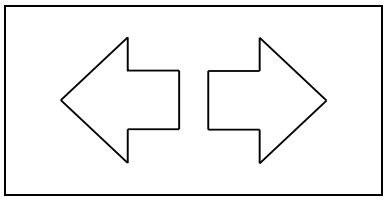


LED will illuminate when preset service time is reached. When LED is on, the preset service time has been reached indicating that a PM is required. Refer to Service Manual for proper PM procedures.

Pre-set service time setting method - initialized by "key on + FWD + F1 + F2", service time display at hour meter. Here, F1 is for up set, F2 is for down set with interval times of 50 hours. When the key switch is turned OFF, the pre-set service time setting time is saved. Pre-set service time counts down opposite to operating time.

To disable the Service Icon, set the pre-set service time to "-1000" (display 1 0 0 0); If you push the F2 switch when setting the pre-set service time, the time will be adjusted to "-1000".

Turn signal



Indicates that the turn signal switch is actuated.

Hour meter

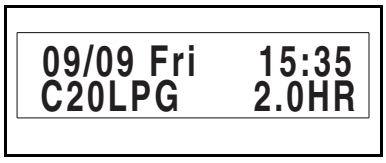
Indicates total engine operating time. Operating time is recorded only when the engine is running.

It is possible to make sure operating status through the hour meter indicator.

Short Circuit Protection

In the event that any output circuit becomes connected directly to ground continuously, the shorted circuit must be turned off to prevent continuously cycling the affected switch. The circuit that is shorted will have the pin number from the Main Connector displayed on the LCD. The specific circuit should continue to be shut off until the keyswitch is moved to the off position, then returned to the on position. If the short circuit is not removed, the shutdown sequence must be repeated until the short is removed. If the pin number is displayed on the LCD continuously though the key switch was recycled, call the maintenance staff.

LCD Display (C15-35)



1. Operating time display

   It displays the accumulated operating time of machine.
   The operating time will be added only while the engine is working, and the indicator (.) is flickering to show the conditions.
   EX) 2.0hr, indicator of " . " will be flickering.

2. Message display

   If there is problem on the machine, Maintenance icon will turn on and the error message will be displayed on LCD window together with error code.

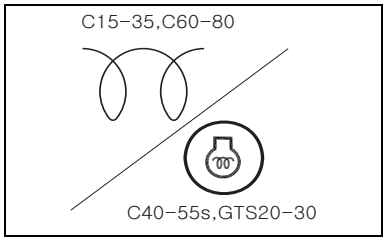
3. Model name display

   The model name set for the machine will be displayed.

4. Time display

   The current time is displayed.
   Time setting can be done by Function switch.

Glow plug Preheat



Indicates glow plugs are in the process of preheating the diesel engine.

When the ignition switch is turned to the "ON" position, a timer is set.

This symbol displays until the timer cycle is completed.

The engine may then be started.

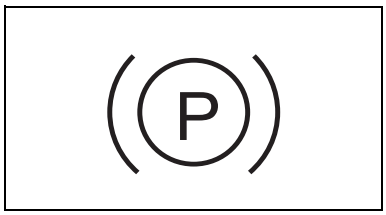
Seat belt

At start-up, this light and a buzzer come on for three seconds to remind the operator to fasten the seat belt. There is no start interlock.

IMPORTANT

You should always have your seat belt securely fastened when operating your lift truck.

Parking brake

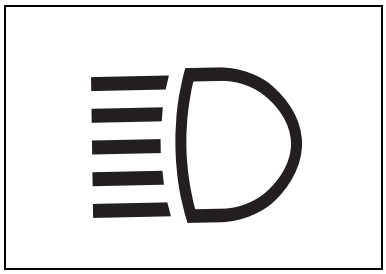


Indicates that the parking brake is engaged.

Anytime the parking brake is on, the truck can't be driven because the transaxle solenoid valves switch is off.

When the parking brake is not set and the key switch is turned to the OFF position, the instrument pod will sound. If the parking brake is set, buzzer and horn will not sound.

Work lamp switch

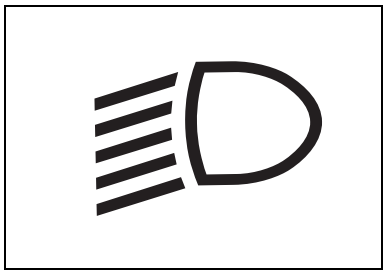


This switch is for the work lamp ON/OFF.

Push the switch to turn the work lamp ON. Push it again to turn the lights OFF.

If the operator turns the key switch OFF, the lights will be turned OFF automatically after 5 minutes.

Rear work lamp switch



This switch is for the rear work lamp ON/OFF.

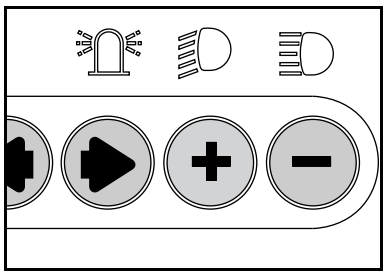
Push the switch to turn the rear work lamp ON. Push it again to turn the lights OFF.

If the operator turns the key switch OFF, the lights will be turned OFF automatically after 5 minutes.

Stroboscope light switch (C15-35)

The stroboscope light is activated using the key switch.
By turning the key switch to the “ON” position, the stroboscope light is automatically activated.
By turning the key switch to the “OFF” position, the stroboscope light is deactivated.

Lights control function (C15-35)

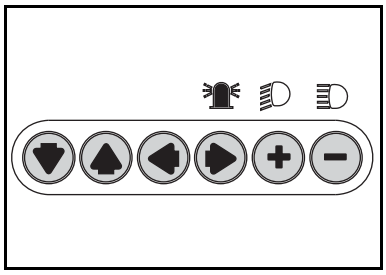


The ON/OFF of Head light and Strobe light of standard machine is operated by switch on POD, and Reverse light is operated by Reverse lever and switch.
If the Key turns ON without engine starting, all the lights will be ON for 5min and then OFF automatically.

When operating the Head light switch, Head light, tail light and License plate light will be ON or OFF at the same time.
The light will be also operated by Function switch.

- Head light: Switch, Key switch
- Reverse light: Switch, Key switch, Reverse lever, Switch & Reverse lever
- Strobe light: Switch, Key switch, Reverse lever, Switch & Reverse lever

Function switch (C15-35)

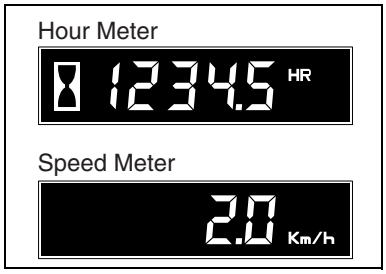


It is composed of 6 parts.
Switch function
- Model selection : Model name is displayed on LCD window.
- Lights control : Selectable
  Work light ON : Switch or Key switch
  Reverse light ON: Tactile switch, Key switch or Reverse switch
- Selectable for the following function : ON or OFF Seat switch, Park ing brake reminder, Engine shut down Seatbelt reminder ON or OFF
- Maintenance period setting
- Operating time display
- The entire signal input ON/OFF can be checked in real time for immediate maintenance.
- The fuel and temp gauge output can be checked in real time.

Date & Time (C60-80)

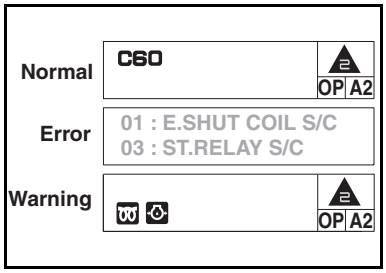
- It displays current date and time.

Hourmeter & Speed (C60-80)



- It displays the accumulated operating hour and traveling speed of truck.
- When the traveling speed is less than 0.5km/h, it displays the accumulated operating hour.
- When the traveling speed is more than 0.5km/h, it displays the traveling speed.

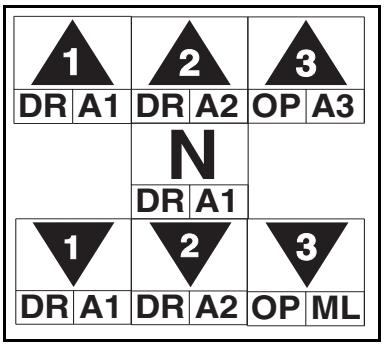
Message display (C60-80)



The model name, POWER selection, travel direction, warning and error message are displayed.
- In normal operating condition: Model name/POWER/Travel direction
- When several messages are simultaneously displayed, it will be displayed in the order of Error, Warning and Normal condition.
- If many error conditions are simultaneously occurred, the priority 2 Errors will be displayed. (The priority means Error number)

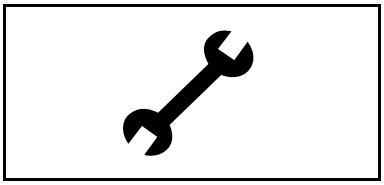
Travel direction icon (C60-80)

- Function: To display the traveling direction or gear selected condition of truck
- Receive the traveling direction data from the T/M controller.
- Receive the gear selected data from the T/M controller.
- When it is in neutral, the arrow and gear icon will not be displayed.



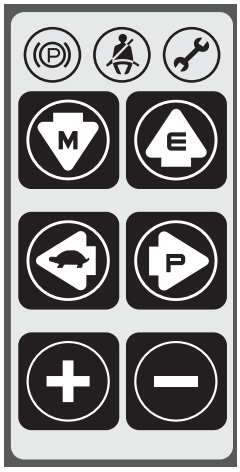
Error icon(C60-80)

- When error occurs this icon is displayed to distinguish the condition easily. When the error message is displayed, this icon is simultaneously displayed.



4) Opreator controls

Control Function (C60-80 only)



1) Mode selection button

- 6 mode selection buttons are located on right side of LCD.
- Each button has specific function, and some have multiple functions.

2) Down arrow button (Mode button)

1. Pressing this button in normal operating condition, it will move to Menu mode.
2. Pressing it in Menu mode, it will move to lower menu.
3. Pressing it in the lowest mode, there will be no change.

3) Up arrow button (Enter button)

1. Pressing this button, it will move to upper menu.
2. It will also take role of "Enter" button when confirming the changed password or main parameters.

4) Left arrow button

1. Pressing this button, it will move to left menu.

5) Right arrow button

1. Pressing this button, it will move to right menu.

6) Plus(+) button

1. Increase the data as set value in the current Menu mode.
2. It performs DR/OP selection function at normal mode.
   It selects DR→OP in turns, whenever pressing the button.
   The data for the selected mode will be transferred to T/M controller.
   Under S/L mode, DR/OP does not change.

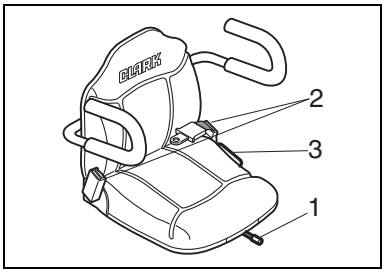
7) Minus(-) button

1. Decrease the data as set value in the current Menu mode.
2. It performs ML/A1/A2 selection function at normal mode.
   It selects ML → A1 → A2 in turns, whenever pressing the button.
   The data for the selected mode will be transferred to T/M controller.
   Under S/L mode, ML/A1/A2 does not change.

Seat adjustment

- The seat adjustment lever (1) is located under the seat. By pushing the lever to the side, the seat can be adjusted so that all controls may be comfortably reached. Once you have adjusted the seat to the desired position, release the lever.

  The back declining adjustment lever(3) is located on the left side of seat cushion. Pull the lever up and adjust the back, release the lever.



Attention

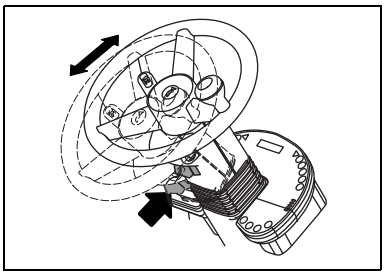
Be sure that the seat locking mechanism has engaged.

Seat belt

- When working with the forklift truck, the seat belt(2) must always be fitted correctly.

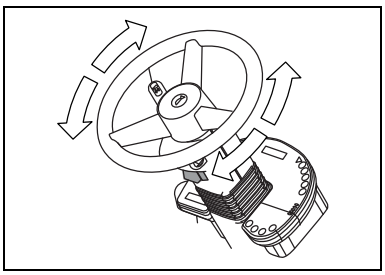
Adjusting the steering column

- The forklift truck is provided with an adjustable steering column.
- Release the locking lever by pushing it up. After adjusting the steering column, it must be relocked in place securely.



Steering System and horn button

- When the engine is running, the steering is assisted by a hydrostatic steering system. This makes for very light steering over the entire turning range.
- The horn button is located in the center hub of the steering handwheel. (or right side of steering column)
- Press it softly to sound the horn.

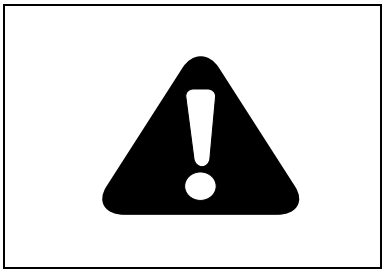


Attention

The power steering system will not work properly when engine is switched off, considerably more force must be applied to the steering handwheel for steering.

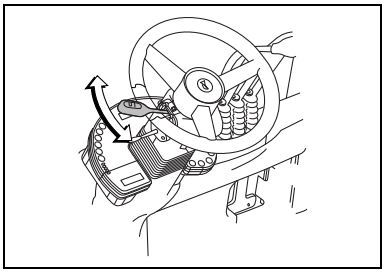
Never drive a forklift truck which has a defect in the steering system.

Observe the safety regulations outlined in "Section 1" of the operating instructions, especially "3. Operation".



Direction Control Lever

- This lever is on the left next to the steering column. When changing the direction of travel, make sure that your lift truck has come to a complete stop before moving the lever to the other position.

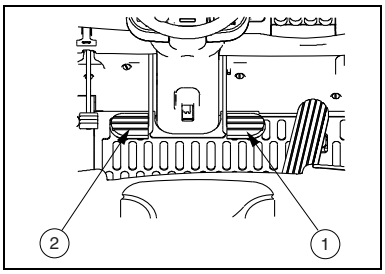


IMPORTANT

For safety reasons, your CLARK forklift truck is fitted with a neutral start switch. The purpose of this is to prevent the engine from being started while the transmission is in gear. Thus the engine may only start when the direction control lever is in the neutral position.

Brake Pedals

1. Inching Pedal(2)



- The left hand brake pedal (inching pedal) has two functions in order to improve handling and efficiency. While pressing the inching pedal the first part of its movement interrupts the power from the engine to the transmission. The level of disengagement is dependent on the movement of the pedal. The last part of the travel applies the brake system.
- In this way you are able to lift aload rapidly with full engine RPM while controlling the driving speed with the inching pedal like a clutch. This is very useful in confined working spaces.
- On ramps or inclines the right hand brake pedal only should be used. When using the inching pedal on slopes the lift truck could move involuntary backwards or forwards.

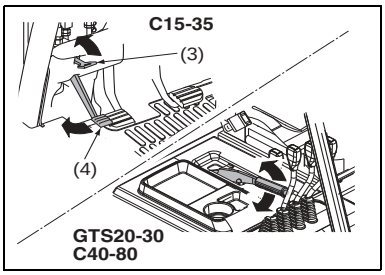
2. Brake Pedal(1)

- Activates brake operation.

Check the parking brake

(C15-C35)

- The parking brake is applied by pressing the pedal(4).
- The parking brake is released by moving release lever(3) upwards.

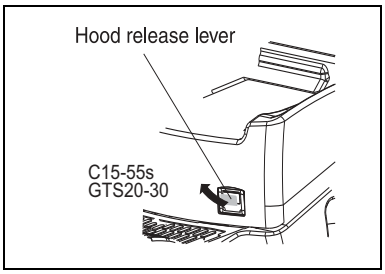


(GTS20-30 / C40-80)

- The brake is applied by pulling the lever uppers.
  It is released by pushing downs.

Opening the hood

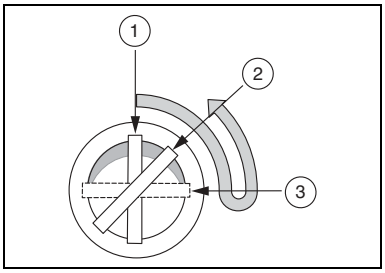
- The hood release lever is located on the left side of hood.(C15-55s/ GTS20-30)
- Pull the lever to release the catch.(C60-80)



Starting the engine

- The starter key lock has 3 positions

  1. Off (Park)
  2. On
  3. Start



Set the direction control lever in position neutral. Turn the starter key to "On" position. The warning lights light up. Turn the key to the "start" position. Release the key immediately when the engine has started, the key switch will return to the "On" position automatically. A restart is only possible, if the key switch is turned to the "off" position, otherwise the start process is locked at a before trying to start again "anti-restart" feature.

Cold start preheating (Diesel only)

Turn the starter key to "On" position.

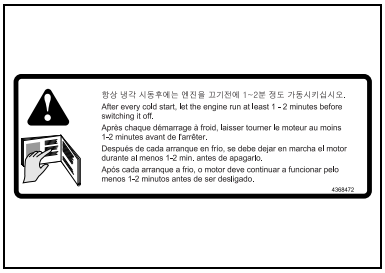
The indicator light will illuminate indicating that an electrical operated glow wire is heating the air in the induction manifold. After the light goes out, you may start the engine.

If the engine fails to start, turn the key switch to "On" and wait for 30 seconds before turning it to start.

Cold start (with LPG engines)

CAUTION

The driver must be clearly informed of the following safety instruction:
"After every cold start, let the engine run at least 1 - 2 minutes before switching it off".



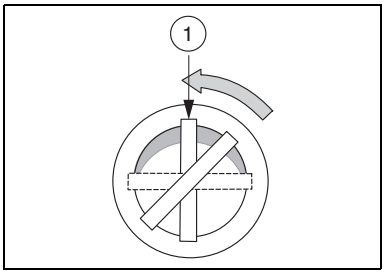
This warms up the evaporator pressure regulator installed in the LPG system sufficiently, preventing liquefied petroleum gas from remaining in the evaporator pressure regulator. A heightened pressure build-up is avoided, which can lead to damage in the LPG system.

IMPORTANT

Also make sure to take the additional instructions concerning the "LPG system" in sections 3 and 4 into consideration.

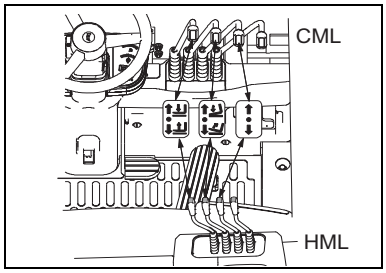
Engine stop

- Run the engine at idle speed briefly before turning the key switch to "Off".
- Turn the starter key to the "Off" position to stop the engine. The engine will be stopped electrically.



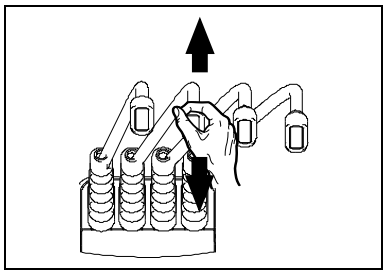
Hydraulic control levers

- The levers of the control valve activate the lift and tilt cylinders as well as any other hydraulic devices which are fitted.
- The knobs on the levers have symbols on them which makes clear their particular function.



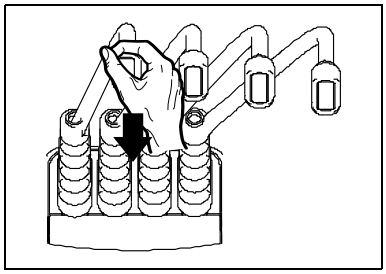
Tilt control lever

- You control the direction in which the upright is tilted with the tilt control lever.
- Pulling the lever backwards, causes the upright to tilt back.
- Pushing the lever forwards, tilts the upright forward.
- You control the tilting speed with the accelerator pedal.
- The travel direction lever is to be brought into the neutral position or the inching pedal is to be depressed.



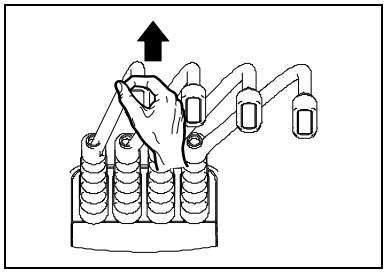
Lift control lever

- Pulling back on the lever causes the fork carrier to be raised.
- The raising speed increases variably, depending on the lever position.
- The travel direction lever is to be brought into the neutral position or the inching pedal is to be depressed.



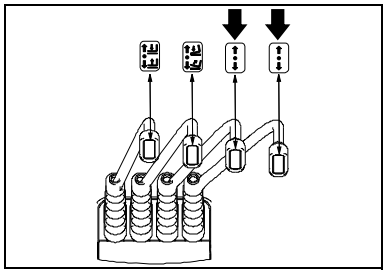
Controlling the speed of lowering

- The fork carriage moves down when you push the lift control lever forward.
- You regulate the speed of lowering by the amount you push the lever forward.
- The maximum speed of lowering is determined by a lowering regulator valve.



Attachments

- Forklift-trucks with hydraulic attachments are provided with one or two further control levers. These are fitted on the right hand side of the lift and tilt control levers. The function of these levers depends on the attachment, and the driver should be trained in the operation of these levers and the relevant attachment by the customer service.
- Please check the additional plate indicating the load carrying capacity.
- Here, you will find the maximum load capacity of your forklift-truck when fitted with the respective attachment.
- Read the operating instructions for the attachment carefully, and make yourself completely familiar with all hydraulic functions before carrying a load. Learn how to operate the hydraulics smoothly and without jerks.

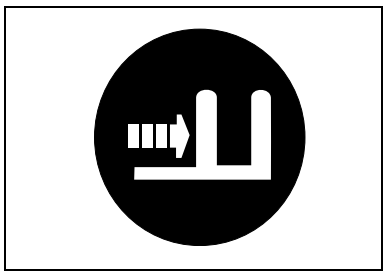


Attachment - Control lever

- Actuating the corresponding lever causes the working speed to be increased automatically through the accelerator pedal position.
- The direction lever is to be brought into the neutral position or the inching pedal is to be depressed.

Side shifter (special equipment)

- With a side shifter, with two fork arms fitted, you can pick up a load (see carrying force diagram), carry it and shift it horizontally to the left and to the right.
- This makes it possible to pick up and set down the load precisely. Repeated shunting can thus be avoided.
- Read the operating and maintenance instructions for the add-on unit carefully and make sure you are completely familiar with all hydraulic functions before transporting a load. Learn to use the hydraulics in a gentle and jolt-free manner.



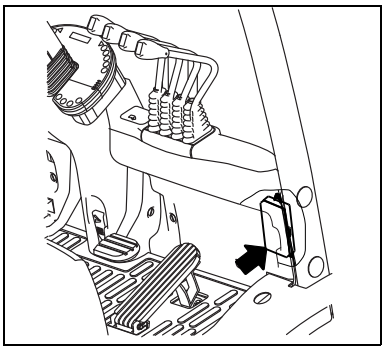
Controlling the side shifter

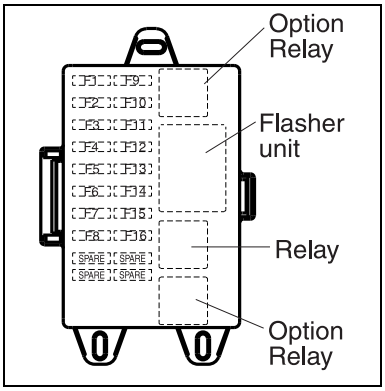
- When the side shifter control lever is pushed forwards, the side shifter moves to the left.
- When it is pulled backwards, the side shifter moves to the right.

Fuses

- The fuses are located at the inside of cowl cover, on the right when looking forwards.
- The fuse ratings are clearly visible on the fuses

C15-35 (DSL)		
F1	Pod battery+	10 Amp
F2	Pod battery+	10 Amp
F3	Pod battery+	10 Amp
F4	Pod battery+	10 Amp
F5	Stop switch	10 Amp
F6	Turn Signal light	10 Amp
F7	Horn	10 Amp
F8	Room lamp / Cassette	10 Amp
F9	Sol relay	30 Amp
F10	Park switch	10 Amp
F11	Ignition	15 Amp
F12	Directional switch	10 Amp
F13	Push button	5 Amp
F14	Optional	15 Amp
F15	Heater	10 Amp
F16	Wiper motor	15 Amp
	Spare	10 Amp
	Spare	10 Amp
	Spare	30 Amp
	Spare	15 Amp





(C15-35)

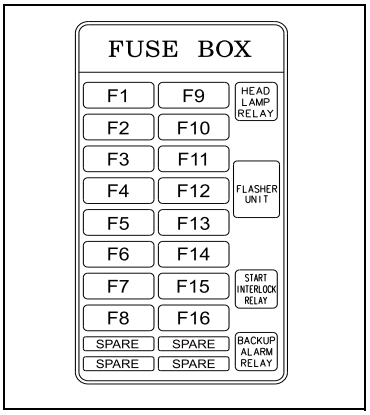
C20-35 (LPG/GAS)		
F1	Pod battery+	10(20) Amp
F2	Pod battery+	10(20) Amp
F3	Pod battery+(Turn Signal light)	10 Amp
F4	Pod battery+(Horn)	10 Amp
F5	Stop switch(SECM Power)	10(20) Amp
F6	Turn Signal light(SECM DIST)	10(20) Amp
F7	Push button(SECM OPT1)	5(20) Amp
F8	Room lamp / Cassette(SECM OPT2)	10(20) Amp
F9	Ignition(Fuel shut)	10(15) Amp
F10	Park(Room lamp / Stop / Park)	10 Amp
F11	Horn(Ignition)	10 Amp
F12	Directional switch	10 Amp
F13	Fuel shut(Push button)	10(5) Amp
F14	Heater(Optional)	10(15) Amp
F15	Wiper motor(Heater)	15(10) Amp
F16	Optional(Wiper motor)	15 Amp
	Spare	10(20) Amp
	Spare	10 Amp
	Spare	10 Amp
	Spare	15 Amp

＊( )：Specification for the EPA Tier2 engine truck.

