

IC-PNEUMATIC

Автопогрузчики CLARK

CMP15
CMP18
CMP20s

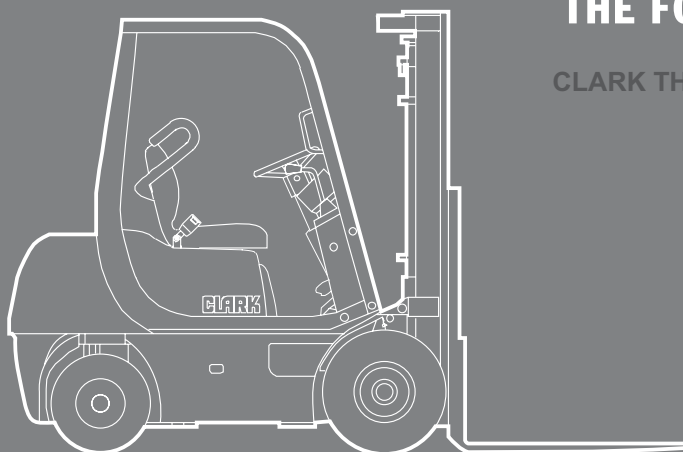
1500 kg
1800 kg
2000 kg

CMP15/18/20s



THE FORKLIFT

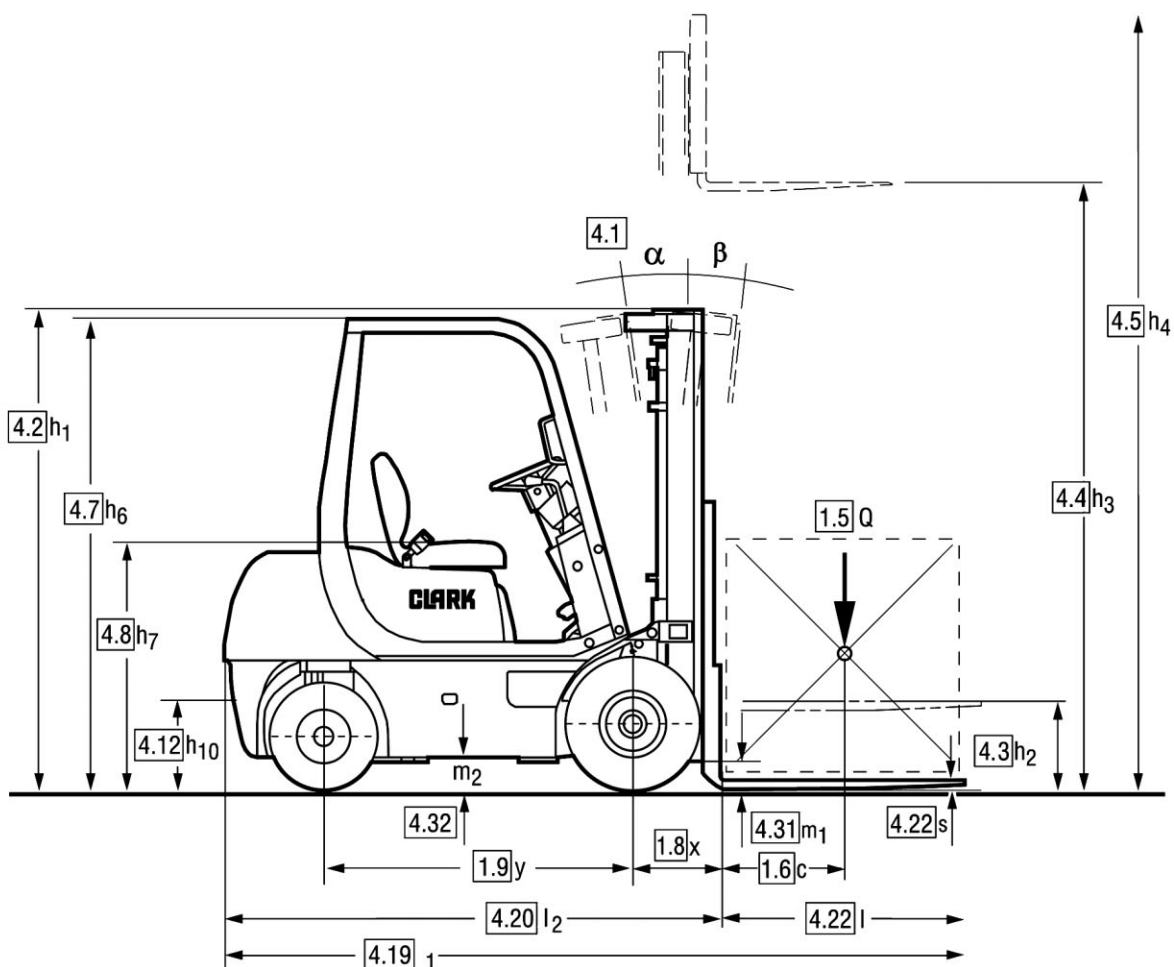
CLARK THE FORKLIFT



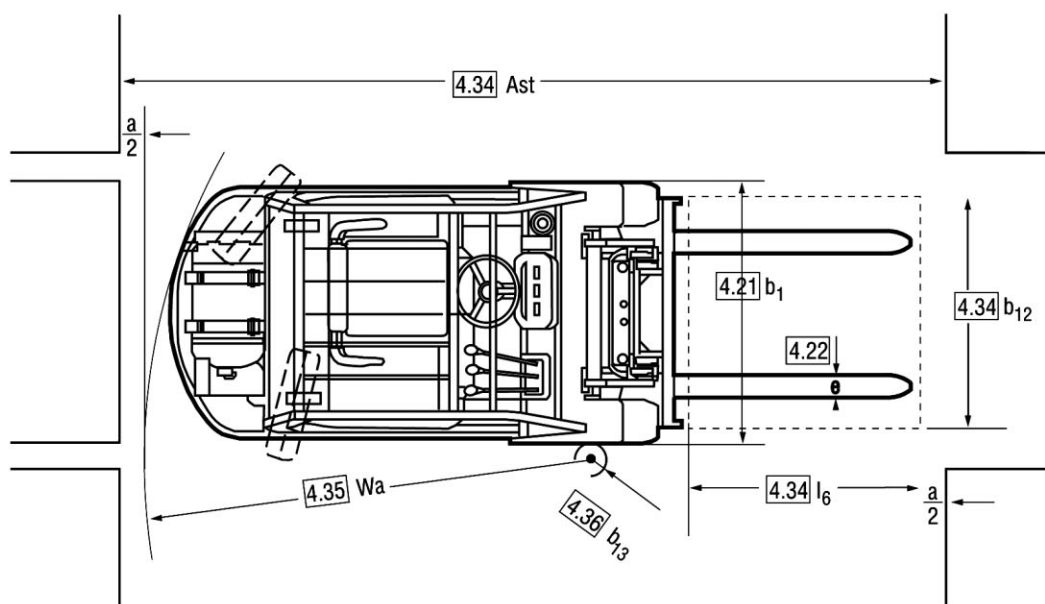
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CMP15/18/20s



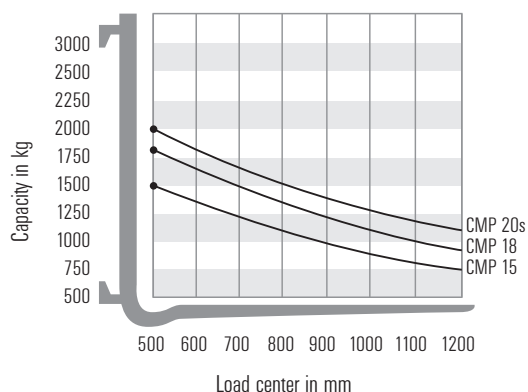
$$A_{st} = W_a + x + l_6 + a$$

$a = 200 \text{ mm (safety distance)}$

For corresponding data see
Specification Chart.

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 3500 mm CMP 15-20s. The centre of gravity of the load may be displaced by max. 100 mm 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 1000 mm 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. Please contact your CLARK dealer if you require further information.

