

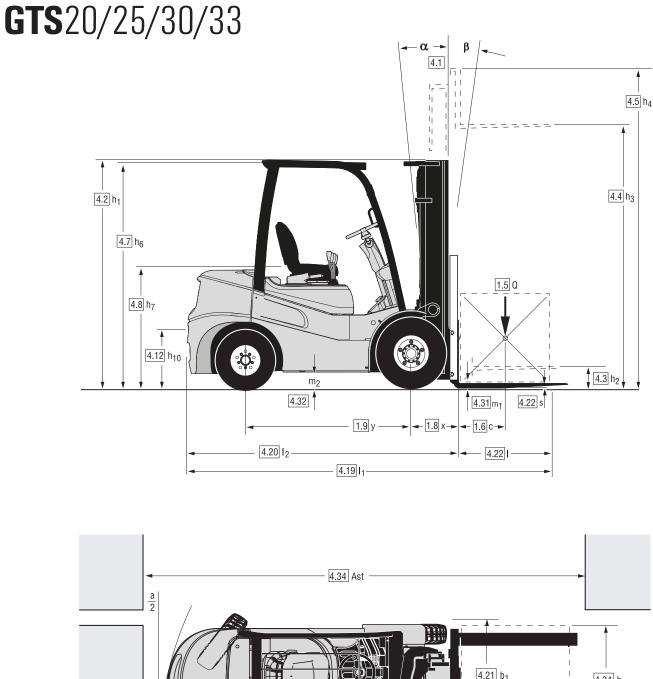
# GTS20/25/30/33

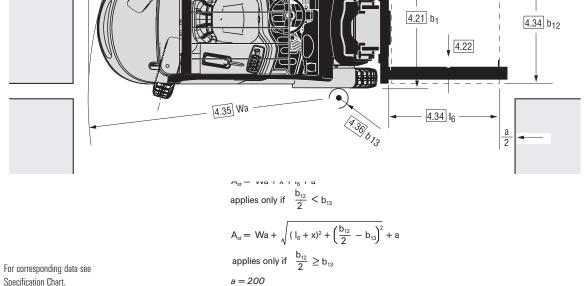
Diesel or LPG engine Pneumatic or Superelastic Tyres 2.000 kg 2.500 kg 3.000 kg 3.300 kg



