



Diesel Forklift Trucks



- Load Sensing Hydraulics, with highly efficient 'variable displacement' pumps
- Nominal lifting capacities including side shift carriage -Full capacity up to 6200mm lift height
- Fast lifting speeds, with a practical average of up to 0.40m/sec
- Transmissions, with smooth auto-shift system, also featuring protective lock-out on forward-reverse shifting and engine and transmission protection systems as standard
- Excellent ergonomics.

Truck Dimensions h₄4.5 h₃4.4 h₁4.2 h₆4.7 ↑ C 1.6 → C 1.6 h₇4.8 S 4.22 h₁₀4.2 R ↑_{m₁ [4.31]} m₂ 4.32 X 1.8 -y 1.9 _ l₂ 4.20 -- I₁ 4.19 -x1.8 -► e 4.22 b₁₁ 3.7 b₂ 4.21 b₁₀ 3.6 b₅ 4.25 b₃ 4.24 b₁₂ 4.14 b₁₃4.36 -Wa 4.35 Ast 4.34.1/4.34.2

13-16T Mast - mast and capacity ratings (kg)													
Lift height TOF ⁽¹⁾ hɜ+s (mm)	Overall lowered height h ₁ (mm)	h ₁ (mm) with 15° forward tilt	h ₁ (mm) with 27° forward tilt	Overall extended height h4 (mm)	GDP130EF, GDP140EF, GDP160EF Rated capacity kg @ 600 mm load centre								
					Standard Pin Carriage (kg)			Sideshift Pin Carriage (kg)			DFSSFPO QD ⁽²⁾ Carriage (kg)*		
					130EF	140EF	160EF	130EF	140EF	160EF	130EF	140EF	160EF
2750	3068	2985	2802	4398	13500	14500	16500	13400	14500	16400	13100	14400	16100
3000	3193	3105	2913	4648	13500	14500	16500	13400	14500	16400	13100	14400	16100
3250	3318	3226	3024	4898	13500	14500	16500	13400	14500	16400	13100	14400	16100
3500	3443	3347	3136	5148	13500	14500	16500	13400	14500	16400	13100	14400	16100
3750	3568	3468	3247	5398	13500	14500	16500	13400	14500	16400	13100	14400	16100
4000	3693	3588	3358	5648	13500	14500	16500	13400	14500	16400	13100	14400	16100
4500	3943	3830	3581	6148	13500	14500	16500	13400	14500	16400	13100	14400	16100
4750	4068	3951	3693	6398	13500	14500	16500	13400	14500	16400	13100	14400	16100
5000	4193	4071	3804	6648	13500	14500	16500	13400	14500	16400	13100	14360	16080
5500	4443	4313	4027	7148	13320	14320	16320	13160	14320	16200	12880	13920	14280
6000	4693	4554	4249	7648	13100	14140	16120	12940	14140	15980	11540	11560	11740
6250	4818	4675	4361	7898	12980	14040	16000	12840	14040	15840	10540	10520	10640
6500	4943	4796	4472	8148	12880	13940	15880	12720	13940	15720	9600	9540	9600
7000	5193	5037	4695	8648	12600	13740	15600	12460	13740	15440	7940	7840	7800

Capacity calculated with 1830mm forks.

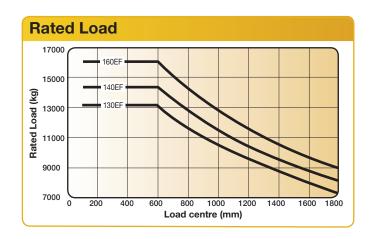
Capacity calculated with radial tires, bias tyres will give a higher derate for DFSSFP carriage above 5000mm Load Height.

(1) TOF = Top of forks

(2) DFSSFP QD = Dual Function Side Shifting Fork Positioner. Quick Detach.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Yale products might be subject to change without notice.
Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.





¥	1.1	Manufacturer (abbreviation)		Yale		Yale		Yale	
mark	1.2	Manufacturer's type designation		GDP 130EF		GDP 140EF		GDP 160EF	
_ _	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel		Diesel		Diesel	
	1.4	Operator type: hand, pedestrian, standing, seated, orderpicker		Seated		Seated		Seated	
2	1.5	Rated capacity / rated load	Q (kg)	13500		14500		16500	
5	1.6	Load centre distance	c (mm)	600		600		600	
Distinguishing	1.8	Load distance	x (mm)	889		889		889	
	1.9	Wheelbase	y (mm)	3300		3300		3300	
weignts	2.1	Service weight	kg	18414		19219		20019	
5	2.2	Axle loading, laden front / rear	kg	29554 / 2359		30988 / 2731		33871 / 2648	
Š	2.3	Axle loading, unladen front / rear	kg	9963 / 8451		9945 / 9274		9926 / 10093	
3.1 3.2 3.3 3.5 3.6 3.7		Tyres: P = Pneumatic, V = solid, SE = Pneumatic Shape Solid Tyres size front		P		P 12.00-20 20PR		P	
ä	3.2	Tyres size, front		12.00-20 20P				12.00-20 20P	
5	3.3	Tyres size, rear		12.00-20 20PR 4X / 2 0 (mm) 1842		12.00-20 20Pl	R 4X/	12.00-20 20PR 4X / 2 1842	
es/	3.5	Wheels, number front / rear (x = driven wheels)	b10 (mm)			1842			
<u> </u>	3.7	Track width, front Track width, rear	b11 (mm)	2000		2000		2000	
_	4.1	Mast tilt : forward / backwards	(°)	15 / 12		15 / 12		15 / 12	
4.2		Height of mast lowered (unloaded)	h1 (mm)	4193		4193		4193	
	4.4	Lift height (bottom of forks)		4910		4910		4910 6648	
	4.5	Height of mast extended (unloaded)	h3 (mm) h4 (mm)	` '		6648			
	4.7	Height of overhead guard (open cab)			3053		3053		
	4.7.1	Height of overhead guard (closed cab)	he (mm)	• ,		3089		3089 3122	
	4.7.2	Height of overhead guard (closed cab w/ airco)	he (mm)			3122			
	4.7.3	Height of overhead guard (closed cab w/ strobe light)	h6 (mm)	3221		3221		3221	
	4.7.4	Height of overhead guard (closed cab w/ work lights)	he (mm)	3280		3280		3280	
		Height of overhead guard (closed cab w/ airco & strobe light)	he (mm)	3295		3295		3295	
	4.8	Seat height (Seat Index Point, ISO 5353)	h7 (mm)	1818		1818		1818	
	4.12	Coupling height	h10 (mm)	717		717		717	
	4.17	Overhang	I5 (mm)	809		809		809	
s	4.19	Overall length	It (mm)	6828 4998		6828 4998		6828 4998	
Dimensions	4.20	Length to face of forks Overall width truck	l2 (mm) b2 (mm)	2541		2541		2541	
S	4.21			90 / 200 / 1830		90 / 200 / 1830	1	90 / 200 / 1830	
Ë	_	Carriage type	3/ 6/1 (11111)	85mm standard pin type		85mm standard pin type		85mm standard pin type	
Ξ	4.24	Carriage width	bз (mm)	2496	a p 1, po	2496		2496	
	4.25	Distance over fork arms, minimum / maximum	b5 (mm)	470 / 2420		470 / 2420		470 / 2420	
	4.31	Ground clearance, under mast with load	m1 (mm)	245		245		245	
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4.32	Ground clearance, centre of wheelbase	m2 (mm)	341		341		341	
	4.33	Load size	w x I (mm)	1200 / 1200		1200 / 1200		1200 / 1200	
	4.33.1	Aisle width (a=10%)	Ast (mm)	7340		7340		7340	
	4.33.2	Aisle width (a=0))	Ast (mm)	6673		6673		6673	
		Aisle width (a=200)	Ast (mm)	6873		6873		6873	
		Load size		1200 / 800		1200 / 800		1200 / 800	
		Aisle width (a=10%)	Ast (mm)	6900		6900		6900	
		Aisle width (a=0))	Ast (mm)	6273		6273 6473		6273 6473	
		Aisle width (a=200) Turning radius (outer)	Ast (mm Wa (mm)	6473 4584		4584		4584	
4.36		Internal turning radius	b13 (mm)	·		1890		1890	
	4.00	Engine manufacturer / type	Dio (min)		QSB 6.7 Stage IV	QSB 6.7 Stage IIIA	QSB 6.7 Stage IV	QSB 6.7 Stage IIIA	QSB 6.7 Stage
Репогталсе дата	5.1	Travel speed laden/unladen **	km/h	27.4 / 29.0	27.4 / 29.0	27.4 / 29.0	27.4 / 29.0	27.4 / 29.0	27.4 / 29.0
Ď	5.2	Lifting speed laden/unladen 111cc Stage III / 126cc Stage IV	m/s	0.36 / 0.40	0.41 / 0.46	0.36 / 0.40	0.41 / 0.46	0.36 / 0.40	0.41 / 0.46
ĕ	5.3	Lowering speed laden/unladen	m/s	0.50 / 0.48	0.50 / 0.48	0.50 / 0.48	0.50 / 0.48	0.50 / 0.48	0.50 / 0.48
B	5.5	Drawbar pull laden/unladen @ 1.6 km/hour	kN	99 / 102	109 / 111	99 / 102	108 / 111	98 / 101	108 / 111
<u> </u>	5.6	Drawbar pull laden/unladen @ stall	kN	111 / 114	121 / 123	111 / 114	121 / 123	111 / 114	120 / 123
e.	5.7	Gradeability laden/unladen @ 1.6 km/hour	%	33 / 37	37 / 37	31 / 35	35 / 35	29 / 38	32 / 34
_	5.8	Gradeability laden/unladen @ stall	%	38 / 37	42 / 37	36 / 35	39 / 35	32 / 38	36 / 34
Ð	7.1	Engine manufacturer / type	Cummins	-		QSB 6.7 Stage IIIA		QSB 6.7 Stage IIIA	
Compustion-engine	7.2	Engine output according to ISO 1585 nominal	kW@rpm	116 @ 2300	122 @ 2300	116 @ 2300	122@2300	116 @ 2300	122@2300
ė	7.2.1	Engine output according to ISO 1585 max	kW@rpm	116 @ 2300	125 @ 2100	116 @ 2300	125 @ 2100	116 @ 2300	125 @ 210
Ė	7.2.2	Maximum engine torque	Nm@rpm	597 @ 1500	732 @ 1500	597 @ 1500	732 @ 1500	597 @ 1500	732 @ 1500
SII	7.3	Rated speed	rpm / cm³	2300	2300	2300	2300	2300	2300
	7.4 7.5	Number of cylinders / displacement Fuel consumption in accordance to VDI	/ cm ³ l/h	6 / 6700 Call	6 / 6700 Call	6 / 6700 Call	6 / 6700 Call	6 / 6700 Call	6 / 6700 Call
Ē	7.5	Alternator	A	120	120	120	120	120	120
دَ	7.10	Battery voltage/nominal capacity	V / Ah	24 / 102	24 / 102	24 / 102	24 / 102	24 / 102	24 / 102
-	8.1	Type of drive unit		Torque Conve		Torque Conver		Torque Conve	
8.2 8.3 8.4 8.5 10.1 10.2 10.3 10.4		Transmission Manufacturer / Type		ZF / 3WG161		ZF / 3WG161		ZF / 3WG161	
		Drive axle Manufacturer / Type		Kessler D81		Kessler D81		Kessler D81	
		Service brake		Oil immersed	disc	Oil immersed	disc	Oil immersed disc	
	8.5	Parking brake		Dry disc on drive axle		Dry disc on dri	ve axle	Dry disc on drive axle	
	10.1	Operating pressure for attachments	MPa	22.5		22.5		22.5	
	10.2	Oil volume for attachements	l/min	100		100		100	
	10.3	Hydraulic tank capacity	litres litres	140		140		140	
	10.4	Fuel tank capacity		158		58		158	
		DEF tank capacity	litres	19		19		19	
Ĭ	10.5	Steering design		Hydraulic power steering		Hydraulic powe	er steering	Hydraulic power steering	
ğ	10.6	Number of steering rotation	ID (1)	4.5	TDE	4.5	TDD	4.5	TES
•	10.7	Sound pressure level at the driver's seat ***	dB (A)	TBD	TBD	X	TBD	X	TBD
		Sound power level during the working cycle ***	dB (A)	108.5	105.1	X	105.1	X	105.1
	10.8	Towing coupling, model / type a Stage IV engine and at 25 km/h as factory default All		Pin nominal values		Pin the manufactur		Pin strated may fea	

