Diesel Powered Forklift Trucks

8,000kg, 9,000kg, 10,000kg, 12,000kg, 13,000kg, 14,000kg and 16,000kg





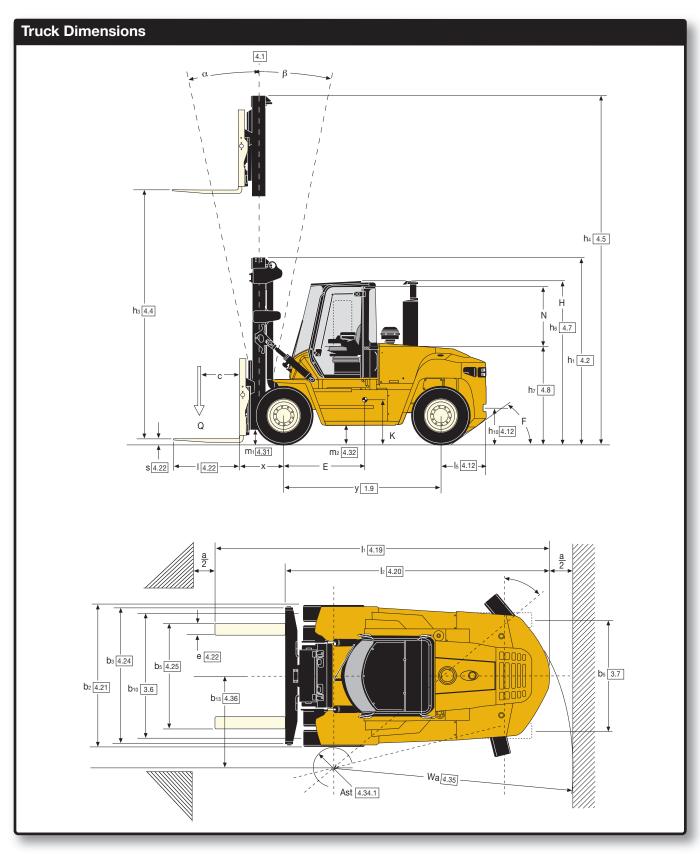






- Choice of Powertrain and Hydraulic configurations, to suit specific customer requirements.
- Load Sensing Hydraulics, with highly efficient 'variable displacement' pumps
- Nominal lifting capacities including side shift carriage Full capacity up to 6200mm lift height
- New transmissions, with smooth auto-shift system, also featuring protective lock-out on forward-reverse shifting and engine and transmission protection systems as standard
- Fastest lifting speeds, with a practical average of up to 0.35 m/sec
- Excellent ergonomics with renowned Yale ERGO Cab





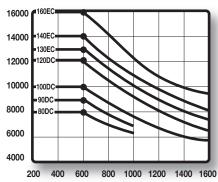
Rated capacities

Load Centre

Distance from forks to centre of gravity of load.

Rated Load

Based on vertical masts as shown in VDI table.



● = Centre of gravity of unladen truck

Ast = Wa + x + l₈ + ^a (if b₁₂₂ < b₁₃)

a = Minimum operating distance

l₈ = load lengths

b₁₂ = load width

(VDI-standard = 200 mm BITA

recommendation = 300 mm)

Mast	Mast details and capacity ratings (kg) - Pneumatic tyres											
Model					GDP 80 DC		GDP	90 DC	GDP 100 DCS			
Tyres					9.00 - 2	20 14PR	9.00 - 2	20 14PR	10.00 - 20 16PR			
Width ac	Width across tyres				242	5mm	242	5mm	2448mm			
					Forks	Integral Sideshift	Forks	Integral Sideshift	Forks	Integral Sideshift		
Mast	OAH	FFH	MFH		600	600	600	600	600	600		
	h1	h2+s	h3+s	h4	LC	LC	LC	LC	LC	LC		
0.01	3329*	-	3750	5172*	8600	8000	9500	9000	10600	10000		
2-Stage LFL (V)	3779*	-	4650	6072*	8600	8000	9500	9000	10600	10000		
LFL (V)	4155*	-	5400	6822*	8600	8000	9500	9000	10600	10000		
	3021*	1401	5600	7006*	7300	7080	8200	7980	9740	9180		
3-Stage	3154*	1534	6000	7406*	7160	6940	8060	7820	9680	9140		
FFL (F)	3321*	1701	6500	7906*	6980	6760	7860	7640	9440	8900		
	3487*	1867	7000	8406*	6780	6580	7640	7420	9180	8700		

