



GP-EC

PNEUMATIC TIRE TRUCKS

30,000 · 33,000 · 36,000 lbs

Yale® GP-EC Series

The Yale® GP300-360EC pneumatic tire series of lift trucks provides low fuel consumption while delivering a capable truck that exceeds our customers' expectations.

The series features excellent travel and lift speeds for optimal productivity while providing outstanding maneuverability to meet the demands of tough applications such as lumber, pipe, pre-stressed concrete, stevedoring and heavy cargo industries. The trucks are designed for versatility with multiple attachments including tire handlers, paper roll clamps and concrete among others.

Also available with the Tier 4 final offering are two compact, high capacity lift trucks: the GP300ECS truck with 30,000 lbs. and the GP330ECS truck with 33,000 lbs. of lifting capacity, both featuring a short 114" wheelbase at a 24" load center.*

ERGO^{CAB}

The Yale® ERGO^{CAB} is ergonomically designed for maximum operator productivity.

Cab features:

- full-length handrails
- three step entry
- open floor with low front dash
- all gauges, switches, key start and park brake to right of driver
- two way adjustable steering column for height and tilt angle
- inch brake/brake/accelerator pedal arrangement
- custom molded floor mat
- angled overhead guard bars
- 3-way adjustable right hand armrest
- wide angle side view mirrors
- blinking red warning lights on steer column
- dash instrument panel with gauges, warning lights and LCD message center
- paddle lever actuators for hydraulic functions and combination paddle/rocker switches for optional attachments
- a full suspension vinyl seat
- horn
- curved tempered front and rear glass
- optional air conditioning
- under cab sound insulation
- cab filter for all incoming air
- ten high capacity outlet vents for heating
- twin arm single 39" blade front wiper, rear wiper and top windshield wiper with washer fluid spray
- front and rear screen demisting
- top cover laminated glass

Additional enclosed cab options for maximum operator comfort include:

- trainer seat
- reading lights
- storage bin with rear locking console
- radio prep kit
- accessory mounting post

Cab Tilt

The entire cab tilts for complete service access to major powertrain components.

Cummins QSB 6.7L

Cummins QSB 6.7L 6-cylinder Tier 4 Final industrial turbo diesel with intercooler advanced electronics and a high-pressure common-rail fuel injection system features higher efficiency engine operation and higher productivity using cooled exhaust gas recirculation (EGR) for low-emission production. Tier 4 Final after-treatment package consists of a selective catalytic reduction (SCR) system requiring the use of diesel exhaust fluid, DEF (urea) injected via a dosing module, and a diesel oxidation catalyst (DOC) for particulate matter (PM) removal. The engine is also complemented by a variable geometry, water-cooled turbocharger which continuously varies the airflow boost to precisely match engine rpm and load demands for optimal performance. The Tier 4 Final powertrain requires the use of ultra low sulfur diesel (ULSD) fuel and low-ash engine oil.

Exhaust

The GP300-360EC series features low mount exhaust, standard for Tier 4 Final. High mount exhaust is available as an option. For all Tier 3 engine trucks, high mount exhaust is standard. An innovative diffuser for exhaust temperature mitigation is available for both the high mount and low mount exhaust configurations.

Air Cleaner

A Sy-Klone™ pre-cleaner with a high air intake for extremely dusty environments has an oversized two-stage air filter and internal back-up filter including an air cleaner that has an electronic air filter restriction indicator.

Cooling system

The quad-cooler radiator contains four separate cooling cores for the engine, transmission, hydraulics and charge air cooler. The radiator features high performance, triangular waved, louvered fins at ten per square inch for reduced plugging from airborne containments. Radiator is easily

Diesel Tier 4 Final Engine Specifications

Engine	Cummins QSB 6.7L
Cylinders	6
Displacement	409 cu.in./6.7 liter
Torque	540 lb.-ft @ 1500 RPM
Horsepower	168 hp @ 2300 RPM

accessible by lifting gas spring actuated louvered door on top of counterweight.