Masts and carriages

Yale's 2 stage masts with pin and hook type carriages on provides:

- Excellent visibility for the driver to the forks and load
- · Optimised forward visibility
- Extended range of carriage options
- Easier manoeuvrability through reduced mast height and truck width
- · Excellent durability and reliability
- Applies to 8-16t with load centres of 600mm only.



Standard fork positioning pin type carriage.



Apron-style sideshift and fork positioner pin type carriage.



Apron-style sideshift and fork positioning pin type carriage for 3-stage mast only.



Dual function sideshift fork positioning carriage.

Standard equipment

- Cummins QSB 6.7 119kW / max. 122kW @ 2300rpm
 - Turbo Diesel Engine
 - Stage IV Compliant
 - ECO-eLo / HiP performance modes
 - Hibernate Idle
 - Hydraulically driven cooling fan
- ZFWG161 3 speed Hydrodynamic Transmission
- 2-Stage NFL Mast with maximum fork height of 5400mm
- 85mm standard pin type
- Wet Disc Brakes
- SAUER-DANFOSS dual piston pump 90ccm (45 + 45ccm)
- Kessler D81 Drive Axle
- Up to 6-way hydraulic controls with Levers and Switches combination
- Mast Tilt: 15° Forward / 12° Back
- Yale Operator Compartment with Integral Overhead Guard Featuring:
 - Seat-Side Hydraulic Control
 - Multifunction Display Panel
 - Interior Wide Angle Mirrors
 - Telescoping & Tilting Steering Column
 - Floor Mat
 - Isolated Mounting for Low Noise and Vibration
 - Handrails for Operator Entry and Exit
 - Front screen wiper (single blade), top and rear wipers
- Tyres Drive and Steer 12.00 R20 pneumatic
- Steering Wheel with Spinner Knob
- Electronic Horn
- Amber strobe light Ignition key
- Mechanical, Full Suspension Vinyl or Cloth Seat with integrated adjustable armrest and seat belt
- Air Intake Cleaner with Rain Cap
- Low mount Exhaust
- 24V Electrical System
- 120 Amp Alternator
- Manual Tilt Operator Compartment for Service Access
- Light Kit 6:
 - 4 Halogen Work Lights on Front Mast
 - 2 Rear Halogen Work Lights
 - 2 Headlights on Front Fender with Side, Stop, Tail, Indicator & Reverse Lights
- Direction and position LED light with hazard function
- Non-Locking Fuel Cap
- Literature Package
 - Operator's Manual
- Warranty
 - 24 Months / 4000 Hours Manufacturer's Warranty

Optional equipment

- Masts
 - 2-Stage NFL Masts with maximum fork heights from 5400mm to 6700mm
 - 3-Stage FFL Masts with maximum fork heights from 4400mm to 7000mm
- Carriages
 - 2400mm Pin Type Carriage with Simultaneous and Independent Fork Positioner
 - 2400mm Pin Type Carriage with Simultaneous and Independent Fork Positioner
 - 2400mm Pin Type Side Shift Frame carriage
 - 2400mm Pin Type Integral Sideshift with Simultaneous Fork Positioner
 - 2400mm Pin Type Integral Sideshift with Simultaneous and Independant Fork Positioner
 - 2400mm QD Hook Type Dual Function Sideshift with Simultaneous and Independant Fork Positioner
 - 2400mm QD Hook Type Dual Function Sideshift with Simultaneous Fork Positioner with 2 Auxiliary Functions
- 5 Function Hydraulic Control Valve with 3 Levers, 2 Switches
- 6 Function Hydraulic Control Valve with 4 Levers, 2 Switches
- Hydraulic Control 5 function Joystick
- Mast Tilt:
 - 20.5° Forward / 7° Back
 - 5° Forward / 12° Back
- FDC pedal
- Tyres Drive and Steer
 - 10.00-20 Trelleborg radial tyres
 - 10.00-R20 Michelin XZM radial tyres
 - 10.00-20 pneumatic shaped solid tyres
- Steer Wheel Nut Protection
- Yale enclosed cab with or without Air Conditioning includes:
 - Mini-levers hydraulic control
 - 7" integrated performance display
 - Interior Wide Angle Mirrors
 - Telescoping & Tilting Steering Column
 - H-style front screen wiper
 - Floor Mat
 - 24-12V DC/DC Converter
 - Heater
 - Re-circulation Fan
- Enclosed Cab options
 - -Top and rear sun shades
 - Temperature controller
 - Air conditioner, manual controlled
 - Air conditioner, automatically controlled
 - Reading light

- Trainer seat
- IT console for on-board computer
- Storage console
- Heated top window
- Engine start interlock
- Radio preparation, inclusive wire, two speakers and antenna
- Rain top (OHG only)
- Wire mesh protection guard on Top of cab
- External Mirror right and left
- Soate
 - Mechanical, Full Suspension High backrest Vinyl or Cloth Seat
 - Deluxe Air Suspended Full Suspension Cloth Seat
 - Heated Deluxe Air Suspended Full Suspension Cloth Seat
- 3-point seat belt for Deluxe Seat
- Powered Tilt Operator Compartment
- High mount Exhaust
- SAUER-DANFOSS dual piston pump 111ccm
- Various Light Kits
- Battery master switch, lockable
- Amber strobe light switch activated
- Self adjustable back up Alarm volume > 5dB(A) ambient
- Hydraulic Accumulator
- Lockable diesel fuel cap
- Lifting Eye Shackles
- Engine Block Heater 230V and 240V
- Traction Speed Limiter
- Automatic Engine Shutdown
- Hydraulic temperature protection
- Pressure compensated lowering
- Yale Vision Wireless Asset Management system
- Front and Rear Mud Flaps
- Directional Control Lever
- Lockable Battery Disconnect Switch

Other options available through Special Engineering. Contact Yale for details.

EF series

Models: GDP 130EF, GDP 140EF, GDP 160EF



The EF series offers superior traction, gradeability, drawbar pull, travel / lift speeds and excellent manoeuvrability, ideal for tough out-door applications.

New Operator Cabin

The new Operator Cabin is designed for maximum operator comfort and productivity featuring a "cockpit-style" workplace with all truck information and controls at the operators' fingertips.

Unique lateral seat sliding further improves the view on the work task.

Excellent all-round visibility and operator protection is ensured by the armoured glass top window, curved front- and rear window and toughened glass doors.

High-capacity HVAC (heating, ventilation and air conditioning) system, an ergonomic adjustable control arm includes a wrist cushion and minilevers, or joystick option with all-day comfort from suspended seats.

Low noise levels enable operator to remain focussed during shifts.





Stage IV engines

Stage IV compliant diesel engines use Exhaust Gas Recirculation (EGR), a Diesel Oxygen Catalyst (DOC) and Selective Catalytic Reduction (SCR) technology to significantly reduce emission levels.

Cummins QSB 6.7L

The 6-cylinder engine delivers 125kW (168Hp) power and 732Nm of torque.

Transmissions

The automatic ZF 3WG161 transmission is fitted to all models with a heavy duty transmission oil pump to increase cooling oil flow to the clutches and torque converter.

A column-mounted lever or optional FDC pedal for direction changes give extremely smooth shifting with a forward-reverse lock-out function. Otimised shift points contribute to increased efficiency resulting in lower fuel consumption.

Power on Demand

Load-sensing hydraulics provide lifting power proportional to the load. Variable displacement pumps (VDP) ensure engine power is supplied only when required allowing more power for driving, increasing responsiveness and acceleration. Three pre-defined user modes can be selected allowing fine-tuning of the hydraulic controls.

Hvdraulics

Load-sensing hydraulics (LSH) deliver faster lift and auxiliary hydraulic speeds for optimum productivity, especially with attachments. Oil is filtered at three locations to maintain high cleanliness for reliability.

Protection Systems

The engine protection system monitors coolant and air intake temperature and oil pressure. The transmission system monitors pressure, temperature and forward / reverse lockout on direction changes. The hydraulic system monitors low oil temperature.

Cooling System

The Quad-Cooler radiator contains separate cooling cores for engine, transmission, hydraulics and charge air cooler designed to operate in a wide range of application temperatures.

Drive Axle

The drive axle has excellent sideways stability and long-term durability thanks to the fitment of strong end-reduction shafts and gears.

Steer Axle

The hydrostatic steer axle features a double-acting, single steering cylinder with adjustable end stops giving long lifespan and low maintenance. Loadsensing power steering ensures low-effort operation under all conditions

Chassis

A rugged unitised frame is designed for tough, demanding applications with excellent stability - the mast is directly

mounted to it, handling loads to high lift heights.

Masts and Carriages

Enhanced mast and carriage arrangement delivers excellent visibility for the operator of the forks and load. See pages 3 and 5 for further details on carriages.

Electrics

Trucks use a 24 Volt system with 70A alternator and CAN bus connection. The LCD displays diagnostics for engine, transmission and electrical systems.

Lights

Mast mounted work lights, rear cab-mounted work lights, front marker lights, LED direction indicators, stop, tail and reverse lights.

Serviceability

Unobstructed access to the engine and key components via the sideways-tilting cab and 'gull-wing' doors. Service check points, centralised PC access and CAN bus connections help to reduce fault identification time. Longer service intervals increas uptime and reduce servicing costs. LSH oil change is up to 6000 hours, transmission oil change interval is 2000 hours.

Stage IV engine - aditional features:

Auto Rev-Up:

Engine speed is automatically increased during lifting and tilting with the transmission is in neutral.

Drive Over Lift (DOL):

Priority is given to driving and fitting. Hydraulic performance is reduced while driving and performance is automatically increased when engine speed increases.

High performance Mode (HiP):

HiP mode maximises engine power and torque for hydraulic and drive functions.

Economy Mode (ECO-eLo):

ECO-eLo mode makes throttle reaction less aggressive, saving fuel, with reduced maximum engine speed.

Alternate idle mode:

Engine rpm is automatically reduced to stand-by mode if no functions are used for 30 seconds.

EF series

Models: GDP 130EF, GDP 140EF, GDP 160EF



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Safety: This truck conforms to the current EU requirements.

Specification is subject to change without notice.

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