Model					GDP 1	100 DC	GDP 1	20 DC	
Tyres					10.00 -	20 16PR	10.00 - 2	20 16PR	
Width ac	ross tyre	s			2448	8mm	2448	Bmm	
					Forks	Integral Sideshift	Forks	Integral Sideshift	
Mast	OAH	FFH	MFH		600	600	600	600	
	h1	h2+s	h3+s	h4	LC	LC	LC	LC	
	3630	-	3750	5470	10450	10000	12700	12000	
	4080	-	4650	6370	10450	10000	12700	12000	
2-Stage	4455	-	5400	7120	10450	10000	12700	12000	
LFL (V)	4855	-	6200	7920	10450	10000	12700	12000	
	5105	-	6700	8420	10300	9700	12400	11700	
	3045	1435	5600	7030	10060	9440	11420	10720	
3-Stage	3180	1570	6000	7430	9900	9280	11240	10560	
FFL (F)	3345	1735	6500	7930	9680	9080	11020	10360	
	3510	1900	7000	8430	9640	8860	10780	10140	

Mast details and capacity ratings (kg) - Pneumatic tyres											
Model					GDP 130 EC		GDP	140 EC	GDP 160 EC		
Tyres					12.00 -	20 16PR	12.00 -	20 16PR	12.00 - 20 16PR		
Width ac	Width across tyres				260)7mm	260)7mm	26	07mm	
					Forks	Integral Sideshift	Forks	Integral Sideshift	Forks	Integral Sideshift	
Mast	OAH	FFH	MFH		600	600	600	600	600	600	
	h1	h2+s	h3+s	h4	LC	LC	LC	LC	LC	LC	
	3640	-	3750	5470**	13600	13000	15000	14000	16400	16000	
0.01	4090	-	4650	6370**	13600	13000	15000	14000	16400	16000	
2-Stage	4465	-	5400	7120**	13600	13000	15000	14000	16400	16000	
LFL (V)	4865	-	6200	7920**	13600	13000	15000	14000	16400	16000	
	5115	-	6700	8420**	13450	12700	14800	13800	16200	15800	
	3070	1300**	4400	6080**	12800	11940	13720	12820	15600	14620	
3-Stage	3270	1500**	5000	6680**	12740	11880	13660	12760	15540	14560	
FFL (F)	3600	1830**	6000	7680**	12340	11520	13260	12380	15120	14160	
	3940	2160**	7000	8680**	11760	10980	12680	11840	14520	13600	

^{*}Add 25mm if optional 10.00 x 20 tyres are fitted. **Deduct 20mm for GDP130EC with 11.00 x 20 tyres.

	Pov	vertrains				
Г	1.3	Drive: electric (battery or mains), diesel, petrol, LPG		Diesel	Diesel	Diesel
	7.1	Engine manufacturer/type		Cummins QSB 6.7 Stage IIIA	Cummins QSB 4.5 Stage IIIB	Cummins QSB 6.7 Stage IIIB
	7.2	Engine power according to ISO1585 (nominal)	kW @rpm	116 @ 2300	119 @ 2300	122 @ 2300
je.	7.2.1	Engine power according to ISO1585 (maximum)	kW @rpm	116 @ 2300	122 @ 2200	125 @ 2200
Engine	7.3	Rated speed	min ⁻¹	2300	2300	2300
П-	7.3.1	Torque (maximum)	Nm@rpm	597 @ 1500	624 @ 1500	732 @ 1500
	7.4	Number of cylinders/displacement	cm ³	6 / 6700	4 / 4500	6 / 6700
	7.5	Fuel consumption according VDI cycle	l/h	call	call	call
	8.1	Type of drive unit		hydrodynamic 3 speed	hydrodynamic 3 speed	hydrodynamic 3 speed
train	8.2	Transmission manufacturer/type		ZF / WG161	ZF / WG161	ZF / WG161
	8.6	Wheel drive/drive axle manufacturer/type		Axle Tech / PRC 425	Axle Tech / PRC 425	Axle Tech / PRC 425
Drive	8.11	Service brake		oil-immersed / wet disc	oil-immersed / wet disc	oil-immersed / wet disc
U	8.12	Parking brake		dry disc on drive axle	dry disc on drive axle	dry disc on drive axle

