

CROWN

M SERIES

Specifications
Walkie Stacker



M Series

Specifications

		Imperial	Metric	Imperial	Metric
1	Manufacturer	Crown Equipment Corporation			
2	Model	20M		20MT	
3	Load Capacity*	lb kg	2000 907	2000 907	2000 907
4	Load Center	in mm	24 610	24 610	24 610
5	Mast Type	Single		Telescopic	
6	Lifting Height	in mm	67 1700	90 / 110 / 130	2285 / 2795 / 3300
	Free Lift**	(20MT) in mm		50 / 60 / 70	1270 / 1525 / 1780
7	Collapsed Height	in mm	78 1980	71.5 / 81.5 / 91.5	1815 / 2070 / 2325
8	Extended Height***	(20MT) in mm		106.5 / 126.5 / 146.5	2705 / 3215 / 3720
9	Head Length	in mm	31.5 800	34.2 / 34.2 / 34.2	870 / 870 / 870
	Net Weight w/Batteries****	lb kg	990 450	1300 / 1400 / 1455	590 / 635 / 660
10	Overall Baseplate Width	(20M) in mm	26 660		
11	Inside/Outside Fork Spread	(20M) in mm	15.8/25.9	400/660	
12	Inside Straddle	(20MT) in mm		Adjustable in 2" increments from 32" to 50"	Adjustable in 51 mm increments from 815 to 1270 mm
	Outside Straddle	(20MT) in mm		Inside plus 6.25"	Inside plus 160 mm
13	Fork Lengths	in mm	30, 36, 42, 48	760, 915, 1070, 1220	30, 36, 42, 48
	Overall Length	(20M) in mm	Head Length (9) plus Fork Length (13)		
14	Fork Adjustment	(20MT)		6.7 to 25	170 to 635
15	Travel Speed	mph khr	Three forward and reverse speeds to 3 mph	Three forward and reverse speeds to 5 khr	Three forward and reverse speeds to 3 mph
16	Lift Speed	E / L fpm mps	25 / 13	.13 / .07	25 / 13
17	Lowering Speed	E / L fpm mps	14 / 22	.07 / .11	22 / 36

*Attachments and longer load dimensions may result in derating of the capacity. Contact local dealer.

**Without load backrest (subtract 19.5" [495 mm] if optional load backrest is used.)

***Add 19.5" (495 mm) if optional load backrest is used.

****For the 20 MT model, add 90 lb (40.8 kg) for semi-industrial batteries.

M Series

Aisle Planning Guide

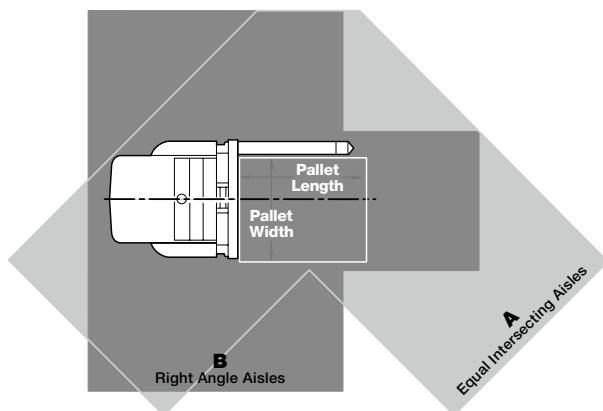
Straddling Load

Pallet Width		Pallet Length in (mm)							
		30 (760)		36 (915)		42 (1070)		48 (1220)	
		A	B	A	B	A	B	A	B
30	in mm	55 1400	64 1625	59 1500	64 1625	62 1575	66 1675	65 1650	71 1805
36	in mm	59 1500	65 1050	62 1575	66 1675	65 1650	69 1755	68 1730	72 1830
42	in mm	64 1625	68 1730	66 1675	69 1755	69 1755	71 1805	71 1805	74 1880
48	in mm	69 1755	72 1830	70 1780	72 1830	72 1830	74 1880	74 1880	77 1955

Load Over Outriggers

Pallet Width		Pallet Length in (mm)							
		30 (760)		36 (915)		42 (1070)		48 (1220)	
		A	B	A	B	A	B	A	B
30	in mm	50 1270	63 1600	54 1370	64 1625	57 1450	66 1675	60 1525	68 1730
36	in mm	53 1345	64 1625	57 1450	65 1650	60 1525	67 1700	63 1600	69 1755
42	in mm	58 1475	65 1650	62 1575	67 1700	64 1625	68 1730	67 1700	70 1780
48	in mm	64 1625	66 1675	67 1700	68 1730	68 1730	70 1780	70 1780	72 1830

Add 6" (152 mm) to all aisle dimensions for maximum maneuverability.



