INDUSTRIAL LIFT TRUCK SPECIFICATION SHEET

GTR16-12

Heavy Duty Pneumatic Tire Forklift

16,000-kg (35,270-lbs) Rated Capacity
1200-mm (48-in) Load Center
3760-mm (148-in) Wheelbase

TAYLOR®

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

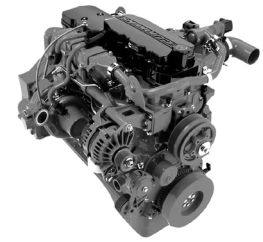
High Performance

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 GTR16-12 has increased the travel and lift speed by 10-20% depending on the model, increasing effeciency and productivity.
- **Load Sensing Hydraulics:** The GTR16-12 uses load sensing hydraulics to provide improved efficiency leading to reduced hydraulic oil working temperatures, and extended life of hydraulic components.
- **Increased Strength:** The GTR16-12 has a more efficient structural design, which achieves an overall lighter weight while improving strength and durability.

GTR16-12 Heavy Duty Pneumatic Tire Forklift

Heavy Duty Drivetrain



Heavy Duty Engine:

- **CUMMINS B6.7:** The Cummins engine is available in both Stage V and Tier 3compliant versions. The Stage V engine uses common rail fuel systems, selective catalytic reduction (SCR), diesel oxidation catalysts (DOC), and diesel particulate filters (DPF) to achieve compliance.

Heavy Duty Transmissions:

- **ZF Transmission:** The GTR16-12 uses a ZF transmission.This transmission with electronic control, provides stable, accurate, and reliable travel with its three-speed power shifting configuration.

Heavy Duty Drive Axles:

- **KESSLER Drive Axle:** The GTR16-12 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			Cummins B6.7†				Cummins QSB6.7††			
	Tier Compliance			Stage V				Tier 3			
	Fuel - Engine Type			Diesel				Diesel			
	Output	hp (Kw)		200	149			190	142		
	Gov'n Speed w/Load	RPM		2200				2300			
	Cyl/Displacement	cyl/cu-in (L)	6	408	6.7		6	408	6.7		
	Peak Torque*	ft-lbs/RPM (Nm/RPM)	730	1300	990	1300	686	1500	930	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 Filte, 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 ertification: 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 3WG171	ZF 3WG171
	Number of Speeds	Fwd/Rev	3/3	3/3

The 3-speed automatic powershift transmission is modulated, fully reversing and features inching capability. Temperature control is achieved through a seperate 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			Welded Beam Type	Welded Beam Type

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

Performance: †

Travel Speed	Maximum Forward (loaded/unloaded)	mph (km/h)	16/17	27/28
Lift Speed	No Load	fpm (m/s)	66	0.35
	With Load	fpm (m/s)	78	0.40
Lowering Speed	No Load	fpm (m/s)	66	0.35
	With Load	fpm (m/s)	72	0.38
Gradeability	No Load*	%	25	
Drawbar Pull	Maximum @ Stall*	lb (kN)	37,093	165
Stability	Comply with ISO 1074		Yes	

