S SERIES®



S40

BUILT CLARK® EST. 1917 TO LAST®

40/45/50/55/60

Max Load Capacity
8000/9000/10000/11000/12000 lbs.
(3628 / 4082 / 4535 / 4989 / 5443 kg)

CLARK®

S SERIES®

SMART · STRONG · SAFE

CLARK S-SERIES products are designed with one goal in mind: providing a solution to customers that is SMART, STRONG, and SAFE. The S40-60 IC Pneumatic truck achieves that goal through a solid, rugged frame; integrated Smart Dash; and operator safety features that are second to none. Designed with the operator in mind, and well-suited to a wide variety of applications, the S40-60 will keep your operation moving forward for years to come.



SMART

The S40-60 integrates SMART features including:

- High-resolution 5" interactive dash
- Engine/Powertrain protection
- On-board diagnostics thru display screen
- Selectable engine performance modes
- Optional SMART equipment such as a two-way vertical mast system and a load weight measurement system
- CLARK Smart Telematics Option Available

STRONG

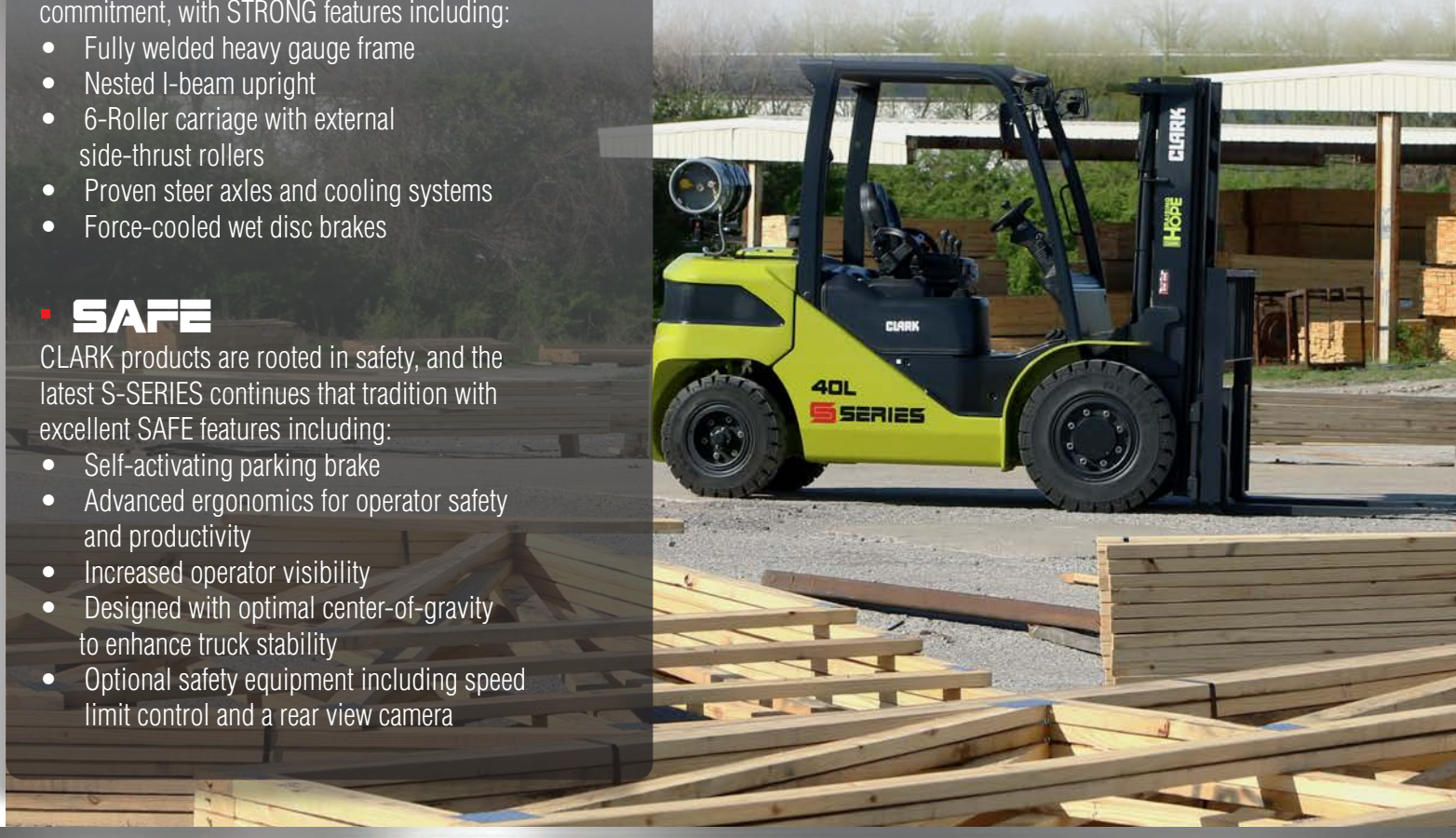
The S40-60 builds on the CLARK "Built to Last®" commitment, with STRONG features including:

- Fully welded heavy gauge frame
- Nested I-beam upright
- 6-Roller carriage with external side-thrust rollers
- Proven steer axles and cooling systems
- Force-cooled wet disc brakes

SAFE

CLARK products are rooted in safety, and the latest S-SERIES continues that tradition with excellent SAFE features including:

- Self-activating parking brake
- Advanced ergonomics for operator safety and productivity
- Increased operator visibility
- Designed with optimal center-of-gravity to enhance truck stability
- Optional safety equipment including speed limit control and a rear view camera



SMART · STRONG · SAFE

Advanced Ergonomics



- Minimized vibration and noise in operator compartment
- Adjustable full-suspension seat provides comfort over long shifts
- Hood mounted levers with low input force
- Large floorboard for larger boots and increased leg room
- 11.8” steering wheel with spinner knob standard
- Adjustable tilt steering column
- Optimized step height for ease of entry/exit

Solid and Versatile



- Two-speed transmission
- Open core, square fin aluminum radiator
- Increased visibility due to Nested I-beam mast with lowered cross-bar
- Standard engine air pre-cleaner
- Optimal center of gravity for increased stability
- Fully welded heavy gauge frame provides lasting durability



SMART · ST

ERIES®

Advanced Componentry



- High-visibility 5” LCD interactive display with visual and audible warnings
- Advanced CANbus communication provides robustness, speed, and built-in error detection between electronic devices
- Fault codes display on screen for ease of serviceability
- Two selectable performance modes for balance between productivity and fuel economy on the LPG truck
- Dash integrates with optional equipment including backup camera

Kubota LPG or Diesel Engine



Kubota WG3800 LPG Engine:

- CARB and EPA Certified
- Peak power of 85.3 hp is achieved at 2200 rpm

Tier-4 Final/Kubota V3800 Diesel Engine:

- Diesel Oxidation Catalyst
- No regeneration (burn off) cycles
- Peak power of 74.3 hp is achieved at 2200 rpm

