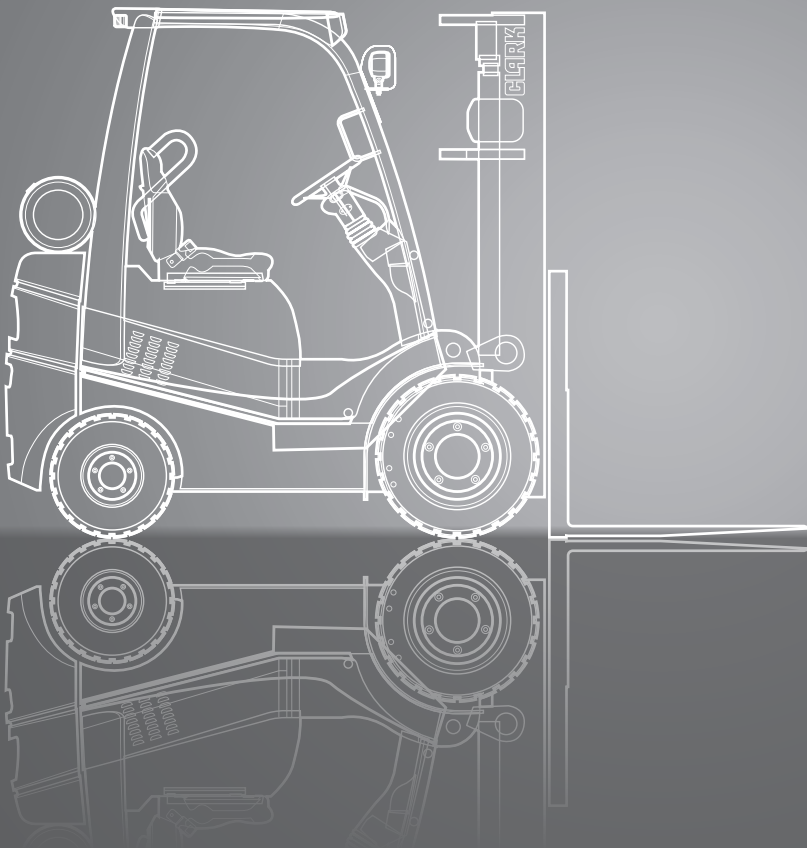


C15/18/20s

Diesel or LPG engine

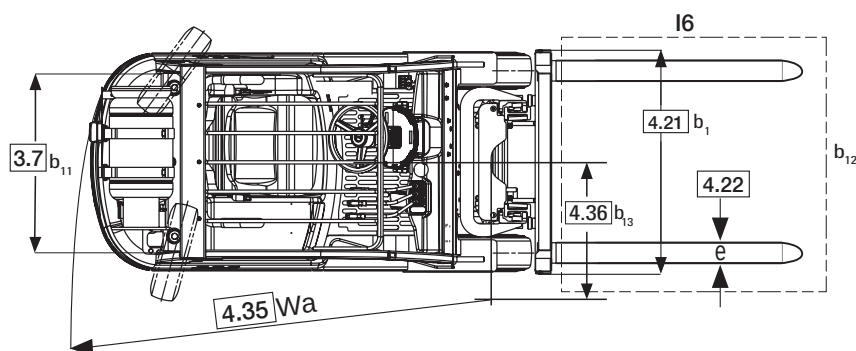
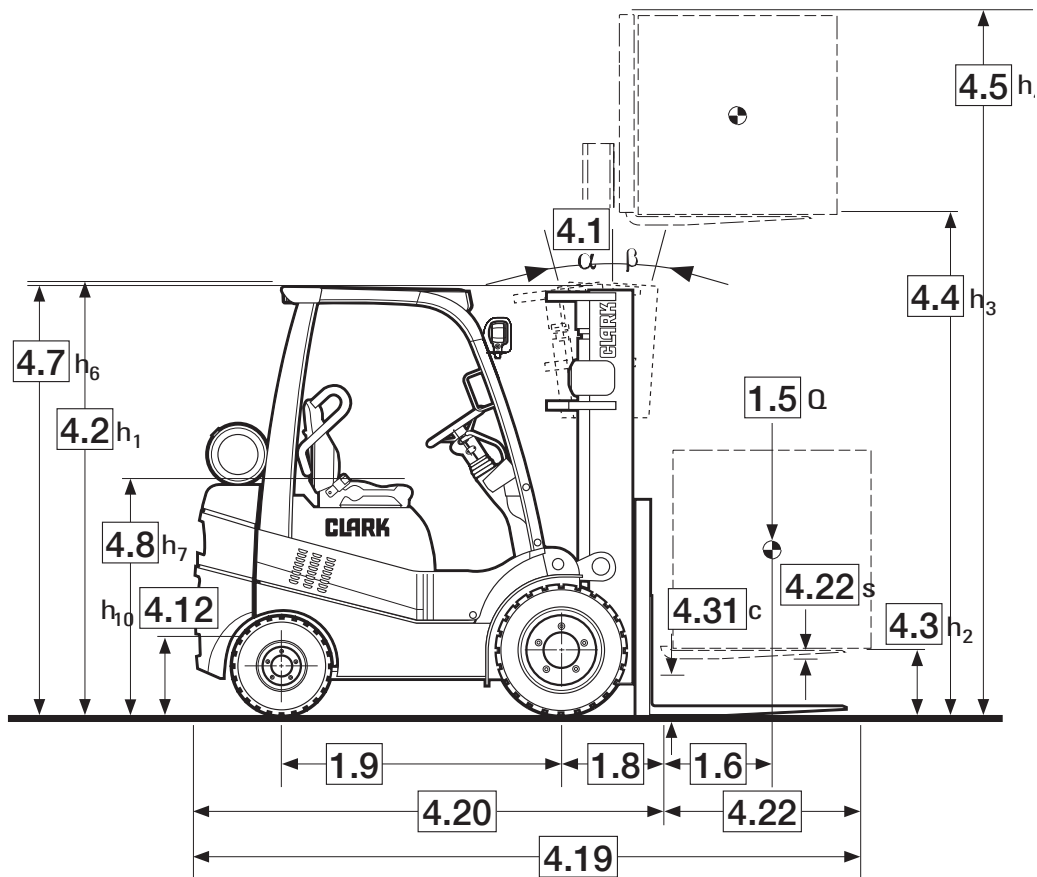
Pneumatic or Superelastic tyres

1.500 kg 1.800 kg 2.000 kg



DIMENSIONS

C15/18/20s



$$A_{st} = Wa + x + l_6 + a$$

applies only if $\frac{b_{12}}{2} < b_{13}$

$$A_{st} = Wa + \sqrt{(l_6 + x)^2 + \left(\frac{b_{12}}{2} - b_{13}\right)^2} + a$$

