

# INDUSTRIAL LIFT TRUCK SPECIFICATION SHEET

## **GTEC-9.7** **Empty Container Handler**

9.5-ft. (2.9 m) High Containers: 6-high Stacking  
8.5-ft. (2.6 m) High Containers: 7-high Stacking  
48 in (1220 mm) Load Center  
180 in (4,550 mm) Wheelbase



Cover image is for example purposes only and may not reflect current features.





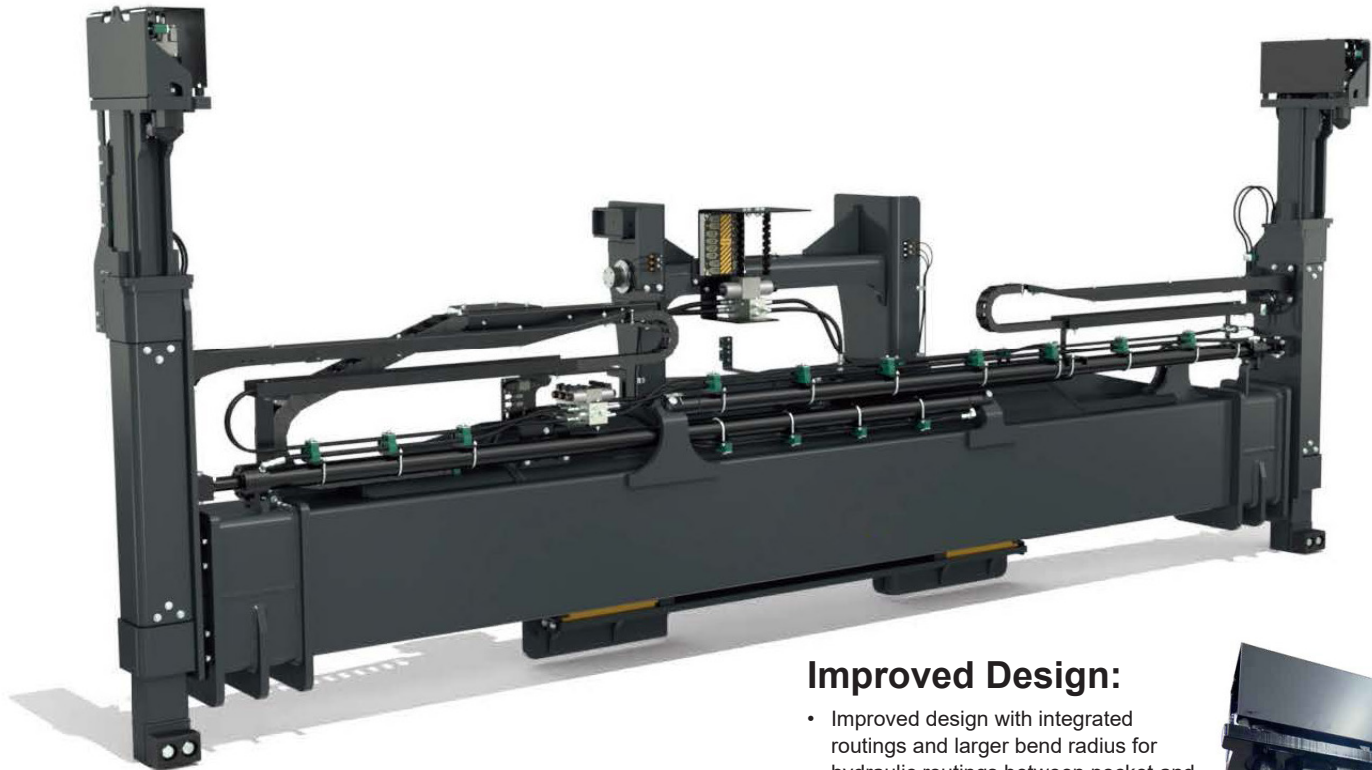
## RELIABLE Empty Container Handlers

- Years of industry experience, 3D product design, finite element analysis, kinematic and dynamic simulation calculation, field verification, and machine testing ensure reliable and durable structures.
- The mast is made of high-strength steel with an ultra-wide structure design. The connection point of the tilt cylinders is at a high position to improve the rigidity and stability of the truck.
- The truck's variable cooling system automatically adjusts to ensure each system is at peak operational efficiency.
- Waterproof and dust-proof electrical system
- DANA transmission and KESSLER drive axle
- The GTEC-9.7 spreader from Elme has higher reliability, longer service life, lower failure rate, and lower maintenance cost.



