

**CROWN**

**Specifications**

**M Series**

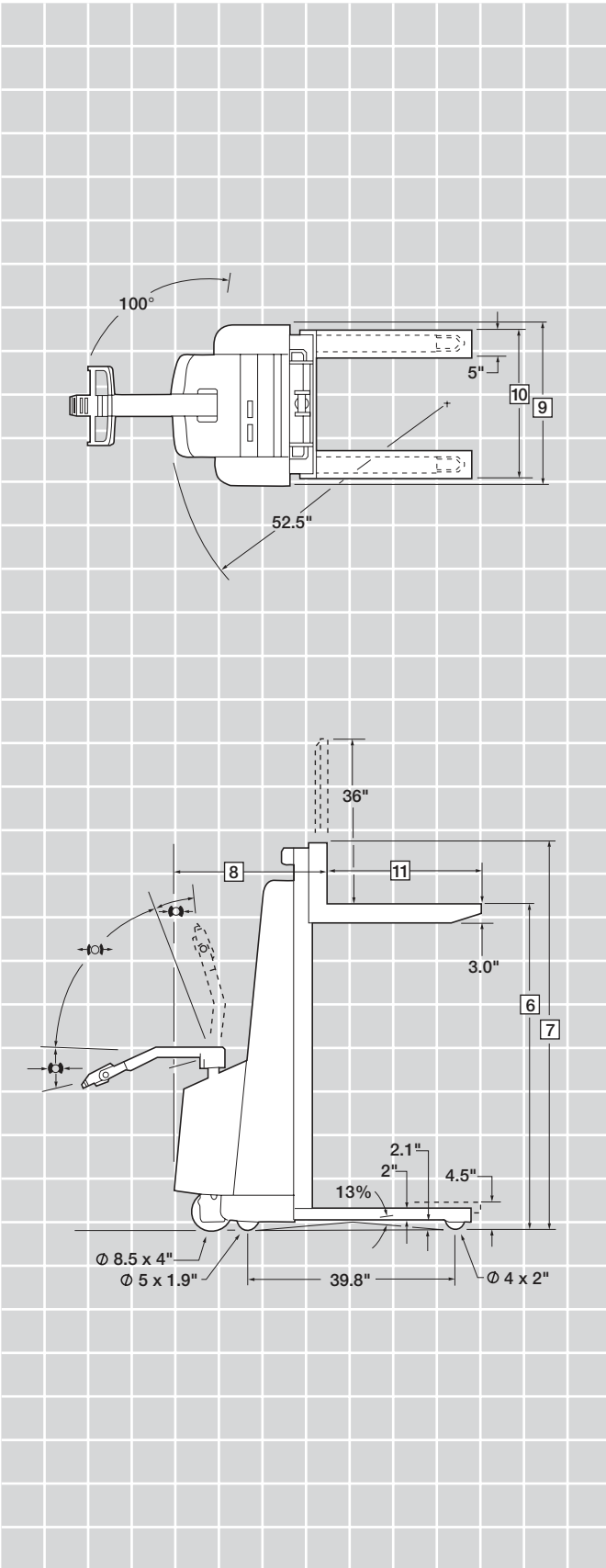
Walkie  
Stackers

M

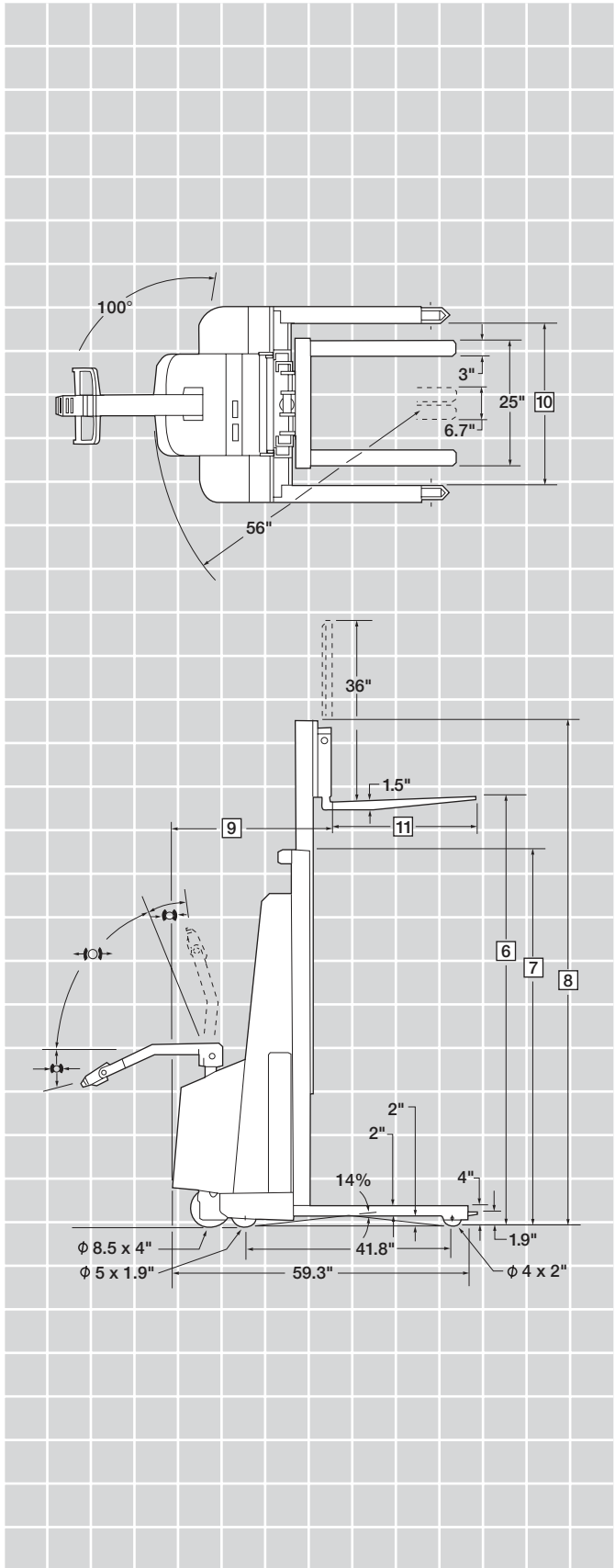
Series



Model 20M  
Fork Over



Model 20MT  
Straddle



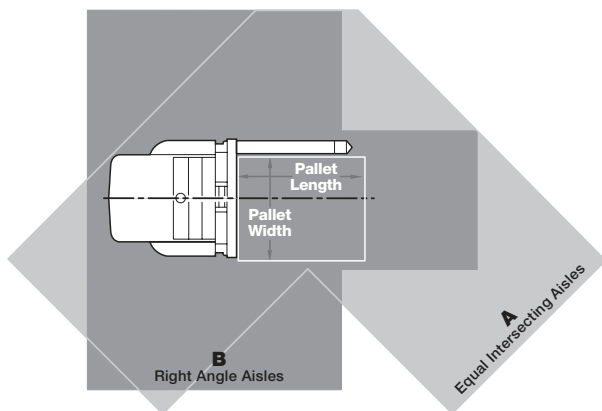
# M Series

# Specifications

1	<b>Manufacturer</b>	<b>Crown Equipment Corporation</b>			
2	<b>Model</b>	<b>20M</b>			
3	<b>Load Capacity*</b>	lb	2000		
4	<b>Load Center</b>	in	24		
5	<b>Mast Type</b>	Single			
6	<b>Lifting Height</b>	in	67		
7	<b>Collapsed Height</b>	in	78		
8	<b>Head Length</b>	in	28.5		
	<b>Net Weight with Batteries</b>	lb	990		
9	<b>Overall Baseplate Width</b>	in	26		
10	<b>Inside/Outside Fork Spread</b>	in	15.8/25.9		
11	<b>Fork Lengths</b>	in	30, 36, 42 and 48		
	<b>Overall Length</b>	in	Head Length (8) + Fork Length (11)		
12	<b>Travel Speed</b>	mph	Three forward and reverse speeds to 3 mph		
13	<b>Lift Speed</b>	E/L fpm	25/13		
14	<b>Lowering Speed</b>	E/L fpm	14/22		
2	<b>Model</b>	<b>20MT</b>			
3	<b>Load Capacity*</b>	lb	2000		
4	<b>Load Center</b>	in	24		
5	<b>Mast Type</b>	Telescopic			
6	<b>Lifting Height</b>	in	90	110	130
	<b>Free Lift*</b>	in	50	60	70
7	<b>Collapsed Height</b>	in	71.5	81.5	91.5
8	<b>Extended Height**</b>	in	106.5	126.5	146.5
9	<b>Head Length</b>	in	34.2	34.2	34.2
	<b>Net Weight with Batteries</b>	lb	1300	1400	1455
10	<b>Inside Straddle</b>	in	Adjustable in 2" increments from 32" to 50"		
	<b>Outside Straddle</b>	in	Inside plus 6.25"		
11	<b>Fork Lengths</b>	in	30, 36, 42 and 48		
12	<b>Fork Adjustment</b>	in	6.7 to 25		
13	<b>Travel Speed</b>	mph	Three forward and reverse speeds to 3 mph		
14	<b>Lift Speed</b>	E/L fpm	25/13		
15	<b>Lowering Speed</b>	E/L fpm	22/36		

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

\*\* Add 16.5" if optional load backrest is used.



# M Series

# Aisle Planning Guide

## Straddling Load

Pallet Width		Pallet Length							
		30		36		42		48	
