

INDUSTRIAL LIFT TRUCK SPECIFICATION SHEET

GTR25-12

Heavy Duty Pneumatic Tire Forklift

25,000-kg (55,110-lbs) Rated Capacity
1200-mm (48-in) Load Center
4250-mm (167-in) Wheelbase



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



High Performance

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. Travel and lift speeds have been improved for class-leading performance.

- **Travel & Lift Speed:** The GTR25-12 has increased the travel and lift speed by 10-20% depending on the model, increasing efficiency and productivity.
- **Load Sensing Hydraulics:** The GTR25-12 uses load sensing hydraulics to provide improved efficiency leading to reduced hydraulic oil working temperatures, and extended life of hydraulic components.
- **Increased Strength:** The GTR25-12 has a more efficient structural design, which achieves an overall lighter weight while improving strength and durability.



GTR25-12 Heavy Duty Pneumatic Tire Forklift

Heavy Duty Drivetrain

Heavy Duty Engine:

- **VOLVO TAD881VE:** The Volvo engine is Stage V compliant. The engine uses common rail fuel systems, selective catalytic reduction (SCR), diesel oxidation catalysts (DOC), and diesel particulate filters (DPF) to achieve compliance.
- **CUMMINS QSC8.3:** The Cummins engine is standard for Tier 3 emissions applications



VOLVO T4F



CUMMINS T3

Heavy Duty Transmissions:

- **ZF Transmission:** The GTR25-12 uses a ZF transmission. This transmission with electronic control, provides stable, accurate, and reliable travel with its three-speed power shifting feature.



Heavy Duty Drive Axles:

- **KESSLER Drive Axle:** The GTR25-12 uses a Kessler Drive Axle. This drive axle features two-stage gear reduction, wet brakes, and a hydraulically released spring applied parking brake.



Engine:		Optional Engine International Shipments Only								
Engine	Make & Model	Volvo TAD881VE †				Cummins QSC8.3 ††				
	Tier Compliance	Stage V				Tier 3				
	Fuel - Engine Type	Diesel				Diesel				
	Output	hp (Kw)	248	185		240	179			
	Gov'n Speed w/Load	RPM	2210				2200			
	Cyl/Displacement	cyl/cu-in (L)	6	470	7.7	6	507	8.3		
	Peak Torque*	ft-lbs/RPM (Nm/RPM)	867	1400	1175	1400	800	1500	1085 1500	
Electrical	Battery	Volt/Ah (2 batteries)	24 / 2300				24 / 2300			
	Alternator Rating	Amps	110				110			

† This engine requires (DEF) Diesel Exhaust Fluid and features (SCR) Selective Catalytic Reduction, (DPF) Diesel Particulate Filter, diagnostic and maintenance monitor, fuel/water separator and engine/trans. protection systems. Emission certification: US EPA Stage V.

†† 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	ZF 3WG211	ZF 3WG211
	Number of Speeds	Fwd/Rev	3/3

The 3-speed automatic powershift transmission is modulated, fully reversing and features inching capability. 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 D91	Kessler D91
Steer Axle	Make & Model		Welded Beam Type	Welded Beam Type

The bolted heavy-duty planetary drive axle utilizes wet disc brakes.

Performance: †

Travel Speed	Maximum Forward	mph (km/h)	19	31
Lift Speed	No Load	fpm (m/s)	72	0.37
	With Load	fpm (m/s)	66	0.34
Lowering Speed	No Load	fpm (m/s)	90	0.46
	With Load	fpm (m/s)	89	0.45
Gradeability	No Load*	%		25
Drawbar Pull	Maximum @ Stall*	lb (kN)	35,937	160
Stability	Comply with ISO 1074			Yes

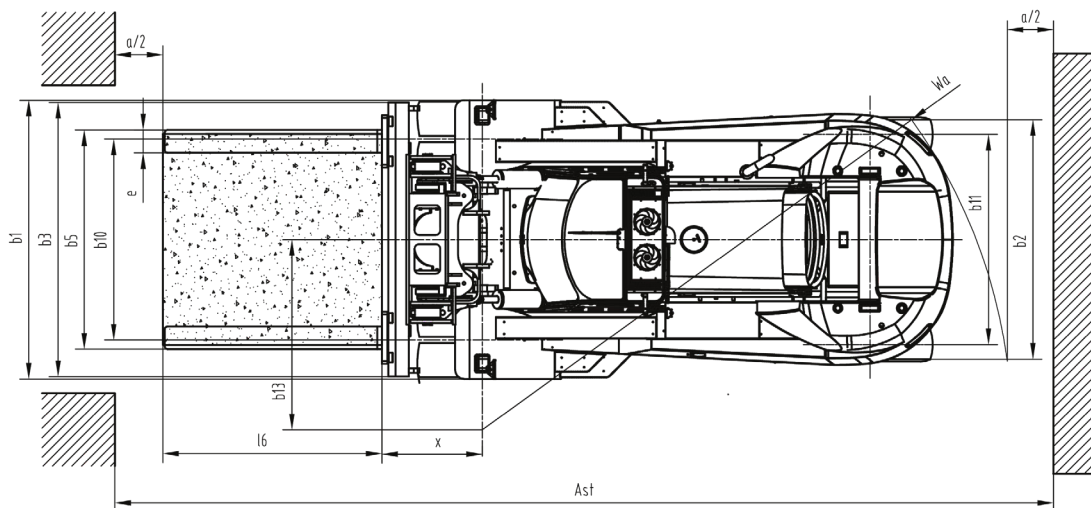
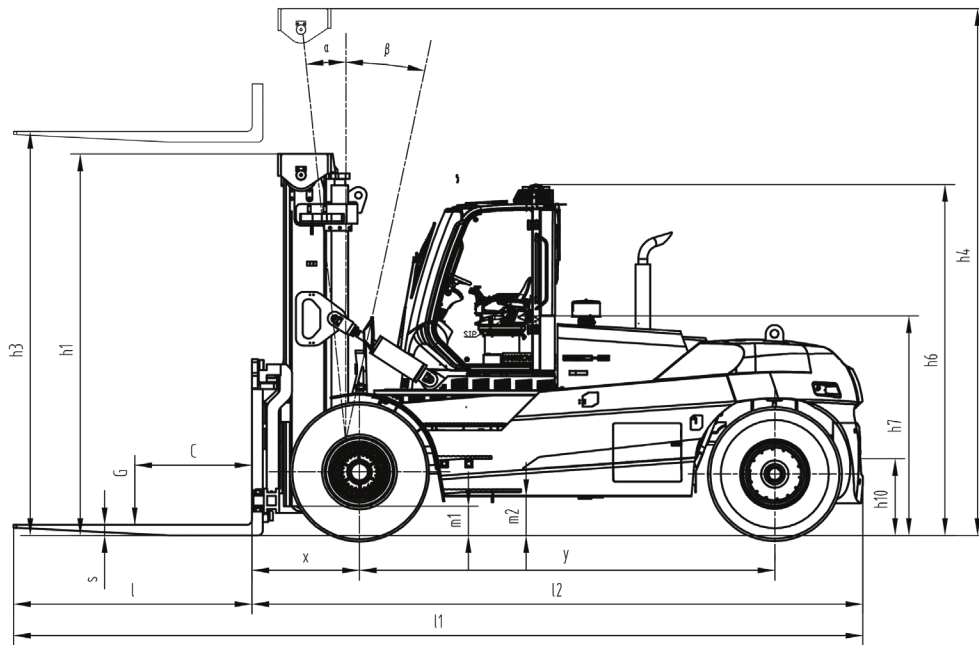
† NOTE: Performance specifications are based on trucks with standard equipment. Performance specifications are affected by the condition of the vehicle, its components, and the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your Taylor sales representative.

Lift Truck Dimensions:

General	Model	Manufacturer's Designation		GTR25-12		
	Capacity		Rated Capacity	lb (kg)	55,110 25,000	
	Load Center	C	Face of Forks to Center of Load	in (mm)	48.0 1,200	
		X	Center of Drive Axle to Face of Forks	in (mm)	43.3 1,100	
	Wheelbase	Y	Distance	in (mm)	167.3 4,249	
	Power Type		Diesel or LPG		Diesel	
Dimensions	Upright Lift	H1	Height, Mast Lowered	in (mm)	153.5 3,899	
		H2	Free Lift	in (mm)	4.3 109	
		H3	Lift	in (mm)	157.5 4,001	
		H4	Height, Mast Extended	in (mm)	234.3 5,951	
		H6	Height of Overhead Cabin	in (mm)	140.9 3,579	
		H7	Seat Height Relating to SIP	in (mm)	88.6 2,250	
		H10	Coupling Height	in (mm)	28.3 719	
		Tilt Angle	A/B	Standard Upright - FWD/Backward	Degrees	6° / 10°
		Length	L1	Overall Length	in (mm)	342.1 8,689
			L2	Length to Face of Forks	in (mm)	246.1 6,251
		Width	B1	Overall Width	in (mm)	120.1 3,051
			B2	Width Over Counterweight	in (mm)	108.3 2,751
			B3	Fork-Carriage Width	in (mm)	118.1 3,000
			B5	Out-to-Out Distance Between Forks (Retracted)	in (mm)	35.4 899
			B5	Out-to-Out Distance Between Forks (Expanded)	in (mm)	102.4 2,601
	Forks		Thickness	in (mm)	4.3 109	
			Width	in (mm)	9.8 249	
			Length	in (mm)	94.5 2,400	
	Turning Radius	Wa	Minimum Outside	in (mm)	228.3 5,799	
		B13	Minimum Inside	in (mm)	81.9 2,080	
	Aisle Width		Aisle Width with Load Length of 70.8" (1800 mm)	in (mm)	375.6 9,540	
				Aisle Width with Load Length of 94.4" (2400 mm)	in (mm)	375.6 9,540
Weight	Total Apprx.		Standard Truck	lb (kg)	78,264 35,500	
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	
	Tread	B10	Center of Duals (Front)	in (mm)	86.6 2,200	
		B11	Center of Tires (Rear)	in (mm)	90.4 2,295	
	Ground Clearance	M1	Laden, Below Mast	in (mm)	11.8 300	
		M2	Center of Wheelbase (No Load)	in (mm)	15.7 399	
	Brakes			System Type		Wet Disc
			Control Method (Service / Parking)		Foot / Hand	
			Operation Method (Service / Parking)		Hyd / Spring	
Miscellaneous			Operating Pressure for Attachments	bar	230	
			Oil Volume for Attachments	gal/min (L/min)	79 300	
			Hydraulic Tank - Capacity (Drain & Refill)	gal (L)	111 420	
			Fuel Tank Capacity	gal (L)	111 420	
			Sound Pressure Level at the Driver's Cabin	dB (A)	76	

GTR25-12 Mast Specifications

TYPE	Max Fork Height		Overall Height				Tilt	Load Capacity	
			Lowered		Raised		F/R	48" LC	
	in	mm	in	mm	in	mm	deg	lb	kg
Limited Free Lift 2-Stage Mast	130	3,300	139.9	3,550	200	5,080	6/10	55,000	25,000
	141.8	3,600	145.8	3,700	214.7	5,450	6/10	55,000	25,000
	157.6	4,000	153.7	3,900	234.4	5,950	6/10	55,000	25,000
	169.4	4,300	159.6	4,050	249.2	6,330	6/10	55,000	25,000
	177.3	4,500	163.5	4,150	259.1	6,580	6/10	55,000	25,000
	189.1	4,800	169.4	4,300	273.8	6,950	6/10	55,000	25,000
	197	5,000	175.3	4,450	284.7	7,230	6/10	55,000	25,000
	216.7	5,500	185.2	4,700	309.3	7,850	3/6	51,808	23,500
	236.4	6,000	197	5,000	334.9	8,500	3/6	48,501	22,000
	256.1	6,500	206.9	5,250	359.5	9,130	3/6	44,092	20,000
	275.8	7,000	218.7	5,550	385.1	9,780	3/6	39,683	18,000