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# **DIMENSIONS**





# **SPECIFICATIONS**

## Product Specifications acc. to VDI 2198

	1.1	Manufacturer (Abbreviation)		CLARK	CLARK	CLARK	CLARK
	1.2	Manufacturer's designation		GTS20D	GTS25D	GTS30D	GTS33D
	1.3	Drive unit Diesel, L.P. Gas		Diesel	Diesel	Diesel	Diesel
Specifications	1.4	Operator type stand on / driver seated		Driver Seated	Driver Seated	Driver Seated	Driver Seated
	1.5	Load capacity / rated load	Q (kg)	2000	2500	3000	3300
Spec	1.6	Load centre distance	c (mm)	500	500	500	500
0,	1.8	Load centre distance, centre of drive axle to fork face	x (mm)	455	455	460	475
	1.9	Wheelbase	y (mm)	1620	1620	1700	1700
	2.1	Service weight	kg	3550	3840	4270	4430
WT	2.2	Axle loading, laden front / rear	kg	4800/750	5450/890	6340/930	6870/860
	2.3	Axle loading, unladen front / rear	kg	1620/1930	1476/2364	1646/2624	1677/2753
	3.1	Tyre type, $P = pneumatic$ , $SE = superelastic 1$ )		Р	Р	Р	Р
SIS	3.2	Tyre size, front		7.00X12-14PR	7.00X12-14PR	28x9x15-14PR	28x9x15-14PR
Tyres, Chassis	3.3	Tyre size, rear		6.00X9-10PR	6.00X9-10PR	6.50X10-12PR	6.50X10-12PR
es, (	3.5	Wheels, number front/rear ( $x = drive$ wheels)		2x/2	2x/2	2x/2	2x/2
Tyr	3.6	Tread, front (wide/dual)	b10 (mm)	996(1075/1204)	996(1075/1204)	1029(1109/1204)	1029(1109/1204)
	3.7	Tread, rear	b11 (mm)	904	904	904	904
	4.1	Tilt of upright/fork carriage, $\alpha$ / $\beta$	0	10/6	10/6	10/6	10/6
	4.2	Height, upright lowered	h1 (mm)	2165	2165	2180	2180
	4.3	Freelift	h2(mm)	110	110	110	115
	4.4	Lift height 2)	h3(mm)	3195	3195	3195	3165
	4.5	Height, upright extended 6)	h4(mm)	4415	4415	4415	4395
	4.7	Height overheadguard 7)	h6(mm)	2170	2170	2180	2180
	4.8	Seat height	h7(mm)	1219	1219	1219	1219
	4.12	Coupling height	h10(mm)	360	360	360	360
S	4.19	Overall length	l1 (mm)	3643	3737	3842	3890
Dimensions	4.20	Length to face of forks	l2(mm)	2573	2667	2772	2820
imer	4.21	Width (wide/dual)	b1 (mm)	1185(1265/1629)	1185(1265/1629)	1250(1330/1629)	1250(1330/1629)
	4.22	Fork dimensions	s • e • l (mm)	45x100x1070	45x100x1070	45x122x1070	50x122x1070
	4.23	Fork carriage DIN 15173, A, B		CLASS II A	CLASS II A	CLASS III A	CLASS III A
	4.24	Fork carriage width (wide / dual drive)	b12 (mm)	1041 (1143/1549)	1041 (1143/1549)	1041 (1143/1549)	1143 (1549)
	4.31	Ground clearance minimum	m1 (mm)	135	135	150	150
	4.32	Ground clearance centre of wheelbase	m2 (mm)	150	150	165	165
	4.34	Aisle width for pallets 1000 x 1200 crossways	Ast(mm)	3945	4035	4140	4185
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast(mm)	4145	4235	4340	4385
	4.35	Outside turning radius	Wa(mm)	2290	2380	2480	2510
	4.36	Internal turning radius	b13 (mm)	825	825	852	889
	5.1	Travel speed laden/unladen	km/h	16,9/18,0	16,5/18,0	17,6/18,8	24.9/23.7
				(21.1/22.5)	(20.7/22.4)	(22.2/23.6)	
S	5.2	Lift speed laden/unladen	m/s	0,48/0,54	0,48/0,54	0,48/0,54	0.45/0.50
ance				(0.53/0.55)	(0.52/0.55)	(0.50/0.55)	
Performances	5.3	Lowering speed laden/unladen	m/s	0.54/0.50	0.54/0.50	0.54/0.50	0.50/0.43
Perf	5.6	Max. drawbar pull laden/unladen 3)	N	18405/6465	18470/6135	16945/6635	17740/8020
				(21100/8070)	(19206/6903)	(19385/6785)	
			%	38.9/20.8 (42.8/23.1)	32.1/17.4 (36.6/20.1)	25.2/17.0 (29.0/17.1)	23.3/17.5
	5.8	Max. gradeability laden/unladen 3)	90				
-	5.10	Service brake	90	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake
		• •	90	Wet disc brake Yanmar 4TNE94L	Wet disc brake Yanmar 4TNE94L	Yanmar 4TNE94	Wet disc brake ISUZU 4LE2X
Je	5.10 7.1	Service brake Manufacturer / Type 4)		Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X	Yanmar 4TNE94 ISUZU 4LE2X	ISUZU 4LE2X
Engine	5.10 7.1 7.2	Service brake Manufacturer / Type 4) Rated output acc. to SAE J 1349	kW	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46)	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46)	Yanmar 4TNE94 ISUZU 4LE2X 34,2(46)	ISUZU 4LE2X 46
.C Engine	5.10 7.1 7.2 7.3	Service brake Manufacturer / Type 4) Rated output acc. to SAE J 1349 Rated speed acc. DIN 70 020	kW min-1	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46) 2200(2650)	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46) 2200(2650)	Yanmar 4TNE94 ISUZU 4LE2X 34,2(46) 2200(2650)	ISUZU 4LE2X 46 2650
I.C Engine	5.10 7.1 7.2 7.3 7.4	Service brake Manufacturer / Type 4) Rated output acc. to SAE J 1349 Rated speed acc. DIN 70 020 No. of cylinders / displacement	kW min-1 /cm3	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179)	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46)	Yanmar 4TNE94 ISUZU 4LE2X 34,2(46)	ISUZU 4LE2X 46
I.C Engine	5.10 7.1 7.2 7.3 7.4 7.5	Service brake Manufacturer / Type 4) Rated output acc. to SAE J 1349 Rated speed acc. DIN 70 020 No. of cylinders / displacement Fuel consumption acc. VDI-Cyclus Diesel= I/h	kW min-1	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179)	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179)	Yanmar 4TNE94 ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179) -	46 2650 4/2179 -
	5.10 7.1 7.2 7.3 7.4 7.5 8.1	Service brake Manufacturer / Type 4) Rated output acc. to SAE J 1349 Rated speed acc. DIN 70 020 No. of cylinders / displacement Fuel consumption acc. VDI-Cyclus Diesel= I/H Type of control	kW min-1 /cm3 , L.PGas= kg/h	Wet disc brake           Yanmar 4TNE94L           ISUZU 4LE2X           34,2(46)           2200(2650)           4/3053 (4/2179)           -           Hydrodyn	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179) - Hydrodyn	Yanmar 4TNE94 ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179) - Hydrodyn	ISUZU 4LE2X 46 2650 4/2179 - Hydrodyn
	5.10 7.1 7.2 7.3 7.4 7.5 8.1 8.2	Service brake Manufacturer / Type 4) Rated output acc. to SAE J 1349 Rated speed acc. DIN 70 020 No. of cylinders / displacement Fuel consumption acc. VDI-Cyclus Diesel= I/H Type of control Operating pressure for attachments 8)	kW min-1 /cm3 I, L.PGas= kg/h bar	Wet disc brake           Yanmar 4TNE94L           ISUZU 4LE2X           34,2(46)           2200(2650)           4/3053 (4/2179)           -           Hydrodyn           Adjustable	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179) - Hydrodyn Adjustable	Yanmar 4TNE94 ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179) - Hydrodyn Adjustable	ISUZU 4LE2X 46 2650 4/2179 - Hydrodyn Adjustable
	5.10 7.1 7.2 7.3 7.4 7.5 8.1 8.2 8.3	Service brake Manufacturer / Type 4) Rated output acc. to SAE J 1349 Rated speed acc. DIN 70 020 No. of cylinders / displacement Fuel consumption acc. VDI-Cyclus Diesel= I/h Type of control Operating pressure for attachments 8) Oil volume for attachments	kW min-1 /cm3 , L.PGas= kg/h bar I/min	Wet disc brake           Yanmar 4TNE94L           ISUZU 4LE2X           34,2(46)           2200(2650)           4/3053 (4/2179)           -           Hydrodyn           Adjustable           max. 35	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179) - Hydrodyn Adjustable max. 35	Yanmar 4TNE94 ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179) - Hydrodyn Adjustable max. 35	ISUZU 4LE2X 46 2650 4/2179 - Hydrodyn Adjustable max. 35
Miscellaneous I.C Engine	5.10 7.1 7.2 7.3 7.4 7.5 8.1 8.2	Service brake Manufacturer / Type 4) Rated output acc. to SAE J 1349 Rated speed acc. DIN 70 020 No. of cylinders / displacement Fuel consumption acc. VDI-Cyclus Diesel= I/H Type of control Operating pressure for attachments 8)	kW min-1 /cm3 I, L.PGas= kg/h bar	Wet disc brake           Yanmar 4TNE94L           ISUZU 4LE2X           34,2(46)           2200(2650)           4/3053 (4/2179)           -           Hydrodyn           Adjustable	Wet disc brake Yanmar 4TNE94L ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179) - Hydrodyn Adjustable	Yanmar 4TNE94 ISUZU 4LE2X 34,2(46) 2200(2650) 4/3053 (4/2179) - Hydrodyn Adjustable	ISUZU 4LE2X 46 2650 4/2179 - Hydrodyn Adjustable

