

Electric 24 Volt Walkie Straddle

CSM7 CSM10 CSM15 1500 lbs 680 kg 2200 lbs 1000 kg 3000 lbs 1365 kg

CSM7/10/15





Upright Table

	Maximum Fork Height in mm		Overall Heigh Lowered in mm		t Free Lift in mm		Min ID in mm	
CSM7 52 72 90 110 130 150	1320 1830 2285 2795 3300 3810	72 92 72 82 92 102	1830 2335 1830 2080 2335 2590	52* 72* 24 24 24 24 24	1320 1830 610 610 610 610	31 31 31 31 33 38	790 790 790 790 840 965	
CSM10 52 72 90 110 130 150)/15 1320 1830 2285 2795 3300 3810	91.2 65.2 75.2 85.2	5 1810 5 2315 5 1655 5 1910 5 2165 5 2420	52* 72* 12 12 12 12	1320 1830 305 305 305 305 305	31 31 31 31 33 38	790 790 790 790 840 965	

*Without load backrest

Battery Compartment Dimensions

Width (W)		Lengt	:h (L)	Heigh	Height (H)		
in	mm	in	mm	in	mm		
9	230	28.6	726	24.6	625		

Minimum Right Angle Stack Aisle*

Load Width			
(W)	36/915	42/1067	48/1219
36/915	73/1855	73/1855	73/1855
40/1015	74/1880	74/1880	74/1880
42/1067	75/1905	75/1905	75/1905
48/1219	76/1930	76/1930	76/1930

*Based on 5 in. (127 mm) side clearance.

Performance

Performances are for trucks with 250 lb. (115 kg) industrial battery. Performance may vary +5% or -10% due to motor, tire, drive unit and hydraulic efficiency tolerances and battery weight.

Truck Capacity

Load centers are determined from top and front face of forks. Capacities are based on a 48 in. (1219 mm) cube load configuration with the center of gravity at the center of the cube and standard forks.

Specific capacities are shown on truck nameplates.

Notes

Clark products and specifications are subject to change without notice.

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ANSI/ASME and Insurance Classification

Standard truck meets all applicable mandatory requirements of ASME-B56.1 Safety Standard for Powered Industrial Trucks. For further information contact a Clark representative.

For Your Safety

- Do not operate motorized hand trucks unless you are trained and authorized. Read and understand the operator's manual before operating.
- Do not operate a damaged or faulty truck. Do not attempt repairs unless you are trained and authorized.
- Keep hands on designated grips and feet away from truck. Do not operate truck with wet or greasy hands or shoes.
- Enter confined areas with load end first. Be very careful when operating in confined areas to avoid being pinned.
- Avoid uneven or slippery surfaces and loose materials.
- Travel slowly and with caution on slopes and do not turn. Always travel with load end down grade.
- Do not load truck over capacity on nameplate. Do not handle unstable loads. Be very careful when handling long, high, or wide loads.
- Do not exceed floor weight limits.
- Do not climb or ride on mast or forks.
- Do not allow anyone to stand under raised forks.

Contact your Clark dealer for operator training information.



	1	Manufacturer			Clark	Clark	Clark	
u	2	Model	Manufacturer's Designation		CSM 7	CSM 10	CSM 15	
General Information	3	Load capacity	lbs(kg)		1,500 (680)	2,200 (1000)	3,000 (1365)	
	4	Load center	Fork face to load CG	in(mm)	24 (600)	24 (600)	24 (600)	
	5	Drive Unit	/pe		24-volt	24-volt	24-volt	
	6	Operator Type	190		Hand, pedestrian	Hand, pedestrian	Hand, pedestrian	
	7	Tire Type			Poly / rubber	Poly / rubber	Poly / rubber	
	8	Wheels (x=driven)	Front / rear		2 / 1x	2 / 1x	2 / 1x	
	9	Upright	Maximum fork height, full capacity	in(mm)	150 (3810)	150 (3810)	150 (3810)	
	10	oprigit	Lift height	in(mm)	110 (2795)	110 (2795)	110 (2795)	
	14	Forks	Standard fork size (TxWxL)	in(mm)	1.5x4x36 (38x102x914)	1.5x4x36 (38x102x914)	1.5x4x36 (38x102x914)	
	15	Overall dimensions	Length to fork face	in(mm)	35.5 (900)	35.5 (900)	35.5 (900)	
ons	15		Outrigger I.D., adjustable	in(mm)	41 to 50 (1040 to 1270)	41 to 50 (1040 to 1270)	41 to 50 (1040 to 1270)	
Dimensions	16		Width	in(mm)	I.D. + 6 (152)	I.D. + 6 (152)	I.D. + 6 (152)	
me	17		Height, upright lowered	in(mm)	82 (2083)	75.25 (1911)	75.25 (1911)	
ā	18		Height, upright extended	in(mm)	128.75 (3270)	128.75 (3270)	128.75 (3270)	
	19	Turning Radius		in(mm)	60.5 (1530)	60.5 (1530)	60.5 (1530)	
	22	Right angle stack aisle		()	See chart	See chart	See chart	
_	23	Stability	According to ASME		Yes	Yes	Yes	
7	24	Travel Speeds	With load	mph(kph)	2.9 (4.6)	2.6 (4.2)	2.5 (4.1)	
nce			Without load	mph(kph)	3.1 (5.0)	3.1 (5.0)	3.1 (5.0)	
Performance ²	26	Lift speeds	With load	fpm(ms)	22 (.11)	16 (.08)	15 (.08)	
for			Without load	fpm(ms)	35 (.18)	25 (.13)	23 (.12)	
Pel		Lower Speed	With load	fpm(ms)	42 (.21)	37 (.19)	36 (.18)	
			Without load	fpm(ms)	22 (.11)	19 (.10)	15 (.08)	
ř	34	Service Weight	Including battery pack	lbs(kg)	1,475 (670)	1,700 (773)	1,720 (782)	
_	39	Tires	Number, front/rear	(0)	2 (1)	2 (1)	2 (1)	
	40		Size, front	in(mm)	4x2 (100x50)	4x2 (100x50)	4x2 (100x50)	
			Size, rear	in(mm)	10x4 (255x100)	10x4 (255x100)	10x4 (255x100)	
Chassis	41	Wheelbase		in(mm)	51.5 (1310)	51.5 (1310)	51.5 (1310)	
ha	42	Track	Center of tires	in(mm)	I.D. + 3 (75)	I.D. + 3 (75)	I.D. + 3 (75)	
5	44	Ground Clearance	Minimum, with load	in(mm)	1.25 (32)	1.25 (32)	1.25 (32)	
	46	Service Brake	Туре		Wet disc	Wet disc	Wet disc	
	47	Parking Brake	Туре		Spring applied	Spring applied	Spring applied	
	48	Battery	Туре		Lead acid	Lead acid	Lead acid	
٩			Capacity (6 hr. rate) max.	kWh	6.6	6.6	6.6	
Drive Line		Motors, Controls	Drive motor, dia.	in(mm)	6 (152)	6 (152)	6 (152)	
ive.	49		Hydraulic motor, dia.	in(mm)	4.75 (121)	4.75 (121)	4.75 (121)	
۵			Drive motor control		Solid state	Solid state	Solid state	
			Speed control		Infinitely variable	Infinitely variable	Infinitely variable	
			Hydraulic motor control		Solenoid	Solenoid	Solenoid	