Upright table

Capacity at different load centres

Upright table metrics in mm

CLARK Ref	max. fork height h3	overall height lowered h1	overall height raised h4*	free lift h2 h5*
Standard CMP 15, 18, 20s L/D (2 Stage Mast, standard free lift)				
V	2000	1590	2590	100
V	2300	1740	2890	100
V	2500	1840	3009	100
V	2700	1940	3290	100
V	3000	2090	3590	100
V	3300	2240	3890	100
V	3500	2340	4009	100
V	3700	2440	4290	100
V	4000	2590	4590	100
V	4500	3055	5009	100
V	5000	3305	5590	100

* without LBR

Upright table metrics in mm

CLARK Ref	max. fork height h3	overall height lowered h1	overall height raised h4*	free lift h2 h5*
Triple CMP 15, 18, 20s L/D (3 Stage Mast, full free lift)				
M	3700	1855	4295	1310
M	4000	1955	4595	1410
M	4300	2055	4895	1510
M	4500	2120	5095	1580
M	4800	2220	5395	1680
M	5000	2290	5595	1745
M	5500	2495	6095	1960
M	6000	2740	6595	2205
M	6500	2910	7095	2237
M	7000	3155	7595	2618

* without LBR

LPG engine

according to VDI 2198

1.1 Manufacture (Abbreviation)		CLARK	CLARK	CLARK
Characteristics	1.2 Manufacture's designation	CMP 15 L	CMP 18 L	CMP 20s L
	1.3 Drive Unit Diesel, L.P. Gas	LPG	LPG	LPG
	1.4 Operator type stand on / driver seated	driver seated	driver seated	driver seated
	1.5 Load Capacity / rated load Q (t)	1,5	1,8	2,0
	1.6 Load Center distance c (mm)	500	500	500
	1.8 Load Center distance, centre of drive axle to fork face x (mm)	390	390	390
	1.9 Wheelbase y (mm)	1350	1350	1350
Weight	2.1 Service weight kg	2780 (2690)	2900 (2820)	3110 (3070)
	2.2 Axle loading, laden front / rear kg	3740/540 (3730/460)	4210/490 (4070/550)	4480/630 (4390/680)
	2.3 Axle loading, unladen front / rear kg	1270/1510 (1240/1450)	1230/1670 (1090/1730)	1180/1930 (1070/2000)
Tires, Chassis	3.1 Tire type, P=pneumatic, SE=superelastic, C=cushion 1)	P	P	P
	3.2 Tire size, front	6.50 x 10-12PR	6.50 x 10-12PR	6.50 x 10-12PR
	3.3 Tire size, rear	5 x8-8PR	5x8-8PR	5x8-8PR
	3.5 Wheels, number front / rear (x=drive wheels)	2x/2	2x/2	2x/2
	3.6 Tread, front b ₁₀ (mm)	930	930	930
	3.7 Tread, rear b ₁₁ (mm)	900	900	900
Dimensions	4.1 Tilt of upright / fork carriage, α/β deg	10/6	10/6	10/6