C15-20s (LPG)		
F1	Pod battery+	10(20) Amp
F2	Pod battery+	10(20) Amp
F3	Pod battery+(Turn Signal light)	10 Amp
F4	Pod battery+(Horn)	10 Amp
F5	Stop switch(SECM Power)	10(20) Amp
F6	Turn Signal light(SECM DIST)	10(20) Amp
F7	Horn(SECM OPT1)	10(20) Amp
F8	Room lamp / Cassette(SECM OPT2)	10(20) Amp
F9	Park switch(Fuel shut)	10(15) Amp
F10	Fuel shut(Room lamp / Stop / Park)	10 Amp
F11	Ignition	15(10) Amp
F12	Directional switch	10 Amp
F13	Push button	5 Amp
F14	Optional	15 Amp
F15	Heater	10 Amp
F16	Wiper motor	15 Amp
	Spare	10(20) Amp
	Spare	10 Amp
	Spare	10 Amp
	Spare	15 Amp

＊( )：Specification for the EPA Tier2 engine truck.

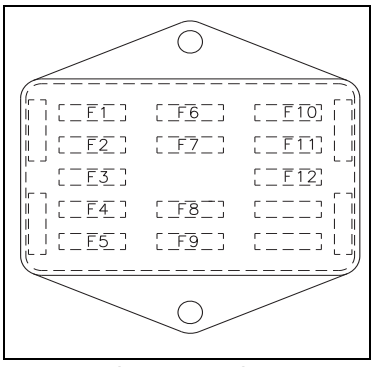
C60-80 (DSL)		
F1	ECU Batt+	10 Amp
F2	Brake / Strobe	10 Amp
F3	Horn	10 Amp
F4	Turu Signal light	10 Amp
F5	Head Lamp	15 Amp
F6	Park / Fuel Shut	10 Amp
F7	Cassette	10 Amp
F8	Optional	10 Amp
F9	Directional switch	10 Amp
F10	Back Up alram	10 Amp
F11	ECU Ignition	10 Amp
F12	Display	10 Amp
F13	Head Lamp switch	10 Amp
F14	Heater	10 Amp
F15	Wiper motor	15 Amp
F16	Power jack	15 Amp
	Spare	10 Amp
	Spare	10 Amp
	Spare	15 Amp
	Spare	15 Amp



(C60-80)

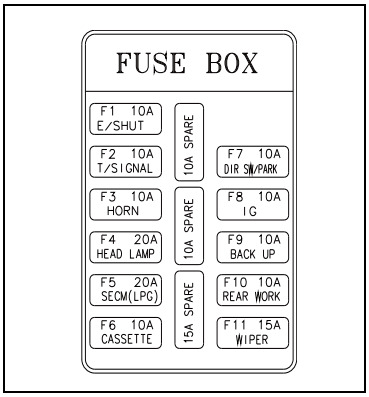
C60-75 (LPG)		
F1	Cont / Seat / Park	10 Amp
F2	Brake / Strobe	10 Amp
F3	Horn	10 Amp
F4	Turn Signal light	10 Amp
F5	Head Lamp	20 Amp
F6	Cassette	10 Amp
F7	SECM Power	10 Amp
F8	SECM Dist	20 Amp
F9	Directional switch	10 Amp
F10	Back Up	10 Amp
F11	TM Cont+	10 Amp
F12	Display	10 Amp
F13	Head Lamp switch	10 Amp
F14	Heater	10 Amp
F15	Wiper motor	15 Amp
F16	Power jack	15 Amp
	Spare	10 Amp
	Spare	10 Amp
	Spare	15 Amp
	Spare	20 Amp

GTS20-30 (DSL/LPG)		
F1	Rear work lamp	10 Amp
F2	Turn Signal light, Back-up alram	10 Amp
F3	Head lamp	15 Amp
F4	Horn	10 Amp
F5	Brake / Strobe	10 Amp
F6	Cassette	15 Amp
F7	SECM (1)	20 Amp
F8	SECM (2)	15 Amp
F9	Ignition	15 Amp
F10	Directional switch	10 Amp
F11	Wiper motor	15 Amp
F12	Optional	10 Amp



(GTS20-30)

C40-55s (DSL/LPG)		
F1	Engine shut down (option)	10 A
F2	Turn Signal ligh	10 A
F3	Horn	10 A
F4	Head Lamp	20 A
F5	SECM (LPG)	20 A
F6	Cassette	10 A
F7	Directional switch/ park	10 A
F8	Ignition	10 A
F9	Back Up alram	10 A
F10	Rear work lamp	10 A
F11	Wiper motor	15 A
	Spare	15 A
	Spare	10 A
	Spare	10 A



(C40-55s)

Attention

Never replace a faulty fuse with one of a higher rating. If a fuse persistently fails, there is a fault in the electrical system. You can contact your CLARK dealer with confidence to have faults rectified.

Forklift with two-way radio or mobile phone

- For mobile phones and two-way radios the usual regulations, as in the automotive sector, apply.

High-frequency transmission energy emitted by these and similar devices may cause malfunctions of the vehicle electronics.When installing such equipment, please contact your CLARK dealer for advice and assistance.

European conformity symbol

- Your forklift truck satisfies the EU directives if the European conformity symbol is affixed (see fig.) and you have a conformity certificate of the manufacturer.
- If this symbol is absent, or you donot have the certificate, you must not place the forklift truck in service.

Certificate of Agreement / Declaration of Conformity

- With the certificate of agreement /declaration of conformity, the manufacturer, or his authorised representative in the European Community, certifies that the machine released for operations conforms with all relevant basic safety and health requirements.

USA Conformity Symbol

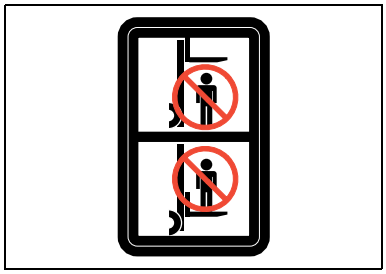
- Your forklift truck satisfies the UL directives if the USA conformity symbol is affixed (see fig.) and you have a conformity certificate of the manufacturer.
- If this symbol is absent, or you do not have the certificate, you may not place the forklift truck in service.

Warning plates

- Your forklift truck is fitted with warning plates. Make sure that these plates are always clearly visible.
- Defective, missing or illegible plates must be replaced immediately.

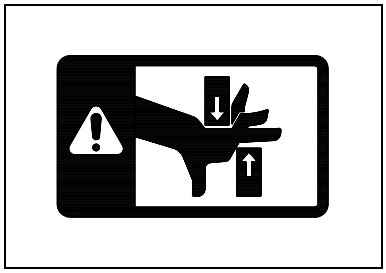
Remaining in area where load is lifted is prohibited

- This warning plate must be fitted on the both sides on the upright and has 2 meanings:
  1. Persons must not stand or walk beneath raised forks (including you as the driver).
  2. Persons may not be lifted or transported with the forklift truck.



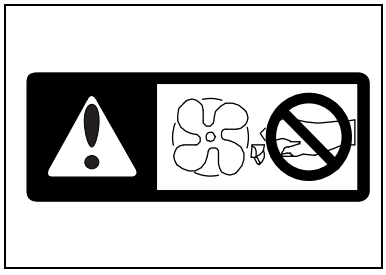
Crushing and shearing points

This plate is fitted on the upright. It warns of the risk of injury which exists between crossbeams, chains, rope pulleys, fork carriage and other parts of the upright. Do not climb on the upright and do not reach inside. Be aware that you will be injured if any part of your body gets caught between moving parts of the upright.



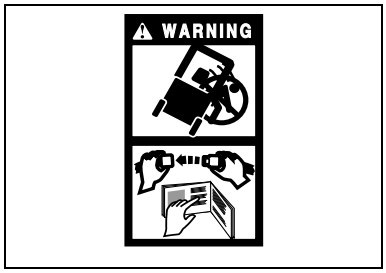
Cooling-air blower

- This warning plate is fitted on the air deflector of the radiator.
- Make sure that you never get too near a rotating fan with your hands, fingers, arms or clothing. Do not stand in the blowing direction of a rotating fan. At excessive speeds, the vanes of a fan can break off and be thrown out of the engine compartment.



Warning plate-safety belt

1. If the forklift should tip over, do not jump down from the forklift truck, it could kill you. You are safest if you stay in your driving position and tip over with the truck.
2. When working with the fork lift truck, the seat belt must always be fitted correctly.
3. Read the operating instructions if you are not conversant with operation of the forklift truck.



Lifting with the crane

- Do not use the overhead guard to lift the forklift truck. If you need lifting advice, contact the authorized CLARK dealer in your area.
- Lifting shall be done by trained personnel.
- Lay the ropes so that no add-on parts are placed under load or damaged. Regulations state that suitable bracing struts must be used with the use of 4-rope lifting tackle. The bracing struts must be wider than the overall width of the forklift truck. For dimensions of the forklift truck see the technical data sheet.
- It must also be ensured that the bracing struts and the 4-rope lifting tackle have a sufficient load-bearing capacity.
- The loading weight is specified on the name plate.

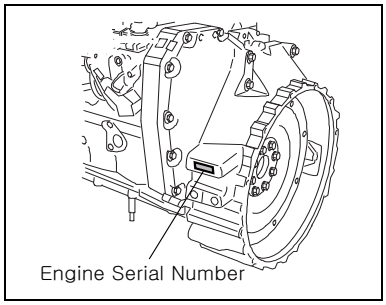
Hot surface

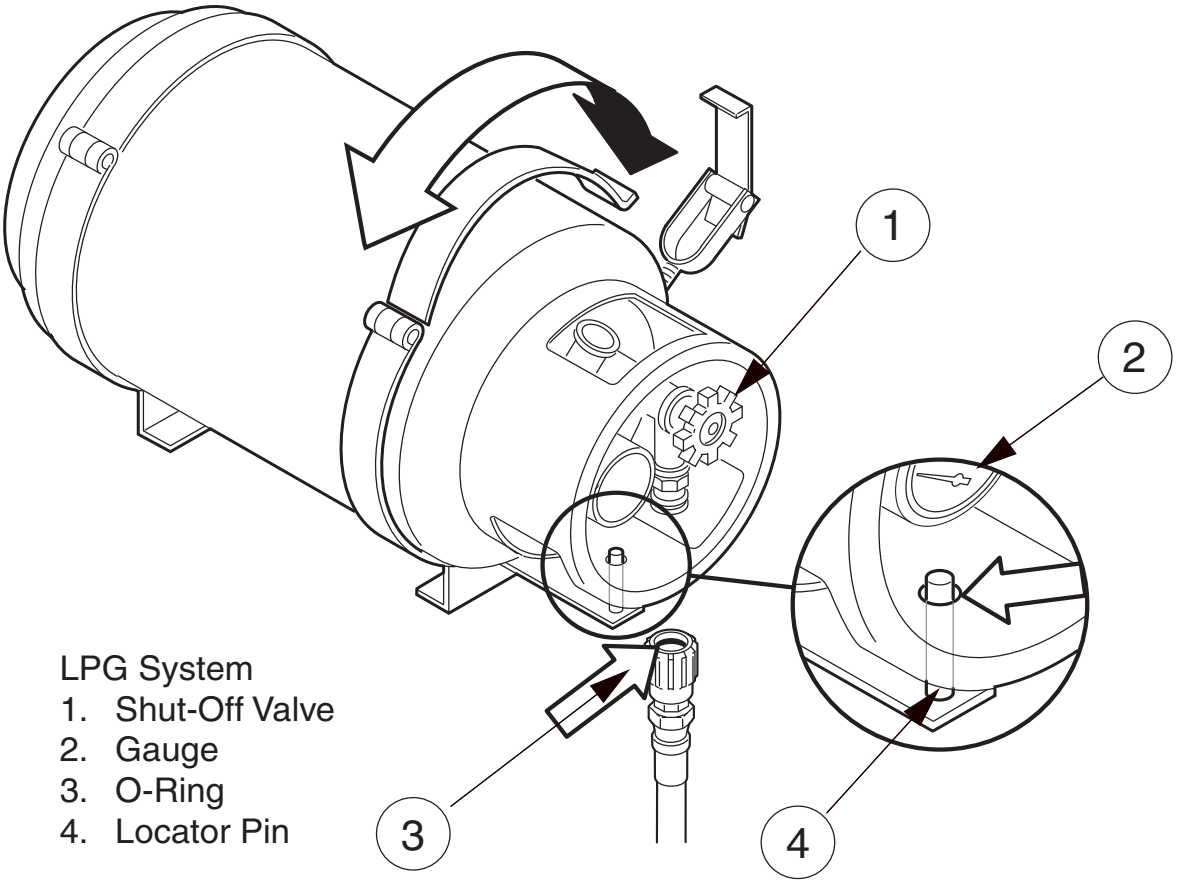
- The warning plates are attached to the engine, the tail pipe when vertical exhaust system is installed and the heater when cap is installed.
- The surface of decal is very hot by the heat generated during work.
- If this surface is touched, serious burns may result.

Diesel Engine Serial Number (C40-55s)

The number engraved on the engine name plate is not the engine serial number.
Limited to this equipment, the engine serial number is engraved at the top of the flywheel housing.

F4GE0454A	S40	XXXXXX
(Engine Type)	(Family Name)	(Engine Serial Number)





LPG System
1. Shut-Off Valve
2. Gauge
3. O-Ring
4. Locator Pin

LPG Fuel System

If your lift truck uses liquefied petroleum gas (LPG), the fuel is stored in a tank mounted on the truck. A shut-off valve, a safety check valve, a relief valve, and a pressure gauge are attached to the tank.

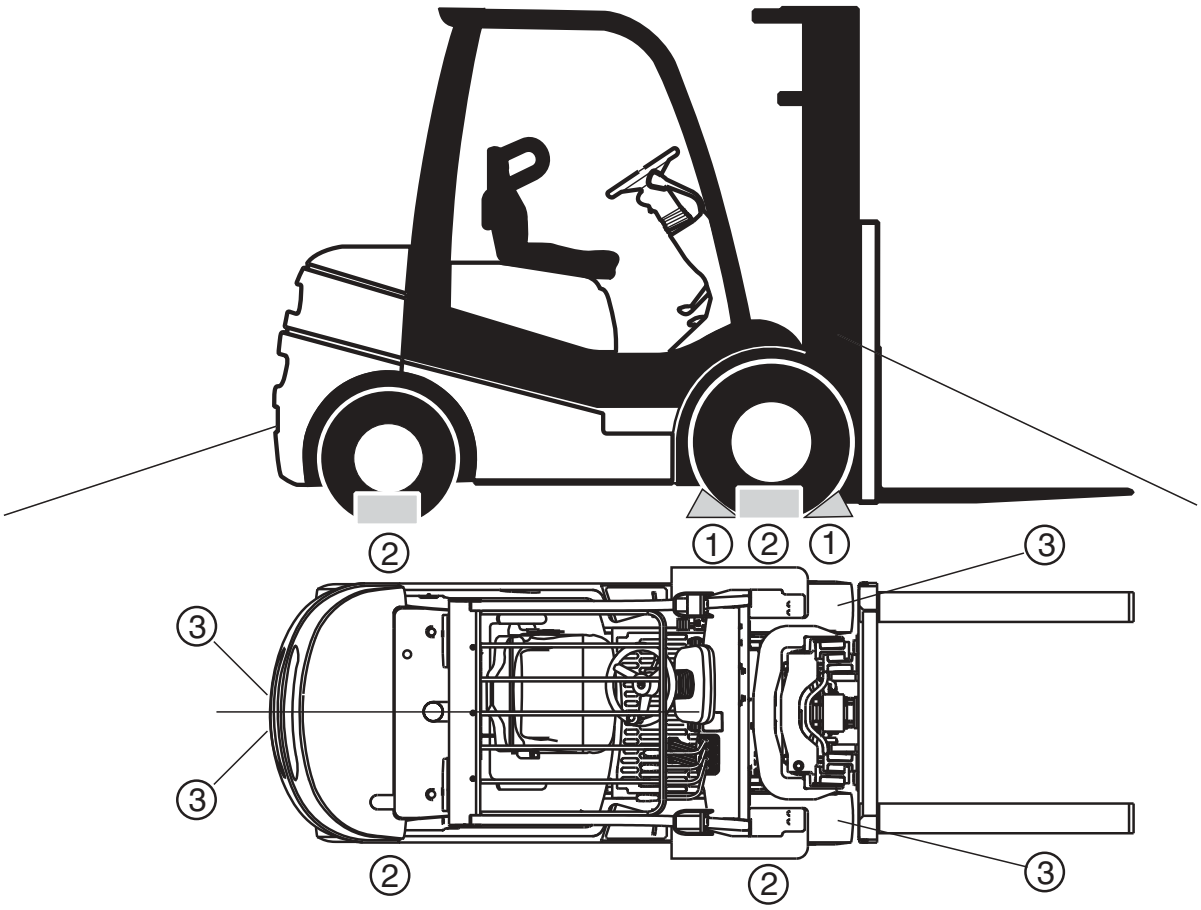
You manually operate the shut-off valve to control the flow of fuel from the tank. You must close this valve when the engine is not running. Close this valve by hand, only to a firm tightness. Do not over-tighten.

When you open the shut-off valve before starting the engine, turn the handle slowly; otherwise, the check valve will block fuel-flow for a two to three minute period.

The O-Ring on the coupling must be kept in good condition. The tank must lock onto the locator pin before the fastener is secured.

NOTE

There are also tanks without gauge.



Relocating(optional)

The forklift truck can be loaded onto a low loader or train wagon for transportation. In this respect, pay attention to the statutory regulations which apply in your country. For dimensions and loading weight please refer to the name plate and technical data sheet.

CAUTION

Use only lashing chains or lashing straps which have sufficient load-bearing capacity in accordance with the technical requirements of the corresponding valid standards.

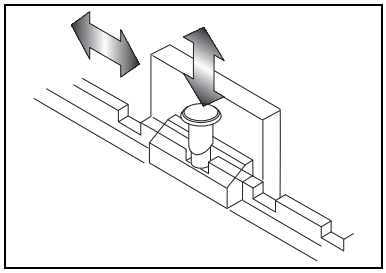
Load onto the forklift as follows.

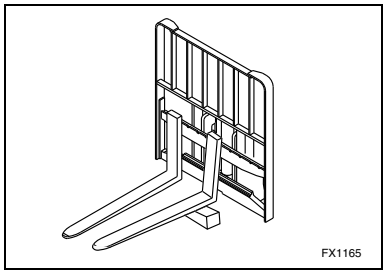
- Apply the parking brake.
- To fix lengthwise, install the wooden props (1) at the front and rear on both sides of the front wheels.
- To fix sideways, install the wooden props (2) at the sides of all four wheels.
- Fasten the lifting chains (3) to the front and rear of the forklift. (in the event that lifting hooks are installed)

You can attach the chain to the front lifting hook (if available) and the rear tow coupling. Position the chains diagonally, then install the relevant lifting chains at the front and rear of the forklift. When coupling the forklift with a lifting strap, the strap may be installed in such a way that it protrudes from the upright frame.

Transportation

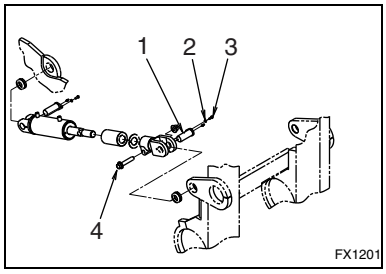
- When a truck can't be loaded in a container because of a high upright, the upright shall be disassembled.
- Disassembling method is following below.





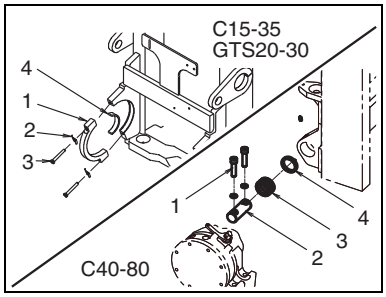
Tilt cylinder pin

NO	Part name	Qty	Remarks
1	Lock pin	2	
2	Washer –spring	2	
3	Bolt	2	
4	Bolt	2	170~190N·m



Upright trunnion bracket

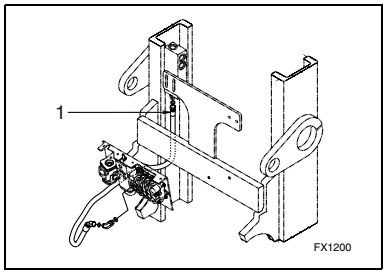
NO	Part name	Model	Qty	Remarks
1	Bracket	C15-35/GTS20-30	2	
	Bolt	C40-80	4	170~190N·m
2	Keeper	C15-35/GTS20-30	4	
	Pin	C40-80	2	
3	Bolt	C15-35/GTS20-30	4	75~80N·m
	Bushing	C40-80	2	
4	Bushing-half	C15-35/GTS20-30	2	
	Spacer	C60-80	2	



Main hose & low pressure hose

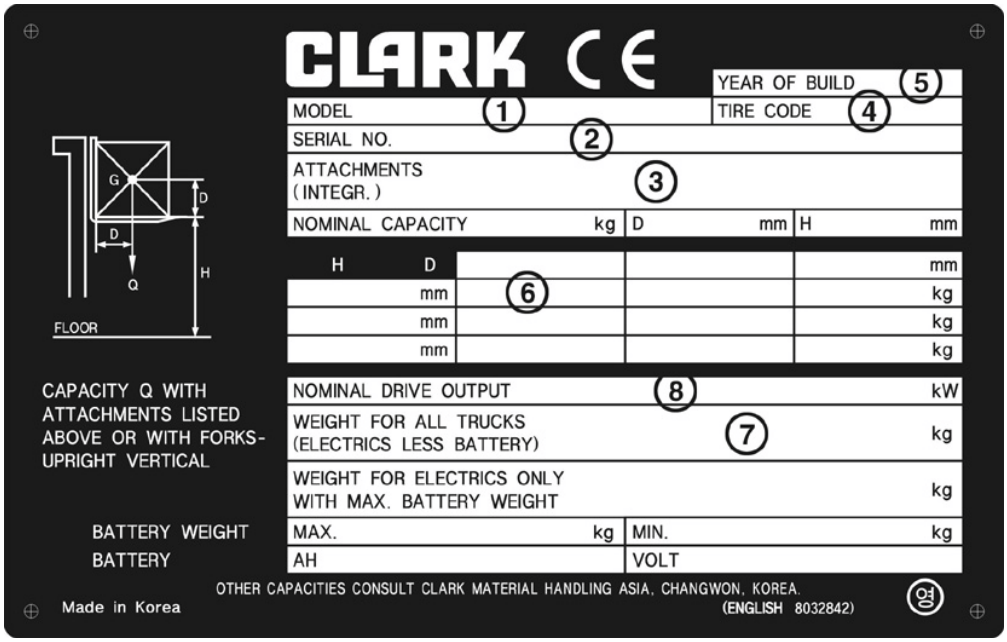
NO	Part name	Qty	Remarks
1	Hose assy	1	69N·m

Assembling is in reverse order to disassembling.



Name Plate

What you should know about your forklift-truck :



1. The location of the model name.
2. The location of the serial number.
3. The description of the additional attachments (if any) . Take note of the additional capacity load plate.
4. Which tire type (dimension, ply-rating) to be used.
   The type of tire (pneumatic/elastic) influences the static stability of the forklift-truck.
   For this reason, only the tire types approved by the manufacturer may be used. Column 4 shows the tire types which are approved by the manufacturer. Tire code :
   E = cushion L = pneumatic S = super elastic
   Z = twin tires R = radial
5. The year of build.
6. The capacity of the forklift-truck with forks.
   In this space the capacity, the load center and the lift height are stated. The specified maximum values must not be exceeded.

Attention

For additional attachments there must be mounted an additional load capacity plate beside the name plate, which gives the permissible load capacity of your forklift-truck for a CENTRAL LOAD in conjunction with additional attachments. These load capacities must not be exceeded.

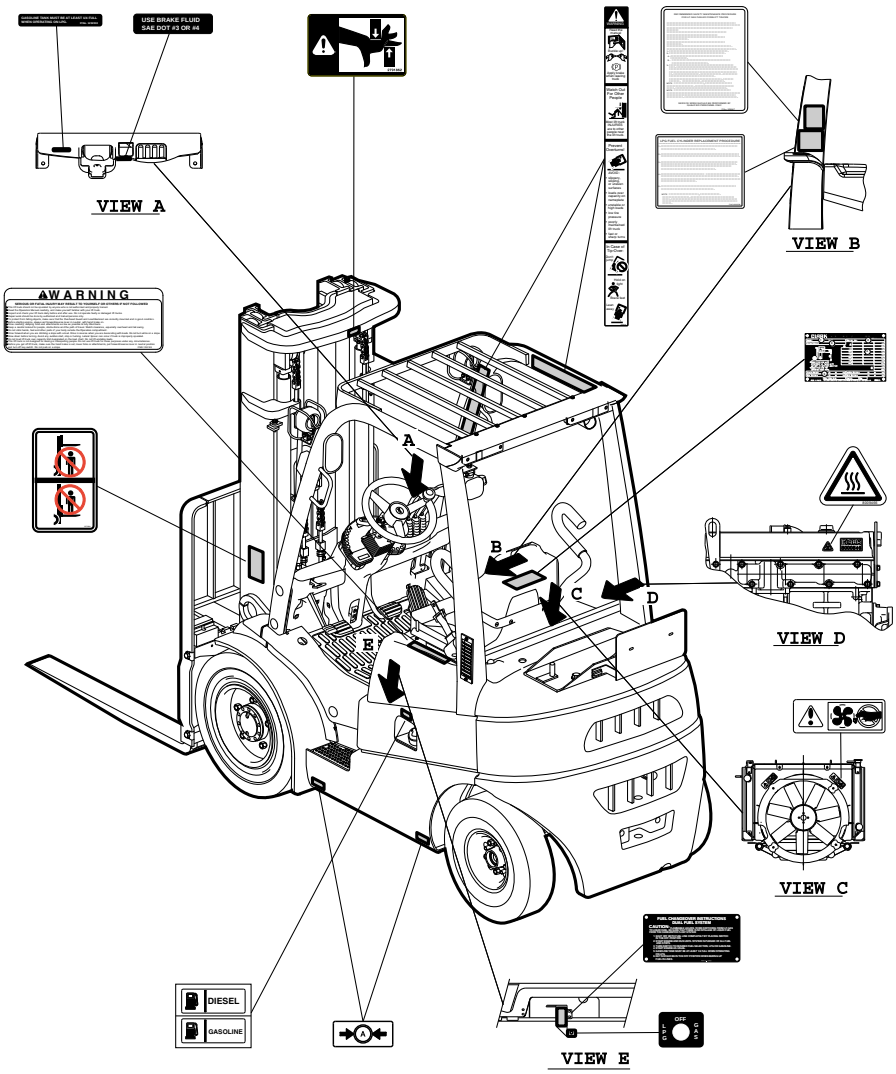
The subsequent mounting (not supplied by the manufacturer) of one or more additional attachments requires immediate mounting of a new capacity plate for the combination forklift-truck / additional attachments. The customer must obtain this from the manufacturer or local dealer.