Power output is optimal in the rpm range where it is needed most

RONG • SAFE

GENERAL DATA & STANDARD DIMENSIONS

Specifications	1.1	Manufacturer		CLARK	CLARK	CLARK	CLARK	CLARK
	1.2	Manufacturer's designation		S40L	S45L	S50L	S55L	S60L
	1.3	Drive unit Diesel, L.P. Gas		LPG	LPG	LPG	LPG	LPG
	1.4	Operator type stand on / driver seated		Driver Seated	Driver Seated	Driver Seated	Driver Seated	Driver Seated
	1.5	Load capacity / rated load	lbs	8,000	9,000	10,000	11,000	12,000
	1.6	Load center distance	in (mm)	24 (500)	24 (500)	24 (500)	24 (500)	24 (500)
	1.8	Load center distance, center of drive axle to fork face	in (mm)	22.2 (563)	22.2 (563)	22.4 (568)	22.8 (578)	22.8 (578)
	1.9	Wheelbase	in (mm)	76.8 (1950)	76.8 (1950)	82.7 (2100)	82.7 (2100)	82.7 (2100)
Weight	2.1	Service weight, single / dual	lbs (kgs)	12873 (5839) / 13184 (5980)	13704 (6216) / 14015 (6357)	14709 (6672) / 14985 (6797)	15644 (7096) / 15878 (7202)	16092 (7299) / 16325 (7405)
	2.2	Axle loading, loaded front / rear	lbs (kgs)	19273 (8742) / 2418 (1097)	20809 (9439) / 2815 (1277)	23424 (10625) / 2584 (1172)	23731 (10764) / 3170 (1438)	25230 (11444) / 3221 (1461)
	2.3	Axle loading, unloaded front / rear	lbs (kgs)	5646 (2561) / 7225 (3277)	5481 (2486) / 8223 (3730)	6742 (3058) / 8243 (3739)	6523 (2959) / 9354 (4243)	6303 (2859) / 10022 (4546)
Tires	3.1	Tire type, P = pneumatic, SE = solid pneu		P	P	P	P	P
	3.2	Tire size, front		8.25 x 15 - 14 PR	8.25 x 15 - 14 PR	7.50 x 15 - 12 PR	7.50 x 15 - 12 PR	7.50 x 15 - 12 PR
	3.3	Tire size, rear		7.00 x 12 - 14 PR	7.00 x 12 - 14 PR	7.00 x 12 - 14 PR	7.00 x 12 - 14 PR	7.00 x 12 - 14 PR
	3.5	Wheels, number front / rear (x = drive wheels)		2X / 2	2X / 2	4X / 2	4X / 2	4X / 2
	3.6	Tread, front	in (mm)	45.1 (1145)	45.1 (1145)	51.7 (1314)	51.7 (1314)	51.7 (1314)
	3.7	Tread, rear	in (mm)	44.6 (1134)	44.6 (1134)	44.6 (1134)	44.6 (1134)	44.6 (1134)
Dimensions	4.1	Tilt of upright / fork carriage, back / forward, a / b	deg	10B / 8F	10B / 8F	10B / 8F	10B / 8F	10B / 8F
	4.2	Height, upright lowered	in (mm)	93.9 (2384)	93.9 (2384)	93.9 (2384)	96.7 (2457)	96.7 (2457)
	4.3	Freelift	in (mm)	6.1 (156)	6.1 (156)	6.1 (156)	6.5 (166)	6.5 (166)
	4.4	Lift height	in (mm)	130 (3300)	130 (3300)	130 (3300)	130 (3300)	130 (3300)
	4.5	Height, upright extended	in (mm)	158.9 (4037)	158.9 (4037)	158.9 (4037)	166.5 (4230)	166.5 (4230)
	4.7	Height overhead guard	in (mm)	91.5 (2325)	91.5 (2325)	91.5 (2325)	91.5 (2325)	91.5 (2325)
	4.8	Seat height	in (mm)	50.0 (1270)	50.0 (1270)	50.0 (1270)	50.0 (1270)	50.0 (1270)
	4.12	Coupling height	in (mm)	18.1 (460)	18.1 (460)	18.1 (460)	18.1 (460)	18.1 (460)