Drive Axle

The heavy duty planetary drive axle with secure pinion retention is made of ductile iron and is bolted to the frame. The drive shafts are fully floating allowing the truck and load weight to be carried by the axle housings. Heavy duty oil-cooled wet disc brakes are standard.

Transmission

The ZF WG-161 three-speed automatic transmission features a fully reversing powershift that produces smooth shifting, precise inching and fast acceleration. The key characteristics of the ZF transmission include 3 forward and 3 reverse gears, an automatic gear shift control and powershiftable, proportional valves. Inching capability is electronically controlled while a cushioned lock-up provides smooth shifting and dampens drive line shock loads. A simple push button calibration is provided.

(continued on back)

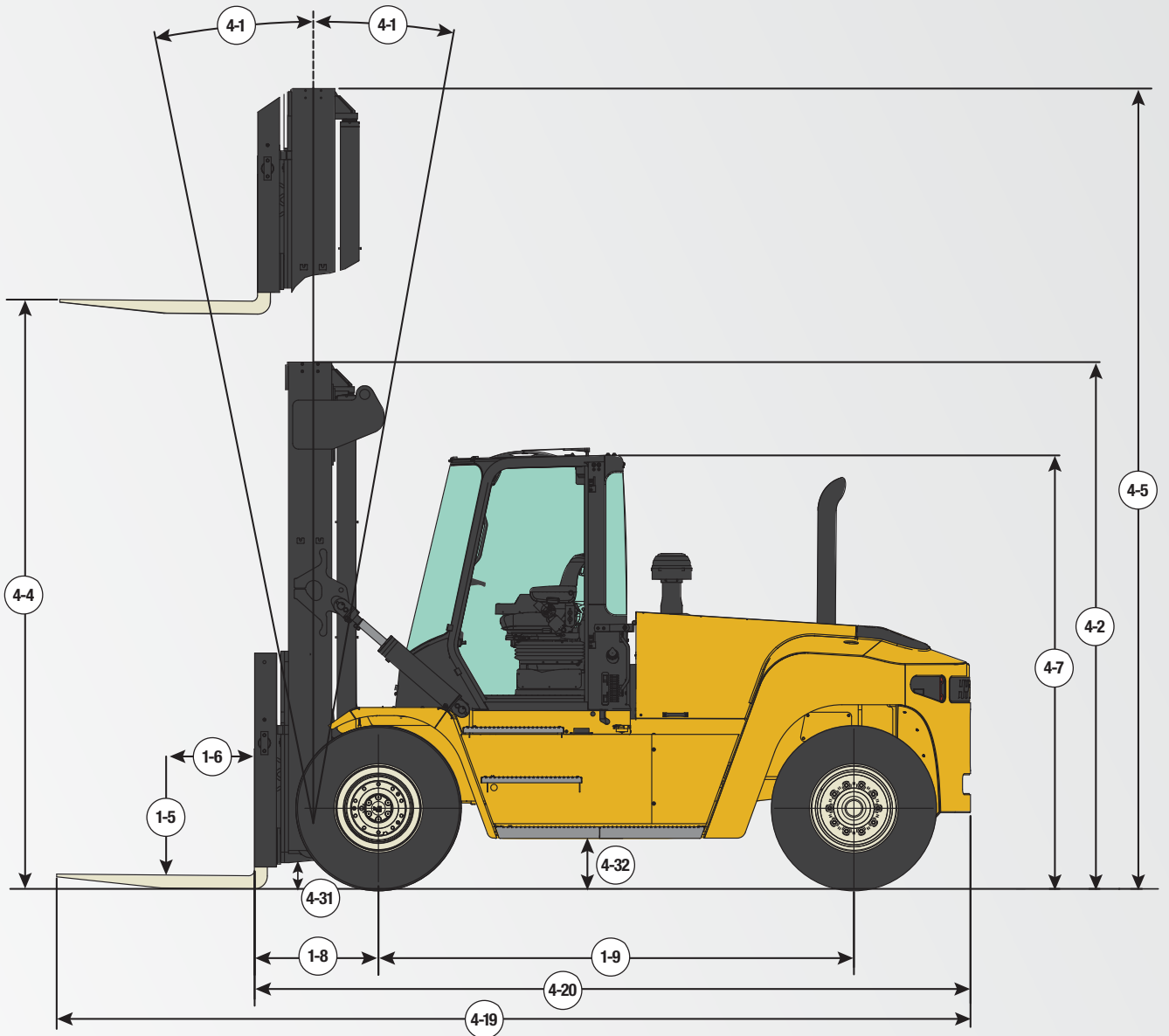
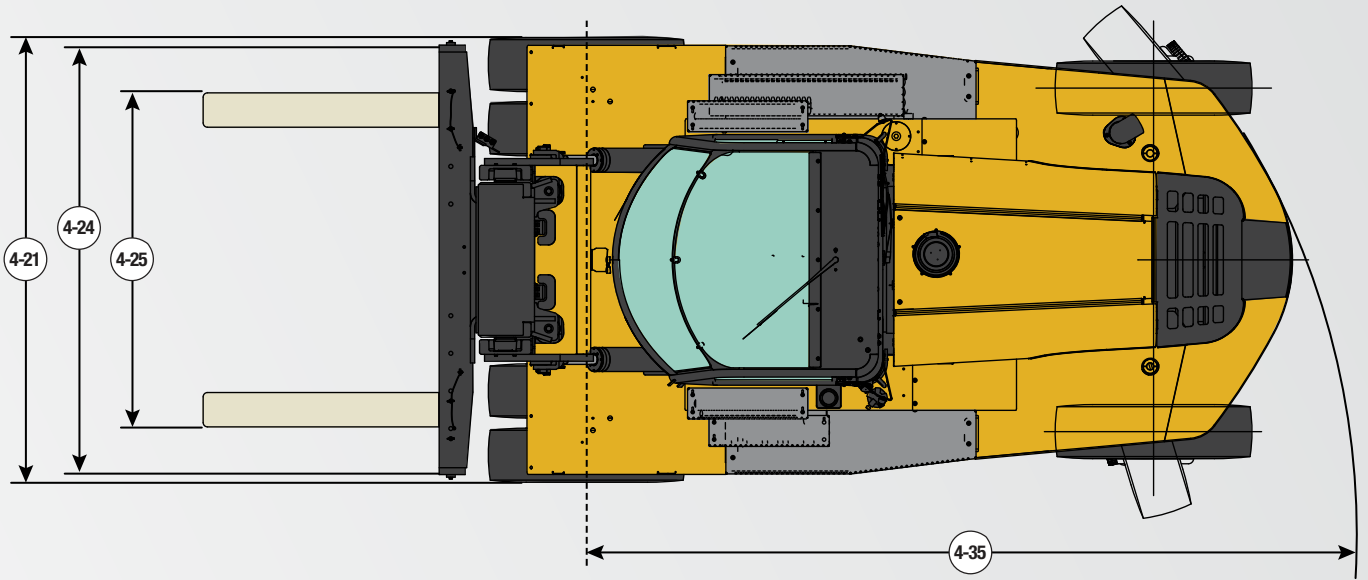
* The Yale GP300ECS and GP330ECS models are available via SPED featuring a standard Cummins 4.5L QSB engine only.



