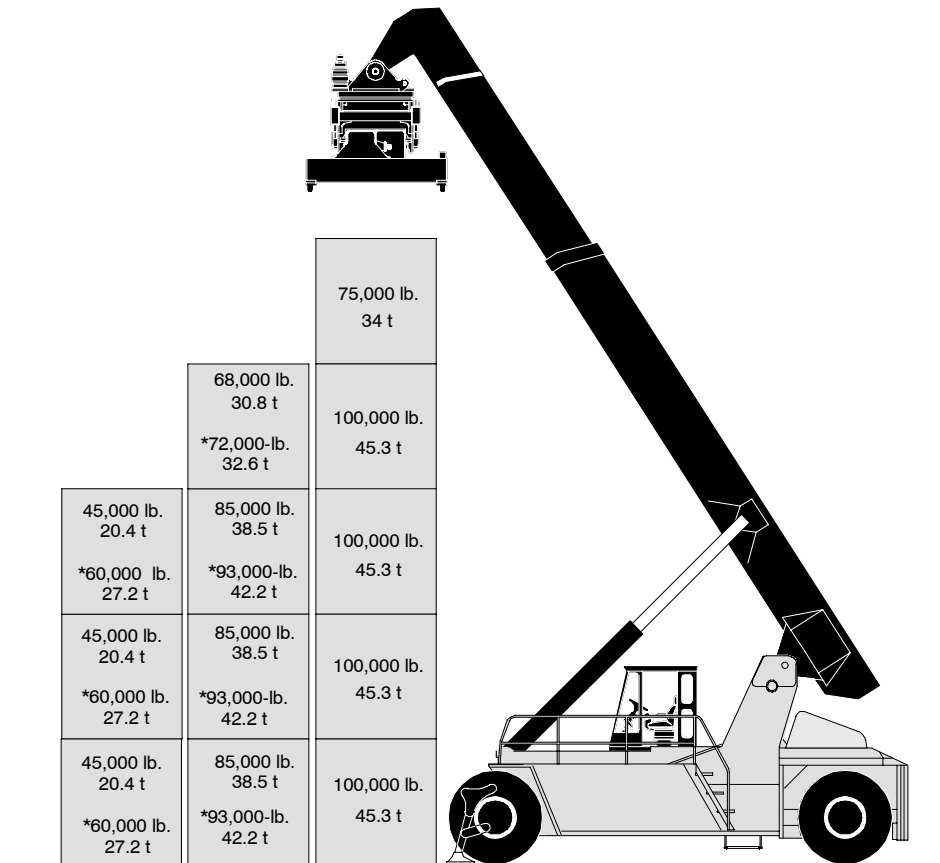




TITAN TS-1068

Reach Stacker Preliminary Specifications

ISO And WTP Rated Container Capacity 100,000-lbs. (45.3 t)
 for 4-high 9.5-ft. (2.9 m) First Row Stacking
 and 75,000 lbs. (34 t) for 5-high Stacking
 275-in. (6,985 mm) Wheelbase
 Equipped With Stabilizers
 Higher Rated Capacities With Stabilizers Down