\*1) Optional with super-elastic tyres \*2) Futher lift heights see upright table \*3) At friction coefficient  $\mu$ =0.6 and laden with 1.6 km/h \*4) Diesel = Yanmar (Stage 3a) or ISUZU (Stage 3b) LPG = Mitsubishi (Stage 0) \*5) Equivalent permanent sound-pressure level L pAeq, T in accordance with DIN EN 12053 (previosly DIN 45635-36) \*6) With load backrest \*7) Height with cabin and radio antenna + 60mm \*8) Max. 140 bar

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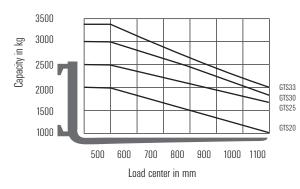
Manufacturer's designationDrive unit Diesel, L.P. GasOperator type stand on / driver seatedLoad capacity / rated loadLoad centre distanceLoad centre distance, centre of drive axle to fork faceWheelbaseService weightAxle loading, laden front / rearAxle loading, unladen front / rearTyre type, P = pneumatic, SE = superelastic 1)Tyre size, rearWheels, number front/rear (x = drive wheels)Tread, front (wide/dual)Tread, rearTilt of upright/fork carriage, $\alpha$ / $\Omega$ Height, upright loweredFreeliftLift height 2)Height overheadguard 7)Seat heightCoupling heightOverall lengthLength to face of forks	© (kg) c (mm) x (mm) y (mm) y (mm) kg kg kg b10 (mm) b11 (mm) b11 (mm) b11 (mm) h2(mm) h3(mm) h4(mm) h3(mm) h4(mm) h6(mm) h7(mm) h10(mm) 11 (mm)	GTS20L           LPG           Driver Seated           2000           500           455           1620           3506           4195/891           1629/1877           P           7.00X12-14PR           6.00X9-10PR           2x/2           996(1075/1204)           904           10/6           2165           110           3195           4415           2170           1219           360           3643	GTS25L           LPG           Driver Seated           2500           500           455           1620           3861           4873/1068           1513/2348           700X12-14PR           6.00X9-10PR           996(1075/1204)           996(1075/1204)           10/6           110           3195           4415           2170           1219           360	GTS30L           LPG           Driver Seated           3000           500           460           1700           4220           5740/1060           1650/2570           28x9x15-14PR           6.50X10-12PR           26x9(109/1204)           904           10/6           2180           110           3195           4415           2180           1219	GTS33L           LPG           Driver Seated           3300           500           475           1700           4428           6309/999           1698/2730           7           28x9x15-14PR           6.50X10-12PR           1029(1109/1204)           904           10/6           2180           115           3165           4395           2180
Operator type stand on / driver seatedLoad capacity / rated loadLoad centre distanceLoad centre distance, centre of drive axle to fork faceWheelbaseService weightAxle loading, laden front / rearAxle loading, unladen front / rearAxle loading, unladen front / rearTyre type, P = pneumatic, SE = superelastic 1)Tyre size, frontTyre size, rearWheels, number front/rear (x = drive wheels)Tread, front (wide/dual)Tread, rearTilt of upright/fork carriage, $\alpha$ / ßHeight, upright loweredFreeliftLift height 2)Height overheadguard 7)Seat heightCoupling heightOuverall length	c (mm) x (mm) y (mm) kg kg kg b10 (mm) b11 (mm) b11 (mm) h1 (mm) h3 (mm) h4 (mm) h6 (mm) h7 (mm) h10 (mm) 11 (mm)	Driver Seated 2000 500 455 1620 3506 4195/891 1629/1877 P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 21219 360	Driver Seated 2500 500 455 1620 3861 4873/1068 1513/2348 P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 9964 10/6 2165 110 3195 4415 2170 1219	Driver Seated 3000 500 460 1700 4220 5740/1060 1650/2570 8 5740/1060 1650/2570 1650/2570 2 8 28x9x15-14PR 6.50X10-12PR 2 x/2 1029(1109/1204) 904 10/6 2180 110 3195 4415 2180 1219	Driver Seated 3300 500 475 1700 4428 6309/999 1698/2730 7 28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 1026 109(1 2180 115 3165 3165 4395
Load capacity / rated load Load centre distance Load centre distance, centre of drive axle to fork face Wheelbase Service weight Axle loading, laden front / rear Axle loading, unladen front / rear Axle loading, unladen front / rear Tyre type, P = pneumatic, SE = superelastic 1) Tyre size, front Tyre size, front Tyre size, rear Wheels, number front/rear (x = drive wheels) Tread, front (wide/dual) Tread, rear Tilt of upright/fork carriage, $\alpha$ / $\beta$ Height, upright lowered Freelift Lift height 2) Height, upright extended 6) Height overheadguard 7) Seat height Coupling height Overall length	c (mm) x (mm) y (mm) kg kg kg b10 (mm) b11 (mm) b11 (mm) h1 (mm) h3 (mm) h4 (mm) h6 (mm) h7 (mm) h10 (mm) 11 (mm)	2000 500 455 1620 3506 4195/891 1629/1877 P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219 360	2500 500 455 1620 3861 4873/1068 1513/2348 P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 906 2165 110 3195 4415 2170 1219	3000 500 460 1700 4220 5740/1060 1650/2570 P 28x9x15-14PR 6.50X10-12PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 110 3195 4415 2180 1219	3300 500 475 1700 4428 6309/999 1698/2730 7 28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 304 10/6 2180 115 3165 3165 4395 2180