Value Val										
1.5 3.	V	/DI	2198 - General Specifications							
March 10 10 10 10 10 10 10 1		1.1	Manufacturer (abbreviation)		Ya	le	Ya	ale	Y	ale
1.5 1.		1.2	Manufacturer's type designation		GDP 8	80 DC	GDP	90 DC	GDP 1	00 DCS
1.5 1.	stics	1.3	Drive: electric (battery or mains), diesel, petrol, LPG				Die	esel	Diesel	
1.5 1.	teris	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Se	at	Se	eat	Seat 10000 Seat 100000 Seat 1000000 Seat 1000000 Seat 1000000 Seat 1000000 Seat 10000000 Seat 100000000 Seat 1000000000000 Seat 100000000000000000000000000000000000	eat
1.5 1.	arac	1.5	Rated capacity/rated load	Q (kg)	80	00	90	000	10	000
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2	H		•	кд						
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Monels, number front/rear (x = driven vheele)	ρ		•							
Tread, Front Del Open Principle			•							
3.7 Tread, ream 1930 1	hee			b10 (mm)						
Meight, mast lowered	>	3.7	Tread, rear	b11 (mm)	19	30	19	30	19	930
4-4 LP		4.1	Tilt of mast/fork carrige, forward α /backward β	degrees	15 /	12	15	/ 12	15	/ 12
March Marc		4.2	Height, mast lowered	h1 (mm)	41	55	41	55	44	155
Meight, mast extended \(\frac{1}{4} \) Meight of overhead guard (cabin) \(\) Ne (mm) \(\) 3015 \(\) 301		4.3	Free lift ▼	h2 (mm)	C))		0
March Mar		4.4	Lift ▼	h3 (mm)			53	39	53	346
A 12 Coupling height X No (mm) 1742 1782 1782		4.5	1.5 Height, mast extended ♣ h4 (mm) 6822 1.7 Height of overhead guard (cabin) ○ h6 (mm) 3015 1.8 Seat height/stand height ✗ h7 (mm) 1742 1.2 Coupling height h10 (mm) 635 1.7 Overhang Is (mm) 809 1.9 Overall length I1 (mm) 5514 2.0 Length to face of forks I2 (mm) 4294	22	68	22				
Page			<u> </u>	. ,						
Note			· · ·							
Note				· , ,						
March Mar			-	• • •						
A	ions		· · · · · · · · · · · · · · · · · · ·	. ,						
A	Jens		•	. , ,						
	盲									
Part										
No. Reach, lateral from vehicle centerline* bs (mm) 150		4.24								
4.31 Ground clearance, laden, below mast m: (mm) 248 248 225		4.25			520 - 2230		520 -	2230	520 -	2230
March Mar		4.30	Reach, lateral from vehicle centerline*		15	50	1	50	1	50
Asil Asile width with pallets 1200mm long x 1200mm crossways Ast (mm) 6099 6099 6133		4.31	Ground clearance, laden, below mast	m1 (mm)	248		248		· ·	
No. Turning radius (outer) Wa (mm) 3914 3		4.32	Ground clearance, centre of wheelbase	m2 (mm)	274				2	92
4.36 Internal turning radius bis fmm 1433 1433 1433 1432		4.34.1	Aisle width with pallets 1200mm long x 1200mm crossways	Ast (mm)					61	33
Face			-	Wa (mm)						
Figure F	Н	4.35 4.36	•							
Form		5.1								
Lifting speed, laden/unladen Stage IIIB engine m/sec 0.49 0.51 0.47 0.51 0.37 0.39										
Figure F		5.2								
Lifting speed, laden/unladen (120 ccm) Stage IIIB engine m/sec 0.57 0.69 0.57 0.69 0.44 0.52										
Section Sect		5.21								
Drawbar pull, laden/unladen Stage IIIB engine kN 104.6 36 104.4 36.5 99.8 41.4 5.7 Gradeability, laden/unladen Stage IIIB engine % 63 32 57 31 46 31 5.7 Gradeability, laden/unladen Stage IIIB engine % 63 32 57 31 46 31 5.7 Acceleration time, laden/unladen Stage IIIB engine s 5.5 4.7 5.6 4.8 6.2 5.3 5.8 Acceleration time, laden/unladen Stage IIIB engine s 5.3 4.6 5.4 4.7 6.0 5.1 5.10 Service brake Oil-immersed / wet disc 10.1 Operating pressure for attachments 1/min 100 100 100 10.2 Oil volume for attachments 1/min 100 100 100 10.3 Hydraulic oil tank, capacity 1 128 128 128 10.5 Steering design Hydrostatic Hydrostatic Hydrostatic 10.6 Number of steering rotation 3.7 3.7 3.7 10.7 Sound pressure level at the driver's seat dB(A) 73 73 73 10.7 Sound power level during the working cycle dB(A) 108 108 108 10.4 41.4 36.5 99.8 41.4 41.4 36.5 31 32 57 31 46 31 31 46 31 31 46 31 31 46 31 31 46 31 31 46 31 32 57 31 46 4.8 4.8 6.2 5.3 4.8 6.2 5.3 4.8 6.2 5.3 5.9 4.7 5.6 4.8 6.2 5.1 4.7 5.6 4.8 6.2 5.2 4.7 5.6 4.8 6.2 5.3 4.6 5.4 4.7 6.0 5.1 5.4 4.7 6.0 5.1 5.6 4.8 6.2 5.2 5.3 4.6 5.4 4.7 6.0 5.1 5.4 4.7 6.0 5.1 5.6 4.8 6.2 5.2 4.7 5.6 4.8 6.2 5.3 6.2 5.3 7 100 100 100 100 100 100	nce									
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S.7 Gradeability, laden/unladen Stage IIIB engine % 63 32 57 31 46 31	"	ა.ე		kN	104.6	36	104.4	36.5	99.8	41.4
Gradeability, laden/unladen Stage IIIB engine % 63 32 57 31 46 31		5.7	Gradeability, laden/unladen Stage IIIA engine	%	63	32	57	31	46	31
Acceleration time, laden/unladen Stage IIIB engine s 5.3 4.6 5.4 4.7 6.0 5.1		0.7	Gradeability, laden/unladen Stage IIIB engine	%	63	32	57	31	46	31
Acceleration time, laden/unladen Stage IIIB engine S 5.3 4.6 5.4 4.7 6.0 5.1		5.9	Acceleration time, laden/unladen Stage IIIA engine	s	5.5	4.7	5.6	4.8	6.2	5.3
10.1 Operating pressure for attachments bar 193 19				S						
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10.4 Fuel tank, capacity 1 128 128 128 128 10.5 Steering design Hydrostatic Hydrostatic Hydrostatic Hydrostatic 10.6 Number of steering rotation 3.7 3.7 3.7 10.7 Sound pressure level at the driver's seat dB(A) 73 73 73 10.7 Sound power level during the working cycle dB(A) 108 108 107				I/min						
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[▼] Bottom of forks.