*** Higher Rated Capacities With Stabilizers Down**

TITAN TS-1068 Reach Stacker

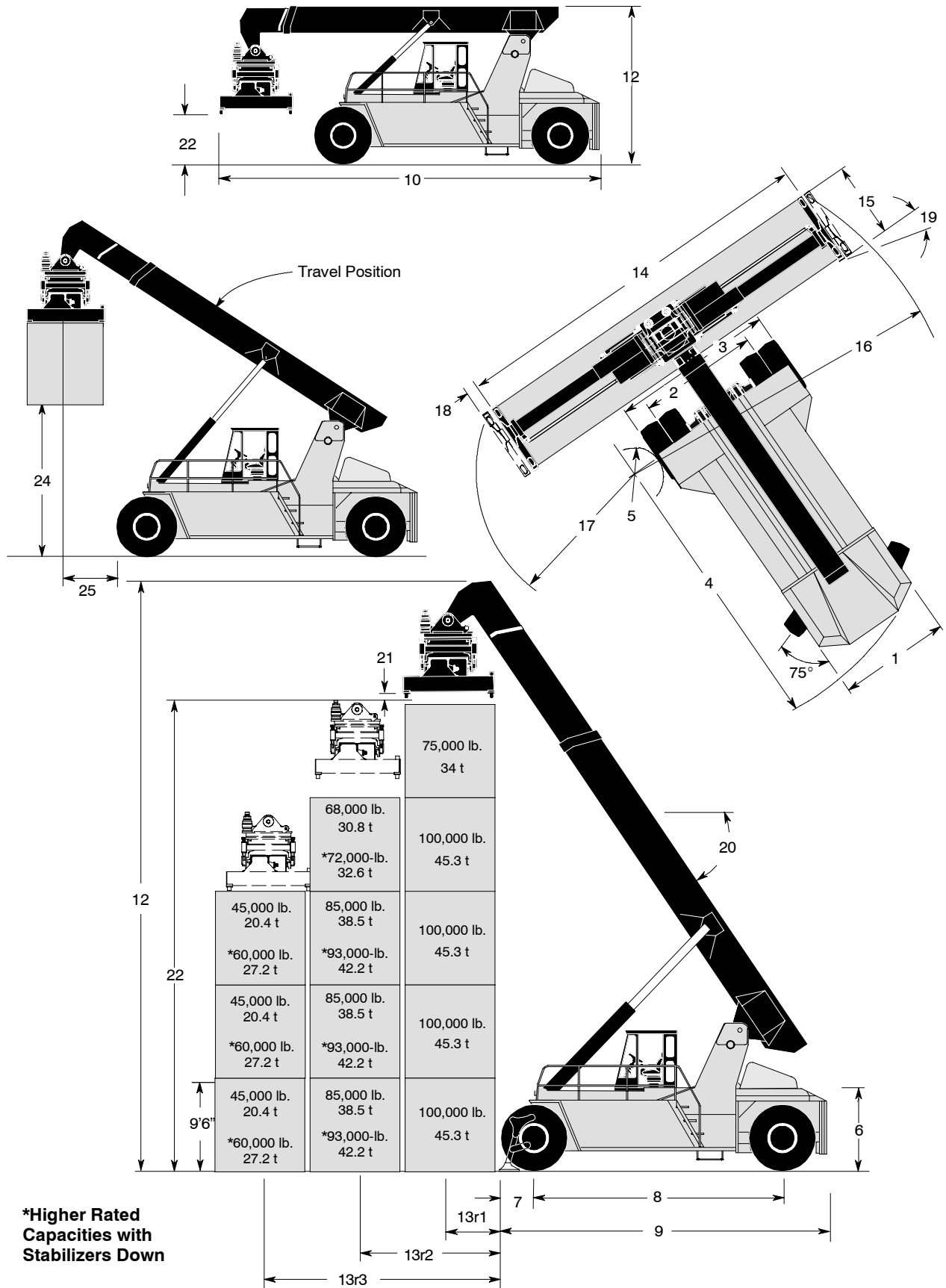
Manufacturer's Name		TAYLOR				
Manufacturer's Designation		TS-1068 Reach Stacker				
		English		Metric		
		Stabilizers Up		Stabilizers Down		
ISO And WTP Rated 9.5-ft. (2.6 m) Container Capacity	1st Row 4-High 9.5-ft. (2.6 m) Stack Capacity At 76*-in. (1,930 mm) Cent. Of Grav.	lb (t)	100,000	45.3	100,000	45.3
	1st Row 5-High 9.5-ft. (2.6 m) Stack Capacity At 76*-in. (1,930 mm) Cent. Of Grav.	lb (t)	75,000	34	75,000	34
	2nd Row 3-High 9.5-ft. (2.6 m) Stack Capacity At 152-in. (3,861 mm) Cent. Of Grav.	lb (t)	85,000	38.5	93,000	42.2
	2nd Row 4-High 9.5-ft. (2.6 m) Stack Capacity At 152-in. (3,861 mm) Cent. Of Grav.	lb (t)	68,000	30.8	72,000	32.6
Rated Container Capacity	3rd Row 3-High 9.5-ft. (2.6 m) Stack Capacity At 252-in. (6,401 mm) Cent. Of Grav.	lb (t)	45,000	20.4	60,000	27.2
Additional Center Of Gravity Capacities	For Reach Over 8.5-ft. (2.6 m) Wide Chassis To Railcar at 204-in. (5,181 mm) Center Of Gravity (Tire Face To Railcar Centerline)	lb (t)	62,000	28.1	78,000	35.4
ISO And WTP Rated 9.5-ft. (2.6 m) Container Capacity	3-High 9.5-ft. (2.6 m) Stack Capacity At 176-in. (4,478 mm) Cent. Of Grav.	lb (t)	75,000	34	83,000	37.6
	2-High 9.5-ft. (2.6 m) Stack Capacity At 207-in. (5,258 mm) Cent. Of Grav.	lb (t)	45,000	20.4	60,000	27.2
Nominal Load Moment With Attachment 1st Row And 100,000-lbs. (45.3 t) Load		in-lb (m-kg)	11,270,000		129,853	
Tractive Effort At Stall		lb (kN)	49,000		218	
Vehicle Weight - Empty	Drive Axle	lb (kg)	127,300		57,743	
	Steer Axle	lb (kg)	94,500		42,865	
Vehicle Weight - Loaded With 100,000-lbs. (45.3 t) Load	Drive Axle	lb (kg)	245,800		111,495	
	Steer Axle	lb (kg)	76,000		34,474	
Tires - Drive And Steer			18.00 x 33 E4			
Tire Inflation Pressure (Contact Pressure)		psi (kPA)	145		999	
Machine Dimensions						
1 - Width Across Counterweight		in (mm)	143.5		3,645	
2 - Tread Width, Drive Axle		in (mm)	120		3,048	
3 - Width Over Drive Tires		in (mm)	165		4,191	
4 - Outside Turn Radius (Tailswing)		in (mm)	356		9,042	
5 - Inside Turn Radius		in (mm)	37		940	
6 - Height To Top Of Counterweight		in (mm)	79.4		2,002	
7 - Drive Axle CL To Face Of Tires (Nominal)		in (mm)	36.7		932	
8 - Wheelbase		in (mm)	275		6,985	
9 - Overall Length Of Chassis		in (mm)	359		9,119	
10 - Overall Length Of Complete Unit (Boom Down and Retracted) -		in (mm)	500		12,700	
11 - Overall Movement Of Cab Forward (Manually for Service)		in (mm)	90		2,286	
12 - Height To Top Of Boom	Fully Lowered	in (mm)	198		5,029	
	Fully Raised	in (mm)	705		17,904	
Operator Eye To Ground		in (mm)	140		3,556	
Attachment Dimensions						
13 - Center Of Gravity Distance From Tire Face (Container Stacking)	1st Row (r1)	in (mm)	76*		1,930	
	2nd Row (r2)	in (mm)	152		3,861	
	3rd Row (r3)	in (mm)	252		6,401	
14 - Length Of Attachment (Nominal)	Expanded	in (mm)	480		12,192	
	Retracted	in (mm)	240		6,096	
15 - Width Of Attachment (Nominal)		in (mm)	96		2,438	
16 - Turn Radius, Far Corner Of Container (Retracted)		in (mm)	278	7,061	388	9,855
17 - Turn Radius, Near Corner Of Container (Retracted)		in (mm)	133	9,855	176	4,470
18 - Sideshift ±		in (mm)	31.5		800	
19 - Attachment Rotation (CW / CCW)		deg. °	95 / 185			
20 - Boom Angle (Max) -		deg. °	60			
21 - Length Of ISO Twistlock Below Attachment (Nominal)		in (mm)	4		102	
22 - Height To Tip Of Twistlock - Min / Max		in (mm)	26.5	673	581	14,757
23 - Minimum Aisle For 90° Stacking (Per FEM STD TN01 With Clearance)		ft/in (m)	45' 6"	13.8	49' 8"	15.2
24 - Bottom Of 9.5-ft. (2.9 m) Container To Ground At Travel Position		in (mm)	150		3,810	
25 - Center Of Gravity Distance At Travel Position		in (mm)	53		1,346	
26 - Hydraulic Pile Slope ±5° end to end		in (mm)	21	533	42	1,066
Travel And Lift Speeds						
Travel Speed (Max) - Forward And Reverse						
		mph (km/h)	18	28.9	14	22.5
Approximate Lift Speed (Max)						
		fpm (m/s)	42	0.2	40	0.2