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WheelbaseService weightAxle loading, laden front / rearAxle loading, unladen front / rearAxle loading, unladen front / rearTyre type, P = pneumatic, SE = superelastic 1)Tyre size, frontTyre size, rearWheels, number front/rear (x = drive wheels)Tread, front (wide/dual)Tread, rearTilt of upright/fork carriage, $\alpha$ / $\beta$ Height, upright loweredFreeliftLift height 2)Height overheadguard 7)Seat heightCoupling heightOverall length	y (mm) kg kg kg b10 (mm) b11 (mm) b11 (mm) h1 (mm) h2 (mm) h3 (mm) h4 (mm) h6 (mm) h7 (mm) h10 (mm) l1 (mm)	3506 4195/891 1629/1877 P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219 360	3861 4873/1068 1513/2348 P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219	4220 5740/1060 1650/2570 P 28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 110 3195 4415 2180 1219	4428 6309/999 1698/2730 P 28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 115 3165 4395 2180
Axle loading, laden front / rear Axle loading, unladen front / rear Tyre type, P = pneumatic, SE = superelastic 1) Tyre size, front Tyre size, rear Wheels, number front/rear (x = drive wheels) Tread, front (wide/dual) Tread, front (wide/dual) Tread, front (wide/dual) Tread, front (wide/dual) Tread, front (wide/dual) Tread, rear Tilt of upright/fork carriage, $\alpha$ / $\beta$ Height, upright lowered Freelift Lift height 2) Height upright extended 6) Height overheadguard 7) Seat height Coupling height Overall length	kg kg kg b10 (mm) b11 (mm) b11 (mm) h2 (mm) h3 (mm) h4 (mm) h6 (mm) h7 (mm) h10 (mm) l1 (mm)	4195/891 1629/1877 P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219 360	4873/1068 1513/2348 P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219	5740/1060 1650/2570 P 28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 110 3195 4415 2180 1219	6309/999 1698/2730 P 28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 115 3165 3165 4395 2180
Axle loading, unladen front / rearTyre type, P = pneumatic, SE = superelastic 1)Tyre size, frontTyre size, rearWheels, number front/rear (x = drive wheels)Tread, front (wide/dual)Tread, rearTilt of upright/fork carriage, $\alpha$ / $\beta$ Height, upright loweredFreeliftLift height 2)Height, upright extended 6)Height overheadguard 7)Seat heightCoupling heightOverall length	kg kg b10 (mm) b11 (mm) b11 (mm) h1 (mm) h2 (mm) h3 (mm) h4 (mm) h6 (mm) h7 (mm) h10 (mm) l1 (mm)	1629/1877           P           7.00X12-14PR           6.00X9-10PR           2x/2           996(1075/1204)           904           10/6           2165           110           3195           4415           2170           1219           360	1513/2348 P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219	1650/2570 P 28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 110 3195 4415 2180 1219	1698/2730 P 28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 115 3165 4395 2180
Tyre type, P = pneumatic, SE = superelastic 1) Tyre size, front Tyre size, rear Wheels, number front/rear (x = drive wheels) Tread, front (wide/dual) Tread, rear Tilt of upright/fork carriage, $\alpha$ / $\beta$ Height, upright lowered Freelift Lift height 2) Height, upright extended 6) Height overheadguard 7) Seat height Coupling height Overall length	kg b10 (mm) b11 (mm) b11 (mm) h1 (mm) h2(mm) h3(mm) h4(mm) h6(mm) h7(mm) h10(mm) 11 (mm)	P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219 360	P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219	P 28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 110 3195 4415 2180 1219	P 28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 115 3165 4395 2180
Tyre size, front Tyre size, rear Wheels, number front/rear (x = drive wheels) Tread, front (wide/dual) Tread, rear Tilt of upright/fork carriage, α / ß Height, upright lowered Freelift Lift height 2) Height, upright extended 6) Height overheadguard 7) Seat height Coupling height Overall length	b10 (mm) b11 (mm) ° h1 (mm) h2(mm) h3(mm) h3(mm) h4(mm) h6(mm) h7(mm) h10(mm) 11 (mm)	7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219 360	P 7.00X12-14PR 6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219	28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 110 3195 4415 2180 1219	28x9x15-14PR 6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 115 3165 4395 2180