7. The forklift-truck weight less load.
8. Where the nominal drive output is specified in "kW".

CAUTION

A damaged name plate or capacity plate must to be replaced.

Attached position of Safety decals



CAUTION

Do not operate a forklift truck with damaged or missing decals or data plates.
Replace them immediately. Contact your local CLARK dealer to acquire new decals or data plates.

3. Daily inspection

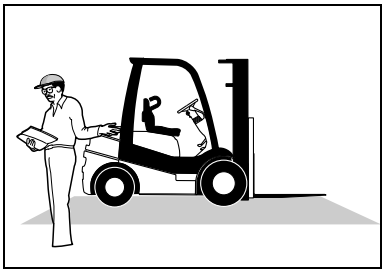
- Before starting work, you should convince yourself that the forklift-truck is in an operationally safe state. Carry out this inspection by the following list.

Always check that your forklift-truck is operationally safe. Never drive a forklift-truck you have not check.

1) Visual Inspection

Walk around your forklift truck and look for any obvious signs of damage, leaks and dirt.

- The degree to which cleaning is required depends on the operating environment of the forklift truck. For operation in areas with large amounts of dust or paper, thorough cleaning is required after each operating shift, or several times a day. The same applies to operation with cement and chemicals. See also section 4 for maintenance and service requirements.

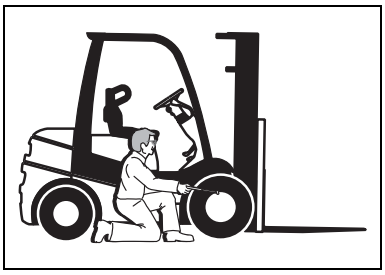


Checking the LPG system for leaks and damage

- Check the system for leaks (smell of gas).
  Always carry out a leak test after changing LPG tank, see also page 4.3-4.4.
  Check the gas hoses for damage.

Wheels and tires

- Check the
  - state of the drive wheels, the steer wheels and all tires.
  - tight of wheel nuts.
  - pressure of pneumatic tires from a position facing the tread of the tire, not from the side.
    Use a long handled gauge to keep your body the side.



See section "Technical Data" for tightening torques and tire pressure.

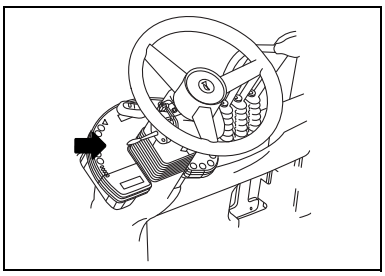
Attention!

A wrong tire pressure influences the stability of the forklift-truck.

If you change a tire, always change both tires on the axle.

Indicator lights

- Check that all lights are functioning and indicate normal truck operation as described in Section 2, "Know your Forklift Truck" in this manual.



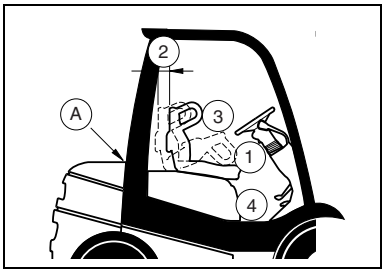
2) Test in the engine interior

Engine cooling system

WARNING

Check the coolant level directly in the radiator (A) and at the overflow canister (B).

- To check the engine coolant level, the hood to the engine chamber and the radiator cover must be opened.



Open the engine hood as follows :

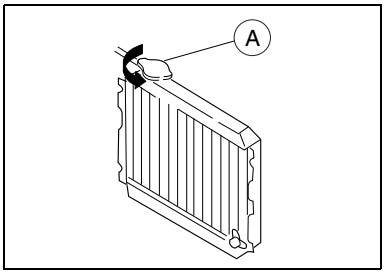
1. Release the steering column lock and move the steering column forwards.
2. Push the driver's seat forwards.
3. Fold the seat back and lock.
4. Release hood latch and slowly open the hood backwards.

A) Checks in the radiator

CAUTION

Do not open the cap of the radiator when the engine is hot. Danger of scalding. The cooling system is pressurised, see also page 4.6.

- Remove the radiator cap. The coolant should come up to the lower edge of the filler neck. If the fluid level is lower than this, add coolant, see page 6.1. Check the cooling system for leaks.
- Check the cooling system for leaks



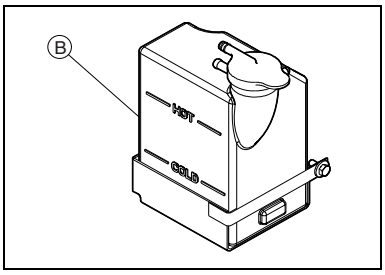
B) Checks on the overflow canister

When the engine is cold, the engine coolant must come up to the "COLD" marking.

If required, add coolant - see page 6.1 and check the cooling system for leaks.

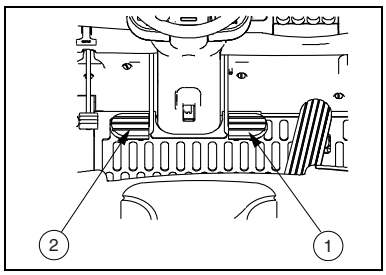
Carry out additional checks on the engine interior in accordance with page 3.1.

After the checks, close the hood and radiator cover.



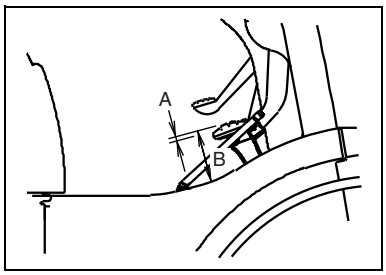
Check the service brake (1)

1. Check the pedal play
   Depress the pedal by hand until resistance from the brake master cylinder can be felt. The distance travelled should be 3-6 mm .
2. Checking the operation of the brakes.
   Depress the brake pedal by foot to check whether firm resistance can be felt. The pedal must not feel spongy or give. If it does, the forklift-truck must not be used under any circumstances. Instead, you should arrange for the brake system to be serviced immediatly. The pedal pad should also be replaced if it no longer provides a good grip.



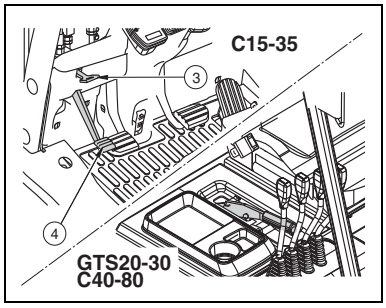
Check the inching function (2)

1. Check the pedal play
   Depress the pedal by hand until resistance can be felt. The distance traveled should be 3-6 mm(A).
2. Check operation
   Fully depress the inching pedal (the brake will be actuated as well). With the pedal in this position, engage forward or reverse gear. The forklift-truck must not move even at maximum engine revolutions, but the upright must remain fully operational.

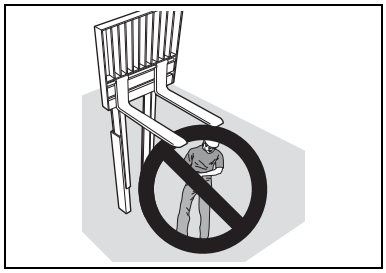


Check the parking brake

- Check the function of the parking brake. Release(3), then reapply(4).(C15-C35)
- Check the function of the parking brake. Pushing downs, then pulling the lever uppers(C40-80 / GTS20-30)
- To check parking brake holding capability, park the lift truck on a grade and apply the parking barke.
- The parking brake should hold a lift truck with rated load on a 15% grade.

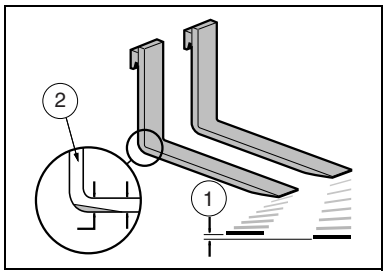


Checking the uprights/hydraulic system function



- Check for obvious signs of damage, leaks and dirt. If necessary, carry out maintenance and service work in accordance with section 4.
- The uprights should be raised to maximum height at least once a week, in order to check that the hoist function is fully operational. In addition, this allows full lubrication of the lift piston rod and the lift cylinder wall.
- Observe the safety regulations outlined in section 1.

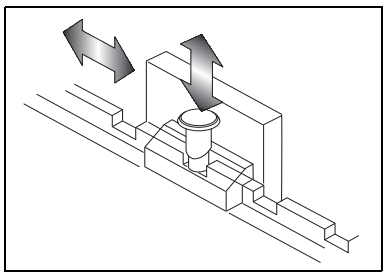
Checking the forks of the fork carriage



- The forks should be checked using the following list.
- They must be replaced immediatelyif the given specifications are not met

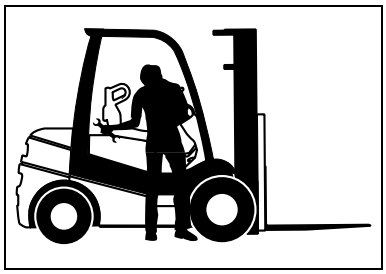
1. The difference in height between the tips of the two forks must not be more than 6 mm.
2. The blades of the forks must not be worn down by more than 10% at the heel and the forks must not be bent.

Checking the forks are locked



- Check whether the device, which locks the forks into position, has engaged properly, so that the forks cannot slide.
- Check whether the forks are correctly positioned in the fork carriage and cannot unhinge themselves. Check whether the lateral fork limit stop is tightened securely.

Operational safety of the forklift-truck



- Do not start using any forklift-truck, which is not in a safe operational state.
- Forklift-trucks should only be repaired by competent and authorized persons.

Battery

- Check the battery and corrossion ofthe electrodes. Clean up the electrodes and apply small amount of grease. Cap them with protective cover.
- Check the battery acid level and battery charge. If required, let the battery refill with distilled water or charge it up from a authorized persons.

Option :

- Check indicator color on top of the battery.

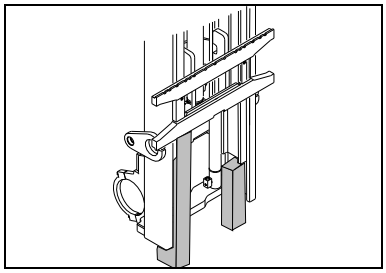
- Indicator reading:
  Green : Normal
  Black : Recharging required
  White : Insufficient electrolyte

The indicator color may read "Insufficient electrolyte", even when the battery is normal. In this case, if you shake the battery, the color will be change to "Normal ".

4. Maintenance and Care

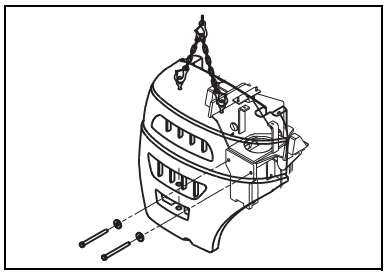
1) Safety tips

Safety tips



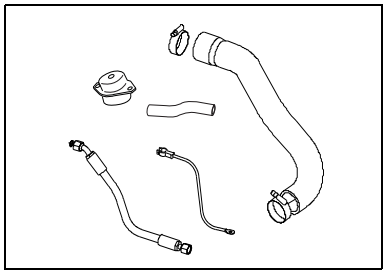
- When working under a raised fork carriage, never forget to secure the fork carriage and the inner rail (both inner rails on Triple stage upright) with suitably dimensioned wooden beams and chains. The forklift truck can be secured against inadvertently moving by applying the parking brake and by chocking the wheels.

Counterweight



- If the counterweight has to be removed for repair work, you must take its weight with a crane before undoing the mounting bolts. The counterweight is only held on by the mounting bolts and would otherwise fall off when these were undone. This could lead to severe injuries at least.

Hoses, cables and rubber parts

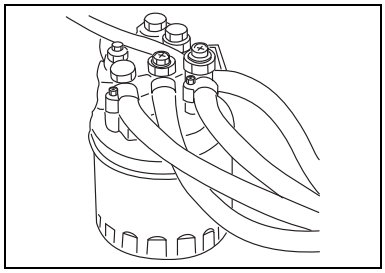


- Hoses, cables and rubber parts succumb to a natural process of ageing, which is dependent on outside influences (e.g., temperature, environmental factors, etc.).
- At every maintenance, check all hoses, cables and rubber parts for damage and ageing.
- Replace all defective parts.

Disposing of lubricants, filters and batteries

- Used parts and lubricants which arise during repair work must be stored safely until they can be disposed of in accordance with the regulations. In this respect, follow the regulations applicable in your country.

Changing the fuel filter - diesel engine



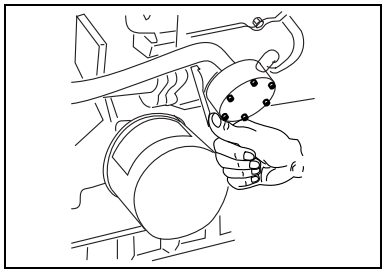
- Replace the fuel filter at following proce-dure:
  - Clean the filter housing.
  - Unscrew the filter cartridge and absorb the flow out diesel.
  - Remove the filter element.
  - Lightly oil the seal of the new filter cartridge.
    Screw on the filter cartridge by hand.
  - Bleed the fuel system.

Check the fuel system for leaks during a test run of the engine.

CAUTION

The fuel in the injection pipes is at high pressure.
Fuel spraying out can penetrate and damage the skin.
Do not use your fingers to check whether fuel is emerging at the injection pipes.

Bleeding the fuel system



- Loosen the bleed screw on the fuel filter and pump fuel (using the hand pump) until fuel emerges without bubbles.
- Close the bleed screw.

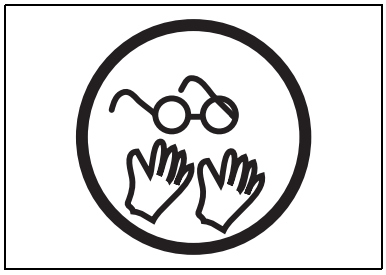
Warning for LPG Operation

CAUTION

Forklift trucks with LPG drive may only be serviced and operated in locations which are sufficiently ventilated.

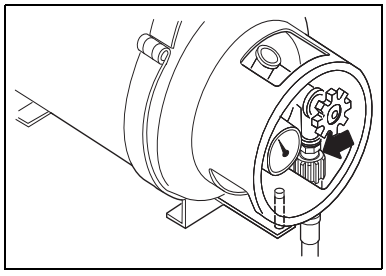
- Liquefied petroleum gas (LPG) consists essentially of butane and propane. The ratio in which these two gases are present differs from country to country. Propane and butane belong to the group of easily inflammable gases. Liquefied petroleum gas is highly explosive in mixtures with air or oxygen. For this reason do not smoke and do not use an open flame when filling LPG tanks, changing LPG tank or working on the fuel gas system. Liquefied petroleum gas differs from petrol as it becomes gaseous immediately it draws heat from it´s surroundings and can immediately fill small spaces with gas.

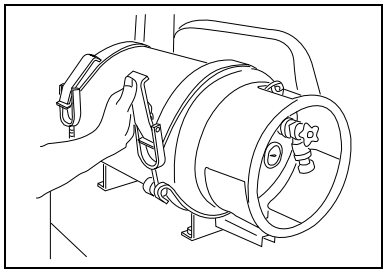
- Hence you must be very careful. Liquefied petroleum gas produces frostbite on the naked skin. There is an increased risk of explosion in rooms filled with the gas. For these reasons you should therefore never change the LPG tank in closed rooms and garages. Since the gas is heavier than air, make sure that there are no pits or drains in the vicinity. When changing LPG tanks, wear gloves and work in accordance with the following instructions.



Changing the LPG-tank

1. Close the shut-off valve of the LPG tank to be changed by turning the valve as far as possible clockwise. Let the engine run until it stops of its own accord. By doing this you will avoid the risk of liquefied gas spraying out from the hose (danger of frostbite) when you loosen the union.
2. Turn the ignition off.
3. Separate the hose from the LPG tank (left hand thread). Close the connection on the LPG-tank with the cap nut.
4. Slacken the strap holding the LPG tank and take away the empty LPG tank.
5. Replace the empty LPG tank with a full one. Check that the unions at the end of the hose and on the LPG tank are of the same type. Take care that you place the LPG tank in the correct position. The union for the hose must face downwards.
6. Secure the LPG tank strap and connect the hose.
7. Open the shut-off valve of the LPG tank slowly by turning it anti-clockwise as far as it will go. Check the LPG system for tightness (see next page).





2) Maintenance

Maintenance of the LPG system

- In order to be able to evaluate whether a liquefied petroleum gas system is in an operationally safe state, it is necessary to have had a proper course of training in these systems.
- In addition it is necessary to have a good knowledge of the relevant official Work Protection Regulation and Accident Prevention Regulations. For this reason, LPG units may only be repaired and maintained by trained personnel. Contact your CLARK dealer when maintenance or repairs need to be carry out.

- The complete liquified petroleum gas system must be checked regularly (weekly) to see that it is in an operationally safe state.
- Special attention must be paid to checking that the system is not leaking. Check hoses, connections and assembly groups with soapy water, nekal solution or a suitable leak indicator spray.
- Use of open flames, smoking and use of hot objects is strictly prohibited.

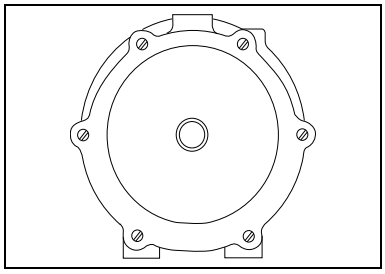
Extraordinary inspection of the LPG system

- Observe the statutory regulations of your country.
- The entire liquid petroleum gas system must be checked regularly to ensure that is in full and safe working order in accordance with the national work protection and accident prevention regulations.
- This inspection must be carried out by a qualified specialist.

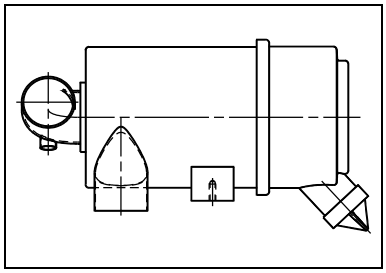
- The qualified specialist must be in a position to give his report and appraisal objectively, from a point of view of safety, and uninfluenced by operating and economic arguments.
- This specialist should write out a test certificate as proof.
  This test certificate should be included in the inspection log book.

Maintaining LPG filter

- Every 1000 operational hours, or once annually, the filter elememts in the liquid gas preliminary filter and in the shut-off valve must be renewed, as well as diaphragms, seals and valves.
- After each maintenance, the cap screws of the evaporator pressure regulator must be tightened with a torque of 4.1±0.3 Nm.
- Hose lines must be exchanged at least every two years.
- Check the LPG system after every repair or service to make sure that it is free of leaks.



Engine air cleaner

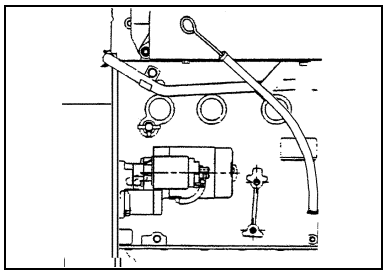


- Check the engine air cleaner for damage and contamination (excessive dirt buildup and clogging). Be sure that the air cleaner hose is securely connected (not loose or leaking). Fan or cone shaped dust deposits on tube or hose surfaces indicate a leak.
- Change or service the air cleaner element every 2000 operating hours for LPG/Gas engine, every 1000 operating hours for Diesel engine depending upon your application.
- Service intervals may also be determined by the air restriction indicator.
- Clean the air filter housing thoroughly before fitting the filter.
- Do not open the air filter housing to check the filter element.

CAUTION

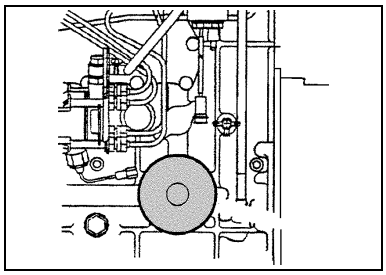
Only open it when it is the specified service interval or the air restriction indicator indicates it should be changed. Never reuse the element.

Engine oil and filter



- Locate the engine oil dipstick. Pull the dipstick out, wipe it with a clean wiper, and reinsert it fully into the dipstick tube. Remove the dipstick and check oil level.
- It is normal to add some oil between oil changes. Keep the oil level above the "L" mark on the dipstick by adding oil as required. Do not overfill. Use the correct oil as specified under Lubricant Specifications.

Changing the engine oil and oil filter

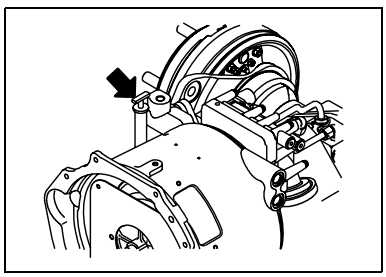


- Remove the filter cartridge.
- Lightly grease the sealing ring on the new filter cartridge and screw in the cartridge until it is hand tight.
- Remove the oil pan drain plug to drain old oil after the truck has been in operation and the engine (oil) is at operating temperature.
- Carefully check for leaks after changing oil and installing new filter.

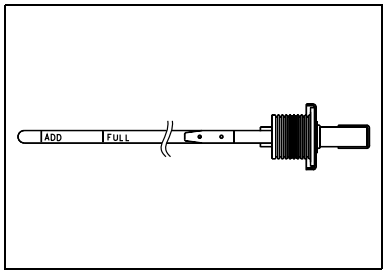
Transmission fluid check

NOTE

Check the planned maintenance interval (operating hours) or the condition of the oil to determine if the transmission fluid needs to be changed.



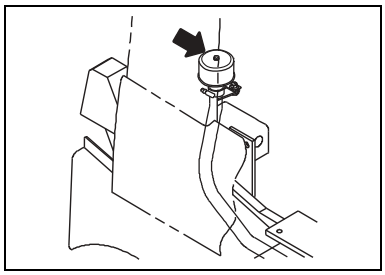
- Before checking, run the engine until the unit is at operating temperature. This is important since transmission oil temperature should be minimum of 65°C to 121°C maximum, the engine should also be at operating temperature. Apply the parking brake.



- With the engine operating at idle and the transmission in NEUTRAL, and the parking brake set, check the fluid on the dipstick. Fill, if necessary, to the FULL mark on the dipstick, using CLARK transmission fluid.
- Fill to the ADD mark with the system at ambient temperature. If filled to the full mark while not at the operating temperature, it may be overfilled.

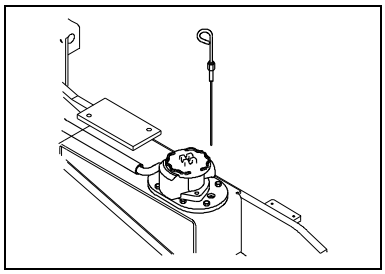
Hydraulic system

Sump tank breather maintenance and inspection



- Remove the sump tank fill cap/breather and inspect for excessive (obvious) contamination and damage.
- Replace the fill cap/breather, per recommended PM schedule or as required by operating conditions.

Hydraulic sump tank

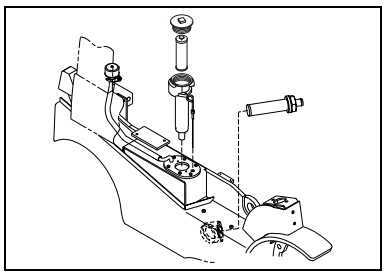


- Check the hydraulic sump tank fluid level. Correct fluid level is important for proper system operation. Low fluid level can cause pump damage. Overfilling can cause loss of fluid or lift system malfunction.
- Hydraulic fluid expands as its temperature rises. Therefore, it is preferable to check the fluid level at operating temperature (after approximately 30 minutes of truck operation).
- To check the fluid level, first park the truck on a level surface and apply the parking brake. Put the upright in a vertical position and lower the fork carriage fully down. Pull the dipstick out, (attached to the sump breather) wipe it with a clean wiper, and reinsert it.
- Remove dipstick and check oil level. Keep the oil level above the LOW mark on the dipstick by adding recommended hydraulic fluid only, as required.

Do not overfill.

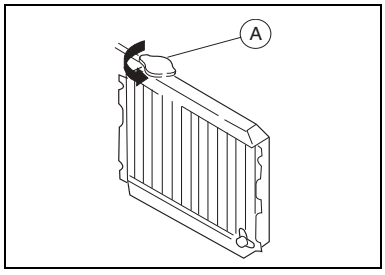
Check the condition of the hydraulic fluid (age, color or clarity, contamination). Change (replace) the oil as necessary.

Hydraulic Fluid and Filter Change



- Drain and replace the hydraulic sump fluid every 2000 operating hours. (Severe service or adverse conditions may require more frequent fluid change).
- Replace the hydraulic oil filters elements at every oil change. Remove, clean, and reinstall the hydraulic and steer system suction line screens at first PM and every 1000 hours thereafter.
- Check for leaks after installation ofthe filters. Also, check that the hydraulic line connections at the filter adapter are tightened correctly.
- The procedure for draining hydraulic sump tank is in your Service Manual.

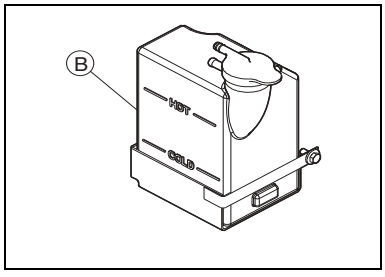
Checking the cooling system



- Check the coolant level (A & B), see page 3.3.

WARNING

Only remove the radiator cap when the engine is cold (danger of scalding).
Never add cold coolant to the radiator of an overheated engine. This carries the risk of the cylinder head or block cracking.