applies only if $\frac{b_{12}}{2} \geq b_{13}$

$a = 200$

SPECIFICATIONS

Product Specifications acc. to VDI 2198

1.1 Manufacturer (Abbreviation)		CLARK	CLARK	CLARK
Specifications	1.2 Manufacturer's designation	C15D	C18D	C20sD
	1.3 Drive unit Diesel, LPG	Diesel	Diesel	Diesel
	1.4 Operator type stand on / driver seated	Driver seated	Driver seated	Driver seated
	1.5 Load capacity / rated load Q (kg)	1500	1800	2000
	1.6 Load centre distance c (mm)	500	500	500
	1.8 Load centre distance, centre of drive axle to fork face x (mm)	392	392	397
	1.9 Wheelbase y (mm)	1400	1400	1400
Weight	2.1 Service weight kg	2798	3021	3168
	2.2 Axle loading, laden front / rear kg	3744/554	4176/645	4459/709
	2.3 Axle loading, unladen front / rear kg	1283/1515	1224/1797	1179/1989
Tyres, Chassis	3.1 Tyre type, P = pneumatic, SE = superelastic 1)	P	P	P
	3.2 Tyre size, front	6,50 x 10 - 12PR	6,50 x 10 - 12PR	6,50 x 10 - 12PR
	3.3 Tyre size, rear	5,00 x 8 - 10PR	5,00 x 8 - 10PR	5,00 x 8 - 10PR
	3.5 Wheels, number front/rear (x = drive wheels)	2x / 2	2x / 2	2x / 2
	3.6 Tread, front b10 (mm)	890	890	890
	3.7 Tread, rear b11 (mm)	890	890	890
Dimensions	4.1 Tilt of upright/fork carriage, a / Grad	8 / 8	8 / 8	8 / 8
	4.2 Height, upright lowered h1(mm)	2240	2240	2240
	4.3 Freelif h2(mm)	110	110	110
	4.4 Lift height 2) h3(mm)	3285	3285	3285
	4.5 Height, upright extended (with LBR) h4(mm)	4502	4502	4507
	4.7 Height overheadguard Std /(Cabin) *5 h6(mm)	2120 (2135)	2120 (2135)	2120 (2135)
	4.8 Seat height h7(mm)	1100	1100	1100
	4.12 Coupling height h10(mm)	310	310	310
	4.19 Overall length l1(mm)	3266	3311	3358
	4.20 Length to face of forks l2(mm)	2196	2241	2288
	4.21 Width b1, b2 (mm)	1070	1070	1070
	4.22 Fork dimensions s • e • l (mm)	40X100X1070	40X100X1070	40X100X1070
	4.23 Fork carriage DIN 15173, A, B	CLASS IIA	CLASS IIA	CLASS IIA
	4.24 Fork carriage width b3 (mm)	940	940	940
	4.31 Ground clearance minimum m1 (mm)	120	120	120
	4.32 Ground clearance centre of wheelbase m2 (mm)	124	124	124
	4.33 Aisle width for pallets (l6-b12) 1000 x 1200 crossways Ast(mm)	3665	3713	3751
	4.34 Aisle width for pallets (l6-b12) 800 x 1200 lengthways Ast(mm)	3865	3913	3951
Performances	4.35 Outside turning radius Wa(mm)	2073	2121	2154
	4.36 Internal turning radius b 13(mm)	571	571	571
	5.1 Travel speed laden/unladen km/h	17,2 / 17,9	17,6 / 17,9	17,4 / 17,9
	5.2 Lift speed laden/unladen m/s	0,57 / 0,61	0,56 / 0,61	0,54 / 0,61
	5.3 Lowering speed laden/unladen m/s	0,47 / 0,43	0,47 / 0,43	0,47 / 0,43
	5.6 Max. drawbar pull laden/unladen 3) 4) N	14.950 / 7.514	15.019 / 7.171	15.088 / 6.916
I.C. - Engine	5.8 Max. gradeability laden/unladen 3) 4) %	37,5 / 20,9	33,2 / 18,6	31,3 / 17,1
	5.10 Service brake	Drum&Shoe	Drum&Shoe	Drum&Shoe
	7.1 Manufacturer / Type 6)	Yanmar 4TNV88	Yanmar 4TNV88	Yanmar 4TNV88
	7.2 Rated output acc. To SAE J1349 kW	28,8	28,8	28,8
	7.3 Rated speed min-1	2400	2400	2400
	7.4 No. of cylinders / displacement /cm3	4 / 2190	4 / 2190	4 / 2190
Miscellaneous	7.5 Fuel consumption acc. VDI-CyclusDiesel= l/h, L.P.-Gas= kg/h	-	-	-
	8.2 Operating pressure for attachments bar	max. 140	max. 140	max. 140
	8.3 Oil volume for attachments l/min	max. 35	max. 35	max. 35
	8.4 Sound level, driver's ear acc. EN 12053 dB (A)	81	81	81
	8.5 Towing coupling, class/type DIN	PIN	PIN	PIN

*1) Optional with super-elastic tyres *2) Further lift heights see upright table *3) With 1.6 km/h *4) Without load at friction coefficient $\mu = 0.6$

*5) Height overheadguard with Radio +60m *6) Diesel = Stage 3a /LPG = Stage 0 (PSI/4G63) OPTION : LPG Stage 4 (PSI/4G63)