Tyre size, rear         Wheels, number front/rear (x = drive wheels)         Tread, front (wide/dual)         Tread, rear         Tilt of upright/fork carriage, α / ß         Height, upright lowered         Freelift         Lift height 2)         Height, upright extended 6)         Height overheadguard 7)         Seat height         Coupling height         Overall length	b11 (mm) P h1(mm) h2(mm) h3(mm) h4(mm) h6(mm) h7(mm) h10(mm) l1(mm)	6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219 360	6.00X9-10PR 2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219	6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 110 3195 4415 2180 1219	6.50X10-12PR 2x/2 1029(1109/1204) 904 10/6 2180 115 3165 4395 2180
Wheels, number front/rear (x = drive wheels)Tread, front (wide/dual)Tread, rearTilt of upright/fork carriage, $\alpha$ / $\beta$ Height, upright loweredFreeliftLift height 2)Height, upright extended 6)Height overheadguard 7)Seat heightCoupling heightOverall length	b11 (mm) P h1(mm) h2(mm) h3(mm) h4(mm) h6(mm) h7(mm) h10(mm) l1(mm)	2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219 360	2x/2 996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219	2x/2 1029(1109/1204) 904 10/6 2180 110 3195 4415 2180 1219	2x/2 1029(1109/1204) 904 10/6 2180 115 3165 4395 2180
Wheels, number front/rear (x = drive wheels)Tread, front (wide/dual)Tread, rearTilt of upright/fork carriage, $\alpha$ / $\beta$ Height, upright loweredFreeliftLift height 2)Height, upright extended 6)Height overheadguard 7)Seat heightCoupling heightOverall length	b11 (mm) P h1(mm) h2(mm) h3(mm) h4(mm) h6(mm) h7(mm) h10(mm) l1(mm)	996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219 360	996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219	1029(1109/1204) 904 10/6 2180 110 3195 4415 2180 1219	1029(1109/1204) 904 10/6 2180 115 3165 4395 2180
Tread, front (wide/dual)         Tread, rear         Tilt of upright/fork carriage, α / ß         Height, upright lowered         Freelift         Lift height 2)         Height, upright extended 6)         Height overheadguard 7)         Seat height         Coupling height         Overall length	b11 (mm) P h1(mm) h2(mm) h3(mm) h4(mm) h6(mm) h7(mm) h10(mm) l1(mm)	996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219 360	996(1075/1204) 904 10/6 2165 110 3195 4415 2170 1219	1029(1109/1204) 904 10/6 2180 110 3195 4415 2180 1219	1029(1109/1204) 904 10/6 2180 115 3165 4395 2180
Tread, rear         Tilt of upright/fork carriage, α / ß         Height, upright lowered         Freelift         Lift height 2)         Height, upright extended 6)         Height overheadguard 7)         Seat height         Coupling height         Overall length	b11 (mm) P h1(mm) h2(mm) h3(mm) h4(mm) h6(mm) h7(mm) h10(mm) l1(mm)	904 10/6 2165 110 3195 4415 2170 1219 360	904 10/6 2165 110 3195 4415 2170 1219	904 10/6 2180 110 3195 4415 2180 1219	904 10/6 2180 115 3165 4395 2180
Tilt of upright/fork carriage, α / ß         Height, upright lowered         Freelift         Lift height 2)         Height, upright extended 6)         Height overheadguard 7)         Seat height         Coupling height         Overall length	h1 (mm) h2 (mm) h3 (mm) h4 (mm) h6 (mm) h7 (mm) h10 (mm) I1 (mm)	2165 110 3195 4415 2170 1219 360	2165 110 3195 4415 2170 1219	2180 110 3195 4415 2180 1219	2180 115 3165 4395 2180
Height, upright lowered Freelift Lift height 2) Height, upright extended 6) Height overheadguard 7) Seat height Coupling height Overall length	h2(mm) h3(mm) h4(mm) h6(mm) h7(mm) h10(mm) 11(mm)	110 3195 4415 2170 1219 360	110 3195 4415 2170 1219	110 3195 4415 2180 1219	115 3165 4395 2180
Freelift Lift height 2) Height, upright extended 6) Height overheadguard 7) Seat height Coupling height Overall length	h2(mm) h3(mm) h4(mm) h6(mm) h7(mm) h10(mm) 11(mm)	3195 4415 2170 1219 360	110 3195 4415 2170 1219	3195 4415 2180 1219	3165 4395 2180
Height, upright extended 6) Height overheadguard 7) Seat height Coupling height Overall length	h3(mm) h4(mm) h6(mm) h7(mm) h10(mm) I1(mm)	4415 2170 1219 360	4415 2170 1219	4415 2180 1219	4395 2180
Height, upright extended 6) Height overheadguard 7) Seat height Coupling height Overall length	h4(mm) h6(mm) h7(mm) h10(mm) 11(mm)	2170 1219 360	2170 1219	2180 1219	2180
Height overheadguard 7) Seat height Coupling height Overall length	h7 (mm) h10 (mm) I1 (mm)	1219 360	1219	1219	
Seat height Coupling height Overall length	h7 (mm) h10 (mm) I1 (mm)	360			
Coupling height Overall length	h10(mm) 11 (mm)	360			1219
Overall length	l1 (mm)	3643		360	360
-			3737	3842	3890
	I2(mm)	2573	2667	2772	2820
Width (wide/dual)	b1 (mm)	1185(1265/1629)	1185(1265/1629)	1250(1330/1629)	1250(1330/1629)
Fork dimensions	s • e • l (mm)	45x100x1070	45x100x1070	45x122x1070	50x125x1070
Fork carriage DIN 15173, A, B		CLASS II A	CLASS II A	CLASS III A	CLASS III A
Fork carriage width (wide / dual drive)	b12 (mm)	-	-	-	-
Ground clearance minimum	m1 (mm)	135	135	150	150
Ground clearance centre of wheelbase	m2 (mm)	150	150	165	165
Aisle width for pallets 1000 x 1200 crossways	Ast(mm)	3945	4035	4135	4165