POWERTRAINS		UNITS	TIER 4 FINAL	TIER 3*
1-3	Power type		Diesel	Diesel
7-1	Engine Manufacturer / model		Cummins QSB 6.7L	Cummins QSB 6.7L
7-1a	EPA Tier Compliance		Tier 4 Final	Tier 3
7-2a	Engine power output - Rated	hp (kW)	164 (122)	155 (116)
7-2b	Engine power output - Peak	hp (kW)	168 (125)	155 (116)
7-3	Governed speed	rpm	2,300	2,300
7-4	Number of cylinders / displacement	# / l	6 / 6.7L	6 / 6.7L
7-5	Engine torque - Max	lb-ft (N-m)	540 (732)	443 (600)
7-5a	Turbocharger	Type	Variable Geometry, Water cooled	Wastegate
7-9	Alternator output	Amps	120	120
8-0	Transmission Manufacturer / model		ZF WG161	ZF WG161
8-1	Transmission type & speeds		Powershift 3F x 3R	Powershift 3F x 3R
8.1a	Drive Axle Manufacturer / model		AxleTech PRC 785	AxleTech PRC 785
5-10	Service brake		Oil immersed (wet) disc	Oil immersed (wet) disc
5-11	Park brake		Spring apply, dry disc	Spring apply, dry disc

* Optional engine - Tier 3 (limited availability in Canada and LAM markets only)

GP300-360EC MAST DIMENSIONS							
4.4 Lift height (Top of Fork)		4.2 Mast Lowered Height		4.3 Freelift (Top of Fork)		4.5 Overall Extended Height	
in	mm	in	mm	in	mm	in	mm
2-STAGE NO FREE-LIFT (NO FL) Hi-Vis™							
147	3750	144	3641	0	0	216	5470
183	4650	162	4091	0	0	251	6370
212	5400	176	4466	0	0	281	7120
244	6205	192	4853	0	0	312	7920
264	6705	202	5116	0	0	332	8420
3-STAGE Hi-Vis™							
173	4400	121	3070	54	1390	240	6080
196	5000	129	3270	62	1590	263	6680
236	6000	142	3600	75	1920	303	7680
275	7000	156	3940	88	2250	342	8680