✗ Full Suspension seat in depressed position.

♣ Without load backrest.

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Yale		Ya	le	Ya	lle	Ya	ale	Ya	le	П	
GDP 100 DC		GDP 1	20 DC	GDP 1			40 EC	GDP 10		ا پ	
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17	62	170	62	17	91	17	91	1791		- 1	
65		65		684		684		684		- 1	
80		80		809		809		809		- 1	
57-		5748 4528		6225		6225		6225		ons	
45:		2448		5005 2607		5005 2607		5005 2607		Dimensions	
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22	25	22	5	17	'8	1	78	17	8	- 1	
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30.6	31.2	30.5	31.1	26.6	28.0	26.6	28.0	26.3	27.9	11	
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0.37	0.39	0.37	0.39	-	-	-	-	-	-]	
0.42	0.52	0.42	0.52	0.34	0.41	0.34	0.41	0.34	0.41]	
0.44	0.52	0.45	0.52	0.36	0.41	0.36	0.41	0.36	0.41		
0.50	0.48	0.50	0.48	0.50	0.48	0.50	0.48	0.50	0.48	Performance	
0.50	0.48	0.50	0.48	0.50	0.48	0.50	0.48	0.50	0.48	form	
99.8	41.4	99.2	44.9	118.6	51.4	113.4	52.9	113	53.8	_ <u>a</u>	
99.8 46	41.4 31	99.2 38	44.9 30	118.6 45	51.4 33	113.4 38	52.9 33	113 35	53.8 31	11	
46	31	38	30	45	33	38	33	35	31	11	
6.2	5.3	6.2	5.3	6.3	5.4	6.2	5.5	6.5	5.6	11	
6.0	5.1	6.1	5.2	6.1	5.3	6.2	5.4	6.3	5.5	11	
oil-immersed / wet disc		oil-immerse	d / wet disc	oil-immerse	d / wet disc	oil-immerse	ed / wet disc	oil-immerse	d / wet disc	ш	
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Models: GDP80DC, 90DC, 100DC, 100DCS, 120DC, GDP130EC, 140EC, 160EC

The DC/EC series offers superior traction, gradeability and drawbar pull. These trucks offer the productive travel / lift speeds and excellent manoeuvrability to meet the demands of tough applications (lumber, pipe, pre-stressed concrete, block/brick, stevedoring and heavy cargo). Special attachments may be required for the applications mentioned above.