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Notes: 1 Specifications are shown for CSM with standard battery pack and 110" (2795 mm) upright.

2 Travel and lift speeds are nominal. Individual unit performance may vary ±10% due to motor and system tolerances.

The Clark CSM walkie straddle trucks are well suited to storeroom and warehouse areas. The CSM is capable of operating in narrow aisles and its low cost and reliability make it an ideal supplement to rider type equipment.

Control Handle

- Ergonomic design with dual forward/reverse travel controls for thumb or twist operation
- Reversing switch at the end of the handle is spring loaded and designed to override the directional control, automatically
- reversing the truck on contact Brake is actuated by positioning the handle up or down and is automatically applied when handle is released. When the brake is activated, power to the drive unit is cut off

Electrical System

- 24 volt
- Key switch
- Emergency power disconnect button
- Fused drive and control circuits
- High torque drive motor is series wound, fan cooled and has class "H" insulation for maximum protection from heat damage Heavy duty motor contactors with replaceable tips
- Drive Line
- Sealed gear reducer/brake system with internal multi-disc brakes in oil bath eliminates conventional brake problems such as adjustments, drum and/or shoe replacement
- All gear and brake components protected from exposure to moisture and dirt, packaging, strapping, etc All gears are precision ground helical type
- Drive axle mounted on precision-tapered roller bearings
- Solid State Speed Controller
- Solid state speed controller with solid state throttle mechanism
- Smooth, stepless acceleration
- Controller programmable to allow custom speed and
- acceleration settings Allows battery efficiency and usage to increase by up to 50% over resistor-controlled units
- Smooth, controlled plugging
- Diagnostic test and fault information

Hydraulic System

- · Lifting and lowering functions feature "soft start soft stop" electro-hydraulic acceleration and deceleration valving.
- Adjustable lowering valve allows loaded and unloaded lowering speed adjustments (pre-set at factory).
- In-line oil filter
- Heavy duty motor, gear pump, check and relief valve Overload pressure relief valve protects system from pressure overload and bypasses oil to reservoir when system reaches maximum pressure.
- Piston style lift cylinder includes micro-finished surface and high quality polyurethane seals.

Chassis/Outriggers

- Outriggers adjustable from 41" (1040 mm) to 50" (1270 mm) with guarded tips to protect load wheels Standard underclearance of 1.25" (32 mm)

Upright, Forks and Carriage

- Standard shaft-mounted forged fork, length 36" (915mm)
- Optional lengths 42" and 48" (1070 and 1220 mm)
- CSM 10/15 mast of I-beam design (nested on telescopic models) with high quality ball bearing rollers and carriage side thrust rollers
- CSM 7 supplied with channel beam mast
- Lateral thrust carriage rollers reduce effects of off-center loading
- Twin double strand leaf style lifting chain Safety screening protects operator from lifting mechanisms and provides maintenance free visibility

Wheels and Tires

- Press-on 10" x 4", (255 x 100mm) white non-marking drive tire, taper-mounted hub design for fast easy servicing. Poly load wheels 4" x 2" (100 x 50mm) with precision sealed
- ball bearings

Batteries

- 170 AH rating, (4-12 volt 85 AH, minimum maintenance deep cycle batteries) with removable tray
- Battery compartment accepts industrial batteries to 275 AH.

Battery Charger

- 115 volt, single phase, 60 hz, 15 amp onboard charger with overload protection
- Direct wired to batteries for error free charging
- Charger is fully automatic, starting when plugged into a 115/1/60 outlet and stopping when batteries are fully charged.

Available Equipment

- Load backrest
- Hour meter
- Hour meter/discharge indicator
- Hour meter/discharge indicator/lift lockout
- Backup alarm Flashing light
- **UL EE construction**

North America CMHC

700 Enterprise Drive Lexington, KY 40510 866-252-5275 www.clarkmhc.com

your authorized CLARK dealer is: