## C 50s

Diesel or LPG engine Pneumatic Tires
$4000 \mathrm{~kg} \quad 4500 \mathrm{~kg} 5000 \mathrm{~kg} 5500 \mathrm{~kg}$


## DIMENSIONS

## C 50s


$A_{24}=W a+\sqrt{\left(I_{6}+x\right)^{2}+\left(\frac{b_{12}}{2}-b_{13}\right)^{2}}+a$
gilt nur bei / applies only if $\frac{b_{12}}{2} \geq b_{13}$
$a=200$

## gENERAL DATA

Truck Capacities Capacity at different load centres


500600700800900100011001200 Load center in mm

Note：
The listed capaciies are valid only for the standard upright in verical position with standard fork carriage and standard forks，up to max．lifiting height of 3300 mm ．The centre of gravity of the load may be displaced by max． 100 mm against the longitudinal centre plane of the truck．Load centre is determined from top and front face of the forks．The values are based on a 1000 mm cube load configuration with the centre of gravity at the true centre of the cube．With upright itited forward lower capacity values are valid．Attachments，longer forks，exceptional load dimensions and higher lifting heights can reduce the capacity．Please talk to your CLARK dealer if you require further information．

## Upright table C50s

| Mastipe | Maximum Furk Haight （h3） | $\begin{gathered} \text { Mast } \\ \text { Cowered } \\ (\mathrm{h})^{\prime \prime} \end{gathered}$ | $\begin{aligned} & \text { Mast Extansed } \\ & (\Delta \Delta) \end{aligned}$ |  | $\begin{aligned} & \text { Free Lift } \\ & \text { (h2) } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | with load beckest | without hat backrest | with lood tackrest | without had beskest＂ |
|  | mm | mm | mm | mm | mm | mm |
| Stunderd | 2500 | 1992／9957 | 3752 | 3269 | 156 | 156 |
|  | 2700 | 2092／2057 | 3952 | 3469 |  |  |
|  | 3000 | 2242／2207 | 4252 | 3769 |  |  |
|  | 3300 | 2392／2357 | 4552 | 4069 |  |  |
|  | 3500 | 2492／2457 | 4752 | 4269 |  |  |
|  | 3700 | 2592／2557 | 4952 | 4469 |  |  |
|  | 4000 | 2742／2707 | 5252 | 4769 |  |  |
|  | 4500 | 2992／2957 | 5752 | 5269 |  |  |
|  | 5000 | 3242／3207 | 6252 | 5769 |  |  |
| Triple | 2450 | 1607／572 | 3702 | 3219 | 387／352 | 870／835 |
|  | 3700 | 2024／989 | 4952 | 4469 | 804／769 | 1287／252 |
|  | 4000 | 2124／2089 | 5252 | 4769 | 904／869 | 1387／352 |
|  | 4300 | 2224／2189 | 5552 | 5069 | 1004／969 | 1487／452 |
|  | 4500 | 2291／2256 | 5752 | 5269 | 1071／1036 | 1554／1519 |
|  | 4800 | 2391／2356 | 6052 | 5569 | 1171／1136 | 1654／1619 |
|  | 5000 | 2458／2423 | 6252 | 5769 | 1238／203 | 1721／1686 |
|  | 5500 | 2625／2590 | 6752 | 6269 | 1405／3370 | 1888／885 |
|  | 6000 | 2792／2757 | 7252 | 6769 | 1572／1537 | 2055／2020 |
|  | 6500 | 2959／2924 | 752 | 7269 | 1739／704 | 2222／2187 |
|  | 7000 | 3126／3091 | 8252 | 7769 | 1906／8771 | 2389／2354 |
| H1－LO | 2700 | 214／2106 | 3951 | 3468 | 921／886 | 1404／369 |
|  | 3000 | 2291／2256 | 4251 | 3768 | 1077／1036 | 1554／519 |
|  | 3300 | 2441／2406 | 4551 | 4088 | 1221／186 | 1704／1669 |

## SPECIFICATIONS

Product Specifications acc． 10 Vol 2198

| 1．1 Manufacturer（Abbreviation） |  |  | CLARK |
| :---: | :---: | :---: | :---: |
|  | 1．2 Manufacturer＇s designation |  | C50sD |
|  | 1．3 Drive unit Diesel，LP．Gas |  | Diesel |
|  | 1．4 Operator type stand on／divier seated |  | Divier seated |
|  | 1.5 Load capaciy／／rated load | Q（kg） | 5000 |
|  | 1.6 Load centre distance | c （mm） | 500 |
|  | 1．8 Load centre distance，centre of dive axle to fork face | $\times(\mathrm{mm})$ | 573 |
|  | 1.9 Wheelbase | y （mm） | 2100 |
| $\begin{aligned} & \text { 憲 } \\ & \text { Sn } \end{aligned}$ | 2．1 Senice weigh ${ }^{\text {5 }}$ | kg | $7033(1764)$ |
|  | 2．2 Axte loading，laden fron／／raar＊5 | kg | 1033710986｜1076／1088］ |
|  | 2．3 Axel loading，unladen front／rear ${ }^{\circ} 5$ | kg | 3085 38489327438940 |
|  | 3．1 Tyre ype， $\mathrm{P}=$ p pneumatic， $\mathrm{SE}=$ superilasic， $\mathrm{C}=$ cusshion ${ }^{\circ} 1$ |  | P |
|  | 3．2 Tyre size，from＊ 5 |  | 300X15－18PR （7．50×15－12PR） |
|  | 3．3 Tyre size，rear |  | 7．00×12－14PR |
|  | 3．5 Wheels，number fron／riear（ $\mathrm{X}=$ divive wheels）${ }^{*} 5$ |  | 2（4）／2 |
|  | 3.6 Tread，front＊5 blo（mm） |  | 1112（1288） |
|  | 3.7 Tread，rear bll（mm） |  | 1134 |
|  | 4.1 Tilt of upigh／fiork cariage，$\alpha / \beta$ Grad |  | 10／8 |
| 4.2 Height，upight lowered ${ }^{5} 5 \mathrm{~m}$ |  |  | 2384（2357） |
|  | 4.3 Freeift $\quad \mathrm{h} 2(\mathrm{~mm})$ |  | 156 |
|  | 4.4 Lit height＊2 $\quad$ h3 $(\mathrm{mm})$ |  | 3300 |
|  | 4．5 Height，upright exended（with LBR）$\quad \mathrm{h} 4(\mathrm{~mm})$ |  | 4552 |
|  | 4．7 Height overheadguard $\mathrm{St} / \mathrm{cabin}{ }^{*} 5 \quad \mathrm{~h} 6(\mathrm{~mm})$ |  | 2324／2371 <br> （2310／2357） |
|  | 4.8 Seat height | h7（mm） | 1265 |
|  | 4.12 Coupling height | h10（mm） | 460 |
|  | 4.19 Overall lengh | $11(\mathrm{~mm})$ | 4453 |
| 㐌 | 4．20 Lenght toface of forks | 12（mm） | 3233 |
| 言 | 4.21 With＊5 | b1．b2（mm） | 1400（1742） |
|  | 4.22 Fork dimensions | $\mathrm{s} \cdot \mathrm{e} \cdot 1(\mathrm{~mm})$ | $50 \times 150 \times 1219$ |
|  | 4．23 Fork carriage DIN 15173，A，B |  | Class III A |
|  | 4．24 Fork carriage width＊5 | b3（mm） | 1348｜1678） |
|  | 4．31 Ground dlearance minimum＊5 | m1（mm） | 177（141） |
|  | 4.32 Ground clearance centre of wheelbase＊5 | m2（mm） | 221（185） |
|  | 4．33 Aisle width for pallets（16．612） $1000 \times 1200$ crossways | Ast（mm） | 4805 |
|  | 4.34 Aisle width for pallets（16－12） $800 \times 1200$ lengtiway | Asstmm） | 5005 |
|  | 4.35 Outside turning radius | Wa（mm） | 3032 |
|  | 4.36 Smallest pivot poind distance＊5 | b 13 （mm） | 1020｜1021） |
| 를 | 5．1 Travel speed lader／unladen＊5 | km／h | 24．9／26．9［24．0／25．5］ |
|  | 5.2 Litis speed Idden／unladen | m／s | 0．50／0．56 |
|  | 5．3 Lowering speed Iaden／unladen | m／s | 0．50／0．47 |
|  | 5.6 Max．drawbar pull laden／unladen ${ }^{*} 3$＊5 | N | 1432014479 $144898 / 5685$ |
|  | 5．8 Max．gradeability laden／unladen＊3＊ | \％ | 411．121．3（42．3／21．8） |
|  | 5．9 Acceleration ime laden／unladen（ $0-15 \mathrm{~m}$ ） | s | － |
|  | 5.10 Serice brake |  | Wetdisc rrake |
|  | 7．1 Manufacurer／Type＊6 |  | Kubota V3800 |
|  | 7．2 Rated output acc．To ISO 1585 | kN | 68.6 |
|  | 7．3 Rateed speed | min－1 | 2400 |
|  | 7.4 No．of ellinderis／displacement | $/ \mathrm{cm}^{3}$ | 4／3769 |
|  | 7．5 Fuel consumpion acc．VDI－Cycdus Diesel $=$ | $V \mathrm{~h} . \mathrm{Gas}=\mathrm{kg} / \mathrm{h}$ | － |
| 家 | 8.2 Operating pressure for atachments | bar | 140 |
|  | 8.3 Oil volume for atacachments | V min | － |
|  | 8．4 Sound level，diver＇s ear＊4 | dB（A） | 83 |
|  | 8.5 Towing coupling，class／vpe DIN |  | － |

1）Optional with super－elastic tyres＊2Futher lift heights see upright table＊3 with $1.6 \mathrm{~km} / \mathrm{h}$ Whthout load at fricion coefficient $\mu=0.8 * 4$ Equivalent permanent sound－pressure level $L$ pAeq，$T$ in accordance with $D$ DIN $E N$ 12053 （previosly DIN 45635－36）＊5 Values for Dual Tyre＊6 Diesel＝Tier3／LPG＝Tier0
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．Specifications for Non－emission limited truck．

The C40-55s series from CLARK marks a further development in the reliable, durable and powerful forklift s of the premium Gen2 series. Lower operating and maintenance costs combined with a well-designed and ergonomic operators compartment are what makes this forklift truly unique. The sturdy „Built to last" upright and a robust construction with no thin metal or plastic components means these forklifts are suitable for use under even the toughest conditions.