ERGO Operator Compartment

Yale's ERGO Operator Compartment is ergonomically designed for maximum operator productivity.

Standard features:

- Full-length handrails
- Three non-slip entry steps
- Open floor with low front dash
- Dash instrument panel positioned to the right of driver, with gauges, warning lights and LCD message centre, switches, key start and park brake
- Two way adjustable steering column for height and tilt angle
- Inch brake/brake/accelerator pedal arrangement
- Custom moulded floor mat
- Angled overhead guard bars
- 3-way adjustable right hand armrest
- Wide angle side view mirrors
- Blinking red warning lights on steering column advise driver to refer to instrument panel
- Paddle lever actuators for hydraulic functions and combination paddle/ rocker switches for optional attachments
- Joystick or lever controls.
- A full suspension vinyl seat

Optional enclosed cab option features:

- Curved tempered front and rear glass
- Twin arm single 990mm blade front wiper, rear wiper and top wiper with washer fluid spray
- Ten high capacity outlet vents for heating
- Optional air conditioning, or high capacity air-conditioning, with or without climate control
- Under cab sound insulation
- Cab filter for all incoming air
- Front and rear screen demisting

- Top cover laminated glass
- Storage bins

Other Features:

- A revised dash display which shows ZF WG161 transmission and hydraulic controller error codes.
- The entire operator cabin tilts manually or electrically for complete service access to major powertrain components.

Stage IIIA engines:

This diesel engine conforms to Stage IIIA emission standards and will be supplied into markets where the NRMM (Non Road Mobile Machinery) Stage IIIB legislation does not apply.

Cummins QSB 6.7L

The 6-cylinder in-line engine delivers maximum 116kW (155Hp) output at 2300rpm, offering extra durability for long periods of peak power operation.

Smooth torque of 597Nm at 1500rpm provides excellent acceleration and pulling power.

Stage IIIB engine:

For use mainly within EU (European Union) countries, trucks with Stage IIIB diesel engines have significantly reduced exhaust gas emissions. Also by applying Yale Intelligent Design criteria, these trucks are not only cleaner running but also more economical, achieving up to a 20% fuel saving.

Engines

Stage IIIA

- Cummins QSB6.7 Diesel engine
- ZF WG161 transmission
- Oil immersed 'wet disc' brakes
- Single/Dual VDP hydraulic pump *

Stage IIIB 8-12

- Cummins QSB4.5 Diesel engine
- ZF WG161 transmission
- Dry drum brakes with air dryer
- Single/Dual VDP hydraulic pumps *

Stage IIIB 13-16

- Cummins QSB6.7 Diesel engine
- ZF WG161 transmission
- Oil immersed 'wet disc' brakes
- Single/Dual VDP hydraulic pumps *

Cummins QSB 4.5L

The 4-cylinder in-line engine delivers max 122kW (160Hp) output at only 1900rpm, offering extra durability for long periods of peak power operation.

Smooth torque of 624Nm at 2200rpm provides excellent acceleration and

lugging power.

Cummins QSB 6.7L

The 6-cylinder in-line engine delivers max 125kW (170Hp) output at only 1900rpm, offering extra durability for long periods of peak power operation.

Smooth torque of 732Nm at 1500rpm provides excellent acceleration and lugging power.

Powertrain and Hydraulic Configurations

The range of Powertrain and Hydraulics configurations is designed to suit the requirements of specific customer and application needs, enabling operators to focus on lowering ownership costs and increasing productivity.

* 8-12t models have a single hydraulic pump as standard, the dual pumps are an option. 13-16t models have the dual hydraulic pumps as standard.

Transmissions

All models feature the new ZF 3WG161 transmission, which is designed for more intensive applications, and delivers increased cooling performance, thanks to a heavy duty transmission oil pump (100L/min at 2000rpm), which ensures sufficient cooling oil flow for the clutches and torque converter.

The transmission features a stiffer torque converter and optimised shift points, which contribute to increased efficiency and results in a 5% lower fuel consumption. Lower noise emissions from the ZF transmission are achieved through the use of helical high contact gears.

A transmission is fitted with an automatic gear-change system with a column-mounted lever or optional FDC pedal for direction changes. Extremely smooth shifting and a forward-reverse shifting lock-out function are standard features.

Power on Demand

The load-sensing hydraulic system provides hydraulic lifting power proportional to the load being lifted. The load-sensing variable-displacement (VDP) pumps ensure that the engine supplies power to the hydraulic pumps only when required. This means that more engine power is available for driving, delivering increased responsiveness and acceleration for increased productivity.

This also delivers 5% increase in fuel efficiency, so reducing overall operating costs and including the

Models: GDP80DC, 90DC, 100DC, 100DCS, 120DC, GDP130EC, 140EC, 160EC

efficiency saving by the ZF transmission. In total this represents a fuel saving of 10%.

Three pre-defined user modes (smooth, medium, direct) can be selected through the user interface. These modes allow fine-tuning of the hydraulic controls, to achieve the best balance for the operator and the application.

Hydraulics

The load-sensing hydraulic system delivers faster laden lift speeds and increased auxiliary hydraulic speeds for optimum productivity, especially when using attachments.

Leak-free ORFS (O-ring) type fittings are used throughout the truck and the hydraulic oil tank is equipped with an external sight glass for oil level.

Hydraulic oil is effectively filtered at three locations in the system. The filter system uses a full-flow return line filter with 10 micron cartridge on the main system and is designed to maintain a high cleanliness level, ensuring reliable and durable performance.

- 8-12t models also have the single 90cc VDP pump, with a lifting performance well suited to the practical needs in most applications. Optionally available are Dual 60cc VDP pumps (2x60cc per revolution, max. pump performance 262 l/min) providing up to 30% higher laden lifting speeds.
- 13-16t models feature dual 60cc VDP pumps (2x60cc per revolution, max. pump performance 262 l/min).

Protection Systems

The engine, transmission and hydraulic protection systems monitor operating temperatures and pressures, and are designed to ensure the highest level of truck reliability and prevent unplanned downtime, for maximum productivity. The systems initially derate the engine power and finally (on engine and transmission protection) shut the engine down.

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

oil temperature protection is an optional extra.

Cooling System

The Quad-Cooler radiator contains four separate cooling cores for the engine, transmission, hydraulics and charge air cooler. The truck is designed to operate in ambient temperatures of -18° C up to 50° C in normal applications, or up to 45° C for heavy duty operations. The cooling air-intake is located at the top of the counterweight, to provide a cleaner air-flow.

Drive Axle

The wide AxleTech PRC-425 (8-12t) or PRC-775 (13-16t) drive axle delivers excellent sideways stability and long-term durability thanks to the fitment of strong end-reduction shafts and gears.

All models feature oil-immersed brakes on the drive axle, which are oil cooled for durability and are virtually maintenance free. The parking brake is a dry disc brake on the drive axle input shaft, which is spring applied and hydraulically released

Steer Axle

The hydrostatic steer axle features a double-acting, single steering cylinder with adjustable end stops. It is renowned for its long lifespan and low maintenance requirements. Loadsensing power steering ensures low-effort operation under all operating conditions

Chassis

A rugged unitised frame structure is designed for tough, demanding applications and offers excellent stability. All nominal capacities are rated to include the sideshift carriage and the mast is mounted to the frame, not the drive axle. The DC/EC series has been designed to handle loads to high lift heights and there is no reduced capacity up to and including 6200 mm.

Masts

Yale Hi-Vis™ Simplex and Triplex masts afford operators outstanding visibility. Nested channel design incorporates full-face load rollers and side bearing blocks for durability and lateral rigidity. Rolled mast channels with a generous overlap and formed cross-members provide high strength. The leaf-type chain provides superior strength.

Carriage

The standard carriage is a pin type, 2350mm or 2500mm wide and is

equipped with four angled load rollers. It is an integral piece of the rugged front-end construction and offers excellent visibility. A wide range of carriages is available to suit all applications including non-sideshift, sideshift and individual or simultaneous fork-positioning

Brakes

Oil-immersed 'wet disc' brakes are standard and contribute to increased productivity and reduced ownership costs

Electrics

The truck features a 24 Volt system with 70A alternator and CANbus connection in the operator cab, for engine, transmission, hydraulics and instruments cluster. The LCD display with diagnostics for engine, transmission and electrical systems quickly identifies service needs.