NOTE: Performance specifications are for machines equipped as described on the back page of this specification sheet. Performance specifications are affected by the condition of the vehicle, its components, and the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your Taylor sales representative.

Contact factory for capacities, stack heights, and unit weights if optional pile slope is added.

*For first row containers, on or near the ground, the Center of Gravity will be 95" (2,413 mm) from face of drive tire.

TITAN TS-1068 Reach Stacker



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Engine

Cummins QSM11-335 electronic turbocharged, charged air after cooled (air to air) diesel engine has 335 (250 kW) gross brake horsepower at 2100 rpm and 365 (272 kW) gross horsepower at 1800 rpm. The 4-cycle in-line 6 cylinder engine has 660 cubic inch (10.8 liter) displacement. The bore is 4.92 in. (125 mm) x 5.79 in. (147 mm) stroke. Peak torque is 1235 ft.-lbs (1674 N-m) at 1400 rpm (SAE J1349). This peak torque is maintained from 1000 to 1400 rpm. Standard features are electronic diagnostic and maintenance monitor, fuel/water separator and engine/transmission protection systems.

US EPA Tier III, Carb Tier III, EU Stage III

The fuel tank capacity is 210 gallons (795 L).

Air Cleaner

The Donaldson, heavy-duty, FTG, Cycloflow, dry air cleaner has a built-in pre-cleaner, safety element, restriction indicator, and Vacuator dust ejector.

Cooling System

The deaeration tank, with a sight gauge for checking coolant level, provides optimum engine cooling.

Electrical, Instrumentation, and Accessories

The one-piece instrument panel is pre-wired to accommodate heavy-duty accessories and flips down for easy servicing. All wiring is color coded.