# GTEC-Series Empty Container Handler

Single Handling Container Spreader with Vertical Twistlocks.



## Improved Design:

- Improved design with integrated routings and larger bend radius for hydraulic routings between pocket and end-post.



## Suitable For:

- Standard 20' or 40' ISO containers
- CPC (Cellular Pallet-wide Containers) with ISO-like corner castings

## Not Suitable For:

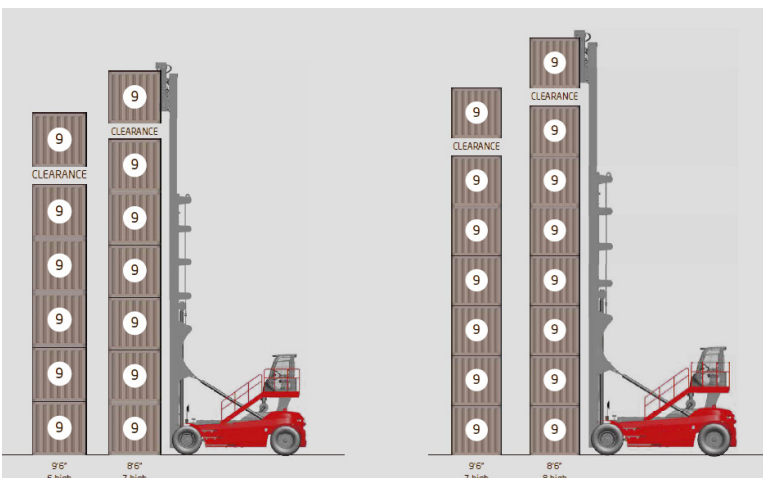
- CPC (Cellular Pallet-wide Containers) with non-ISO corner castings.



## TECHNICAL SPECIFICATIONS

Type of lifting system	Two vertical twistlocks
Type of stacking	Normal and block stacking
Spreader weight (TW)	3600 kgs
Carriage weight (MPS)	1050 kgs
Lifting capacity (SWL)	9 tons
Telescopic positions	20 and 40ft
Telescoping speed, 20-40ft	< 12 sec.*
Telescoping speed, 40-20ft	< 14 sec.*
Sideshift	± 600 optional ± 400 mm
Mechanical pile slope (MPS), vertical floating end-posts	At 20ft position: approx. 200 mm At 40ft position: approx. 200 mm
Hydraulics, operating pressure up to	140 bar
Hydraulics, flow	40-60 L/min
Electric - control voltage	24 VDC
Communication	CAN 2.0B
Color	Black Grey RAL 7021

\* Calculated speed at 60 L/min



## Empty Container Truck Dimensions:

General		Model	Manufacturer's Designation		GTEC 9.7		
	Load Center	C	Load Center Distance	in (mm)	48.0	1,200	
		X	Load Distance, Center of Axle to Face of Spreader	in (mm)	52.8	1,340	
	Rated Capacity		6-High Stacking 9.5-ft (2.9m) Container	lb (kg)	19,841	9,000	
			7-High Stacking 8.5-ft (2.6m) Container	lb (kg)	19,841	9,000	
	Wheelbase	Y	Distance	in (mm)	180.0	4,550	
	Power Type		Diesel			Diesel	
Dimensions	Tilt Angle	a/b	Standard Upright - FWD/Backward	Degrees		3/4	
	Overall Dimensions	I1	Overall Length	in (mm)	275.6	7,000	
		I2	Center of Drive Axle to Spreader Face	in (mm)	269.7	6,850	
		B11	Tread Width (Steer Axle)	in (mm)	90.6	2,300	
		B10	Tread Width (Drive Axle)	in (mm)	129.1	3,280	
		B1	Width (Over Front Fenders)	in (mm)	162.2	4,120	
		B2	Width (Over Counterweight/Fenders)	in (mm)	106.3	2,700	
		H10	Coupling Height	in (mm)	29.1	740	
		H1	Overall Height (Lowered)	in (mm)	421.9	10,715	
		H2	Height to Tip of Twistlock (Lowered)	in (mm)	86.6	2,200	
		H3	Height to Tip of Twistlock (Raised)	in (mm)	735.0	18,670	
	H4	Height (Mast Fully Raised)	in (mm)	952.0	19,100		
	H7	Seat Height (S.I.P.)	in (mm)	137.8	3,500		
	H6	Height (Top of Overhead Guard/Cab)	in (mm)	181.1	4,600		
	Ground Clearance	M1	Lowest Point	in (mm)	11.4	290	
		M2	Center of Wheelbase	in (mm)	11.8	300	
	Attachment Dimensions	20-ft Container (6.1m)	B3	Length of Attachment (Retracted)	in (mm)	240.0	6100
40-ft Container (12.2m)		B5	Length of Attachment (Expanded)	in (mm)	482.0	12,240	
Turn Radius	Truck Only		Sideshift	in (mm)	23.6	600	
			Turning Radius	in (mm)	236.2	6,000	
		B13	Minimum Pivoting Point Distance	in (mm)	82.1	2,085	
			Min. Aisle for 90° Stacking with 8'6"	in (mm)	401.6	10,200	
			Min. Aisle for 90° Stacking with 9'6"	in (mm)	551.2	14,000	
Weight	Total Apprx. (Empty)		Standard Truck	lb (kg)	87,744	39,800	
Wheels & Tires	Tire Type		Cushion or Pneumatic (Front / Rear)			Pneumatic / Pneumatic	
	Wheels		Number (Front / Rear)			4 / 2	
	Tires		Number (Front / Rear)			4 / 2	
				Size (Front)			14.00 X 24-28PR
				Size (Rear)			14.00 X 24-28PR
		Brakes		System Type			Wet Disc
Miscellaneous			Control Method (Service / Parking)			Foot / Hand	
			Operating Pressure for Attachments	bar		250	
			Oil Volume for Attachments	gal/min (L/min)	76.08	288	
			Hydraulic Tank - Capacity (Drain & Refill)	gal (L)	121.5	460	
			Fuel Tank Capacity	gal (L)	163.8	620	
			Sound Pressure Level at the Drier's Seat	dB (A)		72	

## Engine:

Optional Engine International Shipments Only

Engine	Make & Model	Volvo TAD881VE†				Cummins QSC 8.3††				
	Tier Compliance	Tier 4 Final				Tier 3				
	Fuel - Engine Type	Diesel - 4 Stroke				Diesel - 4 Stroke				
	Rated Output	hp (Kw)	248	185	240	179				
	Peak Torque	hp (Kw)	867	1400	1175	1400	800	1500	1085 1500	
	Gov'n Speed w/Load	RPM	2200				2200			
	Cyl/Displacement	cyl (L)	6	7.7	6	8.3				
<b>Transmission:</b>	Fuel Capacity	gal (L)	164	620	164	620				
<b>Electrical</b>	Battery	Volt/Ah (2 batteries)	24 / 2300				24 / 2300			
	Alternator	Amps	110				110			

† This engine requires (DEF) Diesel Exhaust Fluid and features (SCR) Selective Catalytic Reduction, (CEGR) Cooled Exhaust Gas Recirculation, diagnostic and maintenance monitor, fuel/water separator and engine/trans. protection systems. Emission certification: US EPA Tier 4 Final

†† Standard features are electronic diagnostic and maintenance monitor, fuel/water separator and engine/transmission protection systems. Emission certification: US EPA Tier III, Carb Tier III, EU Stage III. Attention: Taylor models equipped with U.S. EPA Tier 3 certified engines are available for sale outside of the highly regulated countries of North America, Europe and Japan. Refer to the off-road diesel engine emission regulations of the specific country in question for verification.

## Transmission:

Trans.	Make & Model	Dana TE-14		Dana TE-14	
	Number of Speeds	Fwd/Rev	3/3	3/3	
	Clutch		Declutch	Declutch	

The 3-speed automatic powershift transmission is modulated, fully reversing and features electric declutch. Directional controls are actuated through a column mounted shift lever. Temperature control is achieved through a separate air-to-oil cooler. The filler-pipe dipstick and large, heavy-duty oil filter are easily accessed for maintenance.

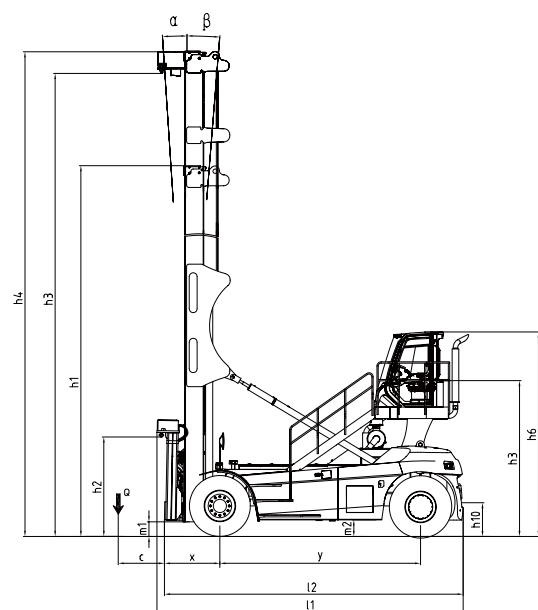
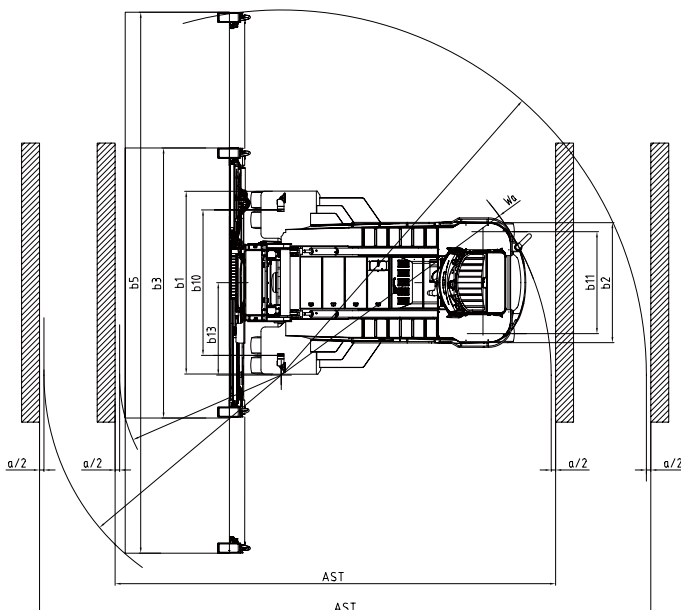
## Axles:

Drive Axle	Make & Model	Wet Disc	Kessler D81	Kessler D81
Steer Axle	Make & Model	Welded Beam Type	Welded Beam Type	Welded Beam Type

## Performance: †

<b>Travel Speed</b>	Maximum Fwd/Rev	mph (km/h)	No Load	17.4 28.0	With Load	16.2 26.0
<b>Lift Speed</b>		fpm (m/s)	No Load	122 0.62	With Load	108 0.55
<b>Lowering Speed</b>		fpm (m/s)	No Load	108 0.55	With Load	98 0.50
<b>Gradeability</b>	With Load*	%	22			
<b>Drawbar Pull</b>	Maximum @ Stall*	lb (kN)	35,969		160	

† NOTE: Performance specifications are based on trucks with standard equipment. 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.





## Standard Features: GTEC Series

- Sunshade
- Adjustable Steering Column
- High-exit exhaust
- Multi-functional instruments
- Emergency implement lowering
- Reading light
- Multi-directional adjustment armrest
- Traction device
- LED lights
- Reverse buzzer
- Automatic idle shutdown
- Cabin AC and heat
- OPS (operator presence system)
- Emergency shutdown switch
- Electric horn
- Maintenance reminders
- Radio
- Pneumatic tires
- Fully hydraulic power steering
- Rear object detection
- Spreader twist-lock interlocks
- Fault diagnosis system
- Main power disconnect switch

## Options:

- Custom paint color
- Fire extinguisher (2kg/4kg)
- Overload protection devices
- Solid tire
- Automatic fire extinguishing system
- Speed limit alarm
- Blue light
- Cabin Protection
- Tire pressure monitoring (TPMS)
- Auto lubrication system
- Front view system (optionally with a memory)
- Automatic Vertical mast
- Spark arrester
- Weighing system
- Intercom microphones

## Vehicle Information Package

- Operators Guide
- Maintenance and Service documentation including key circuit drawings (Serial Number Specific Parts Book is available upon request)
- Safety Check Manual and Video



## Fully-Suspended All-Round Vision Cab

- The fully-suspended cab can be repaired and maintained easily, can easily switch to the manual movement mode, and easily move.
- Sound and heat insulation shield vibration and noise.
- Large curved front and rear windows, all-glass left and right doors, and large glass sky-light enhance visibility.
- Tilt and telescopic steering column, fully-suspended adjustable seat with a high backrest and safety belt, and OPS Operator Presence System.
- Heat, defrost, and air-conditioning with dual ventilation modes, sun shades, and adjustable wipers enhance operator comfort.



## Comfortable

- High-definition color screens display the truck status in realtime with fault alarms for easier maintenance.
- The latest generation electronically-controlled transmission enables flexible, smooth and comfortable gear shifting.



## Efficient

- Single joystick control.
- Increased lifting speed and faster dynamic response enable higher operation efficiency.
- Simplified maintenance with easy access to engine compartment, daily fluid level checks and electric control box. Large cabin, with built-in diagnostic and query functions.



## Safe

- Spreader twist-locks equipped with mechanical and electrical protection devices, lifting interlocks, OPS system, travel speed limiter to name a few.
- Bright LED operator display
- Rear camera and object detection systems are provided standard with options such as automatic fire suppression, tire pressure monitoring, and overload protection.

## NEED OPTIONS?

Just ask one of our Taylor Specialist.

Taylor Machine Works was founded on the promise of meeting our customer's needs. The signage on our original facility in 1927 stated "We Engineer and Build What You Need" and those ideals still ring true today! From multiple Mast, Carriage and Fork configurations to Special Attachments that are unique to your business, we will step forward to meet the challenge. We have a dedicated engineering group focused on meeting special request from our customers. This ensures that you have the exact equipment you need to tackle your rugged applications. With hundreds of options readily available for our trucks, and the ability to custom engineer any other need that arises, Taylor Machine Works is here ready to serve.

# GTEC Series

## Empty Container Handlers



**DISCLAIMER:**

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.

All specifications are subject to change without notice. Some operating data may be affected by the condition of the vehicle, how it is operated and the nature and condition of the operating area. If these specifications are critical, contact the factory.



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