	4.2 Height, upright lowered h ₁ (mm)	2097	2097	2097
	4.3 Freelif h ₂ (mm)	110	110	110
	4.4 Lift height 2) h ₃ (mm)	3000	3000	3000
	4.5 Height upright extended 6) h ₄ (mm)	3656	3656	3656
	4.7 Height overheadguard (cab): Std / Container h ₆ (mm)	2060	2060	2060
	4.8 Seat hight h ₇ (mm)	1025	1025	1075
	4.12 Coupling hight h ₁₀ (mm)	-	-	-
	4.19 Overall length l ₁ (mm)	3240	3265	3310
	4.20 Length to face of forks l ₂ (mm)	2170	2195	2240
	4.21 Width b ₁ /b ₂ (mm)	1110	1110	1110
	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	II A	II A	II A
	4.24 Fork carriage width b ₃ (mm)	940	940	940
	4.31 Ground clearance minimum, unladen m ₁ (mm)	114	114	114
	4.32 Ground clearance center of wheelbase m ₂ (mm)	117	117	117
	4.34 Stacking aisle for pallets 800x1200 (l ₆ -b ₁₂)	-	-	-
	4.34 Stacking aisle for pallets 1000x1200 (l ₆ -b ₁₂) A _{st} (mm)	3625	3645	3690
	4.34 Stacking aisle for pallets 1200x800 (l ₆ -b ₁₂) A _{st} (mm)	-	-	-
Performance	4.35 Turning radius W _a (mm)	2035	2055	2100
	4.36 Internal turning radius b ₁₃ (mm)	-	-	-
	5.1 Travel speed laden/unladen km/h	17,1/17,8	17,0/17,8	16,9/17,9
	5.2 Lift speed laden/unladen m/s	0,53/0,57	0,51/0,57	0,50/0,57
	5.3 Lowering speed laden/unladen m/s	0,51/0,51	0,51/0,51	0,51/0,50
	5.6 Max. drawbar pull laden/unladen 4) N	14749/9610 (13240/5880)	14837/9512 (13240/5110)	14896/9414 (12750/5790)
	5.8 Max. gradeability laden 3)/unladen 4) %	37,0/20,8 (31,8/20,0)	33,6/19,5 (28,5/16,8)	31,1/17,4 (26,0/16,0)
Drive Line	5.9 Acceleration time laden/unladen (0 - 15 m) s	-/-	-/-	-/-
	5.10 Service brake 6)	hydraulic	hydraulic	hydraulic
	7.1 Manufacturer / Type	Mitsubishi 4G63	Mitsubishi 4G63	Mitsubishi 4G63
	7.2 Rated output acc. DIN 70 020 kW	25	25	25
	7.3 Rated speed acc. DIN 70 020 min ⁻¹	2300	2300	2300
	7.4 No. of cylinders / displacement /cm ³	4/2000	4/2000	4/2000
Miscellaneous	7.5 Fuel consumption acc. VDI-Cycles Diesel=l/h, L.P.Gas=kg/h	-	-	-
	8.1 Type of control	hydrodyn.	hydrodyn.	hydrodyn.
	8.2 Operating pressure for attachments bar	170	170	170
	8.3 Oil volume for attachments l/min	-	-	-
	8.4 Sound level, driver's ear 5) dB (A)	83	83	83
	8.5 Towing coupling, class/type DIN	-	-	-