	4.19	Overall length	in (mm)	161.3 (4097)	163.3 (4148)	174.8 (4441)	177.4 (4505)	179.3 (4555)
	4.20	Length to face of forks	in (mm)	119.2 (3027)	121.2 (3078)	126.8 (3221)	129.3 (3285)	131.3 (3335)
	4.21	Width	in (mm)	54.3 (1380)	54.3 (1380)	68.1 (1730)	68.1 (1730)	68.1 (1730)
	4.22	Fork dimensions	in (mm)	2x5x48 (50x122x1219)	2x5x48 (50x122x1219)	2x6x48 (50x150x1219)	2.4x6x48 (50x122x1219)	2.4x6x48 (50x122x1219)
	4.23	Fork carriage		Hook Type	Hook Type	Hook Type	Hook Type	Hook Type
	4.24	Fork carriage width	in (mm)	53 (1348)	53 (1348)	66 (1678)	66 (1678)	66 (1678)
	4.31	Ground clearance minimum, loaded	in (mm)	6.7 (169)	6.7 (169)	5.6 (142)	5.6 (142)	5.6 (142)
	4.32	Ground clearance center of wheelbase	in (mm)	8.5 (215)	8.5 (215)	7.4 (189)	7.4 (189)	7.4 (189)
	4.34	Right Angle Stack (add load length and clearance)	in (mm)	129.9 (3299)	131.9 (3349)	135.7 (3445)	138.6 (3519)	141.0 (3580)
	4.35	Outside turning radius	in (mm)	107.7 (2736)	109.7 (2786)	113.3 (2877)	115.8 (2941)	118.2 (3002)
	4.36	Inside turning radius	in (mm)	34.4 (874)	34.4 (874)	35.6 (905)	35.6 (905)	35.6 (905)
Performance	5.1	Travel speed loaded / unloaded	mph (kph)	11.2 (18.0) / 11.6 (18.7)	11.2 (18.0) / 11.6 (18.7)	10.6 (17.0) / 11.2 (18.0)	10.6 (17.0) / 11.2 (18.0)	10.6 (17.0) / 11.2 (18.0)
	5.2	Lift speed loaded / unloaded	fpm (m/s)	86.6 (0.44) / 92.5 (0.47)	86.6 (0.44) / 92.5 (0.47)	86.6 (0.44) / 92.5 (0.47)	86.6 (0.44) / 92.5 (0.47)	86.6 (0.44) / 92.5 (0.47)
	5.3	Lowering speed loaded / unloaded	fpm (m/s)	98.4 (0.50) / 92.5 (0.47)	98.4 (0.50) / 92.5 (0.47)	98.4 (0.50) / 92.5 (0.47)	98.4 (0.50) / 92.5 (0.47)	98.4 (0.50) / 92.5 (0.47)
	5.6	Max. drawbar pull loaded / unloaded	lbf (N)	8223 (36578) / 6239 (27752)	8113 (36088) / 6063 (26970)	8366 (37214) / 6113 (27192)	8366 (37214) / 6113 (27192)	8444 (37561) / 6356 (28273)
	5.8	Max. gradeability loaded / unloaded	%	37.0 / 32.0	35.0 / 30.0	26.0 / 22.0	26.0 / 22.0	26.5 / 20.0
	5.10	Service brake		Wet Disc Brakes	Wet Disc Brakes	Wet Disc Brakes	Wet Disc Brakes	Wet Disc Brakes
Drive Line	7.1	Manufacturer / Type		Kubota WG3800	Kubota WG3800	Kubota WG3800	Kubota WG3800	Kubota WG3800
	7.2	Rated output per SAE J1349	HP / KW	85.3 / 63.6	85.3 / 63.6	85.3 / 63.6	85.3 / 63.6	85.3 / 63.6
	7.3	Rated speed	rpm	2200	2200	2200	2200	2200
	7.4	No. of cylinders / displacement	/ cu in (liters)	4 / 230 (3.8)	4 / 230 (3.8)	4 / 230 (3.8)	4 / 230 (3.8)	4 / 230 (3.8)
	8.2	Operating pressure for attachments	psi (Bar)	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
	8.4	Sound level, driver's ear	dB(A)	80	80	80	80	80