Standard Features: GTR25-12

- Limited Free Lift 2 Stage Mast
- Hydraulic Adjustment
- Standard Fork
- Full Cabin
- Air Conditioner & Heater
- Fully Hydraulic Power Steering
- Four-Function Valve
- Operator Presence Sensing System (OPS)
- Multi-Directional Adjustable Armrest
- Adjustable Steering Wheel
- Lifting Hydraulic System Speed Limit Valve
- Tow Device
- Main Power Disconnect Switch
- Reverse Camera
- LCD Instrument Display
- Neutral Indicator
- Parking Braking Indicator
- Charge Indicator
- Pre-heating Indicator
- Engine Oil Pressure Alarm
- Air Filter Alarm
- Low Pressure Alarm for the Accumulator
- Hydraulic Oil Filter Alarm
- Oil-Water Separator Alarm
- Engine Failure Alarm
- LED Lights
- Coolant Temperature Gauge
- Oil Gauge
- Oil Temperature Gauge
- Engine Hour Meter
- Pneumatic Tires
- Reverse Alarm
- Manual Cabin Tilting
- Toolkit

Options:

- Customized Color
- Various Fork Sizes
- Various Mast Specifications
- Solid Pneumatic Tires
- On-Board Intercom
- Reverse Alarm
- Strobe Light
- Front & Rear-view Camera (with optional memory)
- Ground Strap
- Fire Extinguisher (4.4lb/8.7lb)
- Mast Mounted LED Working Light
- Speed limiter
- Blue Light
- Scale
- Air Pre-Cleaner
- Operator Fan
- Power Cabin Tilting
- Five Function Hydraulic Valve



Safety

- Equipped with mechanical and electrical protection devices, lifting interruption control, OPS system, travel speed limiting and other functions ensure safe operations.
- Bright LED operator display
- A visual reversing radar is provided for the standard configuration and other options such as an automatic fire extinguishing system, tire pressure monitoring, overload protection, etc. can be provided.

Comfortable

- The instruments with high-definition color screens display the truck status in real time and the fault alarm enable easier maintenance.
- The new generation electronically-controlled transmission enables flexible, smooth and comfortable gear shifting.



Fully-Suspended Cab

- The fully-suspended, tilting cab can be repaired and maintained easily
- 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, full suspension adjustable seat with a high backrest, safety belt, and OPS (Operator Presence System.)
- Heat, defrost, and air-conditioning with dual ventilation modes, sun shades, and adjustable wipers enhance operator comfort.



Efficient

- Single joystick control.
- Higher lifting speed and faster dynamic response enable the operation efficiency to be effectively improved.
- Easy maintenance with a wide-opened hood, large-space electric control box, large cab space, multiple hydraulic inspection points, easy access to the oil and water during inspection, and built-in diagnostic and query functions.

Reliable & Easy To Maintain

- **Reliable Design:** Increased electronic controls and digital interface, CAN-bus communications with built-in diagnostics, management functions and fault alarms allow easy troubleshooting. These features give operators and technicians confidence the forklift will provide dependable, long lasting service.
- **Easy To Maintain:** The GTR25-12 features a full cab that can be tilted without additional tools. The forklift also features a tilting hood and several compartments, including a battery/electronics compartment, that provide easy access to important components. This allows for major components to be easily serviced.



NEED OPTIONS?

Just ask one of our Taylor Specialist.



GTR25-12

Heavy Duty Pneumatic Tire Fork Lift

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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