					4385
				2480	2510
				852	889
				18.3/19.5	19.6/20.6
Lift speed laden/unladen	m/s	0.54/0.56	0.53/.056	0.52/0.56	0.51/0.56
Lowering speed laden/unladen	m/s	0.54/0.50	0.54/0.50	0.54/0.50	0.50/0.43
Max. drawbar pull laden/unladen 3)	N	20965/7905	21110/7470	19200/7855	17640/7835
Max. gradeability laden/unladen 3)	%	43.5/24.2	37.0/21.0	29.0/19.9	24.0/17.6
Service brake		Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake
Manufacturer / Type 4)		Mitsubishi 4G64	Mitsubishi 4G64	Mitsubishi 4G64	Mitsubishi 4G64
		PSI fuel-system	PSI fuel-system	PSI fuel-system	PSI fuel-system
Rated output acc. to SAE J 1349	kW	51,6	51,6	51,6	51,6
Rated speed acc. DIN 70 020	min-1	2650	2650	2650	2650
No. of cylinders / displacement	/cm3	4/2351	4/2351	4/2351	4/2351
Fuel consumption acc. VDI-Cyclus Diese  = 1/h	n, L.PGas= kg/h	_	-	-	_
Type of control	•	Hydrodyn	Hydrodyn	Hydrodyn	Hydrodyn
	bar				Adjustable
J	l/min	140	140	140	140
Oil volume for attachments				79	79
	dB (A)	/9	10		10
	Aisle width for pallets 800 x 1200 lengthways Outside turning radius Internal turning radius Travel speed laden/unladen Lift speed laden/unladen Lowering speed laden/unladen Max. drawbar pull laden/unladen 3) Max. gradeability laden/unladen 3) Service brake Manufacturer / Type 4) Rated output acc. to SAE J 1349 Rated speed acc. DIN 70 020 No. of cylinders / displacement Fuel consumption acc. VDI-Cyclus Diesel= 1/1 Type of control Operating pressure for attachments 8) Oil volume for attachments	Aisle width for pallets 800 x 1200 lengthwaysAst(mm)Outside turning radiusWa(mm)Internal turning radiusb13 (mm)Travel speed laden/unladenkm/hLift speed laden/unladenm/sLowering speed laden/unladenm/sLowering speed laden/unladenm/sMax. drawbar pull laden/unladen 3)NMax. gradeability laden/unladen 3)%Service brakeWRated output acc. to SAE J 1349kWRated speed acc. DIN 70 020min-1No. of cylinders / displacement/cm3Fuel consumption acc. VDI-CyclusDiesel= I/h, L.PGas= kg/hType of controlDiesel= V/n, L.PGas= kg/hOperating pressure for attachments 8)barOil volume for attachmentsI/min	Aisle width for pallets 800 x 1200 lengthwaysAst(mm)4145Outside turning radiusWa(mm)2290Internal turning radiusb13 (mm)825Travel speed laden/unladenkm/h17.2/18.3Lift speed laden/unladenm/s0.54/0.56Lowering speed laden/unladenm/s0.54/0.50Max. drawbar pull laden/unladen 3)N20965/7905Max. gradeability laden/unladen 3)%43.5/24.2Service brakeWet disc brakeManufacturer / Type 4)Mitsubishi 4G64 PSI fuel-systemRated output acc. to SAE J 1349KW51,6Rated speed acc. DIN 70 020min-12650No. of cylinders / displacement/cm34/2351Fuel consumption acc. VDI-CyclusDiesel= l/h, L.PGas= kg/h-Type of controlHydrodynOperating pressure for attachments 8)barAdjustableOil volume for attachmentsl/min140	Aisle width for pallets 800 x 1200 lengthways         Ast(mm)         4145         4235           Outside turning radius         Wa(mm)         2290         2380           Internal turning radius         b13 (mm)         825         825           Travel speed laden/unladen         km/h         17.2/18.3         16.9/18.3           Lift speed laden/unladen         m/s         0.54/0.56         0.53/.056           Lowering speed laden/unladen         m/s         0.54/0.50         0.54/0.50           Max. drawbar pull laden/unladen 3)         N         20965/7905         21110/7470           Max. gradeability laden/unladen 3)         N         20965/7905         21110/7470           Manufacturer / Type 4)         Mitsubishi 4G64         Mitsubishi 4G64         PSI fuel-system           Rated output acc. to S	Aisle width for pallets 800 x 1200 lengthways         Ast(mm)         4145         4235         4340           Outside turning radius         Wa(mm)         2290         2380         2480           Internal turning radius         b13 (mm)         825         825         852           Travel speed laden/unladen         km/h         17.2/18.3         16.9/18.3         18.3/19.5           Lift speed laden/unladen         m/s         0.54/0.56         0.53/0.56         0.52/0.56           Lowering speed laden/unladen 3)         M         20965/7905         21110/7470         19200/7855           Max. gradeability laden/unladen 3)         M         20965/7905         21110/7470         29.0/19.9           Service brake         Wet disc brake         Wet disc brake         Wet disc brake         Wet disc brake           Manufacturer / Type 4)         Mitsubishi 4664         Mitsubishi 4664         Mitsubishi 4664         Mitsubishi 4664           Service brake         Wet disc brake         Wet disc brake         PSI fuel-system         PSI fuel-system           Manufacturer / Type 4)         KW         51.6         51.6         51.6           Rated output acc. to SAE J 1349         kW         51.6         51.6         51.6           No. of cylinders / displacement