	Description		Units		English	Metric	English	Metric	English	Metric		
GENERAL	1-1	Manufacturer			YALE	YALE	YALE	YALE	YALE	YALE		
	1-2	Model designation			GP-300EC		GP-330EC		GP-360EC			
	1-5	Rated load capacity		lbs	kg	30,000	13,608	33,000	14,969	36,000	16,329	
	1-6	Load center		in	mm	24.0	610	24.0	610	24.0	610	
	1-8	Load distance		in	mm	33.9	862	33.9	862	33.9	862	
	1-9	Wheelbase		in	mm	130	3,300	130	3,300	130	3,300	
	2-1	Total truck weight without load		lbs	kg	38,921	17,654	40,320	18,289	42,647	19,344	
	2-2a	Axle loading with load	front	lbs	kg	64,264	29,150	68,560	31,098	72,837	33,038	
	2-2b		rear	lbs	kg	4,656	2,112	4,760	2,159	5,810	2,635	
WEIGHTS	2-3a	Axle loading without load	front	lbs	kg	20,806	9,437	20,773	9,422	20,722	9,399	
	2-3b		rear	lbs	kg	18,115	8,217	19,547	8,866	21,925	9,945	
	3-1	Tire type				Pneumatic		Pneumatic		Pneumatic		
	3-2	Tire size	front			12.00x20 16PR Bias		12.00x20 16PR Bias		12.00x20 16PR Bias		
	3-3		rear			12.00x20 16PR Bias		12.00x20 16PR Bias		12.00x20 16PR Bias		
	4-1	Mast tilt, forward / back		degree		15 F / 12 B		15 F / 12 B		15 F / 12 B		
	4-2	Height of mast lowered		in	mm	144	3,641	144	3,641	144	3,641	
	4-3	Freelift (Top of Fork)		in	mm	0	0	0	0	0	0	
	4-4	Lift height (Top of Fork)		in	mm	147	3,750	147	3,750	147	3,750	
DIMENSIONS	4-5	Height of mast extended		in	mm	216	5,470	216	5,470	216	5,470	
	4-7	Height to top of operator compartment		in	mm	120	3,048	120	3,048	120	3,048	
	4-19	Overall length		in	mm	268	6,796	268	6,796	268	6,796	
	4-20	Length to load face		in	mm	196	4,971	196	4,971	196	4,971	
	4-21	Overall width over drive tires		in	mm	102	2,592	102	2,592	102	2,592	
	4-22a	Fork	thickness	in	mm	3.5	90	3.5	90	3.5	90	
	4-22b		width	in	mm	7.9	200	7.9	200	7.9	200	
	4-22c		length	in	mm	72	1,825	72	1,825	72	1,825	
	4-24	Carriage width		in	mm	98	2,500	98	2,500	98	2,500	
	4-25a	Fork spread, min (in-in)		in	mm	3.0	75	3.0	75	3.0	75	
	4-25b	Fork spread, max (out-out)		in	mm	95.3	2,420	95.3	2,420	95.3	2,420	
	4-31	Ground clearance, under mast with load		in	mm	7	178	7	178	7	178	
	4-32	Ground clearance, center of wheelbase		in	mm	13	330	13	330	13	330	
	4-33	Minimum aisle width (add load length + clearance)		in	mm	214	5,446	214	5,446	214	5,446	
	4-35	Outside turning radius		in	mm	180	4,584	180	4,584	180	4,584	
	MISC	8-7	Hydraulic tank capacity		gal	l	37	140	37	140	37	140
		8-8	Fuel tank capacity		gal	l	42	159	42	159	42	159
		10-4	DEF tank capacity		gal	l	5.0	19.0	5.0	19.0	5.0	19.0
		PERFORMANCE					WITH TIER 4 FINAL CUMMINS QSB 6.7L ENGINE					
	5-1a	Travel speed	with load	mph	km/h	17	27	17	27	17	27	
	5-1b		without load	mph	km/h	18	28	18	28	18	28	
5-2a	Lifting speed	with load	ft/min	m/s	71	0.36	71	0.36	71	0.36		
5-2b		without load	ft/min	m/s	81	0.41	81	0.41	81	0.41		
5-2a	Lifting speed	with load	ft/min	m/s	71	0.36	71	0.36	71	0.36		
5-2b		without load	ft/min	m/s	81	0.41	81	0.41	81	0.41		
5-3a	Lowering speed	with load	ft/min	m/s	98	0.50	98	0.50	98	0.50		
5-3b		without load	ft/min	m/s	94	0.48	94	0.48	94	0.48		
5-6	Drawbar pull – Max		lbs	kN	27,800	124	27,700	123	27,600	123		
5-7	Gradeability – no load / rated load – 1 mph (1.6 km/h)		%		38 / 39	38 / 39	36 / 37	36 / 37	34 / 33	34 / 33		
PERFORMANCE					WITH TIER 3 CUMMINS QSB 6.7L ENGINE							
5-1a	Travel speed	with load	mph	km/h	19	30	19	30	19	30		
5-1b		without load	mph	km/h	20	32	20	32	20	32		
5-1a	Lifting speed	with load	ft/min	m/s	67	0.34	67	0.34	67	0.34		
5-2b		without load	ft/min	m/s	81	0.41	81	0.41	81	0.41		
5-2a	Lifting speed	with load	ft/min	m/s	67	0.34	67	0.34	67	0.34		
5-2b		without load	ft/min	m/s	81	0.41	81	0.41	81	0.41		
5-3a	Lowering speed	with load	ft/min	m/s	98	0.50	98	0.50	98	0.50		
5-3b		without load	ft/min	m/s	95	0.48	95	0.48	95	0.48		
5-6	Drawbar pull - Max		lbs	kN	25,500	113	25,500	113	25,400	113		
5-7	Gradeability - no load / rated load - 1 mph (1.6 km/h)		%		38 / 35	38 / 35	36 / 33	36 / 33	34 / 30	34 / 30		

	Description		Units		English	Metric	English	Metric	
GENERAL	1-1	Manufacturer			YALE	YALE	YALE	YALE	
	1-2	Model designation			GP-300ECS*		GP-330ECS*		
	1-5	Rated load capacity		lbs kg	30,000	13,608	33,000	14,969	
	1-6	Load center		in mm	24.0	610	24.0	610	
	1-8	Load distance		in mm	33.9	862	33.9	862	
	1-9	Wheelbase		in mm	114	2,900	114	2,900	
	2-1	Total truck weight without load		lbs kg	39,211	17,786	40,750	18,484	
	2-2a	Axle loading with load	front	lbs kg	64,549	29,279	68,954	31,277	
	2-2b		rear	lbs kg	4,709	2,136	4,795	2,175	
WEIGHTS	2-3a	Axle loading without load	front	lbs kg	19,235	8,725	19,207	8,712	
	2-3b		rear	lbs kg	19,976	9,061	21,541	9,771	
	3-1	Tire type			Pneumatic		Pneumatic		
	3-2	Tire size	front		12.00x20 16PR Bias		12.00x20 16PR Bias		
	3-3		rear		12.00x20 16PR Bias		12.00x20 16PR Bias		
	4-1	Mast tilt, forward / back		degree	15 F / 12 B		15 F / 12 B		
	4-2	Height of mast lowered		in mm	144	3,641	144	3,641	
	4-3	Freelift (Top of Fork)		in mm	0	0	0	0	
	4-4	Lift height (Top of Fork)		in mm	147	3,750	147	3,750	
DIMENSIONS	4-5	Height of mast extended		in mm	216	5,470	216	5,470	
	4-7	Height to top of operator compartment		in mm	121	3,064	121	3,064	
	4-19	Overall length		in mm	252	6,396	252	6,396	
	4-20	Length to load face		in mm	180	4,571	180	4,571	
	4-21	Overall width over drive tires		in mm	102	2,592	102	2,592	
	4-22a	Fork	thickness	in mm	3.5	90	3.5	90	
	4-22b		width	in mm	7.9	200	7.9	200	
	4-22c		length	in mm	72	1,825	72	1,825	
	4-24	Carriage width		in mm	98	2,500	98	2,500	
	4-25a	Fork spread, min (in-in)		in mm	3.0	75	3.0	75	
	4-25b	Fork spread, max (out-out)		in mm	95.3	2,420	95.3	2,420	
	4-31	Ground clearance, under mast with load		in mm	7	178	7	178	
	4-32	Ground clearance, center of wheelbase		in mm	14	346	14	346	
	4-33	Minimum aisle width (add load length + clearance)		in mm	199	5,049	199	5,049	
	4-35	Outside turning radius		in mm	165	4,187	165	4,187	
	MISC	8-7	Hydraulic tank capacity		gal l	33	125	33	125
		8-8	Fuel tank capacity		gal l	34	128	34	128
		10-4	DEF tank capacity		gal l	5.0	19.0	5.0	19.0
		PERFORMANCE					WITH TIER 4 FINAL CUMMINS QSB 4.5L ENGINE**		
	PERFORMANCE	5-1a	Travel speed	with load	mph km/h	16	26	16	26
		5-1b		without load	mph km/h	17	27	17	27
5-2a		Lifting speed	with load	ft/min m/s	64	0.32	64	0.32	
5-2b			without load	ft/min m/s	73	0.37	73	0.37	
5-2a		Lifting speed	with load	ft/min m/s	64	0.32	64	0.32	
5-2b			without load	ft/min m/s	73	0.37	73	0.37	
5-3a		Lowering speed	with load	ft/min m/s	94	0.48	94	0.48	
5-3b			without load	ft/min m/s	87	0.44	87	0.44	
5-6		Drawbar pull – Max		lbs kN	25,700	122	26,900	124	
5-7		Gradeability – no load / rated load – 1 mph (1.6 km/h)		%	33 / 27	33 / 27	33 / 33	33 / 33	

* SPED truck only

** The GP300-330ECS models are available with a Tier 4 Final QSB 4.5L engine only. Not available with Tier 3 QSB 6.7L engines.