		A	B	A	B	A	B	A	B
<b>30</b>	in	55	64	59	64	62	66	65	71
<b>36</b>	in	59	65	62	66	65	69	68	72
<b>42</b>	in	64	68	66	69	69	71	71	74
<b>48</b>	in	69	72	70	72	72	74	74	77

## Load Over Outriggers

Pallet Width		Pallet Length							
		30		36		42		48	
		A	B	A	B	A	B	A	B
<b>30</b>	in	50	63	54	64	57	66	60	68
<b>36</b>	in	53	64	57	65	60	67	63	69
<b>42</b>	in	58	65	62	67	64	68	67	70
<b>48</b>	in	64	66	67	68	68	70	70	72

Add 6" to all aisle dimensions for maximum maneuverability.

**Capacity**

Models 20M and 20MT  
2000 lb at 24" load center

**Batteries**

Four 6-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**

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

**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 safety shield
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 bench type charger complete with timer and SB 50 connector
6. Maintenance platform
7. Remote raise/lower
8. Snap-on platform
9. Wire mesh safety shield

**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. Steel load wheels - 4" dia, 2" face as standard. All wheels equipped with roller bearings. Drive tire - 8.5" x 4" x 4" 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" to insure traction over uneven floors and on ramps. Heavy coil spring exerts 400 lb 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.

**Safety Shield**

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

**Other Options**

1. Audible travel alarm
2. Flashing lights

Safety considerations and dangers associated with audible travel alarms and flashing lights include:

- Multiple alarms and/or lights can cause confusion.
- Workers ignore the alarms and/or lights after day-in and day-out exposure.
- Operator may transfer the responsibility for "looking out" to the pedestrians.
- Annoys operators and pedestrians.

*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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