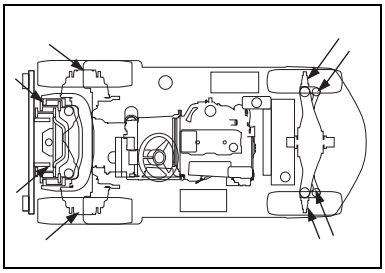


Check the radiator and cooling water hoses for any signs of damage.

Check the radiator fins for dirt. If the radiator fins are dirty, clean the radiator from the counterweight side with compressed air or, if necessary, with a steam cleaner, see page 4.11.

Grease

- Grease your forklift-truck carefully in accordance with the greasing and lubrication plan. Clean the grease nipples before greasing and after lubricating remove any excess grease which has come out at the greasing points.

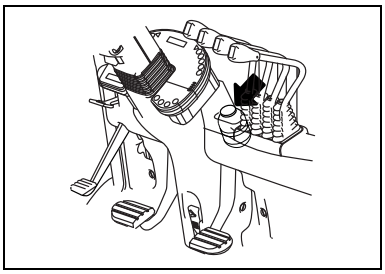


Brakes

- In more demanding operating conditions, the brake linings may become worn more quickly. It may therefore be necessary to check the brake system between the intervals prescribed in the service schedule.
- New brake linings must get worn in and therefore do not have the optimum frictional force initially. The slightly diminished braking effect which results when the brakes are first applied can be overcome by applying the brake pedal harder.

Checking the brake fluid level

- If the brake fluid level is too low, the brake system must be examined by an expert.
- Check the level of brake fluid inthe reservoir positioned at upper side of the cowl. The level should be between "MIN" and "MAX".

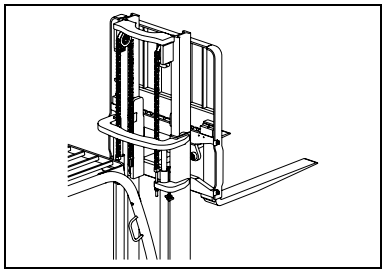


WARNING

Only recommended oil (Page 6.1) should be used. Unauthorised brake fluid may cause serious damage to the brake system.
Brake fluid absorbs moisture from the air (hygroscopic) and must therefore be changed every year.

Clean the lift chains

- Never clean the lifting chains with a steam cleaner. Clean the chains with a self-lubricating cleaner (e.g. Diesel).



Lubricate the lift chains

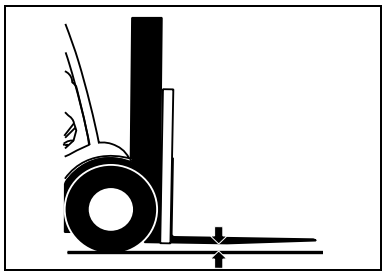
- The lift chains are subjected to heavy loading and therefore can only attain their maximum life if they are oiled regularly and adequately. Oiling the lift chains is therefore an important part of the maintenance work. You can carry out this work quickly and correctly with chain lube, see lubricant recommendations.

Upright inside rails, rollers and sideshifter.

- Clean and lubricate the upright inside rails, rollers and side shifter (if fitted). Use only suitable lubricants in accordance with the recommended lubricants list. For add-on equipment, the service instructions of the manufacturer, see separate operating manual, must be observed.

Check the lift chain adjustment

- Lift the rated load of the forklift onthe forks. Bring the upright to the vertical and lower the fork carriage completely. The underside of the forks at the heel must be 10 mm above the floor.

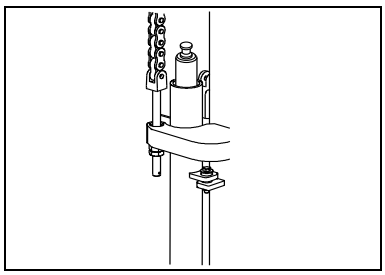


NOTE

It is important to use a load equal to the rated capacity of the forklift when checking the lift chains, since any expansion of the chains is then allowed for.

Adjust the lift chains

- The lift chains are adjusted at the chain anchors. For this, the locknuts must be undone and, depending on the required setting, the top nut screwed up or down. After the adjustment has been made, the locknuts must be tightened up again.



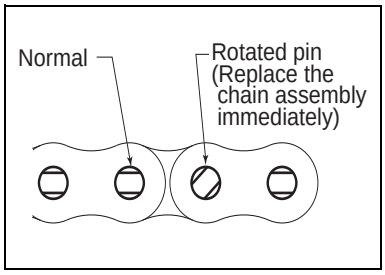
CAUTION

If the lift chains stretch by more than 2% or 3% of their original length, they must be replaced for safety reasons. Observe the statutory regulations of your country.
You can contact your CLARK dealer with confidence for this.

Chain pin rotating or protruding

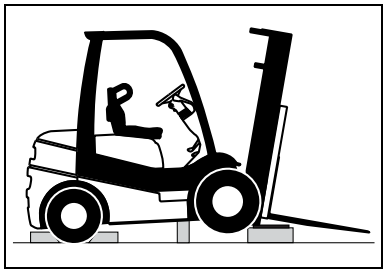
- If high-load tension is applied to the chain in an inappropriate state of lubrication, this may cause abnormal frictional force between the link plate and the pin, and the pin may rotate if the fixing force is outperformed.

  If a rotated pin is detected during the regular inspection, immediately replace the chain assembly.



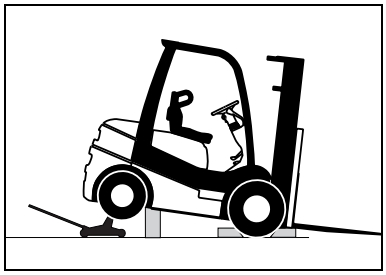
Changing the drive wheels

- Before lifting, the forklift must besecured against rolling by means of chocks at the front and rear of the steer wheels.
- To change the drive wheels, the forklifttruck must be lifted using the upright. For this purpose, tilt the upright backwards up to the stop. Lay wooden beams and steel sheets under the upright. Then tilt the upright forwards to a vertical position. The drive wheels are now free and can be dismounted.



Changing the steer wheels

- **Never lift the forklift-truck below the counterweight.**
- Before lifting the truck, slightly loosen the wheel bolts, apply the parking brake and secure the forklift-truck against any accidental forward motion by putting wooden wedges in front of the driving wheels. Moreover, lift the fork carriage off the ground by approx. 10 cm.
- Now, lift the forklift-truck, until wooden beams with a sufficient load capacity can be pushed under both sides of the frame but not under the counterweight. With the forklift-truck secured in this way, you can now remove the devices and the hoist tool to dismount a steer wheel safely.



WARNING

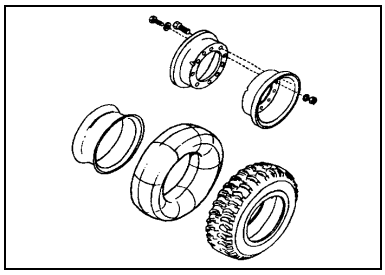
When refitting the wheels, ensure correct seating of the valve. It must lock into the grooves of the wheel hub.
Tighten the wheel nuts evenly at the specified tightening torque. Check the tyre pressure.

WARNING

Wheel bolts and nuts need time to settle into their correct location while driving under load. It is therefore essential to retighten the wheel bolts/nuts with the prescribed torque values after 50 operation hours on new machines and every wheel change.

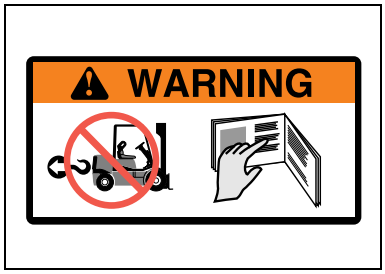
3) Towing the fork lift truck

Disassembling the split-rim wheel.



- When you disassemblethe split-rim wheel, NEVER remove the tire before you deflate the tire pressure.
- First, remove the tire pressure and then loosen the wheel bolts and nuts.
- Failure to do so could result in serious personal injury.
- This operation shall be performed by the certified mechnic only.

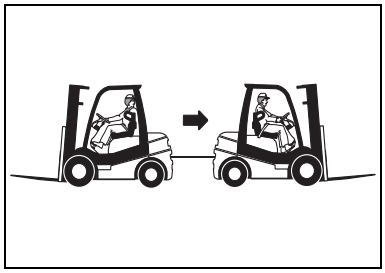
Towing the fork lift truck



- Towing on ramps and steep inclines, whether in the upward or downward direction, is PROHIBITED.
- While you are working around the inoperative forklift truck, the parking brake must always be applied or the drive wheels blocked.

CAUTION

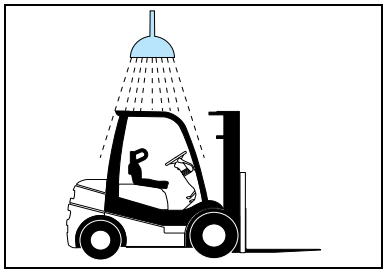
When the engine is not running, the powerassisted steering and brake of the forklift truck being towed will not function either. Turning of the steering wheel and braking will then be more difficult.
The towing speed must not be more than 8 km/h. The towing distance should be as short as possible (approx. 500 m).



- If your forklift truck must be towed (engine defect etc.), the following measures should be taken:

1. The lifting framework (the forks) of the forklift truck should, if possible, be raised around 300 mm above floor level. Secure the lifting framework with a chain.
   If this is not possible, remove the fork arms from the fork carriage.
2. The towing vehicle must have sufficient towing and braking force.
3. Attach the towing vehicle to the trailer pin of the forklift truck with an approved towbar.
4. Tow the inoperative forklift truck backwards. There must always be a driver in the forklift truck being towed.
5. Park the inoperative forklift truck only in areas provided for this purpose (see also safety section, “parking the forklift truck”, see page 1.10).

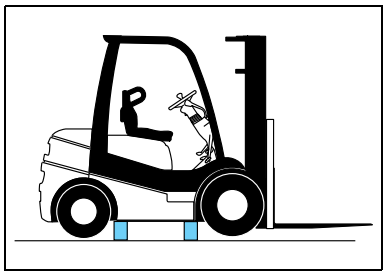
Cleaning the forklift truck



- Cleaning work may only be carriedout in locations provided for this purpose. Ensure that pollution is avoided as far as possible.
- All areas which must be kept free of water, steam jet or cleaning agent, for functional or safety reasons, must be protected by covers or by taping them up. This applies, for example, for the electronic system.
- Do not expose insulating material to the direct jet spray. When spraying, do not spray into the air filter or exhaust systems.
- Only brand name, stipulated cleaning agents may be used. Do not use petrol or diesel under any circumstances.
- Once the forklift truck has been cleaned, remove all covers and tape.
- Lubricate the forklift truck in accordance with the lubrication plan.

Measures for longer lay-off periods, storage

(> 1 months)



- The following measures must be carried out :
  - Remove the battery : Disconnect the (-)cable

CAUTION

If the forklift truck is stored without disconnecting (-)cable of battery for a long time, it will not be started due to the discharged battery.

(> 6 months)

- The following measures must be carried out :
  - Clean the forklift truck and grease the piston rods.
  - Remove the battery. : Disconnect the (-)cable.
  - Fill up the fuel tank. Before recommissioning, the fuel and the fuel filter must be replaced. Bleed the fuel system.
  - Remove the engine oil and replace with suitable conservation oil. Replace the oil filter.
    Before recommissioning, the conservation oil must be drained off again. The engine must be filled with normal service oil again.
  - Check the antifreeze level in the cooling system.
  - Jack up the forklift truck to prevent the tyres going flat.
  - All lubricants must be replaced before recommissioning.

Initial inspection at 50 hours

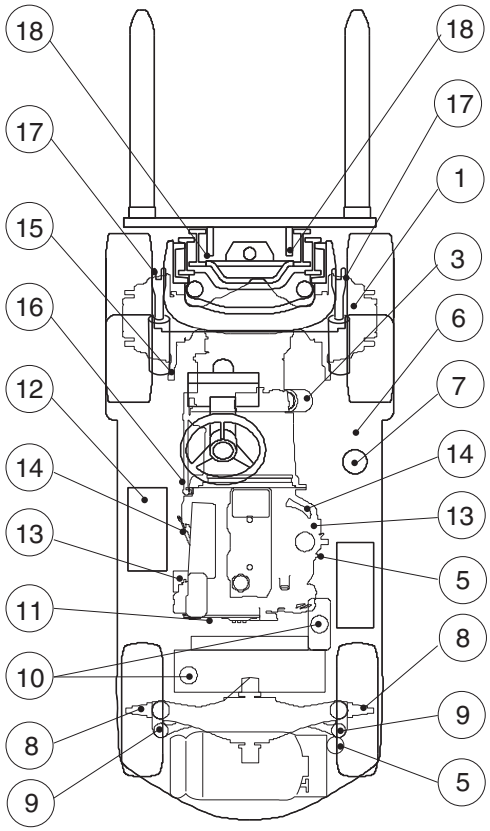
5. Lubrication and maintenance plan

Service to be done in accordance of list

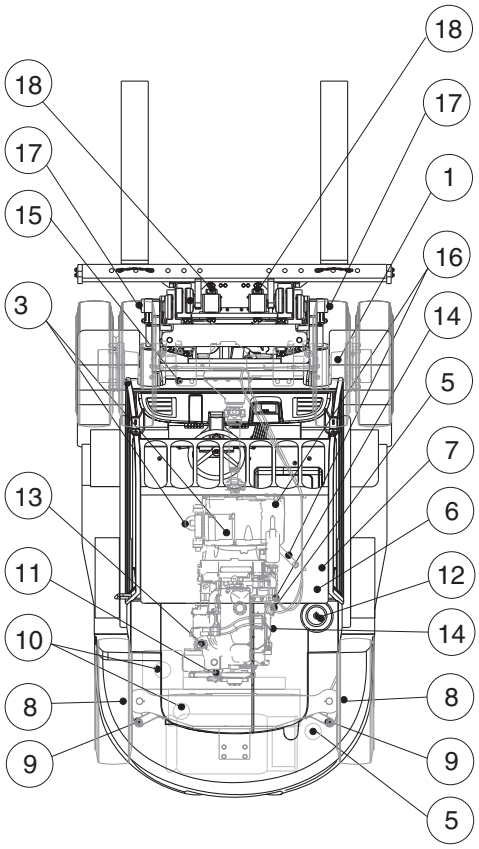
Type of lubricant					working hours			
B Brake fluid C Chain Lube E Engine Oil G Multipurpose Grease G1 Inside rail lubricants H Hydraulic Oil T Transmission oil	Type of lubricant Item number in the drawing Page number in the Operator Instruction				50 ~ 250 a)	450 ~ 500 b)	900 ~ 1000 c)	2000 d)
Check the tightening torque of critical fastening elements		7.2			X			
Check hydraulic oil level		4.6	7	H	X			
Check transmission oil level (First : 50 hours)		4.5	16	T	X			
Grease tilt cylinder bearings		4.7	17	G	X			
Grease steering tie rods and steering knuckle		4.7	9	G	X			
Oil lift chains		4.8	18	G/G1	X			
Cleaning, checking and lubricating the upright inside rails, rollers and side loader		4.8			X			
Check tension of lift chains		4.8	18		X			
Check the air intake system for leaks					X			
Replace engine oil		4.5	14	E	X			
Replace engine oil filter (GAS/LPG)		4.5	13		X			
Replace engine oil filter (Diesel)		4.5	13		X			
Inspect / adjust fan belt			11		X			
Check ignition timing and contacts, renew sparking plugs (LPG)						X		
Clean or replace engine air filter (GAS/LPG)		4.5	12					X
Clean or replace engine air filter (Diesel)		4.5	12				X	
Replace hydraulic sump oil filter and hydraulic tank air breather		4.6	6				X	
Carry out an extraordinary check of the LPG system		4.4				X		
Exchange diaphragms, seals and valves in the LPG system		4.4					X	
Check drive axle mounting and fasteners			15				X	
Replace fuel filter element (GAS/LPG)		4.4	5				X	
Replace fuel filter element (Diesel)		4.4	5			X		
Check valve clearance and set if necessary (diesel engine)							X	
Check that crankcase ventilation is free							X	
Drain / flush radiator coolant		4.6	10					X
Replace transmission oil (First : 50 hours)	C15-35		16	T				X
	GTS20-30, C40-80		16	T			X	
Replace transmission oil filter (First : 50 hours)	C15-35, GTS20-30		3				X	
	C40-80		3			X		
Engine tune up								X
Check brake condition and wear		4.7	1					X
Check / lubricate steer axle wheel bearings			8	G				X
Replace hydraulic sump oil and hydraulic oil filter		4.6	6	H				X
Check injection nozzles and injection timing (diesel engine)								X
Replace brake fluid		4.7		B			X	
Replace toothed belt (engine 4G64) - every 3000 operating hours								
Check drive axle oil level (First : 50hours)					X			
Replace drive axle oil - GTS20-30,C40-80 (First : 50hours)						X		

NOTES: **a)** 50~250 hours or every month **c)** 900~1000 hours or every 6 months
b) 450~500 hours or every 3 months **d)** 2000 hours or every year

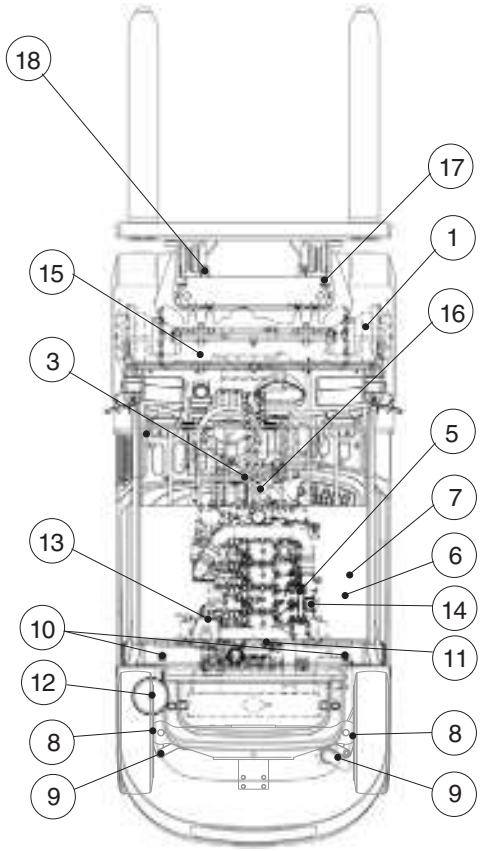
- In heavy conditions of use the service intervals could be reduced



C15-35, GTS20-30



C60-80



C40-55s

6. Lubricant Recommendations

E Engine oil

LPG / GAS truck (Mitsubishi 4G63/4G64, GM V6 4.3) : in accordance with API classification more than a class SJ grade and SAE10W30
Diesel truck (Yanmar 4TNV88/4TNV94L/4TNE94L/4TNE98, IVECO F4GE0454A/4MNS) : in accordance with API classification CF and SAE15W40

H Hydraulic fluid

RANDO HD 32, or in accordance with CLARK specification MS-68 (CLARK #2776239)

T Transmission oil & Axle oil

- Transmission : CLARK MS-276A (CLARK #2776236)
- Axle : MOBIL Fluid #424

G Multipurpose grease

In accordance with CLARK specification MS-9 or MS-107C

e.g.	BP	Multipurpose grease L2	FINA	Marson EPL2
	MOBIL	Mobilgrease MP	SHELL	Alkvania grease EP2
	DEFROL	M2F 2 EP 2	GULF	Crow Grease EP 2
	CHEVRON	Dura-Lit EP 2		

G1 Inside rail lubricants

In accordance with CLARK # 886396

C Chain lube

In accordance with CLARK #3762516

B Brake fluid

C15-35 : In accordance with specification SAE J 1703 DOT 3 or 4 (CLARK #8002222)
C40-80 / GTS20-30 : RANDO HD 32, or in accordance with CLARK specification MS-68 (CLARK #2776239)

D Diesel fuel

D-2 with cetane rating of 45 or higher.
D-1 and Jet A-1 also acceptable

L Liquefied petroleum gas (LPG)

HD-5 Propane

G2 Gasoline

87 Octane minimum

W Engine cooling system

Use a mixture of 50% ethylene glycol permanent-type antifreeze containing rust and corrosion inhibitors only.

A Drive axle oil

In accordance with specification CLARK MS-276A (CLARK #2776236)

7. Technical data

Filling quantities (liter)

	C15-20sL	C15-20sD	C15-20sG	C15-20sCL
Engine oil(with filter)	4.8 *l*	10.0 *l*	4.8 *l*	4.8 *l*
Cooling System	8.5 *l*	10.5 *l*	8.5 *l*	8.5 *l*
Transaxle fluid	12.0 *l*	12.0 *l*	12.0 *l*	12.0 *l*
Hydraulic sump	34.0 *l*	34.0 *l*	34.0 *l*	34.0 *l*
Fuel tank	15 kg	42 *l*	42 *l*	15 kg

Battery

C15-20sD ..... 12V 80 Ah

C15-20sL/G, C15-20sCL ..... 12V 45 Ah

Fuses..... 5, 10, 15, 20, 30 Amp

Wheels and Tire

Steering axle tires

C15-20s .....5.00 × 8-10PR 883kPa (128psi) (8.8bar)

C15-20sC.....14 × 4.5 × 8

Drive axle tires

Single drive

C15-20s .....6.50 × 10-12PR 883kPa (128psi) (8.8bar)

C15C.....18 × 6 × 12.125

C18-20sC.....18 × 7 × 12.125

Torques

Steering axle wheel nut..... 155 - 193 Nm (16~19.5kg·m) (115~142ft·lb)

Drive axle wheel nut ..... 290 - 304 Nm (29.6~31.0kg·m) (210~225ft·lb)

Driver´s overhead guard .....70 - 80 Nm (7.2~8.2kg·m) (51~59ft·lb)

Counterweight ..... 441 - 490 Nm (45~50kg·m) (325~361ft·lb)

Drive axle to frame.....118.7 - 144.2 Nm (12.1~14.7kg·m) (85.8~104.3ft·lb)

Tilting cylinder clamping bolt on piston rod head ..... 170 - 190 Nm (17.3~19.4kg·m) (125~140ft·lb)

Tilt cylinder pin retainer bolts ..... 40 - 45 Nm (4.0~4.6kg·m) (30~33ft·lb)

Upright mounting screws ..... 115 - 130 Nm (11.7~13.3kg·m) (85~96ft·lb)

Steering axle mounting .....235 - 288 Nm (24.0~29.4kg·m) (173~213ft·lb)

Filling quantities (liter)

	C20-32CL	C20-32CG	C20-25L	C30-35L	C20-25G	C30-35G	C20-25D	C30-35D
Engine oil(with filter)	4.8 *l*	4.8 *l*	4.8 *l*	4.8 *l*	4.8 *l*	4.8 *l*	7.5 *l*	7.5 *l*
Cooling System	10.5 *l*	10.5 *l*	8.5 *l*	8.5 *l*	8.5 *l*	8.5 *l*	9.6 *l*	9.6 *l*
Transaxle fluid	18.5 *l*	18.5 *l*	18.5 *l*	18.5 *l*	18.5 *l*	18.5 *l*	18.5 *l*	18.5 *l*
Hydraulic sump	37.0 *l*	37.0 *l*	40.0 *l*	44.0 *l*	40 *l*	44 *l*	40 *l*	44 *l*
Fuel tank	15 kg	44 *l*	15 kg	15 kg	46.1 *l*	51.9 *l*	46.1 *l*	51.9 *l*

Battery

C20-35D ..... 12V 100 Ah

C20-35 L/G, C20-32C L/G ..... 12V 60 Ah

Fuses ..... 5, 10, 15, 20, 30 Amp

Wheels and Tire

Steering axle tires

C20-25 .....6.00 × 9-10PR 883kPa (128psi) (8.8bar)

C30 .....6.50 × 10-12PR 883kPa (128psi) (8.8bar)

C33-35 .....6.50 × 10-14PR 1000kPa (145psi) (10bar)

C20-25C.....16 × 5 × 10.5

C30-32C.....16 × 6 × 10.5

Drive axle tires

Single drive

C20-25 .....7.00 × 12-14PR 1000kPa (145psi) (10bar)

C30 .....8.15 × 15-14PR (or 28 × 9 × 15-14PR)..... 1000kPa (145psi) (10bar)

C33-35 ..... 250 × 15-18PR..... 1000kPa (145psi) (10bar)

Dual drive

C20-30 .....7.00 × 12-14PR 1000kPa (145psi) (10bar)

C33-35 ..... 28 × 9 × 15-14PR..... 1000kPa (145psi) (10bar)

C20-25C..... 21 × 7 × 15

C30C..... 21 × 8 × 15

C32C..... 21 × 9 × 15

Torques

Steering axle wheel nut..... 225 - 250 Nm (23~25.5kg·m) (165~185ft·lb)

Drive axle wheel nut ..... 300 - 370 Nm(30.6~37.8kg·m)(225~275ft·lb)

Driver´s overhead guard .....100 - 110 Nm(10.1~11.2kg·m) (74~81ft·lb)

Counterweight ..... 441 - 490 Nm (45~50kg·m) (325~361ft·lb)

Drive axle to frame..... 340 - 380 Nm(34.7~38.8kg·m)(250~280ft·lb)

Tilting cylinder clamping bolt on piston rod head ..... 170 - 190 Nm(17.3~19.4kg·m)(125~140ft·lb)

Tilt cylinder pin retainer bolts ..... 40 - 45 Nm (4.0~4.6kg·m) (30~33ft·lb)

Upright mounting screws ..... 75 - 80 Nm (7.6~8.2kg·m) (55~59ft·lb)

Steering axle mounting .....170 - 190 Nm(17.3~19.4kg·m)(125~140ft·lb)

Filling quantities (liter)

	C40D	C45D	C50sD	C55sD	C40L	C45L	C50sL	C55sL
Engine oil(with filter)	8 *l*	8 *l*	8 *l*	8 *l*	7.5 *l*	7.5 *l*	7.5 *l*	7.5 *l*
Cooling System	18 *l*	18 *l*	18 *l*	18 *l*	18 *l*	18 *l*	18 *l*	18 *l*
Transmission fluid	12+10.7 *l*	12+10.7 *l*	12+10.7 *l*	12+10.7 *l*	12+10.7 *l*	12+10.7 *l*	12+10.7 *l*	12+10.7 *l*
Hydraulic sump	88 *l*	88 *l*	100 *l*	100 *l*	88 *l*	88 *l*	100 *l*	100 *l*
Fuel tank	94 *l*	94 *l*	106 *l*	106 *l*	20kg	20kg	20kg	20kg

Battery

C40-55sD ..... 24V (12V, 60Ah x 2)

C40-55sL 12V, 60Ah

Fuses 10, 15, 20Amp

Wheels and Tire

Steering axle tires

C40-55s ..... 7.00 x 12-14PR ..... 1000 kPa (145 psi) (10bar)

Drive axle tires

Single drive

C40 ..... 8.25 x 15-14PR ..... 820 kPa (119 psi) (8.2 bar)

C45 ..... 8.25 x 15-16PR ..... 951 kPa (138 psi) (9.5 bar)

C50s ..... 300 x 15-18PR ..... 820 kPa (119 psi) (8.2 bar)

C55s ..... 300 x 15-20PR ..... 951 kPa (138 psi) (9.5 bar)

Dual drive

C40-55s ..... 7.50 x 15-12PR ..... 820 kPa (119 psi) (8.2 bar)

Torques

Steering axle wheel nut ..... 343-392 N.m (35-40 kg·m) (253-289 ft·lb)

Drive axle wheel nut ..... 340-380 N.m (35-39 kg·m) (251-280 ft·lb)

Driver´s overhead guard (front) ..... 70-80 N.m (7-8 kg·m) (51-59 ft·lb)

(rear) ..... 170-190 N.m (17-19 kg·m) (125-140 ft·lb)

Counterweight ..... 441-490 N.m (45-50 kg·m) (325-362 ft·lb)

Drive axle to frame ..... 800-900 N.m (82-92 kg·m) (590-664 ft·lb)

Tilting cylinder clamping bolt on piston rod head ..... 170-190 N.m (17-19 kg·m) (125-140 ft·lb)

Tilt cylinder pin retainer bolts ..... 40-45 N.m (4.0-4.6kg·m) (30-33 ft·lb)

Upright mounting screws ..... 170-190 N.m (17-19 kg·m) (123-137 ft·lb)

Steering axle mounting ..... 392-490 N.m (40-45 kg·m) (289-362 ft·lb)

Filling quantities (liter)

	C60-70D	C80D	C60-75L
Engine oil(with filter)	11 *l*	11 *l*	11 *l*
Cooling System	24 *l*	24 *l*	24 *l*
Transaxle fluid	12.5 *l*	12.5 *l*	12.5 *l*
Hydraulic sump	168 *l*	209 *l*	168 *l*
Fuel tank	168 *l*	209 *l*	20kg
Transmission fluid	20 *l*	20 *l*	14 *l*

Battery

C60-80D ..... 24V (12V, 80 Ah x 2)

C60-75L ..... 12V 80 Ah

Fuses ..... 5, 10, 15, 20, 30 Amp

Wheels and Tire

Steering axle tires

C60-75 .....8.25 × 15-14PR 820kPa (119psi) (8.2bar)

C80 .....8.25 × 15-18PR 1000kPa (145psi) (10bar)

Drive axle tires

Dual drive

C60-75 .....8.25 × 15-14PR 820kPa (119psi) (8.2bar)

C80 .....8.25 × 15-18PR 1000kPa (145psi) (10bar)

Torques

Steering axle wheel nut	441 - 490 Nm	(45~50kg·m)	(325~361ft·lb)
Drive axle wheel nut	539 - 588 Nm	(55~60kg·m)	(397~433ft·lb)
Driver´s overhead guard	100 - 121 Nm	(10.2~12.3kg·m)	(74~81ft·lb)
Counterweight	441 - 490 Nm	(45~50kg·m)	(325~361ft·lb)
Drive axle to frame	800 - 900 Nm	(82~92kg·m)	(590~663ft·lb)
Tilting cylinder clamping bolt on piston rod head	240 - 270 Nm	(24.5~27.5kg·m)	(177~199ft·lb)
Tilt cylinder pin retainer bolts	40 - 45 Nm	(4.0~4.6kg·m)	(30~33ft·lb)
Upright mounting screws	340 - 380 Nm	(34.7~38.7kg·m)	(250~280ft·lb)
Steering axle mounting	235 - 288 Nm	(24~29.4kg·m)	(173~212ft·lb)

Filling quantities (liter)

	GTS20-25D	GTS30D	GTS20-25L	GTS30L
Engine oil(with filter)	7.5 *l*	7.5 *l*	4.8 *l*	4.8 *l*
Cooling System	14 *l*	14 *l*	8.5 *l*	8.5 *l*
Transaxle fluid	11+8 *l*	11+8 *l*	11+8 *l*	11+8 *l*
Hydraulic sump	50 *l*	55 *l*	50 *l*	55 *l*
Fuel tank	46 *l*	52 *l*	15 kg	15 kg

Battery

GTS20-30D ..... 12V 100 Ah

GTS20-30L ..... 12V 60 Ah

Fuses ..... 10, 15, 20 Amp

Wheels and Tire

Steering axle tires

GTS20-25.....6.00 × 9-10PR 883kPa (128psi) (8.8bar)

GTS30.....6.50 × 10-12PR 883kPa (128psi) (8.8bar)

Drive axle tires

Single drive

GTS20-25.....7.00 × 12-14PR 1000kPa (145psi) (10bar)

GTS30.....8.15 × 15-14PR (or 28 × 9 × 15-14PR) 1000kPa (145psi) (10bar)

Dual drive

GTS20-30.....7.00 × 12-14PR 1000kPa (145psi) (10bar)

Torques

Steering axle wheel nut..... 225 - 250 Nm (23~25.5kg·m) (165~185ft·lb)

Drive axle wheel nut ..... 300 - 370 Nm (30.6~37.8kg·m) (225~275ft·lb)

Driver´s overhead guard ..... 100 - 110 Nm (10.1~11.2kg·m) (74~81ft·lb)

Counterweight ..... 441 - 490 Nm (45~50kg·m) (325~361ft·lb)

Drive axle to frame..... 450 - 500 Nm (45.9~50.9kg·m) (332~369ft·lb)

Tilting cylinder clamping bolt on piston rod head ..... 170 - 190 Nm (17.3~19.4kg·m) (125~140ft·lb)

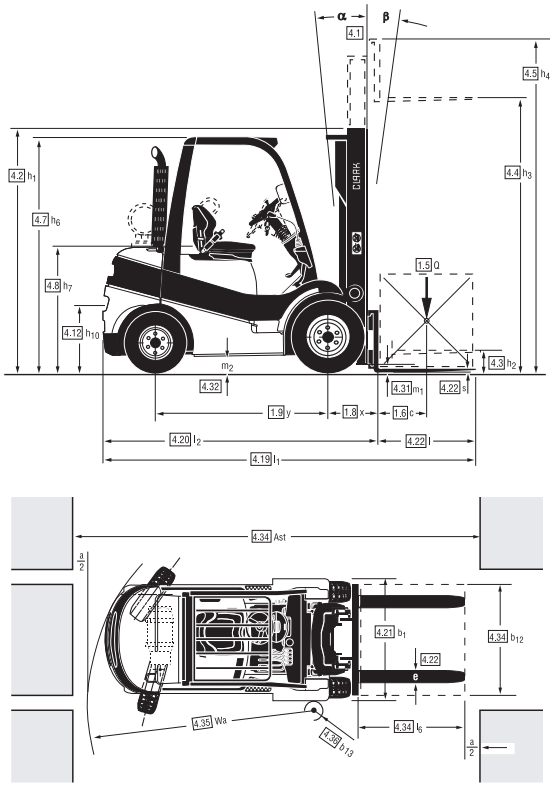
Tilt cylinder pin retainer bolts ..... 40 - 45 Nm (4.0~4.6kg·m) (30~33ft·lb)

Upright mounting screws ..... 100 - 120 Nm(10.2~12.4kg·m) (74~90ft·lb)

Steering axle mounting .....170 - 190 Nm(17.3~19.4kg·m) (125~140ft·lb)

8. Specification

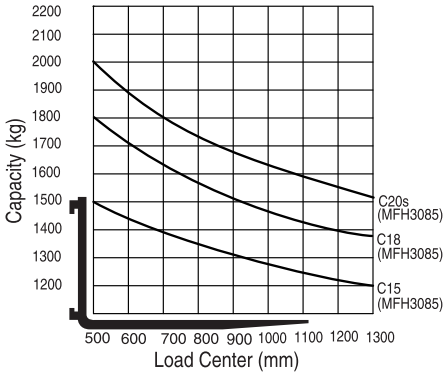
Demensions (C15-20s D)



For data see corresponding number in chart "Product Specifications"

Truck Capacities

Capacity at different load centres



NOTE

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of 3085mm.

The centre of gravity of the load may be displaced by max. 100mm against the longitudinal centre line of the truck. Load centre is determined from top and front face of forks. The values are based on a 1000mm, cube load configuration with the centre of gravity at the true centre of the cube. With upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights may reduce the capacity.

Product Specifications

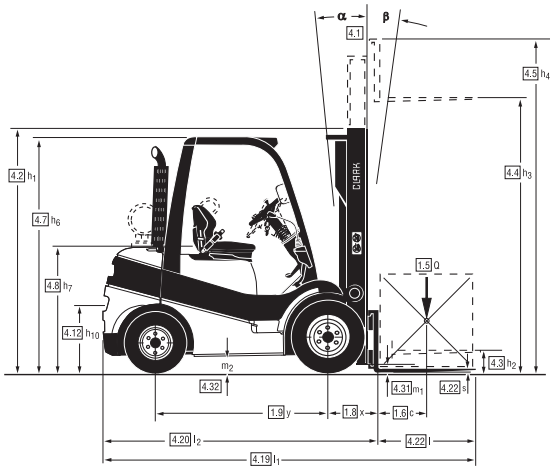
Specifications	1.1	**Manufacturer (Abbreviation)**	
	1.2	Manufacturer's designation	
	1.3	Drive unit Diesel, L.P. Gas	
	1.4	Operator type stand on / driver seated	
	1.5	Load capacity / rated load	Q (Kg)
	1.6	Load centre distance	c (mm)
	1.8	Load centre distance, centre of drive axle to fork face	x (mm)
	1.9	Wheelbase	y (mm)
WT	2.1	Service weight	kg
	2.2	Axle loading, laden front / rear	kg
	2.3	Axle loading, unladen front / rear	kg
Tyres, Chassis	3.1	Tyre type, P = pneumatic, SE = superelastic, C = cushion 1)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number front/rear (x = drive wheels)	
	3.6	Tread, front	b10 (mm)
	3.7	Tread, rear	b11 (mm)
Dimensions	4.1	Tilt of upright/fork carriage, α / β	degree
	4.2	Height, upright lowered	h1 (mm)
	4.3	Freelift	h2 (mm)
	4.4	Lift height 2)	h3 (mm)
	4.5	Height, upright extended 6)	h4 (mm)
	4.7	Height overheadguard (cab); Std / Container	h6 (mm)
	4.8	Seat height	h7 (mm)
	4.12	Coupling height	h10 (mm)
	4.19	Overall length	l1 (mm)
	4.20	Length to face of forks	l2 (mm)
	4.21	Width	b1, b2 (mm)
	4.22	Fork dimensions	s • e • l (mm)
	4.23	Fork carriage DIN 15173, A, B	
	4.24	Fork carriage width	b3 (mm)
	4.31	Ground clearance minimum, laden	m1 (mm)
	4.32	Ground clearance centre of wheelbase	m2 (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 800 x 1200	
	4.34	Stacking aisle for pallets (l6 • b12) 1000 x 1200	Ast (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 1200 x 800	Ast (mm)
	4.35	Turning radius	Wa (mm)
	4.36	Internal turning radius	b13 (mm)
Performances	5.1	Travel speed laden/unladen	km/h
	5.2	Lift speed laden/unladen	m/s
	5.3	Lowering speed laden/unladen	m/s
	5.5	Drawbar pull laden/unladen 3) 4)	kg
	5.6	Max. drawbar pull laden/unladen 4)	kg
	5.7	Gradeability laden/unladen 3) 4)	%
	5.8	Max. gradeability laden/unladen 4)	%
	5.9	Acceleration time laden/unladen (0 - 15 m)	s
	5.10	Service brake 6)	
I.C.-Engine	7.1	Manufacturer / Type	
	7.2	Rated output acc. DIN 70020	kW
	7.3	Rated speed acc. DIN 70020	r.p.m
	7.4	No. of cylinders / displacement	cc
	7.5	Fuel consumption acc. VDI-Cycles	Diesel= l/h, L.P.-Gas= kg/h
Miscellaneous	8.1	Type of control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level, driver's ear 5)	dB (A)
	8.5	Towing coupling, class/type DIN	

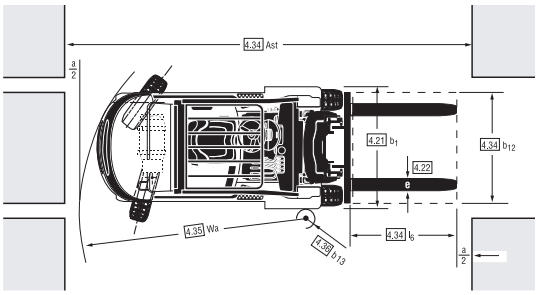
1) Optional with super-elastic tyres
2) Further lift heights see upright table
3) Laden with 1,6 km/h
4) Without load at friction coefficient μ = 0,8
5) Equivalent permanent sound-pressure level L pAeq,T in accordance with ISO EN 12053
6) Without load backrest

CLARK			1.1
C15D	**C18D**	**C20sD**	1.2
Diesel	Diesel	Diesel	1.3
Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	1.4
1500	1800	2000	1.5
500	500	500	1.6
392	392	392	1.8
1400	1400	1400	1.9
2785	3009	3156	2.1
3733 / 552	4166 / 643	4449 / 707	2.2
1277 / 1508	1219 / 1790	1175 / 1981	2.3
P	P	P	3.1
6.50 x 10 - 12PR	6.50 x 10 - 12PR	6.50 x 10 - 12PR	3.2
5.00 x 8 - 10PR	5.00 x 8 - 10PR	5.00 x 8 - 10PR	3.3
2x / 2	2x / 2	2x / 2	3.5
890	890	890	3.6
890	890	890	3.7
8 / 8	8 / 8	8 / 8	4.1
2140	2140	2140	4.2
110	110	110	4.3
3085	3085	3085	4.4
-	-	-	4.5
2120	2120	2120	4.7
-	-	-	4.8
-	-	-	4.12
3266	3311	3353	4.19
2196	2241	2283	4.20
1070	1070	1070	4.21
40 x 100 x 1070	40 x 100 x 1070	40 x 100 x 1070	4.22
IIA	IIA	IIA	4.23
-	-	-	4.24
120	120	120	4.31
124	124	124	4.32
-	-	-	4.34
3665	3713	3746	4.34
-	-	-	4.34
2073	2121	2154	4.35
-	-	-	4.36
17.2 / 17.9	17.6 / 17.9	17.4 / 18.1	5.1
570 / 610	560 / 610	540 / 610	5.2
470 / 430	470 / 430	470 / 430	5.3
-	-	-	5.5
1524 / 1100	1531 / 1100	1538 / 1000	5.6
-	-	-	5.7
37.5 / 20.9	33.2 / 18.6	31.3 / 17.1	5.8
-	-	-	5.9
hydraulic	hydraulic	hydraulic	5.10
Yanmar4TNV88	Yanmar4TNV88	Yanmar4TNV88	7.1
28.8	28.8	28.8	7.2
2400	2400	2400	7.3
4 / 2190	4 / 2190	4 / 2190	7.4
-	-	-	7.5
hydrodyn.	hydrodyn.	hydrodyn.	8.1
140	140	140	8.2
-	-	-	8.3
81	81	81	8.4
-	-	-	8.5

Note:
All values shown are for standard lift truck with standard equipment.
If the truck is supplied with options, values may change.
All values given may vary +5% and -10% due the motor and system tolerances and represent nominal values obtained under typical operating conditions.

Demensions (C15-20s L)

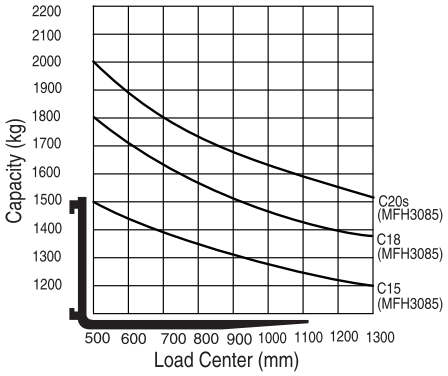




For data see corresponding number in chart "Product Specifications"

Truck Capacities

Capacity at different load centres



NOTE

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of 3085mm.

The centre of gravity of the load may be displaced by max. 100mm against the longitudinal centre line of the truck. Load centre is determined from top and front face of forks. The values are based on a 1000mm, cube load configuration with the centre of gravity at the true centre of the cube. With upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights may reduce the capacity.

Product Specifications

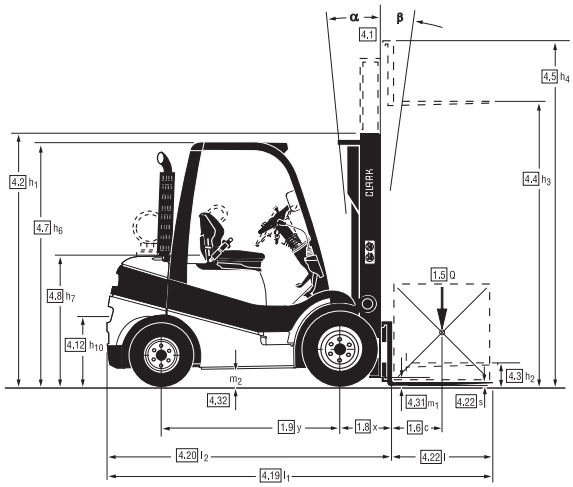
Specifications	1.1	**Manufacturer (Abbreviation)**	
	1.2	Manufacturer's designation	
	1.3	Drive unit Diesel, L.P. Gas	
	1.4	Operator type stand on / driver seated	
	1.5	Load capacity / rated load	Q (Kg)
	1.6	Load centre distance	c (mm)
	1.8	Load centre distance, centre of drive axle to fork face	x (mm)
	1.9	Wheelbase	y (mm)
WT	2.1	Service weight	kg
	2.2	Axle loading, laden front / rear	kg
	2.3	Axle loading, unladen front / rear	kg
Tyres, Chassis	3.1	Tyre type, P = pneumatic, SE = superelastic, C = cushion 1)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number front/rear (x = drive wheels)	
	3.6	Tread, front	b10 (mm)
	3.7	Tread, rear	b11 (mm)
Dimensions	4.1	Tilt of upright/fork carriage, α / β	degree
	4.2	Height, upright lowered	h1 (mm)
	4.3	Freelift	h2 (mm)
	4.4	Lift height 2)	h3 (mm)
	4.5	Height, upright extended 6)	h4 (mm)
	4.7	Height overheadguard (cab); Std / Container	h6 (mm)
	4.8	Seat height	h7 (mm)
	4.12	Coupling height	h10 (mm)
	4.19	Overall length	l1 (mm)
	4.20	Length to face of forks	l2 (mm)
	4.21	Width	b1, b2 (mm)
	4.22	Fork dimensions	s • e • l (mm)
	4.23	Fork carriage DIN 15173, A, B	
	4.24	Fork carriage width	b3 (mm)
	4.31	Ground clearance minimum, laden	m1 (mm)
	4.32	Ground clearance centre of wheelbase	m2 (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 800 x 1200	
	4.34	Stacking aisle for pallets (l6 • b12) 1000 x 1200	Ast (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 1200 x 800	Ast (mm)
	4.35	Turning radius	Wa (mm)
	4.36	Internal turning radius	b13 (mm)
Performances	5.1	Travel speed laden/unladen	km/h
	5.2	Lift speed laden/unladen	m/s
	5.3	Lowering speed laden/unladen	m/s
	5.5	Drawbar pull laden/unladen 3) 4)	kg
	5.6	Max. drawbar pull laden/unladen 4)	kg
	5.7	Gradeability laden/unladen 3) 4)	%
	5.8	Max. gradeability laden/unladen 4)	%
	5.9	Acceleration time laden/unladen (0 - 15 m)	s
	5.10	Service brake 6)	
I.C.-Engine	7.1	Manufacturer / Type	
	7.2	Rated output acc. DIN 70020	kW
	7.3	Rated speed acc. DIN 70020	r.p.m
	7.4	No. of cylinders / displacement	cc
	7.5	Fuel consumption acc. VDI-Cycles	Diesel= l/h, L.P.-Gas= kg/h
Miscellaneous	8.1	Type of control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level, driver's ear 5)	dB (A)
	8.5	Towing coupling, class/type DIN	

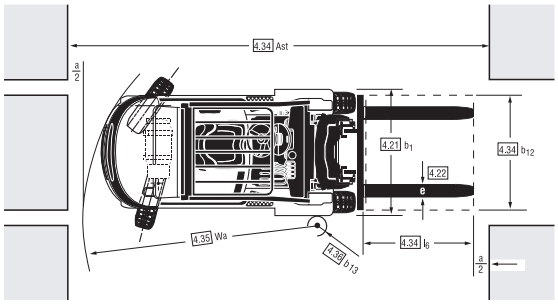
1) Optional with super-elastic tyres
2) Further lift heights see upright table
3) Laden with 1,6 km/h
4) Without load at friction coefficient μ = 0,8
5) Equivalent permanent sound-pressure level L pAeq,T in accordance with ISO EN 12053
6) Without load backrest

CLARK			1.1
C15L	**C18L**	**C20sL**	1.2
LPG	LPG	LPG	1.3
Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	1.4
1500	1800	2000	1.5
500	500	500	1.6
392	392	392	1.8
1400	1400	1400	1.9
2785	3009	3156	2.1
3733 / 552	4166 / 643	4449 / 707	2.2
1277 / 1508	1219 / 1790	1175 / 1981	2.3
P	P	P	3.1
6.50 x 10 - 12PR	6.50 x 10 - 12PR	6.50 x 10 - 12PR	3.2
5.00 x 8 - 10PR	5.00 x 8 - 10PR	5.00 x 8 - 10PR	3.3
2x / 2	2x / 2	2x / 2	3.5
890	890	890	3.6
890	890	890	3.7
8 / 8	8 / 8	8 / 8	4.1
2140	2140	2140	4.2
110	110	110	4.3
3085	3085	3085	4.4
-	-	-	4.5
2120	2120	2120	4.7
-	-	-	4.8
-	-	-	4.12
3266	3311	3353	4.19
2196	2241	2283	4.20
1070	1070	1070	4.21
40 x 100 x 1070	40 x 100 x 1070	40 x 100 x 1070	4.22
IIA	IIA	IIA	4.23
-	-	-	4.24
120	120	120	4.31
124	124	124	4.32
-	-	-	4.34
3665	3713	3746	4.34
-	-	-	4.34
2073	2121	2154	4.35
-	-	-	4.36
18.0(17.9) / 18.4(18.3)	17.9(17.9) / 18.4(18.4)	17.9(17.8) / 18.4(18.5)	5.1
570 / 610	560 / 610	540 / 610	5.2
470 / 430	470 / 430	470 / 430	5.3
-	-	-	5.5
1773(1580) / 1100	1780(1588) / 1100	1785(1595) / 1000	5.6
-	-	-	5.7
45.6(39.1) / 21.1(20.9)	39.4(34.5) / 19.8(18.6)	37.0(32.6) / 17.1(17.1)	5.8
-	-	-	5.9
hydraulic	hydraulic	hydraulic	5.10
MMC 4G63	MMC 4G63	MMC 4G63	7.1
34.3 (28.5)	34.3 (28.5)	34.3 (28.5)	7.2
2600 (2200)	2600 (2200)	2600 (2200)	7.3
4 / 1997	4 / 1997	4 / 1997	7.4
2	2.1	2.2	7.5
hydrodyn.	hydrodyn.	hydrodyn.	8.1
140	140	140	8.2
-	-	-	8.3
79	79	79	8.4
-	-	-	8.5

Note:
All values shown are for standard lift truck with standard equipment.
If the truck is supplied with options, values may change.
All values given may vary +5% and -10% due the motor and system tolerances and represent nominal values obtained under typical operating conditions.
( ) : Specification for non-emission complied truck.

Demensions (C15C-20sC L)

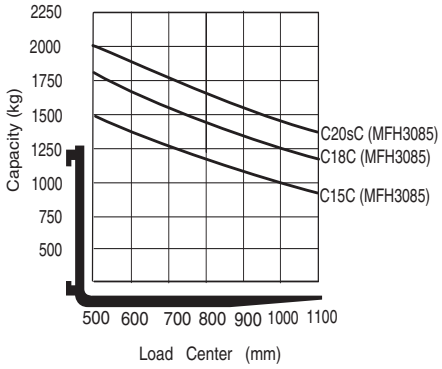




For data see corresponding number in chart "Product Specifications"

Truck Capacities

Capacity at different load centres



NOTE

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of 3085mm.

The centre of gravity of the load may be displaced by max. 100mm against the longitudinal centre line of the truck. Load centre is determined from top and front face of forks. The values are based on a 1000mm, cube load configuration with the centre of gravity at the true centre of the cube. With upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights may reduce the capacity.

