

S SERIES®



S40



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

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



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

S SERIES®

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 HDI D34 Diesel Engine:

- Diesel Oxidation Catalyst
- No regeneration (burn off) cycles
- Peak power of 74.3 hp is achieved at 2300 rpm

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

SMART · STRONG · SAFE

SMART · STRONG · SAFE

GENERAL DATA & STANDARD DIMENSIONS

STANDARD SPECIFICATIONS

S40/45/50/55/60

Specifications	CLARK						1.1 Manufacturer	CLARK					
	1.2 Manufacturer's designation	S40L	S45L	S50L	S55L	S60L		1.2 Manufacturer's designation	S40D	S45D	S50D	S55D	S60D
1.3 Drive unit Diesel, L.P. Gas	LPG	LPG	LPG	LPG	LPG	LPG	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	Driver Seated	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	1.5 Load capacity / rated load	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)	1.6 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	in (mm)	22.2 (563)	22.2 (563)	22.4 (568)	22.8 (578)	22.8 (578)	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	in (mm)	76.8 (1950)	76.8 (1950)	82.7 (2100)	82.7 (2100)	82.7 (2100)	1.9 Wheelbase	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)	2.1 Service weight (single/dual)	13003 (5898)	13834 (6275)	15150 (6872)	16043 (7277)	16491 (7480)
	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)	2.2 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	lbs (kgs)	5646 (2561) / 7225 (3277)	5481 (2486) / 8223 (3730)	6742 (3058) / 8243 (3739)	6523 (2959) / 9354 (4243)	6303 (2859) / 10022 (4546)	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)
Tires	3.1 Tire type, P = pneumatic, SE = solid pneu		P	P	P	P	P	3.1 Tire type, P = pneumatic, SE = solid pneu, C = cushion	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	3.2 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	3.3 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	3.5 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)	3.6 Tread, front	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)	3.7 Tread, rear	44.6 (1134)	44.6 (1134)	44.6 (1134)	44.6 (1134)	44.6 (1134)
	3.8 Tilt of upright / fork carriage, back / forward, a / b	deg	10B / 8F	10B / 8F	10B / 8F	10B / 8F	10B / 8F	3.8 Tilt of upright / fork carriage, back / forward, a / b	10B / 8F	10B / 8F	10B / 8F	10B / 8F	10B / 8F
Dimensions	4.2 Height, upright lowered	in (mm)	93.9 (2384)	93.9 (2384)	93.9 (2384)	96.7 (2457)	96.7 (2457)	4.2 Height, upright lowered	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)	4.3 Freelift	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)	4.4 Lift height	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)	4.5 Height, upright extended	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)	4.7 Height overhead guard	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)	4.8 Seat height	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)	4.12 Coupling height	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)	4.19 Overall length	161.3 (4097)	163.3 (4148)	174.8 (4441)	177.4 (4505)	179.3 (4555)
	4.20 Length to face of forks	in (mm)	119.2 (3027)	121.2 (3078)	126.8 (3221)	129.3 (3285)	131.3 (3335)	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	in (mm)	54.3 (1380)	54.3 (1380)	68.1 (1730)	68.1 (1730)	68.1 (1730)	4.21 Width	54.3 (1380)	54.3 (1380)	68.1 (1730)	68.1 (1730)	68.1 (1730)
	4.22 Fork dimensions	in (mm)	2x5x48 (50x150x1219)	2x5x48 (50x150x1219)	2x6x48 (50x122x1219)	2.4x6x48 (50x122x1219)	2.4x6x48 (50x150x1219)	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	4.23 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)	4.24 Fork carriage width	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)	4.31 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	in (mm)	8.5 (215)	8.5 (215)	7.4 (189)	7.4 (189)	7.4 (189)	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)	in (mm)	129.9 (3299)	131.9 (3349)	135.7 (3445)	138.6 (3519)	141.0 (3580)	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	in (mm)	107.7 (2736)	109.7 (2786)	113.3 (2877)	115.8 (2941)	118.2 (3002)	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	in (mm)	34.4 (874)	34.4 (874)	35.6 (905)	35.6 (905)	35.6 (905)	4.36 Inside turning radius	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)	5.1 Travel speed loaded / unloaded	13.1 (23.7) / 13.8 (24.8)	13.4 (24.6) / 14.1 (24.7)	13.4 (24.6) / 14.1 (24.7)	13.4 (24.6) / 14.1 (24.7)	13.4 (24.6) / 14.1 (24.7)
	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)	5.2 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	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)	5.3 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	lbf (N)	8223 (36578) / 6239 (27752)	8113 (36088) / 6063 (26970)	8366 (37214) / 6113 (27192)	8366 (37214) / 6113 (27192)	8444 (37561) / 6356 (28273)	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	%	37.0 / 32.0	35.0 / 30.0	26.0 / 22.0	26.0 / 22.0	26.0 / 20.0	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	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	7.1 Manufacturer / Type	HDI D34	HDI D34	HDI D34	HDI D34	HDI D34
	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	7.2 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	rpm	2200	2200	2200	2200	2200	7.3 Rated speed	2300	2300	2300	2300	2300
	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)	7.4 No. of cylinders / displacement	4 / 208 (3.4)	4 / 208 (3.4)	4 / 208 (3.4)	4 / 208 (3.4)	4 / 208 (3.4)
8.2 Operating pressure for attachments	psi (Bar)	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	8.2 Operating pressure for attachments	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	
8.4 Sound level, driver's ear	dB(A)	80	80	80	80	80	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	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							



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

CLARK MATERIAL HANDLING COMPANY
North American Headquarters
700 Enterprise Drive • Lexington, KY 40510
866-252-5275 • www.clarkmhc.com

S40-60
59-894-2022 Printed in USA OTP07240VR
© 2024 CLARK Material Handling Company