\*1) Optional with super-elastic tyres \*2) Futher lift heights see upright table \*3) At friction coefficient  $\mu$ =0.6 and laden with 1.6 km/h \*4) Diesel = Yanmar (Stage 3a) or ISUZU (Stage 3b) LPG = Mitsubishi (Stage 0) \*5) Equivalent permanent sound-pressure level L pAeq, T in accordance with DIN EN 12053 (previosly DIN 45635-36) \*6) With load backrest \*7) Height with cabin and radio antenna + 60mm \*8) Max. 140 bar

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.

# **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 3195 mm for GTS20/25/30 and 3165mm for GTS33. 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 tilted 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 GTS30

Mast type	Maximum fork hight (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
	2015	1590	3235	2682		
	2575	1870	3795	3242		
	2875	2020	4095	3542		
	3195	2180	4415	3862		
	3300	2233	4521	3968		
	3500	2333	4720	4167		
Standard	3725	2470	4944	4391	110	110
	3860	2545	5080	4527		
	4165	2815	5384	4831		
	4380	3015	5600	5047		
	4620	3245	5840	5287		
	5170	3510	6390	5837		
	3860	1870	5079	4551	651	1179
	4320	2020	5539	5011	801	1329
	4500	2115	5719	5191	896	1424
	4800	2180	6019	5491	961	1489
Triplex	5210	2320	6429	5901	1101	1629
	5520	2470	6739	6211	1251	1779
	5740	2545	6959	6431	1326	1854
	6100	2705	7319	6791	1486	2014
	6370	2815	7589	7061	1596	2124
	6830	3015	8049	7521	1796	2324
	7315	3245	8534	8006	2026	2554
	2935	2020	4155	3627	801	1329
	3255	2180	4475	3947	961	1489
Hi-Lo	3530	2320	4750	4222	1101	1629
	3760	2470	4980	4452	1251	1779
	3910	2545	5128	4600	1326	1854

### Upright table GTS20/25

	Maximum fork hight (h3)	Mast lowered (h1)	Mast extended		Free lift(h2)	
			with load backrest	without load backrest	with load backrest	without load backrest
	mm	mm	mm	mm	mm	mm
	2015	1575	3235	2611		110
	2575	1855	3795	3171		
	2875	2005	4095	3471		
	3195	2165	4415	3791		
	3300	2218	4521	3897		
	3500	2318	4720	4096	110	
Standard	3725	2455	4944	4320		
	3860	2530	5080	4456		
	4165	2800	5384	4760		
	4380	3000	5600	4976		
	4620	3230	5840	5216		
	5170	3495	6390	5766		
	3860	1855	5079	4483	636	1232
	4320	2005	5539	4943	786	1382
	4500	2100	5719	5123	881	1477
	4800	2165	6019	5423	946	1542
Triplex	5210	2305	6429	5833	1086	1682
	5520	2455	6739	6143	1236	1832
	5740	2530	6959	6363	1311	1907
	6100	2690	7319	6723	1471	2067
	6370	2800	7589	6993	1581	2177
	6830	3000	8049	7453	1781	2377
	7315	3230	8534	7938	2011	2607
	2935	2005	4155	3559	786	1382
	3255	2165	4475	3879	946	1542
Hi-Lo	3530	2305	4750	4154	1086	1682
	3760	2455	4980	4384	1236	1832
	3910	2530	5128	4532	1311	1907