Product Specifications

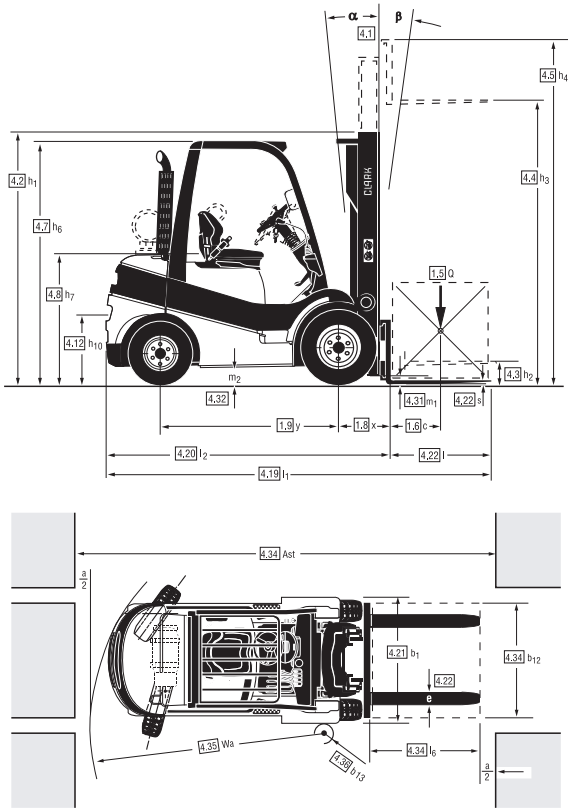
Specifications	1.1	**Manufacturer (Abbreviation)**	
	1.2	Manufacturer's designation	
	1.3	Drive unit Diesel, L.P. Gas	
	1.4	Operator type stand on / driver seated	
	1.5	Load capacity / rated load	Q (t)
	1.6	Load centre distance	c (mm)
	1.8	Load centre distance, centre of drive axle to fork face	x (mm)
	1.9	Wheelbase	y (mm)
WT	2.1	Service weight	kg
	2.2	Axle loading, laden front / rear	kg
	2.3	Axle loading, unladen front / rear	kg
Tyres, Chassis	3.1	Tyre type, P = pneumatic, SE = superelastic, C = cushion 1)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number front/rear (x = drive wheels)	
	3.6	Tread, front	b10 (mm)
	3.7	Tread, rear	b11 (mm)
Dimensions	4.1	Tilt of upright/fork carriage, α / β	degree
	4.2	Height, upright lowered	h1 (mm)
	4.3	Freelift	h2 (mm)
	4.4	Lift height 2)	h3 (mm)
	4.5	Height, upright extended 6)	h4 (mm)
	4.7	Height overheadguard (cab); Std / Container	h6 (mm)
	4.8	Seat height	h7 (mm)
	4.12	Coupling height	h10 (mm)
	4.19	Overall length	l1 (mm)
	4.20	Length to face of forks	l2 (mm)
	4.21	Width	b1, b2 (mm)
	4.22	Fork dimensions	s • e • l (mm)
	4.23	Fork carriage DIN 15173, A, B	
	4.24	Fork carriage width	b3 (mm)
	4.31	Ground clearance minimum, laden	m1 (mm)
	4.32	Ground clearance centre of wheelbase	m2 (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 800 x 1200	
	4.34	Stacking aisle for pallets (l6 • b12) 1000 x 1200	Ast (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 1200 x 800	Ast (mm)
	4.35	Turning radius	Wa (mm)
	4.36	Internal turning radius	b13 (mm)
Performances	5.1	Travel speed laden/unladen	km/h
	5.2	Lift speed laden/unladen	m/s
	5.3	Lowering speed laden/unladen	m/s
	5.5	Drawbar pull laden/unladen 3) 4)	kg
	5.6	Max. drawbar pull laden/unladen 4)	kg
	5.7	Gradeability laden/unladen 3) 4)	%
	5.8	Max. gradeability laden/unladen 4)	%
	5.9	Acceleration time laden/unladen (0 - 15 m)	s
	5.10	Service brake 6)	
I.C.-Engine	7.1	Manufacturer / Type	
	7.2	Rated output acc. DIN 70020	kW
	7.3	Rated speed acc. DIN 70020	r.p.m
	7.4	No. of cylinders / displacement	cc
	7.5	Fuel consumption acc. VDI-Cycles	Diesel= l/h, L.P.-Gas= kg/h
Miscellaneous	8.1	Type of control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level, driver's ear 5)	dB (A)
	8.5	Towing coupling, class/type DIN	

1) Optional with super-elastic tyres
2) Further lift heights see upright table
3) Laden with 1,6 km/h
4) Without load at friction coefficient μ = 0,8
5) Equivalent permanent sound-pressure level L pAeq,T in accordance with ISO EN 12053
6) Without load backrest

CLARK			1.1
C15CL	**C18CL**	**C20sCL**	1.2
LPG	LPG	LPG	1.3
Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	1.4
1500	1800	2000	1.5
500	500	500	1.6
375	375	375	1.8
1220	1220	1220	1.9
2746	2962	3014	2.1
3740 / 507	4210 / 552	4507 / 598	2.2
1146 / 1583	1094 / 1868	1044 / 2060	2.3
C	C	C	3.1
18x6x12.125	18x7x12.125	18x7x12.125	3.2
14 x 4.5 x 8	14 x 4.5 x 8	14 x 4.5 x 8	3.3
2x / 2	2x / 2	2x / 2	3.5
789	803	803	3.6
822	822	822	3.7
8 / 8	8 / 8	8 / 8	4.1
2103	2103	2103	4.2
110	110	110	4.3
3085	3085	3085	4.4
-	-	-	4.5
2060	2060	2060	4.7
-	-	-	4.8
-	-	-	4.12
3103	3145	3173	4.19
2033	2075	2103	4.20
940	981	981	4.21
40x100x1070	40x100x1070	40x100x1070	4.22
IIA	IIA	IIA	4.23
-	-	-	4.24
82	82	82	4.31
127	127	127	4.32
-	-	-	4.34
3505	3547	3575	4.34
-	-	-	4.34
1930	1972	2000	4.35
-	-	-	4.36
16.9 / 17.0	16.9 / 17.0	16.9 / 17.0	5.1
570 / 610	560 / 610	540 / 610	5.2
470 / 430	470 / 430	470 / 430	5.3
-	-	-	5.5
1775 / 820	1717 / 800	1713 / 785	5.6
-	-	-	5.7
46.0 / 26.7	38.6 / 24.1	35.6 / 22.6	5.8
-	-	-	5.9
hydraulic	hydraulic	hydraulic	5.10
MMC 4G63	MMC 4G63	MMC 4G63	7.1
34.3	34.3	34.3	7.2
2600	2600	2600	7.3
4 / 1997	4 / 1997	4 / 1997	7.4
-	-	-	7.5
hydrodyn.	hydrodyn.	hydrodyn.	8.1
adjustable	adjustable	adjustable	8.2
-	-	-	8.3
80	80	80	8.4
-	-	-	8.5

Note:
All values shown are for standard lift truck with standard equipment.
If the truck is supplied with options, values may change.
All values given may vary +5% and -10% due the motor and system tolerances and repr
sent nominal values obtained under typical operating conditions.

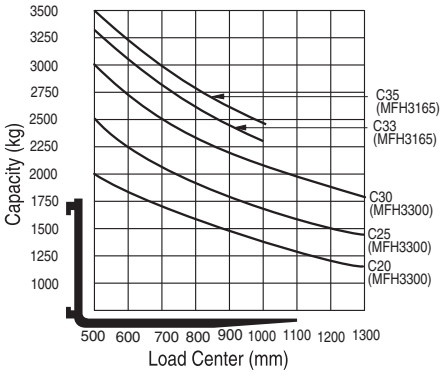
Demensions (C20-35 D)



For data see corresponding number in chart "Product Specifications"

Truck Capacities

Capacity at different load centres



NOTE

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of C20-30 : 3300mm, C33-35 : 3165mm.

The centre of gravity of the load may be displaced by max. 100mm against the longitudinal centre line of the truck. Load centre is determined from top and front face of forks. The values are based on a 1000mm, cube load configuration with the centre of gravity at the true centre of the cube. With upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights may reduce the capacity.

Product Specifications

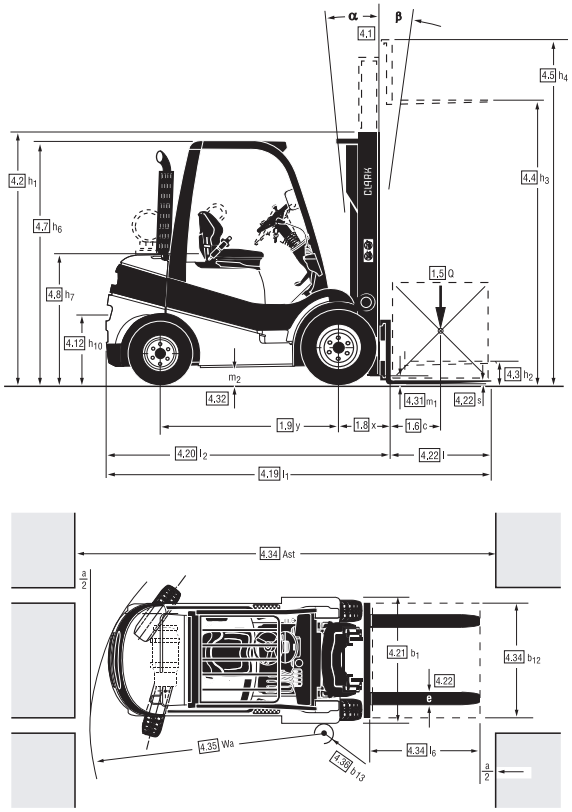
Specifications	1.1	**Manufacturer (Abbreviation)**	
	1.2	Manufacturer's designation	
	1.3	Drive unit Diesel, L.P. Gas	
	1.4	Operator type stand on / driver seated	
	1.5	Load capacity / rated load	Q (t)
	1.6	Load centre distance	c (mm)
	1.8	Load centre distance, centre of drive axle to fork face	x (mm)
	1.9	Wheelbase	y (mm)
WT	2.1	Service weight	kg
	2.2	Axle loading, laden front / rear	kg
	2.3	Axle loading, unladen front / rear	kg
Tyres, Chassis	3.1	Tyre type, P = pneumatic, SE = superelastic, C = cushion 1)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number front/rear (x = drive wheels)	
	3.6	Tread, front	b10 (mm)
	3.7	Tread, rear	b11 (mm)
Dimensions	4.1	Tilt of upright/fork carriage, α / β	degree
	4.2	Height, upright lowered	h1 (mm)
	4.3	Freelift	h2 (mm)
	4.4	Lift height 2)	h3 (mm)
	4.5	Height, upright extended 6)	h4 (mm)
	4.7	Height overheadguard (cab); Std / Container	h6 (mm)
	4.8	Seat height	h7 (mm)
	4.12	Coupling height	h10 (mm)
	4.19	Overall length	l1 (mm)
	4.20	Length to face of forks	l2 (mm)
	4.21	Width	b1, b2 (mm)
	4.22	Fork dimensions	s • e • l (mm)
	4.23	Fork carriage DIN 15173, A, B	
	4.24	Fork carriage width	b3 (mm)
	4.31	Ground clearance minimum, laden	m1 (mm)
	4.32	Ground clearance centre of wheelbase	m2 (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 800 x 1200	
	4.34	Stacking aisle for pallets (l6 • b12) 1000 x 1200	Ast (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 1200 x 800	Ast (mm)
	4.35	Turning radius	Wa (mm)
	4.36	Internal turning radius	b13 (mm)
Performances	5.1	Travel speed laden/unladen	km/h
	5.2	Lift speed laden/unladen	m/s
	5.3	Lowering speed laden/unladen	m/s
	5.5	Drawbar pull laden/unladen 3) 4)	kg
	5.6	Max. drawbar pull laden/unladen 4)	kg
	5.7	Gradeability laden/unladen 3) 4)	%
	5.8	Max. gradeability laden/unladen 4)	%
	5.9	Acceleration time laden/unladen (0 - 15 m)	s
	5.10	Service brake 6)	
I.C.-Engine	7.1	Manufacturer / Type	
	7.2	Rated output acc. DIN 70020	kW
	7.3	Rated speed acc. DIN 70020	r.p.m
	7.4	No. of cylinders / displacement	cc
	7.5	Fuel consumption acc. VDI-Cycles	Diesel= l/h, L.P.-Gas= kg/h
Miscellaneous	8.1	Type of control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level, driver's ear 5)	dB (A)
	8.5	Towing coupling, class/type DIN	

1) Optional with super-elastic tyres
2) Further lift heights see upright table
3) Laden with 1,6 km/h
4) Without load at friction coefficient μ = 0,8
5) Equivalent permanent sound-pressure level L pAeq,T in accordance with ISO EN 12053

CLARK					1.1
C20D	**C25D**	**C30D**	**C33D**	**C35D**	1.2
Diesel	Diesel	Diesel	Diesel	Diesel	1.3
Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	1.4
2000	2500	3000	3300	3500	1.5
500	500	500	500	500	1.6
455	455	455	475	475	1.8
1620	1620	1700	1700	1700	1.9
3411	3755	4189	4626	4626	2.1
4854 / 557	5576 / 679	6372 / 816	6901 / 1025	7069 / 1057	2.2
1675 / 1736	1602 / 2153	1687 / 2502	1697 / 2929	1697 / 2929	2.3
P	P	P	P	P	3.1
7.0 x 12 - 14PR	7.0 x 12 - 14PR	28x9x15-14PR	250 x 15 - 18PR	250 x 15 - 18PR	3.2
6.0 x 9 - 10PR	6.0 x 9 - 10PR	6.5 x 10 - 12PR	6.5 x 10 - 14PR	6.5 x 10 - 14PR	3.3
2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	3.5
994	994	1028	1050	1050	3.6
904	904	912	912	912	3.7
10 / 8	10 / 8	10 / 8	10 / 8	10 / 8	4.1
2165	2165	2180	2200	2200	4.2
110	110	110	115	115	4.3
3300	3300	3300	3165	3165	4.4
-	-	-	-	-	4.5
2165	2165	2180	2195	2195	4.7
-	-	-	-	-	4.8
-	-	-	-	-	4.12
3566	3628	3738	3837	3837	4.19
2496	2558	2668	2770	2770	4.20
1187	1187	1237	1315	1315	4.21
45 x 100 x 1070	45 x 100 x 1070	45 x 122 x 1070	50 x 122 x 1067	50 x 122 x 1067	4.22
IIA	IIA	IIIA	IIIA	IIIA	4.23
-	-	-	-	-	4.24
135	135	150	170	170	4.31
155	155	165	165	165	4.32
					4.34
3900	3955	4060	4155	4155	4.34
					4.34
2245	2300	2405	2480	2480	4.35
-	-	-	-	-	4.36
19.3[19.0] / 20.4[19.9]	19.3[19.0] / 20.4[19.9]	20.5[20.0] / 21.4[20.6]	21.1[20.6] / 21.7[21.2]	21.1[20.6] / 21.7[21.2]	5.1
560 / 650	550 / 650	540 / 650	500 / 630	500 / 630	5.2
470 / 430	470 / 430	470 / 430	470 / 430	470 / 430	5.3
-	-	-	-	-	5.5
2491[2463] / 1020	2510[2478] / 976	2288[2251] / 1027	2104[2090] / 1033	2104[2090] / 1033	5.6
-	-	-	-	-	5.7
49.3[51.1] / 23.0	43.5[43.4] / 20.1	33.2[33.0] / 19.4	27.3[26.5] / 17.6	27.3[26.5] / 17.6	5.8
-	-	-	-	-	5.9
hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	5.10
Yanmar 4TNV94L [4TNE98]	Yanmar 4TNV94L [4TNE98]	Yanmar 4TNV94L [4TNE98]	Yanmar 4TNV94L [4TNE98]	Yanmar 4TNV94L [4TNE98]	7.1
44.0 [44.3]	44.0 [44.3]	44.0 [44.3]	44.0 [44.3]	44.0 [44.3]	7.2
2500 [2300]	2500 [2300]	2500 [2300]	2500 [2300]	2500 [2300]	7.3
4 / 2800 [3319]	4 / 2800 [3319]	4 / 2800 [3319]	4 / 2800 [3319]	4 / 2800 [3319]	7.4
-	-	-	-	-	7.5
hydrodynamisk/trinnløs	hydrodynamisk/trinnløs	hydrodynamisk/trinnløs	hydrodynamisk/trinnløs	hydrodynamisk/trinnløs	8.1
adjustable	adjustable	adjustable	adjustable	adjustable	8.2
-	-	-	-	-	8.3
81	81	81	81	81	8.4
-	-	-	-	-	8.5

Note:
All values shown are for standard lift truck with standard equipment.
If the truck is supplied with options, values may change.
All values given may vary +5% and -10% due the motor and system tolerances and represent nominal values obtained under typical operating conditions.
[ ] : Specification for EPA Tier3 emission complied truck.

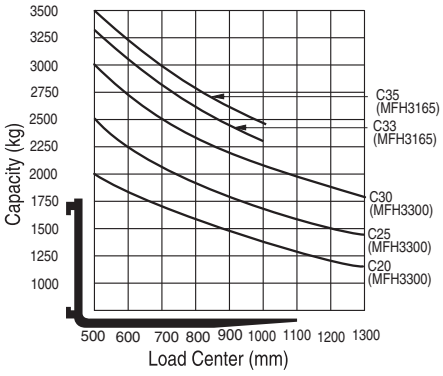
Demensions (C20-35 L)



For data see corresponding number in chart "Product Specifications"

Truck Capacities

Capacity at different load centres



NOTE

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of C20-30 : 3300mm, C33-35 : 3165mm.

The centre of gravity of the load may be displaced by max. 100mm against the longitudinal centre line of the truck. Load centre is determined from top and front face of forks. The values are based on a 1000mm, cube load configuration with the centre of gravity at the true centre of the cube. With upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights may reduce the capacity.

Product Specifications

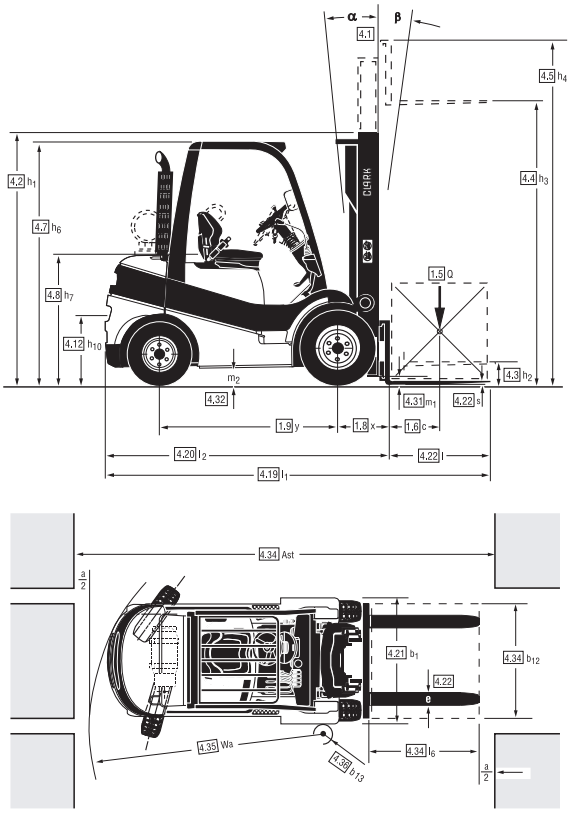
Specifications	1.1	**Manufacturer (Abbreviation)**	
	1.2	Manufacturer's designation	
	1.3	Drive unit Diesel, L.P. Gas	
	1.4	Operator type stand on / driver seated	
	1.5	Load capacity / rated load	Q (t)
	1.6	Load centre distance	c (mm)
	1.8	Load centre distance, centre of drive axle to fork face	x (mm)
	1.9	Wheelbase	y (mm)
WT	2.1	Service weight	kg
	2.2	Axle loading, laden front / rear	kg
	2.3	Axle loading, unladen front / rear	kg
Tyres, Chassis	3.1	Tyre type, P = pneumatic, SE = superelastic, C = cushion 1)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number front/rear (x = drive wheels)	
	3.6	Tread, front	b10 (mm)
	3.7	Tread, rear	b11 (mm)
Dimensions	4.1	Tilt of upright/fork carriage, α / β	degree
	4.2	Height, upright lowered	h1 (mm)
	4.3	Freelift	h2 (mm)
	4.4	Lift height 2)	h3 (mm)
	4.5	Height, upright extended 6)	h4 (mm)
	4.7	Height overheadguard (cab); Std / Container	h6 (mm)
	4.8	Seat height	h7 (mm)
	4.12	Coupling height	h10 (mm)
	4.19	Overall length	l1 (mm)
	4.20	Length to face of forks	l2 (mm)
	4.21	Width	b1, b2 (mm)
	4.22	Fork dimensions	s • e • l (mm)
	4.23	Fork carriage DIN 15173, A, B	
	4.24	Fork carriage width	b3 (mm)
	4.31	Ground clearance minimum, laden	m1 (mm)
	4.32	Ground clearance centre of wheelbase	m2 (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 800 x 1200	
	4.34	Stacking aisle for pallets (l6 • b12) 1000 x 1200	Ast (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 1200 x 800	Ast (mm)
	4.35	Turning radius	Wa (mm)
	4.36	Internal turning radius	b13 (mm)
Performances	5.1	Travel speed laden/unladen	km/h
	5.2	Lift speed laden/unladen	m/s
	5.3	Lowering speed laden/unladen	m/s
	5.5	Drawbar pull laden/unladen 3) 4)	kg
	5.6	Max. drawbar pull laden/unladen 4)	kg
	5.7	Gradeability laden/unladen 3) 4)	%
	5.8	Max. gradeability laden/unladen 4)	%
	5.9	Acceleration time laden/unladen (0 - 15 m)	s
	5.10	Service brake 6)	
I.C.-Engine	7.1	Manufacturer / Type	
	7.2	Rated output acc. DIN 70020	kW
	7.3	Rated speed acc. DIN 70020	r.p.m
	7.4	No. of cylinders / displacement	cc
	7.5	Fuel consumption acc. VDI-Cycles	Diesel= l/h, L.P.-Gas= kg/h
Miscellaneous	8.1	Type of control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level, driver's ear 5)	dB (A)
	8.5	Towing coupling, class/type DIN	

1) Optional with super-elastic tyres
2) Further lift heights see upright table
3) Laden with 1,6 km/h
4) Without load at friction coefficient μ = 0,8
5) Equivalent permanent sound-pressure level L pAeq,T in accordance with ISO EN 12053

CLARK					1.1
C20L	**C25L**	**C30L**	**C33L**	**C35L**	1.2
LPG	LPG	LPG	LPG	LPG	1.3
Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	1.4
2000	2500	3000	3300	3500	1.5
500	500	500	500	500	1.6
455	455	455	475	475	1.8
1620	1620	1700	1700	1700	1.9
3301	3645	4078	4516	4516	2.1
4817 / 484	5538 / 607	6332 / 747	6861 / 956	7005 / 1011	2.2
1638 / 1663	1565 / 2080	1647 / 2432	1656 /2860	1656 /2860	2.3
P	P	P	P	P	3.1
7.0 x 12 - 14PR	7.0 x 12 - 14PR	28 x 9 x 15 - 14PR	250 x 15 - 18PR	250 x 15 - 18PR	3.2
6.0 x 9 - 10PR	6.0 x 9 - 10PR	6.5 x 10 - 12PR	6.5 x 10 - 14PR	6.5 x 10 - 14PR	3.3
2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	3.5
994	994	1028	1050	1050	3.6
904	904	912	912	912	3.7
10 / 8	10 / 8	10 / 8	10 / 8	10 / 8	4.1
2165	2165	2180	2200	2200	4.2
110	110	110	115	115	4.3
3300	3300	3300	3165	3165	4.4
-	-	-	-	-	4.5
2165	2165	2180	2195	2195	4.7
-	-	-	-	-	4.8
-	-	-	-	-	4.12
3566	3628	3738	3837	3837	4.19
2496	2558	2668	2770	2770	4.20
1187	1187	1237	1315	1315	4.21
45 x 100 x 1070	45 x 100 x 1070	45 x 122 x 1070	50 x 122 x 1067	50 x 122 x 1067	4.22
IIA	IIA	IIIA	IIIA	IIIA	4.23
-	-	-	-	-	4.24
135	135	150	170	170	4.31
155	155	165	165	165	4.32
					4.34
3900	3955	4060	4155	4155	4.34
					4.34
2245	2300	2405	2480	2480	4.35
-	-	-	-	-	4.36
20.3 / 20.9	20.1 / 20.5	20.2 / 21.0	21.5 / 22.3	21.5 / 22.3	5.1
490 / 550	480 / 550	470 / 550	480 / 630	480 / 630	5.2
470 / 430	470 / 430	470 / 430	470 / 430	470 / 430	5.3
-	-	-	-	-	5.5
1717(1573) / 1018(997)	1722(1587) / 975(954)	1555(1429) / 1021(1002)	1545(1306) /1010(1008)	1545(1306) /1010(1008)	5.6
-	-	-	-	-	5.7
33.1(30.7) / 23.6(24.2)	28.4(26.3) / 20.6(21.0)	22.0(20.4) / 19.7(19.4)	19.6(17.6) / 17.3(16.8)	19.6(17.6) / 17.3(16.8)	5.8
-	-	-	-	-	5.9
hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	5.10
MMC 4G64	MMC 4G64	MMC 4G64	MMC 4G64	MMC 4G64	7.1
40.4 (32.4)	40.4 (32.4)	40.4 (32.4)	40.4 (32.4)	40.4 (32.4)	7.2
2600 (2200)	2600 (2200)	2600 (2200)	2600 (2200)	2600 (2200)	7.3
4 / 2350	4 / 2350	4 / 2350	4 / 2350	4 / 2350	7.4
-	-	-	-	-	7.5
hydrodynamisk/trinnløs	hydrodynamisk/trinnløs	hydrodynamisk/trinnløs	hydrodynamisk/trinnløs	hydrodynamisk/trinnløs	8.1
adjustable	adjustable	adjustable	adjustable	adjustable	8.2
-	-	-	-	-	8.3
79	79	79	79	79	8.4
-	-	-	-	-	8.5

Note:
All values shown are for standard lift truck with standard equipment.
If the truck is supplied with options, values may change.
All values given may vary +5% and -10% due the motor and system tolerances and represent nominal values obtained under typical operating conditions.
( ) : Specification for non-emission complied truck.

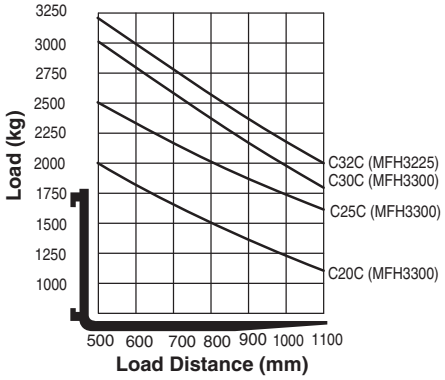
Demensions (C20C-32C L)



For data see corresponding number in chart "Product Specifications"

Truck Capacities

Capacity at different load centres



NOTE

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of C20-30 : 3300mm, C32 : 3225mm.