1) Optional with super-elastic tires 2) Further lift heights see upright table 3) Laden with 1,6 km/h 4) Without load at friction coefficient $\mu = 0,8$

5) Equivalent permanent sound-pressure level L pAeq,T in accordance with DIN EN 12053 6) Without load backrest

Diesel engine

according to VDI 2198

1.1 Manufacture (Abbreviation)		CLARK	CLARK	CLARK
Characteristics	1.2 Manufacture's designation	CMP 15 D	CMP 18 D	CMP 20S D
	1.3 Drive Unit Diesel, L.P. Gas	Diesel	Diesel	Diesel
	1.4 Operator type stand on / driver seated	driver seated	driver seated	driver seated
	1.5 Load Capacity / rated load Q (t)	1,5	1,8	2,0
	1.6 Load Center distance c (mm)	500	500	500
	1.8 Load Center distance, centre of drive axle to fork face x (mm)	390	390	390
	1.9 Wheelbase y (mm)	1350	1350	1350
Weight	2.1 Service weight kg	2810 (2690)	2930 (2820)	3140 (3070)
	2.2 Axle loading, laden front / rear kg	3770/540 (3730/460)	4230/500 (4070/550)	4510/630 (4390/680)
	2.3 Axle loading, unladen front / rear kg	1290/1520 (1240/1450)	1260/1670 (1090/1730)	1200/1940 (1070/2000)
Tires, Chassis	3.1 Tire type, P=pneumatic, SE=superelastic, C=cushion 1)	P	P	P
	3.2 Tire size, front	6.50 x 10-12PR	6.50 x 10-12PR	6.50 x 10-12PR
	3.3 Tire size, rear	5 x8-10PR	5x8-10PR	5x8-10PR
	3.5 Wheels, number front / rear (x=drive wheels)	2x/2	2x/2	2x/2
	3.6 Tread, front b ₁₀ (mm)	930	930	930
	3.7 Tread, rear b ₁₁ (mm)	900	900	900
Dimensions	4.1 Tilt of upright / fork carriage, α/β deg	10/6	10/6	10/6
	4.2 Height, upright lowered h ₁ (mm)	2097	2097	2097
	4.3 Freelif h ₂ (mm)	110	110	110
	4.4 Lift height 2) h ₃ (mm)	3000	3000	3000
	4.5 Height upright extended 6) h ₄ (mm)	3656	3656	3656
	4.7 Height overheadguard (cab): Std / Container h ₆ (mm)	2060	2060	2060
	4.8 Seat height h ₇ (mm)	1025	1025	1075
	4.12 Coupling height h ₁₀ (mm)	-	-	-
	4.19 Overall length l ₁ (mm)	3240	3265	3310
	4.20 Length to face of forks l ₂ (mm)	2170	2195	2240
	4.21 Width b ₁ /b ₂ (mm)	1110	1110	1110
	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	II A	II A	II A
	4.24 Fork carriage width b ₃ (mm)	940	940	940
	4.31 Ground clearance minimum, unladen m ₁ (mm)	114	114	114
	4.32 Ground clearance center of wheelbase m ₂ (mm)	117	117	117
	4.34 Stacking aisle for pallets 800x1200 (l ₆ -b ₁₂)	-	-	-
	4.34 Stacking aisle for pallets 1000x1200 (l ₆ -b ₁₂) A _{st} (mm)	3625	3645	3690
	4.34 Stacking aisle for pallets 1200x800 (l ₆ -b ₁₂) A _{st} (mm)	-	-	-
	4.35 Turning radius W _a (mm)	2035	2055	2100
	4.36 Internal turning radius b ₁₃ (mm)	-	-	-
Performance	5.1 Travel speed laden/unladen km/h	17,2/17,9	17,2/17,9	17,1/18,0
	5.2 Lift speed laden/unladen m/s	0,53/0,57	0,51/0,57	0,50/0,57
	5.3 Lowering speed laden/unladen m/s	0,51/0,51	0,51/0,51	0,51/0,50
	5.6 Max. drawbar pull laden/unladen 4) N	15779/9610 (16670/8340)	15887/9512 (16670/8340)	15946/9414 (16670/8340)
	5.8 Max. gradeability laden 3)/unladen 4) %	39,7/21,0 (39/21)	36,0/19,7 (36/18)	33,3/17,6 (33/15)
	5.9 Acceleration time laden/unladen (0 - 15 m) s	-/-	-/-	-/-
	5.10 Service brake 6)	hydraulic	hydraulic	hydraulic
Drive Line	7.1 Manufacturer / Type	Yanmar 4TNV88	Yanmar 4TNV88	Yanmar 4TNV88
	7.2 Rated output acc. DIN 70 020 kW	28,8	28,8	28,8
	7.3 Rated speed acc. DIN 70 020 min ⁻¹	2400	2400	2400
	7.4 No. of cylinders / displacement /cm ³	4/2190	4/2190	4/2190
	7.5 Fuel consumption acc. VDI-Cycles Diesel=l/h, L.P.Gas=kg/h	-	-	-
Miscellaneous	8.1 Type of control	hydrodyn.	hydrodyn.	hydrodyn.
	8.2 Operating pressure for attachments bar	170	170	170
	8.3 Oil volume for attachments l/min	-	-	-
	8.4 Sound level, driver's ear 5) dB (A)	81	81	81
	8.5 Towing coupling, class/type DIN	-	-	-

 1) Optional with super-elastic tires 2) Further lift heights see upright table 3) Laden with 1,6 km/h 4) Without load at friction coefficient $\mu = 0,8$

5) Equivalent permanent sound-pressure level L pAeq,T in accordance with DIN EN 12053 6) Without load backrest