## Driver's cab

The driver accesses his ergonomically designed compartment via a large, low positioned perforated non-slip metal step. A grab handle on the drivers side of entry makes it easy to climb up and down. A full width rubber floor covering in the footwell prevents slippage.
The adjustable steering column $\left(30^{\circ}\right)$ with two spoke steering wheel and an easy-toadjust, yet comfortable seat together with impressive leg room allow perfect adaptation to any driver.
Automotive style foot pedals and fully directional hood mounted control levers with international symbols avoid confusion for any operator
The operating data is displayed in real-time on the clear TFT LCD colour display.
A low front cowl and ingenious narrow profile arrangement of the chains and hoses on the upright ensure a wide field of vision for the driver.
Easily accessible storage compartments and an ideally positioned automotive style hand brake, set this driver's cab apart.

## Engine, Transmission

The CLARK C40-55s forklifts with LPG or diesel power enable excellent acceleration and high driving performance. These extremely robust modern engines are at the top end of the performance class. A Kubota V3800T diesel engine with 92 HP at 2400 revolutions per minute is just as impressive as the LPG propelled GM V6 with 4.3 litres. Both engine versions are connected to a proven manual two-gear transmission.
To protect your investment, the temperature of the engine and transmission is constantly monitored and in the event of design limits being exceeded the engine is automatically switched off. Heavy Duty flexible coupling of the engine/transmission and drive axle reduces vibrations and noises to a minimum.
All engines comply with EU directives ensuring low noise and exhaust emissions.

## Brake system

Wet disc service brakes and an independent drum parking brake ensure a reliable high level of safety. Power assisted service brakes ensure that the work is undertaken in a relaxed and stress free manner with full focus on the task in hand. A stress free comfortable operator, works always at his peak ensuring optimum productivity over the complete shift.

## Steering system

The hydrostatic power steering eliminates steering Kick-Back,makes steering easy and reaches full lock with just a few turns of the steering wheel. The steering axle has pivotal bearings mounted in rubber steel elements. The spherical bearing mounted short tie rods are adjustment free and guarantee precise and continuous driving in a straight line. The double acting steer cylinder ensures precise and direct steering. The axle kingpins are mounted in lubricated tapered roller bearings for long service life.

## Hydraulic system

A full-flow reverse filter, filters the oil to the tank at each reverse flow. Rough particles are filtered directly via a suction filter, thereby preventing them from entering the oil circuit, ensuring a long service life for all hydraulic components. With 88 litres in the C40/C45 and 100 litres in the C50/55, there is always enough hydraulic oil available for the highest upright and all attachments.
A high-capacity pump provides adequate oil supply for the upright and the hydrostatic steering. A priority distributor ensures steering priority in all conditions. Load handling is controlled via a load sensitive-response and precise control valve. A safety valve provides extra safety and prevents an uncontrolled lowering of the load at all times.

## Upright

The clear-view uprights are available in Standard, Hilo and Triplex versions. The heavy duty interlocked narrow profiles provide high strength even under the heaviest load. Adjustable sealed canted(Angled) rollers minimize deflection particularly when handling off-set loads.
The tilt cylinders are mounted in spherical bearings. This consequently extends the service life of the complete cylinder by preventing premature leaks due to cylinder rod deflection. An integral tilt-lock valve prevents unintentional tilting of the upright when the power is off.
The heavy duty tapered forged forks with hook or shaft mounting are adjustable and locked by individual pins.
An hydraulic dampening system reduces impacts and vibrations during the transition between the individual lifting sections in raising and lowering, thus protecting the products and extending service life. The sturdy 6 -roller fork carriage with adjustable side thrust rollers enhances the durability of this design, preventing carriage "Jamming" when handling off-set loads.

## Additional standard equipment

Front headlights, direction indicator lights, combination rear lights with brake lights and white reversing light, pneumatic tyres, acoustic reversing alarm, paintwork in the bright safety colour "CLARK Green", driver's compartment and upright in black, rims in white.

## Additional equipment

SE tyres, air-conditioned (only for diesel engine) or heated cabs, integrated or hook on sideshifts, various other attachments, fuel cap lock, quick-release couplings, various seats, reduced driver's overhead guard height and much more.

## Security

The C40-55s series is CE certified and corresponds to all European safety standards for forklift trucks.

Talk to your CLARK dealer to find the optimum equipment for you.

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