(continued from cover page)

A standard steering column mounted lever provides the operator with manual shift capabilities, and a dash-mounted indicator light displays the transmission mode status. A neutral start switch is standard. An optional foot directional control provides direction change in lieu of a column shifter. A transmission lock-out feature prevents high speed directional changes. An engine and transmission protection system provides protection for excessive engine coolant temperature, low engine oil pressure, and excessive engine inlet air temperatures.

Hydraulic System

Variable displacement pump (VDP) technology is used for high efficiency and low fuel consumption. Standard hydraulic performance features dual tandem 60 CC variable displacement pumps (total of 120 CC) providing leading performance for high productivity. All hydraulic fittings include o-ring face seals. Small hydraulic lines and components allow for easy maintenance access. The main hydraulic valve integrates all hydraulic functions into one assembly. Electro-mechanical solenoids allow precise control of oil flow during hoist and tilt functions and provide excellent load control. Diagnostic error codes allow for easy troubleshooting by a trained service technician.

Hydrostatic Steering

The hydrostatic system requires no mechanical drag link steering connections and components. Steering is actuated with a steer pump that controls a two-way cylinder bolted to the steer axle. The steer axle frame is made of high strength ductile cast steel. The adjustment-free tie rods are made of T-1 steel. Tapered roller bearings are used with the heavy duty spindles. Load sensing steering provides optimum performance at all engine speeds by giving priority to steering thus enhancing operator comfort.

Chassis

A rugged unitized frame structure is designed for tough, demanding applications with a low step height for easy entry and exit. Side plates are 1/2" (20mm) thick. Mast is mounted to the frame, not the drive axle.

Masts

Yale Hi-Vis™ simplex and triplex masts give operators good visibility. Nested channel design incorporates full-face load rollers for durability. Rolled mast channels and formed cross-members provide high strength. Leaf-type chain provides superior strength. Newest to the GP300-360EC series is the addition of a 264" 2-stage mast, now available as a standard option.

Carriage

The standard carriage is a pin type, 98.5" wide carriage. Fork spacing is 3.0" inside to inside, 95.3" outside to outside with a 3.3" diameter fork pin. The carriage is equipped with angled load rollers.

Brakes

Wet disc brake axle with dry disc park brake is standard.

Electrical

The 24-volt system with single colored wiring is numbered for easy identification. A standard 12-volt accessory converter is installed for optional electrical devices.

Options

Tier 3 Cummins QSB 6.7L engine
(for select markets)
Masts - various lift heights ranging from 147" (3750mm) through 264" (6705mm) for 2-stage non free lift (NFL) masts and 173" (4400mm) through 275" (7000mm) for 3-stage full free lift (FFL) masts
Sideshifting carriages and fork positioners
Various fork options and lengths
Various mast tilt ranges
Multifunction joystick
Column-mounted direction control lever
Radial and pneumatic-shaped solid tires
Enclosed cab, with or without air conditioning
Various inside-cabin options
Multiple seat options
2-point and 3-point high visibility seat belts
Powered tilting operator compartment for service access
Visible alarm / amber strobe light
Audible backup alarm
Various LED, halogen, high intensity discharge (HID) xenon light kits
Lockable fuel cap
Lockable battery disconnect switch
High mount exhaust
High mount air intake
Hydraulic accumulator
Various traction speed limiters
Empty seat engine shutdown – adjustable from 3-15 minutes (preset to 15 minutes)
Lifting eyes
Steer wheel lug protection
Engine block heater



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Manufactured in our own ISO 9001 and 14001 Registered Facilities

2275-3F 12/2015 All trucks shown with optional equipment.

Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Consult your Yale® Industrial Truck Dealer if any of the information shown is critical to your application. Specifications are subject to change without notice.

This truck meets all applicable mandatory requirements of ANSI B56.1 Safety Standard for Powered Industrial Trucks at the time of manufacture. Classified by Underwriters' Laboratories, Inc., as to fire and electric shock hazard only for Type E industrial trucks.