Product Specifications acc. to VDI 2198

1.1 Manufacturer (Abbreviation)		CLARK	CLARK	CLARK
Specifications	1.2 Manufacturer's designation	C15L	C18L	C20sL
	1.3 Drive unit Diesel, LPG	LPG	LPG	LPG
	1.4 Operator type stand on / driver seated	Driver seated	Driver seated	Driver seated
	1.5 Load capacity / rated load Q (kg)	1500	1800	2000
	1.6 Load centre distance c (mm)	500	500	500
	1.8 Load centre distance, centre of drive axle to fork face x (mm)	392	392	392
	1.9 Wheelbase y (mm)	1400	1400	1400
Weight	2.1 Service weight kg	2785	3009	3156
	2.2 Axle loading, laden front / rear kg	3733/552	4166/643	4449/707
	2.3 Axle loading, unladen front / rear kg	1277/1508	1219/1790	1175/1981
Tyres, Chassis	3.1 Tyre type, P = pneumatic, SE = superelastic 1)	P	P	P
	3.2 Tyre size, front	6,50 x 10 - 12PR	6,50 x 10 - 12PR	6,50 x 10 - 12PR
	3.3 Tyre size, rear	5,00 x 8 - 10PR	5,00 x 8 - 10PR	5,00 x 8 - 10PR
	3.5 Wheels, number front/rear (x = drive wheels)	2x / 2	2x / 2	2x / 2
	3.6 Tread, front b10 (mm)	890	890	890
	3.7 Tread, rear b11 (mm)	890	890	890
Dimensions	4.1 Tilt of upright/fork carriage, a / b Grad	8 / 8	8 / 8	8 / 8
	4.2 Height, upright lowered h1(mm)	2140	2140	2140
	4.3 Freelif h2(mm)	105	105	110
	4.4 Lift height 2) h3(mm)	3285	3285	3285
	4.5 Height, upright extended (with LBR) h4(mm)	4502	4502	4507
	4.7 Height overheadguard Std /(Cabin) *5 h6(mm)	2120 (2135)	2120 (2135)	2120 (2135)
	4.8 Seat height h7(mm)	1100	1100	1100
	4.12 Coupling height h10(mm)	310	310	310
	4.19 Overall length l1(mm)	3271	3316	3358
	4.20 Length to face of forks l2(mm)	2201	2246	2288
	4.21 Width b1, b2 (mm)	1070	1070	1070
	4.22 Fork dimensions s • e • l (mm)	40 x 100 x 1070	40 x 100 x 1070	40 x 100 x 1070
	4.23 Fork carriage DIN 15173, A, B	CLASS IIA	CLASS IIA	CLASS IIA
	4.24 Fork carriage width b3 (mm)	940	940	940
	4.31 Ground clearance minimum m1 (mm)	120	120	120
	4.32 Ground clearance centre of wheelbase m2 (mm)	124	124	124
	4.33 Aisle width for pallets (l6-b12) 1000 x 1200 crossways Ast(mm)	3670	3718	3751
	4.34 Aisle width for pallets (l6-b12) 800 x 1200 lengthways Ast(mm)	3865	3913	3951
	4.35 Outside turning radius Wa(mm)	2073	2121	2154
	4.36 Internal turning radius b 13(mm)	571	571	571
Performances	5.1 Travel speed laden/unladen km/h	17,4 / 18,4	17,2 / 18,4	17,0 / 17,7
	5.2 Lift speed laden/unladen m/s	0,570 / 0,610	0,560 / 0,610	0,540 / 0,610
	5.3 Lowering speed laden/unladen m/s	0,45 / 0,42	0,45 / 0,42	0,45 / 0,42
	5.6 Max. drawbar pull laden/unladen 3) 4) N	14.470 / 7.514	14.774 / 7.171	14.931 / 6.916
	5.8 Max. gradeability laden/unladen 3) 4) %	36.0 / 19.9	32.5 / 17.4	37.0 / 17.1
	5.10 Service brake	Drum&Shoe	Drum&Shoe	Drum&Shoe
I.C. - Engine	7.1 Manufacturer / Type 6)	PSI/4G63	PSI/4G63	PSI/4G63
	7.2 Rated output acc. To SAE J1349 kW	36,8	36,8	36,8
	7.3 Rated speed min-1	2650	2650	2650
	7.4 No. of cylinders / displacement /cm3	4 / 1997	4 / 1997	4 / 1997
	7.5 Fuel consumption acc. VDI-CyclusDiesel= l/h, L.P.-Gas= kg/h	-	-	-
Miscellaneous	8.2 Operating pressure for attachments bar	max. 140	max. 140	max. 140
	8.3 Oil volume for attachments l/min	max. 35	max. 35	max. 35
	8.4 Sound level, driver's ear acc. EN 12053 dB (A)	79	79	79
	8.5 Towing coupling, class/type DIN	PIN	PIN	PIN