Capacity

Models 20M and 20MT
2000 lb (907 kg) at 24"
(610 mm) load center

Batteries ⁽¹⁾

Four six-volt three-cell, 17 plate
(per cell) lead acid batteries -
each rated at 100 amp hours at
20 hour rate, or 87 amp hours at
six hour rate.

Charger ⁽¹⁾

Built-in 120-volt 10 amp silicon
rectifier type. Automatically
tapers to trickle charge. Other
charger's and voltages available.

⁽¹⁾Semi-industrial battery and
bench type charger required for
Canada.

Standard Equipment

1. 24-volt system
2. Crown manufactured heavy-duty contactors
3. Third speed cutout switch
4. Series wound high-torque drive and lift motor
5. Fused control and drive circuits
6. Power disconnect
7. Key switch
8. Plexiglass mast guard
9. Raise/lower buttons in control handle
10. Adjustable outriggers (MT only)

Optional Equipment

1. Load backrest
2. Polyurethane load, drive and caster wheels
3. Discharge meter
4. Hour meter
5. Semi-industrial battery and 40 amp bench type charger complete with timer (Required for Canada)
6. Maintenance platform
7. Remote raise/lower control
8. Snap-on platform
9. Wire mesh mast guard

Control Handle

Control handle with dual twist grips which control three speeds forward and reverse. Twist grips return to neutral when released. The handle provides 200° steering and contains a large safety button which reverses the direction of the truck should the button touch the operator. A large horn button is standard equipment, as is a third speed cutoff switch.

Steering

Steering column is mounted on thrust and radial bearings for effortless steering. Steering handle can be turned 100° in either direction. Handle is spring loaded to return to vertical "brake-on" position when released by operator.

Wheels and Tires

Steel caster wheels - 5" dia, 1.9" face (127 mm dia, 48 mm face). Steel load wheels - 4" dia, 2" face (102 mm dia, 51 mm face) as standard. All wheels equipped with roller bearings. Drive tire - 8.5" x 4" x 4" (216 x 102 x 102 mm) standard pressed-on type rubber.

Hydraulic System

Heavy-duty motor with gear pump, check valve, relief valve and control valve. Flow control valve regulates lowering speed of forks. Lift cylinder with polyurethane packings. Oil reservoir with breather-filter to prevent foreign matter from entering hydraulic system. In-line suction filter to remove foreign matter from hydraulic circuit. Overload valve set to bypass oil to reservoir when system reaches maximum pressure.

Safety Switches

Third speed cutout switch may be used to shut off high speed when operating in congested areas. Third speed cutoff switch on telescopic models shuts off high speed when inner mast extends above "free lift" of forks. Safety interlock switch cuts off drive wheel power when service door is opened for charging and maintenance.

Drive Unit

Spur gear drive direct from motor to drive axle. Gear train is mounted on ball and tapered roller bearings operating in oil inside sealed gear housing. Housing is equipped with magnetic drain plug. Drive unit floats 2.5" (64 mm) to insure traction over uneven floors and on ramps. Heavy coil spring exerts 400 lb (180 kg) pressure on drive wheel for maximum traction.

Outriggers

Heavy steel construction with end contoured around load wheel. Each load wheel axle is rounded to prevent pallet damage.

Carriage Rollers

Alloy steel rollers contoured to fit mast and equipped with roller bearings. Telescopic units have adjustable side-thrust mast rollers.

Mast Guard

Clear, high impact acrylic to help protect operator from chains and cylinder.

Lift Chain

Two alloy steel leaf-type chains

Finish

Beige and dark gray

Dimensions and performance data given may vary due to manufacturing tolerances. Performance is based on an average size vehicle and is affected by weight, condition of truck, how it is equipped and the conditions of the operating area. Crown products and specifications are subject to change without notice.

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You can count on Crown to build lift trucks designed for safe operation, but that's only part of the safety equation. Crown encourages safe operating practices through ongoing operator training, safety-focused supervision, maintenance and a safe working environment. Go to crown.com and view our safety section to learn more.

Because Crown is continually improving its products, specifications are subject to change without notice.

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