STANDARD SPECIFICATIONS S40/45/50/55/60

1.1	Manufacturer	CLARK	CLARK	CLARK	CLARK	CLARK
1.2	Manufacturer's designation	S40D	S45D	S50D	S55D	S60D
1.3	Drive unit Diesel, L.P. Gas	Diesel	Diesel	Diesel	Diesel	Diesel
1.4	Operator type stand on / driver seated	Driver Seated	Driver Seated	Driver Seated	Driver Seated	Driver Seated
1.5	Load capacity / rated load	8,000	9,000	10,000	11,000	12,000
1.6	Load center distance	24 (500)	24 (500)	24 (500)	24 (500)	24 (500)
1.8	Load center distance, center of drive axle to fork face	22.2 (563)	22.2 (563)	22.4 (568)	22.8 (578)	22.8 (578)
1.9	Wheelbase	76.8 (1950)	76.8 (1950)	82.7 (2100)	82.7 (2100)	82.7 (2100)
2.1	Service weight (single/dual)	13002 (13313)	13834 (14145)	14875 (15150)	15809 (16042)	16257 (16490)
2.2	Axle loading, loaded front / rear	19407 (8803) / 2412 (1094)	20946 (9501) / 2809 (1274)	23581 (10696) / 2593 (1176)	23887 (10835) / 3179 (1442)	25386 (11515) / 3230 (1465)
2.3	Axle loading, unloaded front / rear	5783 (2623) / 7220 (3275)	5617 (2548) / 8219 (3728)	6898 (3129) / 8252 (3743)	6680 (3030) / 9363 (4247)	6460 (2930) / 10031 (4550)
3.1	Tire type, P = pneumatic, SE = solid pneu, C = cushion	P	P	P	P	P
3.2	Tire size, front - dual wheels	8.25 x 15 - 14 PR	8.25 x 15 - 14 PR	7.50 x 15 - 12 PR	7.50 x 15 - 12 PR	7.50 x 15 - 12 PR
3.3	Tire size, rear	7.00 x 12 - 14 PR	7.00 x 12 - 14 PR	7.00 x 12 - 14 PR	7.00 x 12 - 14 PR	7.00 x 12 - 14 PR
3.5	Wheels, number front / rear (x = drive wheels)	2X / 2	2X / 2	4X / 2	4X / 2	4X / 2
3.6	Tread, front	45.1 (1145)	45.1 (1145)	51.7 (1314)	51.7 (1314)	51.7 (1314)
3.7	Tread, rear	44.6 (1134)	44.6 (1134)	44.6 (1134)	44.6 (1134)	44.6 (1134)
4.1	Tilt of upright / fork carriage, back / forward, a / b	10B / 8F	10B / 8F	10B / 8F	10B / 8F	10B / 8F
4.2	Height, upright lowered	93.9 (2384)	93.9 (2384)	93.9 (2384)	96.7 (2457)	96.7 (2457)
4.3	Freelift	6.1 (156)	6.1 (156)	6.1 (156)	6.5 (166)	6.5 (166)
4.4	Lift height	130 (3300)	130 (3300)	130 (3300)	130 (3300)	130 (3300)
4.5	Height, upright extended	158.9 (4037)	158.9 (4037)	158.9 (4037)	166.5 (4230)	166.5 (4230)
4.7	Height overhead guard	91.5 (2325)	91.5 (2325)	91.5 (2325)	91.5 (2325)	91.5 (2325)
4.8	Seat height	50.0 (1270)	50.0 (1270)	50.0 (1270)	50.0 (1270)	50.0 (1270)
4.12	Coupling height	18.1 (460)	18.1 (460)	18.1 (460)	18.1 (460)	18.1 (460)
4.19	Overall length	161.3 (4097)	163.3 (4148)	174.8 (4441)	177.4 (4505)	179.3 (4555)
4.20	Length to face of forks	119.2 (3027)	121.2 (3078)	126.8 (3221)	129.3 (3285)	131.3 (3335)
4.21	Width	54.3 (1380)	54.3 (1380)	68.1 (1730)	68.1 (1730)	68.1 (1730)
4.22	Fork dimensions	2x5x48 (1219x122x50)	2x5x48 (1219x122x50)	2x6x48 (1219x150x50)	2.4x6x48 (60x150x1219)	2.4x6x48 (60x150x1219)
4.23	Fork carriage	Hook Type	Hook Type	Hook Type	Hook Type	Hook Type
4.24	Fork carriage width	53 (1348)	53 (1348)	66 (1678)	66 (1678)	66 (1678)
4.31	Ground clearance minimum, loaded	6.7 (169)	6.7 (169)	5.6 (142)	5.6 (142)	5.6 (142)
4.32	Ground clearance center of wheelbase	8.5 (215)	8.5 (215)	7.4 (189)	7.4 (189)	7.4 (189)
4.34	Right Angle Stack (add load length and clearance)	129.9 (3299)	131.9 (3349)	135.7 (3445)	138.6 (3519)	141.0 (3580)
4.35	Outside turning radius	107.7 (2736)	109.7 (2786)	113.3 (2877)	115.8 (2941)	118.2 (3002)
4.36	Inside turning radius	34.4 (874)	34.4 (874)	35.6 (905)	35.6 (905)	35.6 (905)
5.1	Travel speed loaded / unloaded	13.7 (22.0) / 13.0 (21.0)	13.4 (21.5) / 14.0 (22.5)	13.4 (21.5) / 14.0 (22.5)	13.4 (21.5) / 14.0 (22.5)	13.4 (21.5) / 14.0 (22.5)
5.2	Lift speed loaded / unloaded	108.3 (0.55) / 112.2 (0.57)	108.3 (0.55) / 112.2 (0.57)	104.3 (0.53) / 112.2 (0.57)	98.4 (0.50) / 112.2 (0.57)	94.5 (0.48) / 112.2 (0.57)
5.3	Lowering speed loaded / unloaded	98.4 (0.50) / 92.5 (0.47)	98.4 (0.50) / 92.5 (0.47)	98.4 (0.50) / 92.5 (0.47)	98.4 (0.50) / 92.5 (0.47)	98.4 (0.50) / 92.5 (0.47)
5.6	Max. drawbar pull loaded / unloaded	7738 (34420) / 4475 (19906)	8091 (35991) / 4960 (22063)	8157 (36284) / 5035 (22397)	8157 (36284) / 5035 (22397)	8091 (35991) / 4982 (22161)
5.8	Max. gradeability loaded / unloaded	32.6 / 27.0	31.0 / 26.5	25.0 / 26.5	25.0 / 26.5	26.8 / 26.0
5.10	Service brake	Wet Disc Brakes	Wet Disc Brakes	Wet Disc Brakes	Wet Disc Brakes	Wet Disc Brakes
7.1	Manufacturer / Type	Kubota V3800 T4	Kubota V3800 T4	Kubota V3800 T4	Kubota V3800 T4	Kubota V3800 T4
7.2	Rated output per SAE J1349	74.3 / 55.4	74.3 / 55.4	74.3 / 55.4	74.3 / 55.4	74.3 / 55.4
7.3	Rated speed	2200	2200	2200	2200	2200
7.4	No. of cylinders / displacement	4 / 230 (3.8)	4 / 230 (3.8)	4 / 230 (3.8)	4 / 230 (3.8)	4 / 230 (3.8)
8.2	Operating pressure for attachments	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
8.4	Sound level, driver's ear	80	80	80	80	80

S40-60 Upright Tables

Maximum Fork Height		Overall Height Lowered [3]		Overall Height Extended w/LBR		Free Lift [1]		Standard Tilt Spec [2]
in	mm	in	mm	in	mm	in	mm	B° / F °
S40/45/50 Standard								
118	3000	87.9	2234	167	4252	6.1	156	10/8
• 130	3300	93.8	2384	178	4520	6.1	156	10/8
138	3500	97.8	2484	186	4720	6.1	156	10/8
146	3700	101.7	2584	194	4920	6.1	156	10/8
157	4000	107.6	2734	205	5220	6.1	156	5/6
177	4500	117.5	2984	225	5720	6.1	156	5/6
197	5000	127.3	3234	245	6220	6.1	156	5/3
S55/60 Standard								
110	2800	86.9	2207	160	4062	6.5	166	10/8
122	3100	92.8	2357	170	4320	6.5	166	10/8
• 130	3300	96.7	2457	178	4520	6.5	166	10/8
138	3500	100.7	2557	186	4720	6.5	166	10/8
150	3800	106.6	2707	198	5020	6.5	166	5/6
169	4300	116.4	2957	217	5520	6.5	166	5/6
189	4800	126.3	3207	237	6020	6.5	166	5/3
S40/45/50 Hi-Lo								
106	2700	84.0	2133	154	3920	55.0	1396	8/8
• 118	3000	89.9	2283	166	4220	60.9	1546	10/8
130	3300	95.8	2433	178	4520	66.8	1696	10/8
S55/60 Hi-Lo								
102	2600	82.9	2106	150	3820	46.3	1176	8/8
• 114	2900	88.8	2256	162	4120	52.2	1326	10/8
126	3200	94.7	2406	174	4420	58.1	1476	10/8
S40/45/50 Triple Stage								
146	3700	79.4	2017	194	4928	50.4	1281	5/6
157	4000	83.3	2116	205	5220	54.3	1379	5/6
169	4300	87.2	2216	217	5520	58.2	1479	5/6
• 177	4500	89.9	2283	225	5720	60.9	1546	5/6
189	4800	93.8	2383	237	6020	64.8	1646	5/6
197	5000	96.5	2450	245	6220	67.4	1713	5/3
216	5500	103.0	2617	264	6720	74.0	1880	5/3
236	6000	109.6	2784	284	7220	80.6	2047	3/3
256	6500	116.2	2952	304	7723	87.2	2215	3/3
275	7000	122.8	3119	323	8205	93.7	2380	3/3
S55/60 Triple Stage								
150	3800	82.2	2089	198	5020	45.6	1159	5/6
161	4100	86.2	2189	209	5320	49.6	1259	5/6
169	4300	88.8	2256	217	5520	52.2	1326	5/6
• 181	4600	92.7	2356	229	5820	56.1	1426	5/6
189	4800	95.4	2423	237	6020	58.8	1493	5/3
208	5300	102.0	2590	256	6520	65.3	1660	5/3
228	5800	108.5	2757	276	7020	72.0	1827	3/3
248	6300	115.1	2924	296	7518	78.9	2005	3/3
268	6800	121.7	3092	316	8026	85.4	2170	3/3

• Indicates Common Preferred Spec

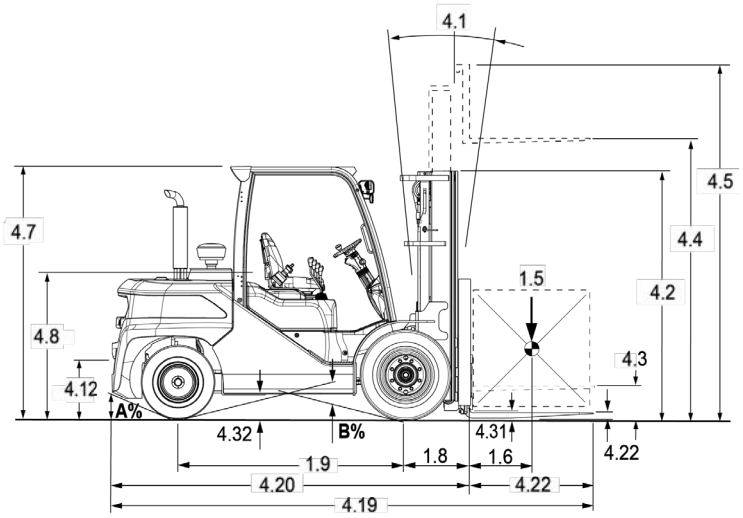
[1] Freelift dimensions shown are without load backrest.