Lights

2 mast mounted work lights, 2 rear cab-mounted work lights, 2 front marker lights, LED direction indicators, stop, tail and reverse lights.

Serviceability

The DC/EC is easily accessible with unobstructed access to the engine compartment and key components, thanks to the sideways-tilting cab and the 'gull-wing' style hood doors. Conveniently located service check points, as well as centralised, PC accessible diagnostics and CANbus connections (for engine, transmission, hydraulics and instruments) help to reduce fault identification time.

Truck downtime can also be reduced thanks to clean electrical and hydraulic routings plus O-Ring Face Seals are used throughout to eliminate hydraulic leaks. Virtually maintenance free Oilimmersed 'wet disc' brakes are available on all models.

Longer service intervals increase uptime and reduce servicing costs - Load Sensing Hydraulics oil change interval is extended up to 6,000 hours from 2,000 hours.

All models' transmission oil change interval is extended to 2,000 hours from 1,000 hours.

Stage III B engine models aditional features:

Auto Rev-Up: During lifting and tilting, the engine speed is automatically increased in relation to the joystick/lever position. This feature is

Models: GDP80DC, 90DC, 100DC, 100DCS, 120DC, GDP130EC, 140EC, 160EC

active when the transmission is in neutral and inching mode.

Drive Over Lift (DOL): Priority is given to driving and fitting at the same time. The hydraulic performance is reduced while driving. Hydraulic performance is automatically increased when engine speed (engine torque) increases. This feature ensures smooth truck operation under all conditions and assists in reducing operator fatigue.

High performance Mode (HiP):

Selects the engine power mode. In the HiP mode the maximum power and torque is available for hydraulic and drive functions..

Economy Mode (ECO-eLo): With a key switch the ECO-eLo engine power mode is enabled. Throttle reaction is less aggressive which saves the fuel. The maximum RPM is reduced to 2000RPM, the duty cycle time is slightly impacted in this mode.

Alternate idle mode: The engine RPM is automatically reduced to stand-by mode if no functions are used for 30 seconds. Stage IIIB engine normal idle is 900RPM (QSB4.5), 850 (QSB6.7), in alternate idle mode 800RPM (QSB4.5), 750RPM (QSB6.7).

Optional Equipment

- Air conditioning
- High performance air conditioning
- Climate control air conditioning
- Enclosed cab
- High backrest on seat
- DeLuxe air suspension seat
- Trainer seat
- Reading light in the cab
- Sun shade: sliding screen under top window of cab
- Extra air re-circulation fan, inside the cab
- Converter: 24 Volt DC to 12 Volt DC, to use 12 V accessories, with a 'cigarette lighter' socket on the dash panel
- Storage box, lockable in the cab, behind the seat, for storing equipment, tools, etc. Internal 58cm wide x 17cm deep x 17-25cm high. Note: Not available with Trainer seat



- Engine block heater, for cold climates
- Electric-powered tilting cab for more convenient service access
- Lifting eyes (2 x on mast and 2 x on rear counterweight)
- Radial pneumatic tyres
- Solid (pneumatic shaped) tyres
- Foot Directional Control pedal
- Joystick hydraulic control
- Hvdraulic oil high temperature warning and protection system
- 24/12 volt DC-DC converter
- Various light kits
- Application specific masts (2-Stage Limited Free Lift, 2-Stage Full Free Lift, 3-Stage Full Free Lift), carriages and forks Hydraulic accumulator
- Travel speed limiter
- Back-up alarm (self-adjustable to 5dB above ambient)
- Special RAL colours
- Various attachments: Coil ram, paper roll clamp, etc.
- Raised cab position 500mm
- Mast tilt kits: (standard is 15° forward and 12° back) 20.5° forward and 7° back, or 5° forward and 12° back, or 15° forward and 10° back



- Protection rings on the rear steering wheels (to protect the wheel studs and nuts)
- Empty seat shutdown feature with variable time (3-15 minutes) delay. Saves fuel.
- Battery Master Switch, to disconnect the battery. Accessible from outside, mounted on the lefthand battery compartment.



www.yale-forklifts.eu



Tel: + 44 (0) 1252 770700 Fax: + 44 (0) 1252 770784

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