The centre of gravity of the load may be displaced by max. 100mm against the longitudinal centre line of the truck. Load centre is determined from top and front face of forks. The values are based on a 1000mm, cube load configuration with the centre of gravity at the true centre of the cube. With upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights may reduce the capacity.

Product Specifications

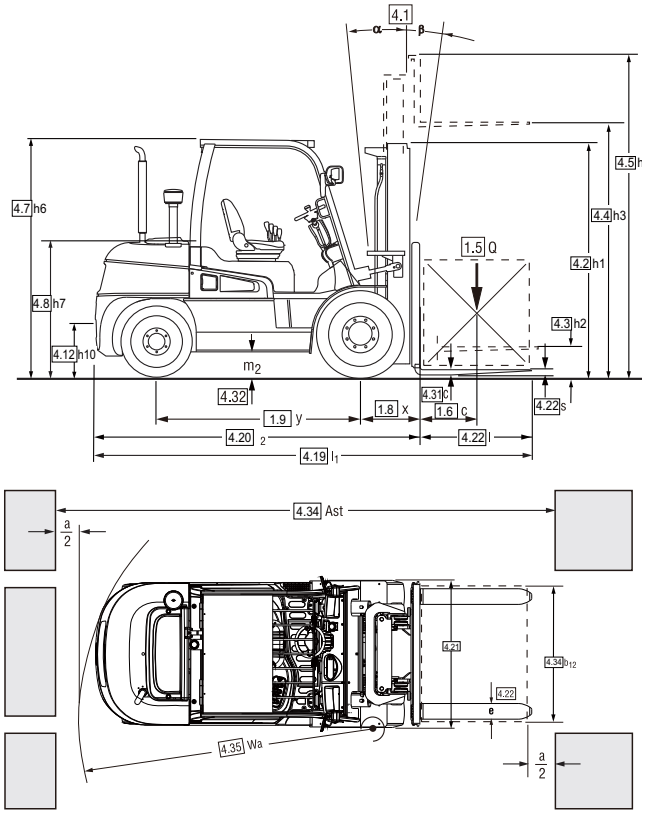
Specifications	1.1	**Manufacturer (Abbreviation)**	
	1.2	Manufacturer's designation	
	1.3	Drive unit Diesel, L.P. Gas	
	1.4	Operator type stand on / driver seated	
	1.5	Load capacity / rated load	Q (t)
	1.6	Load centre distance	c (mm)
	1.8	Load centre distance, centre of drive axle to fork face	x (mm)
	1.9	Wheelbase	y (mm)
WT	2.1	Service weight	kg
	2.2	Axle loading, laden front / rear	kg
	2.3	Axle loading, unladen front / rear	kg
Tyres, Chassis	3.1	Tyre type, P = pneumatic, SE = superelastic, C = cushion 1)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number front/rear (x = drive wheels)	
	3.6	Tread, front	b10 (mm)
	3.7	Tread, rear	b11 (mm)
Dimensions	4.1	Tilt of upright/fork carriage, α / β	degree
	4.2	Height, upright lowered	h1 (mm)
	4.3	Freelift	h2 (mm)
	4.4	Lift height 2)	h3 (mm)
	4.5	Height, upright extended 6)	h4 (mm)
	4.7	Height overheadguard (cab); Std / Container	h6 (mm)
	4.8	Seat height	h7 (mm)
	4.12	Coupling height	h10 (mm)
	4.19	Overall length	l1 (mm)
	4.20	Length to face of forks	l2 (mm)
	4.21	Width	b1, b2 (mm)
	4.22	Fork dimensions	s • e • l (mm)
	4.23	Fork carriage DIN 15173, A, B	
	4.24	Fork carriage width	b3 (mm)
	4.31	Ground clearance minimum, laden	m1 (mm)
	4.32	Ground clearance centre of wheelbase	m2 (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 800 x 1200	
	4.34	Stacking aisle for pallets (l6 • b12) 1000 x 1200	Ast (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 1200 x 800	Ast (mm)
	4.35	Turning radius	Wa (mm)
	4.36	Internal turning radius	b13 (mm)
Performances	5.1	Travel speed laden/unladen	km/h
	5.2	Lift speed laden/unladen	m/s
	5.3	Lowering speed laden/unladen	m/s
	5.5	Drawbar pull laden/unladen 3) 4)	kg
	5.6	Max. drawbar pull laden/unladen 4)	kg
	5.7	Gradeability laden/unladen 3) 4)	%
	5.8	Max. gradeability laden/unladen 4)	%
	5.9	Acceleration time laden/unladen (0 - 15 m)	s
	5.10	Service brake 6)	
I.C.-Engine	7.1	Manufacturer / Type	
	7.2	Rated output acc. DIN 70020	kW
	7.3	Rated speed acc. DIN 70020	r.p.m
	7.4	No. of cylinders / displacement	cc
	7.5	Fuel consumption acc. VDI-Cycles	Diesel= l/h, L.P.-Gas= kg/h
Miscellaneous	8.1	Type of control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level, driver's ear 5)	dB (A)
	8.5	Towing coupling, class/type DIN	

1) Optional with super-elastic tyres
2) Further lift heights see upright table
3) Laden with 1,6 km/h
4) Without load at friction coefficient μ = 0,8
5) Equivalent permanent sound-pressure level L pAeq,T in accordance with ISO EN 12053
6) Without load backrest

CLARK				1.1
C20CL	**C25CL**	**C30CL**	**C32CL**	1.2
LPG	LPG	LPG	LPG	1.3
Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	1.4
2000	2500	3000	3200	1.5
500	500	500	500	1.6
396	396	396	413	1.8
1400	1400	1400	1400	1.9
3479	3852	4278	4439	2.1
4764 / 715	5475 / 877	6210 / 1068	6555 / 1084	2.2
1484 / 1995	1375 / 2477	1290 / 2988	1268 / 3171	2.3
C	C	C	C	3.1
21 x 7 x 15	21 x 7 x 15	21 x 8 x 15	21 x 9 x 15	3.2
16 x 5 x 10.5	16 x 5 x 10.5	16 x 6 x 10.5	16 x 6 x 10.5	3.3
2x / 2	2x / 2	2x / 2	2x / 2	3.5
882	882	908	926	3.6
895	895	920	920	3.7
10 / 8	10 / 8	10 / 8	10 / 8	4.1
2115	2115	2115	2115	4.2
110	110	110	115	4.3
3300	3300	3300	3225	4.4
-	-	-	-	4.5
2105	2105	2105	2105	4.7
-	-	-	-	4.8
-	-	-	-	4.12
3318	3380	3429	3487	4.19
2248	2310	2359	2417	4.20
1080	1080	1111	1154	4.21
45 x 100 x 1070	45 x 100 x 1070	45 x 122 x 1070	50 x 122 x 1070	4.22
IIA	IIA	IIIA	IIIA	4.23
-	-	-	-	4.24
85	85	85	85	4.31
110	110	110	110	4.32
-	-	-	-	4.34
3571	3631	3686	3743	4.34
-	-	-	-	4.34
1975	2035	2090	2130	4.35
-	-	-	-	4.36
17.1 / 16.6	17.2 / 16.6	17.0 / 16.5	16.8 / 16.6	5.1
490 / 550	480 / 550	470 / 550	460 / 550	5.2
470 / 430	470 / 430	470 / 430	470 / 430	5.3
-	-	-	-	5.5
1880 / 963	1882 / 882	1810 / 816	1800 / 798	5.6
-	-	-	-	5.7
32.2/ 26.2	27.2 / 21.7	23.2 / 18.4	17.4 / 17.4	5.8
-	-	-	-	5.9
hydraulic	hydraulic	hydraulic	hydraulic	5.10
MMC 4G64	MMC 4G64	MMC 4G64	MMC 4G64	7.1
40.4 (32.4)	40.4 (32.4)	40.4 (32.4)	40.4 (32.4)	7.2
2600 (2200)	2600 (2200)	2600 (2200)	2600 (2200)	7.3
4 / 2350	4 / 2350	4 / 2350	4 / 2350	7.4
-	-	-	-	7.5
hydrodyn.	hydrodyn.	hydrodyn.	hydrodyn.	8.1
adjustable	adjustable	adjustable	adjustable	8.2
-	-	-	-	8.3
80	80	80	80	8.4
-	-	-	-	8.5

Note:
All values shown are for standard lift truck with standard equipment.
If the truck is supplied with options, values may change.
All values given may vary +5% and -10% due the motor and system tolerances and repr
sent nominal values obtained under typical operating conditions.
( ) : Specification for non-emission complied truck.

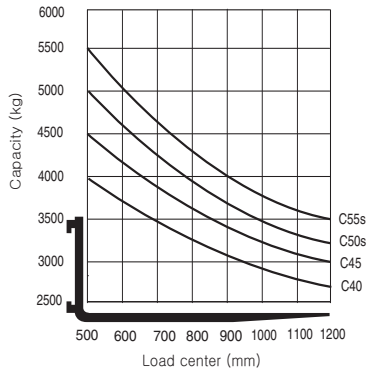
Demensions (C40-55s D)



For data see corresponding number in chart "Product Specifications"

Truck Capacities

Capacity at different load centres



NOTE

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of C40-50s : 3000mm, C55s : 2800mm.

The centre of gravity of the load may be displaced by max. 100mm against the longitudinal centre line of the truck. Load centre is determined from top and front face of forks. The values are based on a 1000mm, cube load configuration with the centre of gravity at the true centre of the cube. With upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights may reduce the capacity.

Product Specifications

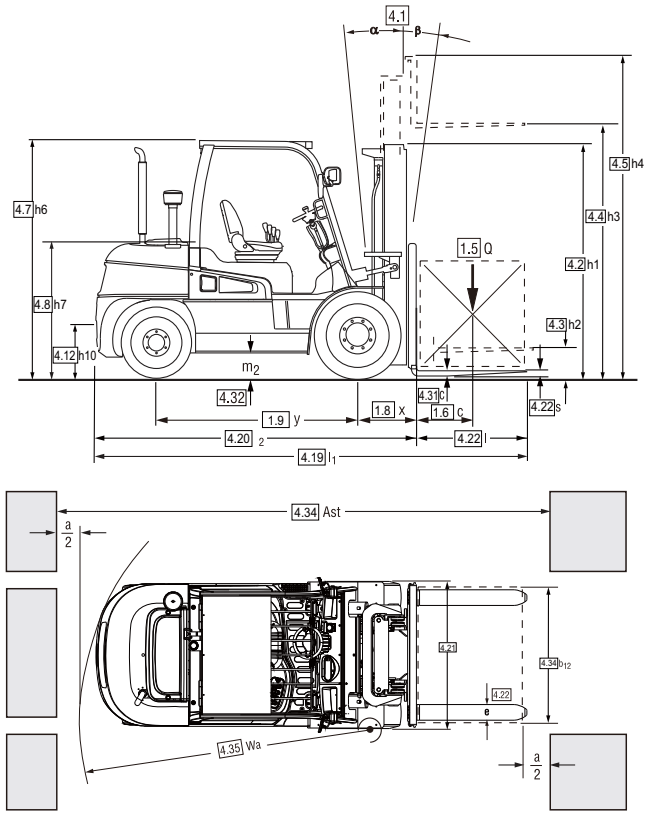
Specifications	1.1	**Manufacturer (Abbreviation)**	
	1.2	Manufacturer's designation	
	1.3	Drive unit Diesel, L.P. Gas	
	1.4	Operator type stand on / driver seated	
	1.5	Load capacity / rated load	Q (t)
	1.6	Load centre distance	c (mm)
	1.8	Load centre distance, centre of drive axle to fork face	x (mm)
	1.9	Wheelbase	y (mm)
WT	2.1	Service weight	kg
	2.2	Axle loading, laden front / rear	kg
	2.3	Axle loading, unladen front / rear	kg
Tyres, Chassis	3.1	Tyre type, P = pneumatic, SE = superelastic, C = cushion 1)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number front/rear (x = drive wheels)	
	3.6	Tread, front	b10 (mm)
	3.7	Tread, rear	b11 (mm)
Dimensions	4.1	Tilt of upright/fork carriage, α / β	degree
	4.2	Height, upright lowered	h1 (mm)
	4.3	Freelift	h2 (mm)
	4.4	Lift height 2)	h3 (mm)
	4.5	Height, upright extended	h4 (mm)
	4.7	Height overheadguard (cab); Std / Container	h6 (mm)
	4.8	Seat height	h7 (mm)
	4.12	Coupling height	h10 (mm)
	4.19	Overall length	l1 (mm)
	4.20	Length to face of forks	l2 (mm)
	4.21	Width	b1, b2 (mm)
	4.22	Fork dimensions	s • e • l (mm)
	4.23	Fork carriage DIN 15173, A, B	
	4.24	Fork carriage width	b3 (mm)
	4.31	Ground clearance minimum, laden	m1 (mm)
	4.32	Ground clearance centre of wheelbase	m2 (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 800 x 1200	
	4.34	Stacking aisle for pallets (l6 • b12) 1000 x 1200	Ast (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 1200 x 800	Ast (mm)
	4.35	Turning radius	Wa (mm)
	4.36	Internal turning radius	b13 (mm)
Performances	5.1	Travel speed, laden/unladen	km/h
	5.2	Lift speed, laden/unladen	m/s
	5.3	Lowering speed, laden / unladen	m/s
	5.5	Drawbar pull, laden / unladen 3) 4)	kg
	5.6	Max. drawbar pull, laden / unladen 4)	kg
	5.7	Gradeability, laden / unladen 3) 4)	%
	5.8	Max. gradeability, laden / unladen 4)	%
	5.9	Acceleration time, laden / unladen (0 - 15 m)	s
	5.10	Service brake 6)	
I.C.-Engine	7.1	Manufacturer / Type	
	7.2	Rated output acc. DIN 70020	kW
	7.3	Rated speed acc. DIN 70020	r.p.m
	7.4	No. of cylinders / displacement	cc
	7.5	Fuel consumption acc. VDI-Cycles	Diesel= l/h, L.P.-Gas= kg/h
Miscellaneous	8.1	Type of control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level, driver's ear 5)	dB (A)
	8.5	Towing coupling, class/type DIN	

1) Optional with super-elastic tyres
2) Further lift heights see upright table
3) Laden with 1,6 km/h
4) Without load at friction coefficient μ = 0,8
5) Equivalent permanent sound-pressure level L pAeq,T in accordance with ISO EN 12053

CLARK				1.1
C40D	**C45D**	**C50sD**	**C55sD**	1.2
Diesel	Diesel	Diesel	Diesel	1.3
Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	1.4
4000	4500	5000	5500	1.5
500	500	500	500	1.6
573	573	573	598	1.8
1950	1950	2100	2100	1.9
5986	6532	7129	7569	2.1
8247 / 1239	9214 / 1318	10197 / 1432	10964 / 1605	2.2
2641 / 3344	2807 / 3724	3183 / 3946	3112 / 4457	2.3
P	P	P	P	3.1
8.25x15-14PR	7.50x15-12PR	7.50x15-12PR	7.50x15-12PR	3.2
7.00x12-14PR	7.00x12-14PR	7.00x12-14PR	7.00x12-14PR	3.3
2x /2	2x /2	2x /2	2x /2	3.5
1165	1288	1288	1288	3.6
1134	1134	1134	1134	3.7
10 / 8	10 / 8	10 / 8	10 / 8	4.1
2234	2207	2207	2206	4.2
156	156	156	166	4.3
3000	3000	3000	2800	4.4
3769	3769	3769	3752	4.5
2253	2227	2226	2226	4.7
1265	1265	1265	1265	4.8
460	460	460	460	4.12
4113	4163	4453	4533	4.19
3043	3093	3233	3313	4.20
1400	1742	1742	1742	4.21
50x122x1070	50x122x1070	50x150x1220	60x150x1220	4.22
CL III A	CL III A	CL III A	CL IV A	4.23
1348	1678	1678	1678	4.24
169	142	142	141	4.31
212	186	185	185	4.32
				4.34
4616	4651	4820	4869	4.34
				4.34
2843	2878	3032	3071	4.35
				4.36
24.3 / 26.0 [24.1 / 25.0]	22.9 / 24.2 [23.2 / 23.7]	22.7 / 24.2 [23.0 / 23.6]	22.6 / 24.1 [22.9 / 23.6]	5.1
0.52 / 0.56	0.51 / 0.56	0.50 / 0.56	0.49 / 0.56	5.2
0.50 / 0.47	0.50 / 0.47	0.50 / 0.47	0.50 / 0.47	5.3
				5.5
3591 / 1687	3787 / 1789	3800 / 2052	3797 / 1993	5.6
				5.7
40.6 / 29.0 [43.5 / 29.0]	38.4 / 28.2 [41.1 / 28.2]	34.4 / 29.8 [36.7 / 29.8]	31.5 / 27.0 [33.7 / 27.0]	5.8
				5.9
				5.10
IVECO 4MNS	IVECO 4MNS	IVECO 4MNS	IVECO 4MNS	7.1
68 [67]	68 [67]	68 [67]	68 [67]	7.2
2300	2300	2300	2300	7.3
4 / 4480	4 / 4480	4 / 4480	4 / 4480	7.4
				7.5
				8.1
140	140	140	140	8.2
				8.3
				8.4
				8.5

Note:
All values shown are for standard lift truck with standard equipment.
If the truck is supplied with options, values may change.
All values given may vary +5% and -10% due the motor and system tolerances and represent nominal values obtained under typical operating conditions.
[ ] : Specification for EPA Tier3 emission complied truck.

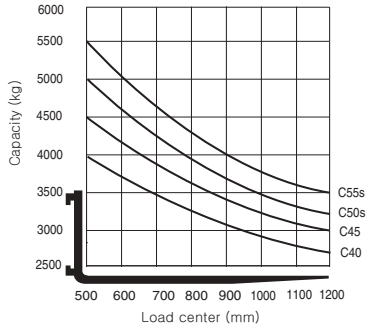
Demensions (C40-55s L)



For data see corresponding number in chart "Product Specifications"

Truck Capacities

Capacity at different load centres



NOTE

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of C40-50s : 3000mm, C55s : 2800mm.

The centre of gravity of the load may be displaced by max. 100mm against the longitudinal centre line of the truck. Load centre is determined from top and front face of forks. The values are based on a 1000mm, cube load configuration with the centre of gravity at the true centre of the cube. With upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights may reduce the capacity.

Product Specifications

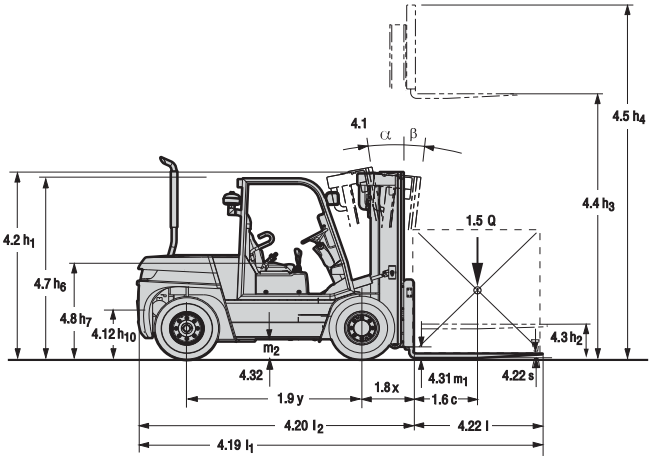
Specifications	1.1	**Manufacturer (Abbreviation)**	
	1.2	Manufacturer's designation	
	1.3	Drive unit Diesel, L.P. Gas	
	1.4	Operator type stand on / driver seated	
	1.5	Load capacity / rated load	Q (t)
	1.6	Load centre distance	c (mm)
	1.8	Load centre distance, centre of drive axle to fork face	x (mm)
	1.9	Wheelbase	y (mm)
WT	2.1	Service weight	kg
	2.2	Axle loading, laden front / rear	kg
	2.3	Axle loading, unladen front / rear	kg
Tyres, Chassis	3.1	Tyre type, P = pneumatic, SE = superelastic, C = cushion 1)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number front/rear (x = drive wheels)	
	3.6	Tread, front	b10 (mm)
	3.7	Tread, rear	b11 (mm)
Dimensions	4.1	Tilt of upright/fork carriage, α / β	degree
	4.2	Height, upright lowered	h1 (mm)
	4.3	Freelift	h2 (mm)
	4.4	Lift height 2)	h3 (mm)
	4.5	Height, upright extended	h4 (mm)
	4.7	Height overheadguard (cab); Std / Container	h6 (mm)
	4.8	Seat height	h7 (mm)
	4.12	Coupling height	h10 (mm)
	4.19	Overall length	l1 (mm)
	4.20	Length to face of forks	l2 (mm)
	4.21	Width	b1, b2 (mm)
	4.22	Fork dimensions	s • e • l (mm)
	4.23	Fork carriage DIN 15173, A, B	
	4.24	Fork carriage width	b3 (mm)
	4.31	Ground clearance minimum, laden	m1 (mm)
	4.32	Ground clearance centre of wheelbase	m2 (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 800 x 1200	
	4.34	Stacking aisle for pallets (l6 • b12) 1000 x 1200	Ast (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 1200 x 800	Ast (mm)
	4.35	Turning radius	Wa (mm)
	4.36	Internal turning radius	b13 (mm)
Performances	5.1	Travel speed, unladen	km/h
	5.2	Lift speed, laden / unladen	m/s
	5.3	Lowering speed, laden / unladen	m/s
	5.5	Drawbar pull, laden / unladen 3) 4)	kg
	5.6	Max. drawbar pull, laden / unladen 4)	kg
	5.7	Gradeability, laden / unladen 3) 4)	%
	5.8	Max. gradeability, laden / unladen 4)	%
	5.9	Acceleration time, laden / unladen (0 - 15 m)	s
	5.10	Service brake 6)	
I.C.-Engine	7.1	Manufacturer / Type	
	7.2	Rated output acc. DIN 70020	kW
	7.3	Rated speed acc. DIN 70020	r.p.m
	7.4	No. of cylinders / displacement	cc
	7.5	Fuel consumption acc. VDI-Cycles	Diesel= l/h, L.P.-Gas= kg/h
Miscellaneous	8.1	Type of control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level, driver's ear 5)	dB (A)
	8.5	Towing coupling, class/type DIN	

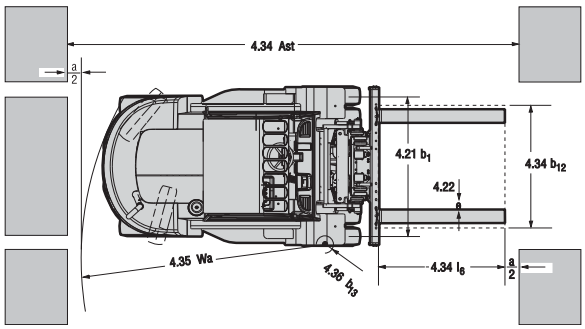
1) Optional with super-elastic tyres
2) Further lift heights see upright table
3) Laden with 1,6 km/h
4) Without load at friction coefficient μ = 0,8
5) Equivalent permanent sound-pressure level L pAeq,T in accordance with ISO EN 12053

CLARK				1.1
C40L	**C45L**	**C50sL**	**C55sL**	1.2
LPG	LPG	LPG	LPG	1.3
Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	1.4
4000	4500	5000	5500	1.5
500	500	500	500	1.6
573	573	573	598	1.8
1950	1950	2100	2100	1.9
5833	6379	6977	7417	2.1
8153 / 1180	9120 / 1259	10110 / 1377	10866/ 1551	2.2
2548 / 3285	2714/ 3665	3087 / 3890	3014 / 4403	2.3
P	P	P	P	3.1
8.25x15-14PR	7.50x15-12PR	7.50x15-12PR	7.50x15-12PR	3.2
7.00x12-14PR	7.00x12-14PR	7.00x12-14PR	7.00x12-14PR	3.3
2x /2	2x /2	2x /2	2x /2	3.5
1165	1288	1288	1288	3.6
1134	1134	1134	1134	3.7
10 / 8	10 / 8	10 / 8	10 / 8	4.1
2234	2207	2207	2206	4.2
156	156	156	166	4.3
3000	3000	3000	2800	4.4
3769	3769	3769	3752	4.5
2253	2227	2226	2226	4.7
1265	1265	1265	1265	4.8
460	460	460	460	4.12
4113	4163	4453	4533	4.19
3043	3093	3233	3313	4.20
1400	1742	1742	1742	4.21
50x122x1070	50x122x1070	50x150x1220	60x150x1220	4.22
CL III A	CL III A	CL III A	CL IV A	4.23
1348	1678	1678	1678	4.24
169	142	142	141	4.31
212	186	185	185	4.32
				4.34
4616	4651	4820	4869	4.34
				4.34
2843	2878	3032	3071	4.35
				4.36
23.3	21.9	21.7	21.8	5.1
0.47 / 0.53	0.46 / 0.53	0.45 / 0.53	0.44 / 0.53	5.2
0.50 / 0.47	0.50 / 0.47	0.50 / 0.47	0.50 / 0.47	5.3
				5.5
3200 / 1627	3382 / 1729	3384 / 1989	3380 / 1928	5.6
				5.7
36.2 / 28.7	34.2 / 27.8	30.7 / 28.0	28.1 / 26.0	5.8
				5.9
				5.10
GM V6 4.3	GM V6 4.3	GM V6 4.3	GM V6 4.3	7.1
69 (66.3)	69 (66.3)	69 (66.3)	69 (66.3)	7.2
2400	2400	2400	2400	7.3
6 / 4300	6 / 4300	6 / 4300	6 / 4300	7.4
				7.5
				8.1
140	140	140	140	8.2
				8.3
				8.4
				8.5

Note:
All values shown are for standard lift truck with standard equipment.
If the truck is supplied with options, values may change.
All values given may vary +5% and -10% due the motor and system tolerances and represent nominal values obtained under typical operating conditions.
( ) : Specification for non-emission complied truck.

Demensions (C60-80 D)

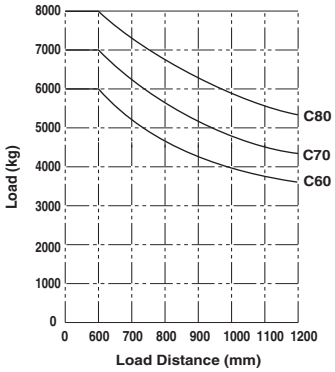




For data see corresponding number in chart "Product Specifications"

Truck Capacities

Capacity at different load centres



NOTE

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of C60-70 : 3000mm, C80 : 2800mm.