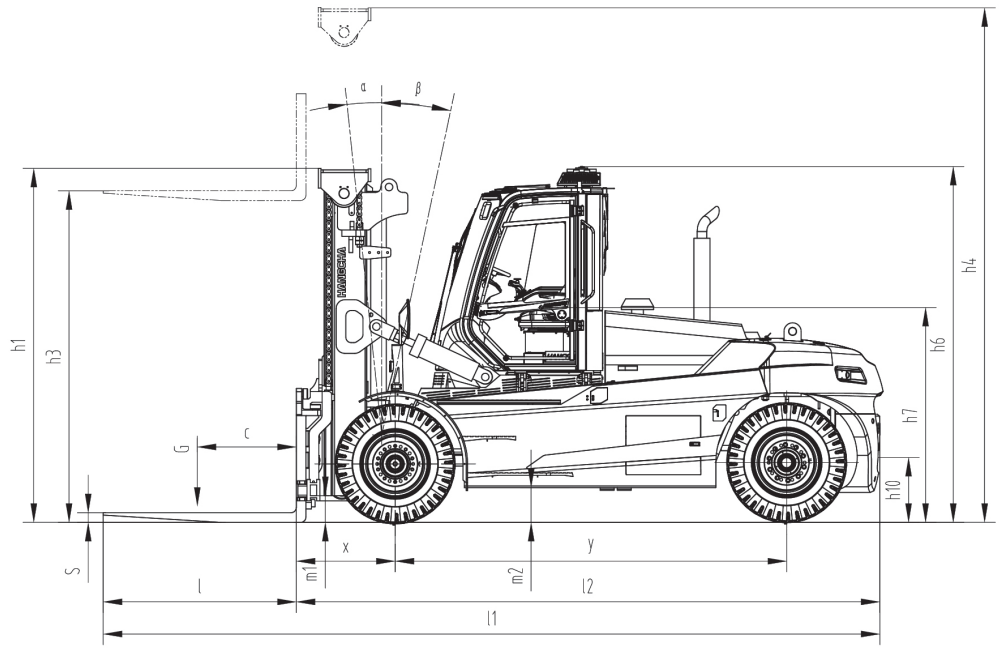
† NOTE: Performance specifications are based on trucks with standard equipment. Performance specifications are affected by the condition of the vehicle, its components, and the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed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

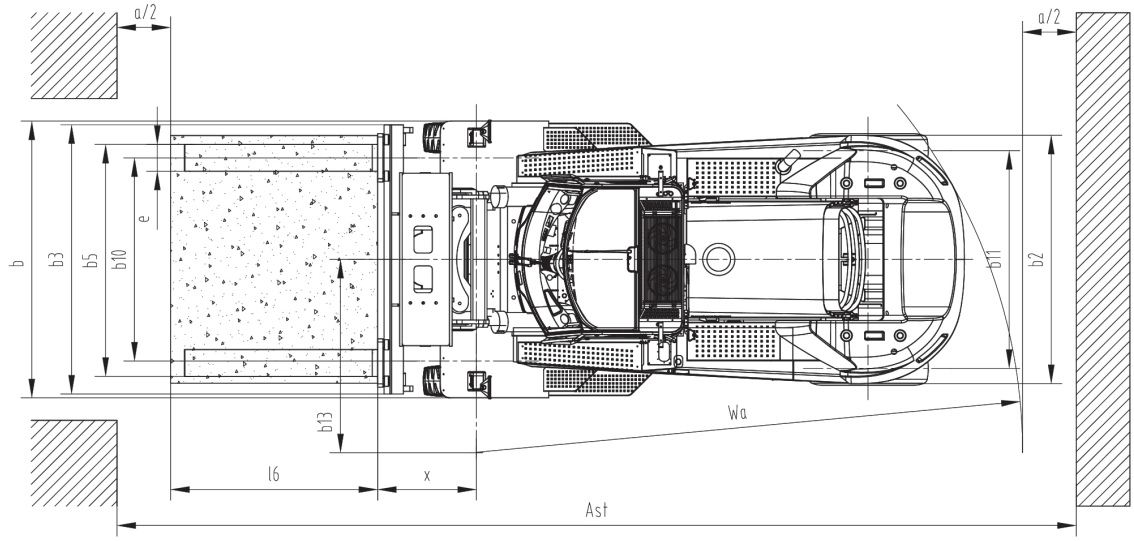
Lift Truck Dimensions:

General	Model		Manufacturer's Designation		**GTR16-12**	
	Capacity		Rated Capacity	lb (kg)	35,270	16,000
	Load Center	C	Face of Forks to Center of Load	in (mm)	48	1,200
		X	Center of Drive Axle to Face of Forks	in (mm)	37	975
	Wheelbase	Y	Distance	in (mm)	147	3,750
	Power Type		Diesel or LPG		Diesel	
Dimensions	Upright Lift	H1	Height, Mast Lowered	in (mm)	133.9	3,400
		H2	Free Lift	in (mm)	4.3	110
		H3	Lift	in (mm)	118	3,000
		H4	Height, Mast Extended	in (mm)	193	4,900
		H6	Height of Overhead Cabin	in (mm)	132	3,360
		H7	Seat Height Relating to SIP	in (mm)	82	2,070
		H10	Coupling Height	in (mm)	24	600
	Tilt Angle	A/B	Standard Upright - FWD/Backward	Degrees	14° / 12°	
	Length	L1	Overall Length	in (mm)	318	8,070
		L2	Length to Face of Forks	in (mm)	222	5,630
	Width	B1	Overall Width	in (mm)	106	2,700
		B2	Width Over Counterweight	in (mm)	106	2,700
		B3	Fork-Carriage Width	in (mm)	99	2,510
		B5	Out-to-Out Distance Between Forks (Expanded)	in (mm)	95	2,400
		B5	Out-to-Out Distance Between Forks (Retracted)	in (mm)	32	820
	Forks		Thickness	in (mm)	4.3	110
			Width	in (mm)	10	250
			Length	in (mm)	96	2,440
	Turning Radius	Wa	Minimum Outside	in (mm)	201	5,100
		B13	Minimum Inside	in (mm)	71	1,800
	Aisle Width		Aisle Width with Load Length of 70.8" (1800 mm)	in (mm)	347	8,815
			Aisle Width with Load Length of 94.4" (2400 mm)	in (mm)	347	8,815
Weight	Total Apprx.		Standard Truck	lb (kg)	54,013	24,500
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)		12.00 X 24-20PR	
			Size (Rear)		12.00 X 24-20PR	
	Tread	B10	Center of Duals (Front)	in (mm)	79	2,014
		B11	Center of Tires (Rear)	in (mm)	87	2,200
	Ground Clearance	M1	Laden, Below Mast	in (mm)	10	250
		M2	Center of Wheelbase (No Load)	in (mm)	15	370
	Brakes		System Type		Wet Disc	
			Control Method (Service / Parking)		Foot / Hand	
			Operation Method (Service / Parking)		Hyd / Spring	
Miscellaneous			Operating Pressure for Attachments	bar	250	
			Oil Flow for Attachments	gal/min (L/min)	70	265
			Hydraulic Tank - Capacity (Drain & Refill)	gal (L)	111	420
			Fuel Tank Capacity (T3/T4)	gal (L)	84/95	320/360
			Sound Pressure Level at the Driver's Cabin	dB (A)	78	

GTR16-12 Mast Specifications

TYPE	Max Fork Height		Overall Height				Tilt	Load Capacity	
			Lowered		Raised		F/R	48” LC	
	in	mm	in	mm	in	mm		lb	kg
Limited Free Lift 2-Stage Mast	118.2	3,000	133.9	3,400	193.1	4,900	6/12	36,000	16,000
	130	3,300	139.9	3,550	204.9	5,200	6/12	36,000	16,000
	141.8	3,600	145.8	3,700	216.7	5,500	6/12	36,000	16,000
	157.6	4,000	153.7	3,900	232.5	5,900	6/12	36,000	16,000
	169.4	4,300	161.5	4,100	246.3	6,250	6/12	36,000	16,000
	177.3	4,500	165.5	4,200	254.1	6,450	6/12	36,000	16,000
	189.1	4,800	171.4	4,350	365.9	9,290	6/6	36,000	16,000
	197	5,000	175.3	4,450	273.8	6,950	6/6	36,000	16,000
	216.7	5,500	187.2	4,750	295.5	7,500	3/6	31,967	14,500
	236.4	6,000	197	5,000	315.2	8,000	3/6	28,660	13,000
	256.1	6,500	208.8	5,300	336.9	8,550	3/6	25,353	11,500





Standard Features: GTR16-12

- 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 Tempurature Gauge
- Oil Gauge
- Oil Temperature Gauge
- Engine Hour Meter
- Pneumatic Tires
- Reverse Alarm
- Manual Cabin Tilting
- Toolkit

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.

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.

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 GTR16-12 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.

GTR16-12

Heavy Duty Pneumatic TireFork 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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