### **Upright table GTS33**

	Maximum fork hight (h3)	Mast lowered (h1)	Mast extended		Free lift(h2)	
			with load backrest	without load backrest	with load backrest	without load backrest
	mm	mm	mm	mm	mm	mm
	1985	1590	3215	2733		115
	2545	1870	3775	3293		
	2845	2020	4075	3593		
	3165	2180	4395	3913		
	3300	2233	4526	4044	115	
	3500	2333	4726	4244		
Standard	3590	2470	4819	4337		
	3725	2545	4955	4473		
	4030	2815	5255	4773		
	4245	3015	5471	4989		
	4485	3245	5711	5229		
	5035	3510	6261	5779		
	3680	1870	4899	4439	651	1111
	4140	2020	5359	4899	801	1261
	4620	2180	5839	5379	961	1421
	5030	2320	6249	5789	1101	1561
Triplex	5340	2470	6559	6099	1251	1711
	5560	2545	6779	6319	1326	1786
	5920	2705	7139	6679	1486	1946
	6190	2815	7409	6949	1596	2056
	6650	3015	7869	7409	1796	2256
	7135	3245	8354	7894	2026	2486

 $\label{eq:performance} Performance may vary +5\% \mbox{ and } -10\% \mbox{ due to motor and system efficiency tolerance}.$  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 GTS20-33 series from CLARK is a reliable, durable and powerful range of vehicles featuring high quality equipment. This combustion engine series boasts top-quality features as standard, e.g. wet disc brakes, optimally configured engines and the usual high-quality CLARK uprights with damping system when lifting and lowering. Low overall operating costs (TCO) combined with a well-designed and ergonomic driver's compartment further enhance the appeal of this forklift. The tough metal and vinyl parts central to its sturdy, BUILT-TO-LAST design concept ensure that this forklift will provide the years of trouble-free service associated with all CLARK machinery.

#### **Driver's Compartment**

The driver accesses his ergonomically designed compartment via a large, low, perforated non-slip metal step. A grab handle on the driver's 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 with spoke steering wheel and an easy-to- adjust, yet comfortable, CLARK seat allow the driver an impressive amount of leg room. The foot pedals are conveniently arranged in the same order as in a car. Jerk-free hydraulic levers are mounted in an easily accessible position on the hood in an ergonomic arrangement. Operating data is displayed in real time on the clear display screen. 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 stowage compartments and an intuitive car-type handbrake complete this impressive driver's compartment.

#### **Engine, Transmission**

The CLARK GTS20-33 forklifts with either an LPG- or diesel-powered engine produce excellent acceleration and thrust, making them suitable for a wide range of applications. All the engine variants are quiet, low-maintenance and compliant with EU emissions regulations. Three engine variants are available. A Yanmar (4TNE94L) diesel engine with 34.2 kW combines with a split transmission to provide exceptionally comfortable, quiet handling. An ISUZU (4LE2X) diesel engine for applications involving steep gradients combined with continuous heavy nominal loads is available as an alternative for the GTS20-30 and comes standard with the GTS33. For LPG use, an MMC-PSI (4G64) with an impressive 51.6 kW of power and a PSI fuel system is fitted. Sixteen valves ensure plenty of torque and map-controlled ignition means the ignition time is electronically regulated and the available power used to the maximum effect. All the engine variants use a continuously variable automatic CLARK powershift transmission. This transmission forms a compact unit with the drive axle and is connected directly to the engine. To protect your investment, the temperature of the engines and transmission is monitored and a cut-off mechanism intervenes if the parameters are exceeded.

#### **Split transmission**

The engine and transmission are separate from the drive axle and mounted in rubber dampers, which significantly reduces vibrations for the driver and makes for a more pleasant, smoother ride. Driver fatigue is also greatly reduced, resulting in a significant increase in productivity.

#### Maintenance-free wet disc brakes

Enclosed, oil-cooled wet disc brakes are fitted as standard. The energy needed to operate the brake pedal has been reduced by up to 50%, which is a significant decrease in the amount of effort for the operator when compared with drum brakes. There is no longer any vehicle downtime due to servicing the brake system as the disc brakes are fully enclosed and oil cooled. The oil used is almost completely maintenance-free, so there are practically no service costs in comparison with forklifts fitted with drum brakes.

#### **Steering system**

The hydrostatic power steering system makes steering easy, with full lock reached in just a few turns of the wheel. Impacts from bumpy roads are cushioned. The steering axle has pivotal bearings mounted in rubber steel elements. The short tie rods are adjustment-free and guarantee precise and continuous driving in a straight line. The steer cylinder ensures precise and direct steering.

#### 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. A high-capacity pump provides adequate oil supply for the upright and the hydrostatic steering. Load handling is controlled via a control valve with a sensitive and precise response.

#### Upright

The clear-view uprights for the GTS20-30 are available in Standard, Hilo and Triplex versions. The heavy-duty interlocked narrow profiles provide high strength even under the heaviest load. A hydraulic damping system reduces impacts and vibrations during the transition between the individual lifting stages. The sturdy 6-roller fork carriage enhances the durability of this design, even during heavy-duty use.

#### Additional standard equipment

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

#### Additional equipment

SE tyres, wide drive, dual drive, non-marking tyres, integrated or hook-on sideshifts, fuel cap lock, additional hydraulic functions, quick-release couplings, rear-view mirror, strobe lights, various seats.

#### Safety

The GTS20-33 series is CE certified and conforms to all European safety standards for industrial trucks.

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

#### CLARK Europe GmbH

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