The centre of gravity of the load may be displaced by max. 100mm against the longitudinal centre line of the truck. Load centre is determined from top and front face of forks. The values are based on a 1200mm, cube load configuration with the centre of gravity at the true centre of the cube. With upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights may reduce the capacity.

Product Specifications

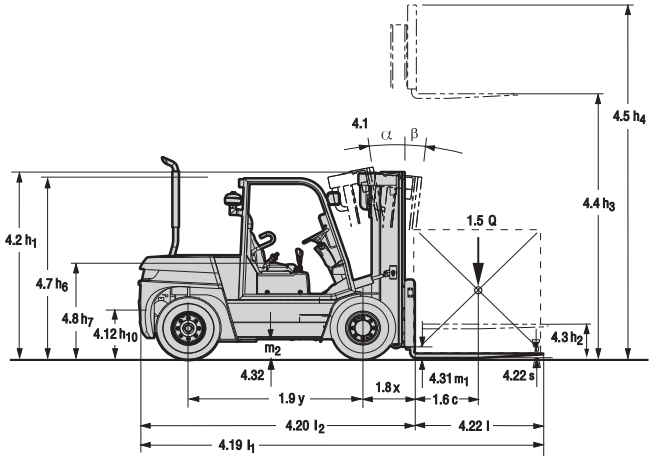
Specifications	1.1	**Manufacturer (Abbreviation)**	
	1.2	Manufacturer's designation	
	1.3	Drive unit Diesel, L.P. Gas	
	1.4	Operator type stand on / driver seated	
	1.5	Load capacity / rated load	Q (t)
	1.6	Load centre distance	c (mm)
	1.8	Load centre distance, centre of drive axle to fork face	x (mm)
	1.9	Wheelbase	y (mm)
WT	2.1	Service weight	kg
	2.2	Axle loading, laden front / rear	kg
	2.3	Axle loading, unladen front / rear	kg
Tyres, Chassis	3.1	Tyre type, P = pneumatic, SE = superelastic, C = cushion 1)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number front/rear (x = drive wheels)	
	3.6	Tread, front	b10 (mm)
	3.7	Tread, rear	b11 (mm)
Dimensions	4.1	Tilt of upright/fork carriage, α / β	degree
	4.2	Height, upright lowered	h1 (mm)
	4.3	Freelift	h2 (mm)
	4.4	Lift height 2)	h3 (mm)
	4.5	Height, upright extended 6)	h4 (mm)
	4.7	Height overheadguard (cab); Std / Container	h6 (mm)
	4.8	Seat height	h7 (mm)
	4.12	Coupling height	h10 (mm)
	4.19	Overall length	l1 (mm)
	4.20	Length to face of forks	l2 (mm)
	4.21	Width	b1, b2 (mm)
	4.22	Fork dimensions	s • e • l (mm)
	4.23	Fork carriage DIN 15173, A, B	
	4.24	Fork carriage width	b3 (mm)
	4.31	Ground clearance minimum, laden	m1 (mm)
	4.32	Ground clearance centre of wheelbase	m2 (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 800 x 1200	
	4.34	Stacking aisle for pallets (l6 • b12) 1000 x 1200	Ast (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 1200 x 800	Ast (mm)
	4.35	Turning radius	Wa (mm)
	4.36	Internal turning radius	b13 (mm)
Performances	5.1	Travel speed laden/unladen	km/h
	5.2	Lift speed laden/unladen	m/s
	5.3	Lowering speed laden/unladen	m/s
	5.5	Drawbar pull laden/unladen 3) 4)	kg
	5.6	Max. drawbar pull laden/unladen 4)	kg
	5.7	Gradeability laden/unladen 3) 4)	%
	5.8	Max. gradeability laden/unladen 4)	%
	5.9	Acceleration time laden/unladen (0 - 15 m)	s
	5.10	Service brake 6)	
I.C.-Engine	7.1	Manufacturer / Type	
	7.2	Rated output acc. DIN 70020	kW
	7.3	Rated speed acc. DIN 70020	r.p.m
	7.4	No. of cylinders / displacement	cc
	7.5	Fuel consumption acc. VDI-Cycles	Diesel= l/h, L.P.-Gas= kg/h
Miscellaneous	8.1	Type of control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level, driver's ear 5)	dB (A)
	8.5	Towing coupling, class/type DIN	

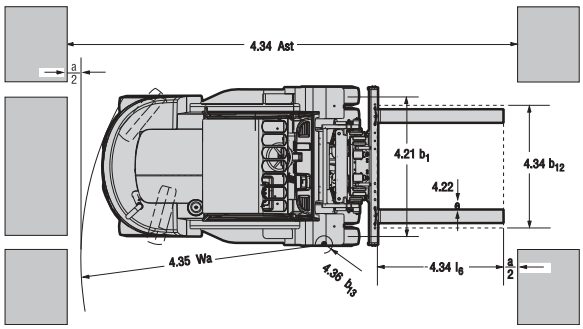
1) Optional with super-elastic tyres
2) Further lift heights see upright table
3) Laden with 1,6 km/h
4) Without load at friction coefficient μ = 0,8
5) Equivalent permanent sound-pressure level L pAeq,T in accordance with ISO EN 12053
6) Without load backrest

CLARK			1.1
C60D	**C70D**	**C80D**	1.2
Diesel	Diesel	Diesel	1.3
driver seated	driver seated	driver seated	1.4
6000	7000	8000	1.5
600	600	600	1.6
617	617	641	1.8
2250	2250	2500	1.9
9260	9630	10360	2.1
13296 / 1964	14717 / 1913	16186 / 2154	2.2
4050 / 5210	3931 / 5699	4231 / 6110	2.3
P / P	P / P	P / P	3.1
8.25x15-14PR	8.25x15-14PR	8.25x15-18PR	3.2
8.25x15-14PR	8.25x15-14PR	8.25x15-18PR	3.3
4x / 2	4x / 2	4x / 2	3.5
1575	1575	1575	3.6
1610	1610	1610	3.7
10 / 15	10 / 15	10 / 15	4.1
2480	2480	2480	4.2
222	222	232	4.3
3000	3000	2800	4.4
4232	4232	4025	4.5
2370	2370	2370	4.7
1320	1320	1320	4.8
-	-	-	4.12
4710	4770	5095	4.19
3510	3570	3895	4.20
2125	2125	2125	4.21
60x150x1200	60x150x1200	70x180x1200	4.22
Shaft type CL Ⅳ A	Shaft type CL Ⅳ A	Shaft type CL Ⅳ A	4.23
-	-	-	4.24
200	200	200	4.31
230	230	230	4.32
-	-	-	4.34
5237	5267	5616	4.34
-	-	-	4.34
3420	3450	3775	4.35
-	-	-	4.36
32.9 / 35.1 [31.9 / 34.3]	32.1 / 35.1 [31.4 / 34.4]	31.8 / 34.9 [31.0 / 34.2]	5.1
0.43 / 0.45	0.42 / 0.45	0.39 / 0.45	5.2
0.45 / 0.43	0.45 / 0.43	0.45 / 0.43	5.3
-	-	-	5.5
6859 / 1987 [6609 / 1987]	6983 / 1917 [6632 / 1917]	6997 / 1985 [6643 / 1985]	5.6
-	-	-	5.7
51.3 / 21.2 [46.3 / 21.2]	46.3 / 19.8 [41.7 / 19.8]	41.2 / 19.2 [37.0 / 19.2]	5.8
-	-	-	5.9
Wet disc brake	Wet disc brake	Wet disc brake	5.10
IVECO F4GE0454A	IVECO F4GE0454A	IVECO F4GE0454A	7.1
74 [67]	74 [67]	74 [67]	7.2
2300	2300	2300	7.3
4 / 4500	4 / 4500	4 / 4500	7.4
-	-	-	7.5
Hydrodynamic	Hydrodynamic	Hydrodynamic	8.1
adjustable	adjustable	adjustable	8.2
-	-	-	8.3
83	83	83	8.4
-	-	-	8.5

Note:
All values shown are for standard lift truck with standard equipment.
If the truck is supplied with options, values may change.
All values given may vary +5% and -10% due the motor and system tolerances and represent nominal values obtained under typical operating conditions.
[ ] : Specification for EPA Tier3 emission complied truck.

Demensions (C60-75 L)

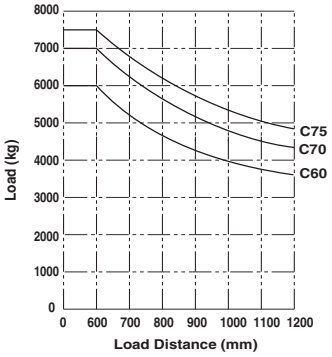




For data see corresponding number in chart "Product Specifications"

Truck Capacities

Capacity at different load centres



NOTE

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of C60-75 : 3000mm.

The centre of gravity of the load may be displaced by max. 100mm against the longitudinal centre line of the truck. Load centre is determined from top and front face of forks. The values are based on a 1200mm, cube load configuration with the centre of gravity at the true centre of the cube. With upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights may reduce the capacity.

Product Specifications

Specifications	1.1	**Manufacturer (Abbreviation)**	
	1.2	Manufacturer's designation	
	1.3	Drive unit Diesel, L.P. Gas	
	1.4	Operator type stand on / driver seated	
	1.5	Load capacity / rated load	Q (t)
	1.6	Load centre distance	c (mm)
	1.8	Load centre distance, centre of drive axle to fork face	x (mm)
	1.9	Wheelbase	y (mm)
WT	2.1	Service weight	kg
	2.2	Axle loading, laden front / rear	kg
	2.3	Axle loading, unladen front / rear	kg
Tyres, Chassis	3.1	Tyre type, P = pneumatic, SE = superelastic, C = cushion 1)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number front/rear (x = drive wheels)	
	3.6	Tread, front	b10 (mm)
	3.7	Tread, rear	b11 (mm)
Dimensions	4.1	Tilt of upright/fork carriage, α / β	degree
	4.2	Height, upright lowered	h1 (mm)
	4.3	Freelift	h2 (mm)
	4.4	Lift height 2)	h3 (mm)
	4.5	Height, upright extended 6)	h4 (mm)
	4.7	Height overheadguard (cab); Std / Container	h6 (mm)
	4.8	Seat height	h7 (mm)
	4.12	Coupling height	h10 (mm)
	4.19	Overall length	l1 (mm)
	4.20	Length to face of forks	l2 (mm)
	4.21	Width	b1, b2 (mm)
	4.22	Fork dimensions	s • e • l (mm)
	4.23	Fork carriage DIN 15173, A, B	
	4.24	Fork carriage width	b3 (mm)
	4.31	Ground clearance minimum, laden	m1 (mm)
	4.32	Ground clearance centre of wheelbase	m2 (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 800 x 1200	
	4.34	Stacking aisle for pallets (l6 • b12) 1000 x 1200	Ast (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 1200 x 800	Ast (mm)
	4.35	Turning radius	Wa (mm)
	4.36	Internal turning radius	b13 (mm)
Performances	5.1	Travel speed laden/unladen	km/h
	5.2	Lift speed laden/unladen	m/s
	5.3	Lowering speed laden/unladen	m/s
	5.5	Drawbar pull laden/unladen 3) 4)	kg
	5.6	Max. drawbar pull laden/unladen 4)	kg
	5.7	Gradeability laden/unladen 3) 4)	%
	5.8	Max. gradeability laden/unladen 4)	%
	5.9	Acceleration time laden/unladen (0 - 15 m)	s
	5.10	Service brake 6)	
I.C.-Engine	7.1	Manufacturer / Type	
	7.2	Rated output acc. DIN 70020	kW
	7.3	Rated speed acc. DIN 70020	r.p.m
	7.4	No. of cylinders / displacement	cc
	7.5	Fuel consumption acc. VDI-Cycles	Diesel= l/h, L.P.-Gas= kg/h
Miscellaneous	8.1	Type of control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level, driver's ear 5)	dB (A)
	8.5	Towing coupling, class/type DIN	

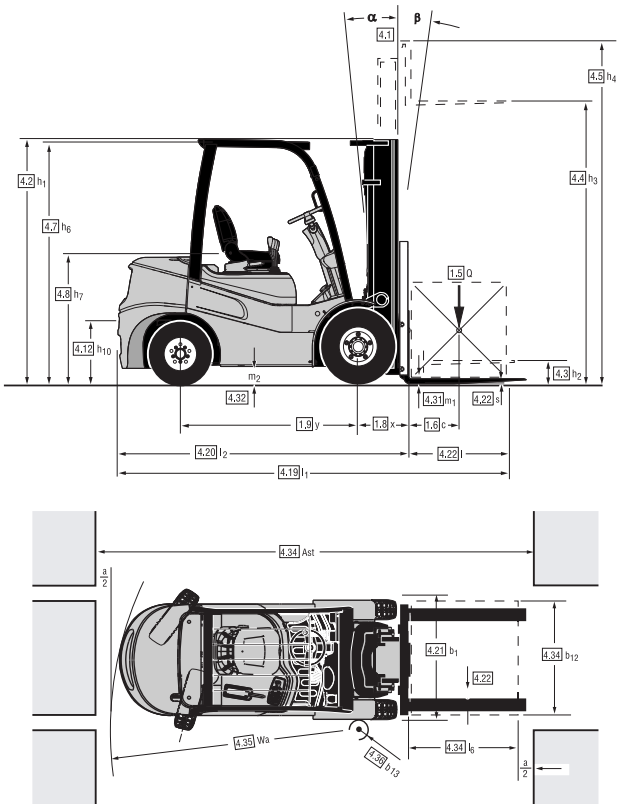
1) Optional with super-elastic tyres
2) Further lift heights see upright table
3) Laden with 1,6 km/h
4) Without load at friction coefficient μ = 0,8
5) Equivalent permanent sound-pressure level L pAeq,T in accordance with ISO EN 12053
6) Without load backrest

CLARK			1.1
C60L	**C70L**	**C75L**	1.2
LPG	LPG	LPG	1.3
driver seated	driver seated	driver seated	1.4
6000	7000	7500	1.5
600	600	600	1.6
617	617	641	1.8
2250	2250	2500	1.9
9029	9399	9542	2.1
13221 / 1808	14642 / 1757	15471 / 1571	2.2
3976 / 5053	3856 / 5543	3914 / 5628	2.3
L / L	L / L	L / L	3.1
8.25x15-14PR	8.25x15-14PR	8.25x15-14PR	3.2
8.25x15-14PR	8.25x15-14PR	8.25x15-14PR	3.3
4x / 2	4x / 2	4x / 2	3.5
1575	1575	1575	3.6
1610	1610	1610	3.7
10 / 15	10 / 15	10 / 15	4.1
2480	2480	2480	4.2
222	222	222	4.3
3000	3000	3000	4.4
4232	4232	4232	4.5
2370	2370	2370	4.7
1320	1320	1320	4.8
-	-	-	4.12
4710	4770	4770	4.19
3510	3570	3570	4.20
2125	2125	2125	4.21
60x150x1200	60x150x1200	60x180x1200	4.22
Shaft type CL Ⅳ A	Shaft type CL Ⅳ A	Shaft type CL Ⅳ A	4.23
-	-	-	4.24
200	200	200	4.31
230	230	230	4.32
-	-	-	4.34
5237	5267	5267	4.34
-	-	-	4.34
3420	3450	3450	4.35
-	-	-	4.36
29.3 / 31.4	29.0 / 30.2	28.3 / 29.6	5.1
0.44 / 0.49	0.42 / 0.49	0.39 / 0.49	5.2
0.45 / 0.43	0.45 / 0.43	0.45 / 0.43	5.3
-	-	-	5.5
6100 / 2380	6400 / 2310	6060 / 2340	5.6
-	-	-	5.7
41.0 / 21.4	42.2 / 20.0	38.4 / 20.0	5.8
-	-	-	5.9
Wet disc brake	Wet disc brake	Wet disc brake	5.10
GM V6	GM V6	GM V6	7.1
69	69	69	7.2
2400	2400	2400	7.3
6 / 4300	6 / 4300	6 / 4300	7.4
-	-	-	7.5
Hydrodynamic	Hydrodynamic	Hydrodynamic	8.1
adjustable	adjustable	adjustable	8.2
-	-	-	8.3
82.7	82.7	82.7	8.4
-	-	-	8.5

Note:
All values shown are for standard lift truck with standard equipment.
If the truck is supplied with options, values may change.
All values given may vary +5% and -10% due the motor and system tolerances and represent nominal values obtained under typical operating conditions.

( ) : Specification for non-emission complied truck.

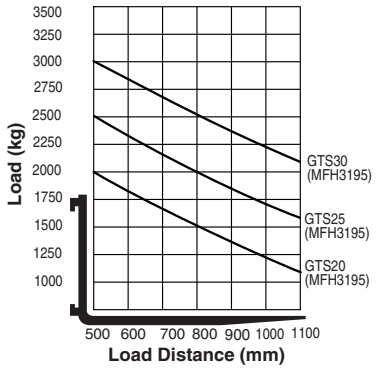
Demensions (GTS20-30)



For data see corresponding number in chart "Product Specifications"

Truck Capacities

Capacity at different load centres



NOTE

The listed capacities are valid only for the standard upright in vertical position with standard fork carriage and standard forks, up to max. lifting height of 3195mm.

The centre of gravity of the load may be displaced by max. 100mm against the longitudinal centre line of the truck. Load centre is determined from top and front face of forks. The values are based on a 1000mm, cube load configuration with the centre of gravity at the true centre of the cube. With upright tilted forward lower capacity values are valid. Attachments, longer forks, exceptional load dimensions and higher lifting heights may reduce the capacity.

Product Specifications

Specifications	1.1	**Manufacturer (Abbreviation)**	
	1.2	Manufacturer's designation	
	1.3	Drive unit Diesel, L.P. Gas	
	1.4	Operator type stand on / driver seated	
	1.5	Load capacity / rated load	Q (t)
	1.6	Load centre distance	c (mm)
	1.8	Load centre distance, centre of drive axle to fork face	x (mm)
	1.9	Wheelbase	y (mm)
WT	2.1	Service weight	kg
	2.2	Axle loading, laden front / rear	kg
	2.3	Axle loading, unladen front / rear	kg
Tyres, Chassis	3.1	Tyre type, P = pneumatic, SE = superelastic, C = cushion 1)	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Wheels, number front/rear (x = drive wheels)	
	3.6	Tread, front	b10 (mm)
	3.7	Tread, rear	b11 (mm)
Dimensions	4.1	Tilt of upright/fork carriage, α / β	degree
	4.2	Height, upright lowered	h1 (mm)
	4.3	Freelift	h2 (mm)
	4.4	Lift height 2)	h3 (mm)
	4.5	Height, upright extended 6)	h4 (mm)
	4.7	Height overheadguard (cab); Std / Container	h6 (mm)
	4.8	Seat height	h7 (mm)
	4.12	Coupling height	h10 (mm)
	4.19	Overall length	l1 (mm)
	4.20	Length to face of forks	l2 (mm)
	4.21	Width	b1, b2 (mm)
	4.22	Fork dimensions	s • e • l (mm)
	4.23	Fork carriage DIN 15173, A, B	
	4.24	Fork carriage width	b3 (mm)
	4.31	Ground clearance minimum, laden	m1 (mm)
	4.32	Ground clearance centre of wheelbase	m2 (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 800 x 1200	
	4.34	Stacking aisle for pallets (l6 • b12) 1000 x 1200	Ast (mm)
	4.34	Stacking aisle for pallets (l6 • b12) 1200 x 800	Ast (mm)
	4.35	Turning radius	Wa (mm)
	4.36	Internal turning radius	b13 (mm)
Performances	5.1	Travel speed laden/unladen	km/h
	5.2	Lift speed laden/unladen	m/s
	5.3	Lowering speed laden/unladen	m/s
	5.5	Drawbar pull laden/unladen 3) 4)	kg
	5.6	Max. drawbar pull laden/unladen 4)	kg
	5.7	Gradeability laden/unladen 3) 4)	%
	5.8	Max. gradeability laden/unladen 4)	%
	5.9	Acceleration time laden/unladen (0 - 15 m)	s
	5.10	Service brake 6)	
I.C.-Engine	7.1	Manufacturer / Type	
	7.2	Rated output acc. DIN 70020	kW
	7.3	Rated speed acc. DIN 70020	r.p.m
	7.4	No. of cylinders / displacement	cc
	7.5	Fuel consumption acc. VDI-Cycles	Diesel= l/h, L.P.-Gas= kg/h
Miscellaneous	8.1	Type of control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level, driver's ear 5)	dB (A)
	8.5	Towing coupling, class/type DIN	

1) Optional with super-elastic tyres
2) Further lift heights see upright table
3) Laden with 1,6 km/h
4) Without load at friction coefficient μ = 0,8
5) Equivalent permanent sound-pressure level L pAeq,T in accordance with ISO EN 12053
6) Without load backrest

CLARK						1.1
GTS20D	**GTS25D**	**GTS30D**	**GTS20L**	**GTS25L**	**GTS30L**	1.2
Diesel	Diesel	Diesel	LPG	LPG	LPG	1.3
Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	Rider counterbalanced	1.4
2000	2500	3000	2000	2500	3000	1.5
500	500	500	500	500	500	1.6
455	455	465	455	455	465	1.8
1620	1620	1700	1620	1620	1700	1.9
3550 {3470}	3840 {3780}	4270 {4160}	3380	3730	4080	2.1
4790 / 750 {4720 / 710}	5500 / 890 {5390 / 890}	6380 / 930 {6320 / 860}	4680 / 680	5350 / 860	6260 / 850	2.2
1560 / 1990 {1530 / 1940}	1450 / 2390 {1420 / 2360}	1600 / 2670 {1540 / 2620}	1480 / 1900	1380 / 2350	1500 / 2580	2.3
P	P	P	P	P	P	3.1
7.0 x 12 - 14PR	7.0 x 12 - 14PR	28x9x15-14PR	7.0 x 12 - 14PR	7.0 x 12 - 14PR	28 x 9 x 15 - 14PR	3.2
6.0 x 9 - 10PR	6.0 x 9 - 10PR	6.5 x 10 - 12PR	6.0 x 9 - 10PR	6.0 x 9 - 10PR	6.5 x 10 - 12PR	3.3
2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	3.5
996	996	1029	994	994	1028	3.6
904	904	904	904	904	904	3.7
10 / 6	10 / 6	10 / 6	10 / 6	10 / 6	10 / 6	4.1
2170	2170	2180	2165	2165	2180	4.2
110	110	110	110	110	110	4.3
3195	3195	3195	3195	3195	3195	4.4
4414	4414	4414	4414	4414	4414	4.5
2165	2165	2180	2165	2165	2180	4.7
1219	1219	1229	1219	1219	1229	4.8
360	360	360	360	360	360	4.12
3643 {3620}	3737 {3715}	3842 {3820}	3620	3620	3820	4.19
2573 {2550}	2667 {2645}	2772 {2750}	2550	2645	2750	4.20
1180	1180	1250 {1237}	1180	1180	1237	4.21
45 x 100 x 1070	45 x 100 x 1070	45 x 122 x 1070	45x100x1070	45x100x1070	45x122x1070	4.22
CL IIA	CL IIA	CL IIIA	CL IIA	CL IIA	CL IIIA	4.23
1041	1041	1041	1041	1041	1041	4.24
135	135	150	135	135	150	4.31
150 {155}	150 {155}	165	155	155	165	4.32
			-	-	-	4.34
3945	4035	4135	3965	4035	4145	4.34
			-	-	-	4.34
2290 {2310}	2380	2480	2310	2380	2480	4.35
-	-	-	-	-	-	4.36
20.0 / 20.5 {19.8 / 20.3}	20.0 / 20.5 {19.8 / 20.3}	20.0 / 21.0 {21.3 / 21.6}	17.0 / 17.4	16.9 / 17.5	17.5 / 17.6	5.1
0.53 / 0.55 {0.56 / 0.62}	0.52 / 0.55 {0.55 / 0.62}	0.50 / 0.55 {0.53 / 0.62}	0.46 / 0.50	0.45 / 0.50	0.42 / 0.50	5.2
0.54 / 0.50 {0.53 / 0.43}	0.54 / 0.50 {0.53 / 0.43}	0.54 / 0.50 {0.53 / 0.43}	0.53 / 0.43	0.53 / 0.43	0.53 / 0.43	5.3
-	-	-	-	-	-	5.5
2240 / 1000 {2148 / 950}	2255 / 1000 {2110 / 924}	2080 / 1000 {1810 / 1055}	1773 / 1000	1705 / 960	1798 / 1030	5.6
-	-	-	-	-	-	5.7
43.5 / 21.2 {40.8 / -}	37.6 / 18.2 {33.1 / -}	29.4 / 18.2 {26.0/ -}	34.8 / 22.7	30.2 / 19.4	24.7 / 19.0	5.8
-	-	-	-	-	-	5.9
Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	5.10
Yanmar 4TNV98 {4TNE94L}	Yanmar 4TNV98 {4TNE94L}	Yanmar 4TNV98 {4TNE94L}	MMC 4G64	MMC 4G64	MMC 4G64	7.1
46.9 {45.7}	46.9 {45.7}	46.9 {45.7}	40.4(32.4)	40.4(32.4)	40.4(32.4)	7.2
2200 {2450}	2200 {2450}	2200 {2450}	2600(2200)	2600(2200)	2600(2200)	7.3
4 / 3319 {3054}	4 / 3319 {3054}	4 / 3319 {3054}	4 / 2350	4 / 2350	4 / 2350	7.4
-	-	-	-	-	-	7.5
hydrodyn.	hydrodyn.	hydrodyn.	hydrodyn.	hydrodyn.	hydrodyn.	8.1
adjustable	adjustable	adjustable	adjustable	adjustable	adjustable	8.2
-	-	-	-	-	-	8.3
85	85	85	82	82	82	8.4
-	-	-	-	-	-	8.5

Note:
All values shown are for standard lift truck with standard equipment.
If the truck is supplied with options, values may change.
All values given may vary +5% and -10% due the motor and system tolerances and repr
sent nominal values obtained under typical operating conditions.
{ } : Specification for Yanmar engine 4TNE94L . (Diesel)
( ) : Specification for non-emission complied truck. (LPG)