*1) Optional with super-elastic tyres

*2) Further lift heights see upright table

*3) With 1.6 km/h

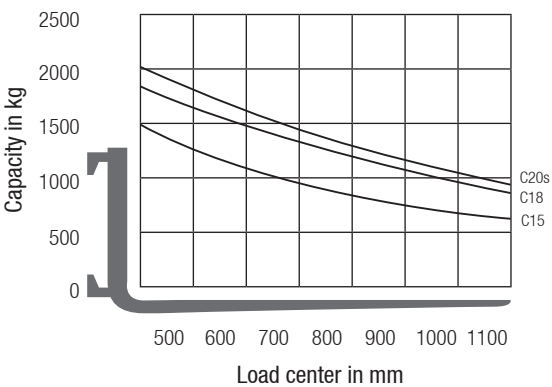
*4) Without load at friction coefficient $\mu = 0.6$

*5) Height overheadguard with Radio +60m *6) Diesel = Stage 3a /LPG = Stage 0 (PSI/4G63) OPTION : LPG Stage 4 (PSI/4G63)

GENERAL DATA

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 3285mm.

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.

Upright table Pneumatic Tyres

C15/18/20s

	Maximum fork height (h3)	Mast lowered (h1)	Mast extended (h4)		Free lift (h2)	
			with load backrest	without load backrest	with load backrest	without load backrest
	mm	mm	mm	mm	mm	mm
Standard	2795	1958	4019	3414	110	110
	3085	2103	4309	3704		
	3285	2203	4509	3904		
	3640	2380	4863	4258		
	4070	2653	5293	4688		
	4365	2853	5589	4984		
	4655	3048	5877	5272		
Triplex	3970	1833	5192	4566	648	1238
	4345	1958	5567	4941	773	1363
	4780	2103	6002	5376	918	1508
	5185	2253	6406	5780	1068	1658
	5565	2413	6786	6160	1228	1818
	5720	2478	6936	6310	1293	1883
	6015	2603	7238	6612	1418	2008
	6470	2793	7690	7064	1608	2198
	7075	3048	8296	7670	1863	2453
Hi-Lo	2925	1958	4147	3520	772	1379
	3215	2103	4436	3809	918	1524
	3515	2253	4736	4109	1068	1674
	3695	2343	4916	4289	1158	1764
	3810	2413	5033	4406	1228	1834

Performance may vary +5% and -10% due to motor and system efficiency tolerance. The performance shown represents nominal values which may be obtained under typical operating conditions of a machine. CLARK products and specifications are subject to change without notice.

PRODUCT DESCRIPTION



The C15-20s series from CLARK marks a further highlight in the reliable, durable and powerful forklifts 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 Compartment

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. A rubber isolated operator cell provides a quiet, comfortable and spacious environment for the operator.

The adjustable steering column (38°) with spoke steering wheel and an easy-to adjust, yet comfortable CLARK seat together with impressive leg room allow perfect adaptation to any driver.

Automotive style foot pedals and fully directional cowl-mounted control levers with international symbols avoid confusion for any operator.

The operating data is displayed in real-time on the clear 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. An ideally positioned foot operated parking brake, completes this driver's compartment.

Engine, Transmission

The CLARK C15-20s forklifts with LPG or diesel power enable excellent acceleration and high driving performance. A Yanmar 4TNE88 diesel engine with 28,8 kW at 2400 revolutions per minute is just as impressive as the LPG propelled PSI/4G63 engine with 2.0 liters (36,8KW).

Both engine versions are connected to a proven CLARK own TA12 single speed, full reversing, powershift transaxle with high stall ratio industrial torque converter, full-floating drive axles, and drum/shoe brake.

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.

All engines comply with EU directives ensuring low noise and exhaust emissions.

Brake system

A drum/shoe brake ensures 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.

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 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 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, paintwork in the bright safety colour "CLARK Green", driver's compartment and upright in black, rims in white.

Additional equipment

SE tyres (6.5-10), Non-marking tyres (6.5-10), heated cabs, integrated or hook on sideloaders, various other attachments, fuel cap lock, quick-release couplings, various seats, acoustic reversing alarm, swingdown LPG tank bracket, safety air cleaner element and much more.

Security

The C15-20s 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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