The unit has a 12-volt electrical system. Standard equipment includes a key-type anti-restart ignition system, two 220 amp-hour batteries, a 160-amp alternator, a main battery disconnect switch, an electrical temperature gauge, indicator lights, thermal reset circuit breakers, lighted instruments, and air conditioning.

Ten worklights (four front, two rear, two on the attachment, two on the boom), key-switch actuated amber strobe lights, forward alarm, reverse-actuated warning alarm, rear-view mirrors, and horn are standard.

Gauges and indicators include fuel level, hourmeter, and indicator lights for the following: transmission oil pressure, transmission oil temperature, seat belt, parking brake, alternator, low brake pressure, autoshift, and engine shutdown.

A rear visibility aid camera system, load moment indicator system, and selectable vertical lift system are standard.

Transmission

The four-speed, fully reversing, modulated, powershift transmission has declutch and electric shift control. An Automatic Powershift Control feature is standard. Brakes behind declutch. The filler pipe dipstick and large, heavy-duty, oil filter are easily accessible. Separate air-to-oil cooler. The integrally built torque converter has constant-mesh gear sets actuated by hydraulic clutch packs.

Drive Axle

The high-stability, wide stance, planetary drive axle's housing is bolted to the frame.

Steer Axle

The single-cylinder design steer axle with tapered wheel and kingpin bearings is fully sealed and never needs adjusting.

Brake System

The internal force-cooled, hydraulic-actuated, wet disc, service brakes (and the hydraulic oil) are cooled by an air-to-oil cooler separate from the transmission cooler. The drive-line brake is spring applied for parking and hydraulic actuated off.

Power Steering

The hydrostatic steering system provides constant response at all engine speeds.

Chassis

The all-welded frame has an integral, sloped, counterweight. Hinged doors provide easy access to all service points.

The center mounted cab is powered for selectable forward movement, which is controlled by an electrical switch on the operator's console. The adjustable, air ride suspension seat has flip-down, adjustable angle arm rests and an operator seat belt.

Hydraulic System

The large capacity hydraulic tank has a spin-on tank breather, return line filters with replaceable elements in the tank, and an external sight gauge. An air-to-oil cooler, separate from the transmission cooler, cools the hydraulic system oil (and service brakes). In addition to the large capacity tank, hydraulic oil is cooled in an air / oil cooler between the fan and the radiator. The variable displacement pumps are converter driven. The dual, double-acting lift cylinders are pinned to the boom and must be powered down, providing additional safety when lowering the boom. All cylinders have chrome-plated rods, and self-adjusting packing. The solenoid-operated valves are controlled by a conveniently located "joystick" control lever.

The hydraulic tank capacity is 170 gallons (644 L).

Stabilizers

Stabilizers are hydraulically actuated for second and third row centers of gravity with system to prevent traveling when not fully raised.

Boom and Combination ISO / WTP / Pin Container Attachment

The telescopic boom is high-strength steel. Double-acting hydraulic cylinders provide precise boom movements. The telescoping attachment has standard ISO twistlocks for 20-ft. (6.1 m) and 40' (12.2 m) positions. The unit will handle ISO, WTP and Side Pin containers in widths of 8-ft. (2.4 m) and 8-ft. 6-in. (2.6 m), heights of 8-ft. (2.4 m) through 9-ft 6 in (2.8 m) , and lengths of 20-ft (6.1 m) through 53-ft (13.4 m). The hydraulic motor and gear reduction system permit +31.5-in. (+ 800 mm) side shifting, 95° CW and 185° CCW attachment rotation. Attachment has ±5° powered pile slope standard. The attachment has mechanical twistlock indicators. Electrical safety sensors prevent twistlocks from being locked or unlocked when not "seated," and prevent attachment extension or retraction when twistlocks are "locked" or "seated."

Containers more than 40-ft. (12.2 m) long must have the standard 40-ft. (12.2 m) ISO pickup points. Controls in the cab energize valves on the attachment to operate side shift, twistlocks/pins, automatic 20-ft. and 40-ft. (6.1 m and 12.2 m) frame positioning, and left and right hand slew. Signal lights are amber, green, and red. Two worklights are standard.

This vehicle is certified to meet the applicable design and performance criteria required for Powered Industrial Trucks in OSHA Safety and Health Standards, Title 29 CFR, Part 1910.178, and the applicable design and performance requirements in ANSI B56.1 that were in effect at the time of manufacture. These standards also apply to the user and should be adhered to while operating this vehicle.

This vehicle is also certified to meet the applicable design and performance criteria required by F.E.M. 4.001q stability standard for freight container handling variable reach industrial trucks.

All specifications are subject to change without notice. Some operating data may be affected by the condition of the operating area. If these specifications are critical, contact the factory.