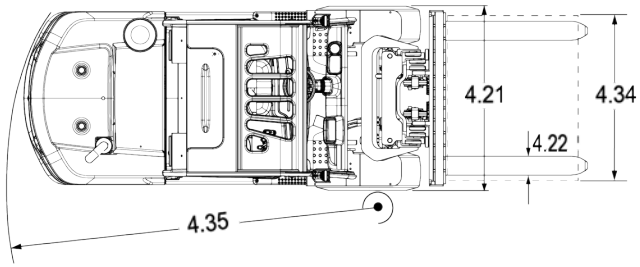
[2] Standard tilt shown. Contact CLARK representative for information on optional tilt.

[3] For overall height lowered with dual drive on the S40 and S45 deduct 1.1" (28mm). S50/S55/60 are shown with dual drive.

Grade Clearance

Model	Tires	A%	B%
S40	Single	31.9%	21.9%
S40	Dual	33.1%	20.8%
S45	Single	31.4%	21.8%
S45	Dual	32.4%	20.7%
S50	Single	33.1%	20.2%
S50	Dual	34.4%	19.2%
S55	Single	30.9%	20.4%
S55	Dual	31.8%	19.0%
S60	Single	30.4%	20.1%
S60	Dual	31.2%	18.9%





ANSI/ITSDF and Insurance Classification

Standard truck meets all applicable mandatory requirements of Part III-ANSI/ITSDF B56.1 Safety Standard for Powered Industrial Trucks and Underwriters Laboratories requirements as to fire hazard only for D and LP classifications. For further information contact a CLARK representative. Users should be aware of, and adhere to, applicable codes and regulations regarding operator training, use, operation and maintenance of powered industrial trucks including: ANSI/ITSDF B56.1; NFPA 505, fire safety standard for powered industrial trucks - type designations, areas of use, maintenance and operation; Occupational Safety and Health Administration (OSHA) regulations that may apply. Contact your authorized CLARK forklift truck dealer for further information including operator training programs and auxiliary visual and audible warning systems, fire extinguishers, etc., as available for specific user applications and requirements. Specifications, equipment, technical data, photos and illustrations are based on information at time of printing and are subject to change without notice. Some products may be shown with optional equipment.

CLARK: The Innovative and Durable Solution

The design, development, and manufacturing capabilities of CLARK, in combination with an unparalleled focus on customer support, a drive to understand fully each customer's needs in order to then supply the right solution, reflect the key essence of what is CLARK.

With over one million CLARK lift trucks sold around the world, each is a testament to the CLARK time-tested process of designing durable trucks with precise features that meet, if not exceed, the material handling needs of our customers. Our full range of dependable products – from pallet jacks to electric narrow aisle order selectors and up to our big 18,000lb capacity lift trucks – assures end-users CLARK has the solutions for their day-to-day needs.



These solutions built from industry innovations, from the nested I-Beam to a self-activating parking brake to new on-board diagnostics, began the same way: with the needs of our customers foremost in mind. By focusing on how we can improve our customers' material handling processes, we can assure our customers a lift truck designed to be the right solution for their needs.

When you bring it all together – an extensive research and development process, state-of-the-art manufacturing capabilities, and a superior dealership network – you have a company dedicated to delivering leading edge products for both today and far into the future. More reasons why CLARK is Built to Last®.

"CLARK, TOTALIFT, Powrworker, PartsPRO Plus, and Built to Last are registered in the U.S Patent and Trademark office. The "Hot Yellow Green" also known as "CLARK Green" is a trademark registered in the U.S Patent and Trademark office."



59-894-2022

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S40-60
59-894-2022 Printed in USA OTP0820500
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