



10 – 16 Ton Pneumatic Truck Series Engine Powered Forklifts

Diesel
10,000 – 16,000 kg. Capacities | Pneumatic Tire

Control:

Your products deserve pure precision.
We put it at your fingertips.



Three-Speed Automatic Transmission

With an automotive-style transmission, your operators can expect a smoother ride while being able to focus more on moving product.

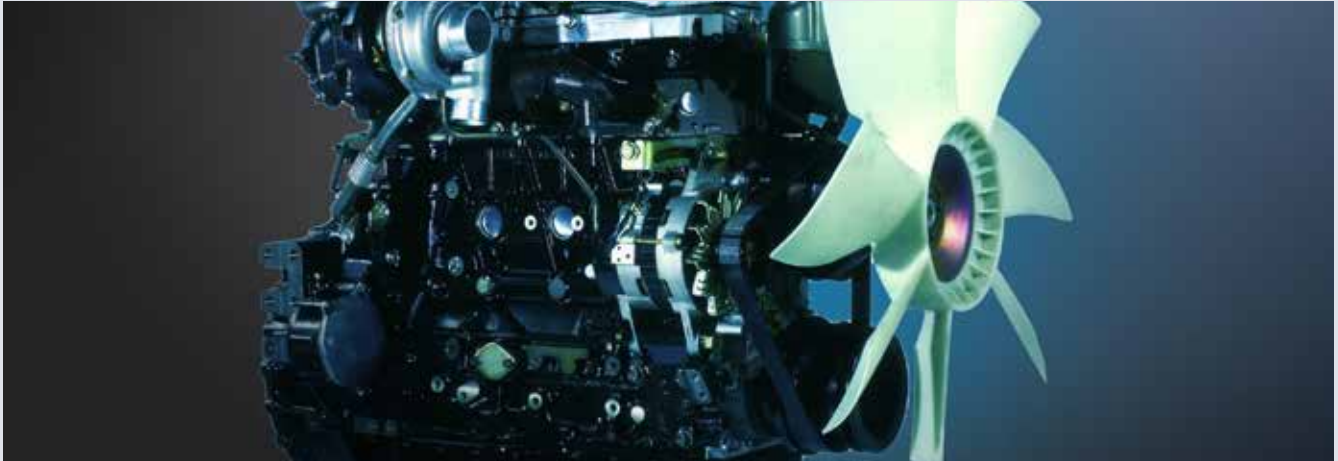
Control At Your Fingertips

- 1 Finger-Touch Shift Lever
- 2 Drive Mode Selections
- 3 Constant Travel Speed
- 4 Combined Light Lever
- 5 Integrated Instrument Panel



Reliability:

Your forklift needs To be Ready when you need it. Uptime is Not Optional.



Powerful Engine

**116kW (170PS) / 2,000 RPM
(SAE Gross 157HP / 2,000 RPM)**

With the quality you expect from Unicarriers® products and the strength you need for your rugged applications – this engine is built for productivity.

Improved Drawbar Pull And Gradeability

**122kN (12,500kgf)
(27,560lbf)
47% (25.2° slope)**

Strength isn't just measured in capacity. And maneuverability isn't measured in turning radius. The FD Series trucks look at all the ways that you need to get the job done.

Excellent Lift Speeds

500mm/s (without load)

Helping to increase loads place per cycle, these trucks feature impressive lift speeds.

Comfort:

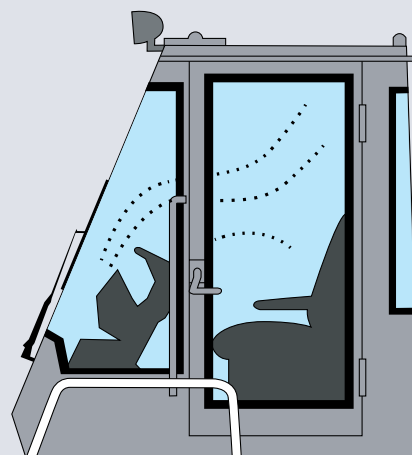
Your operator should be as productive at the end of the shift as at the beginning.

Driving a forklift can be both physically and mentally fatiguing, which can impact the health and well-being of your operators, the safety of your facility and the productivity of your operations. That's why UniCarriers incorporates proven, ergonomic designs throughout our forklifts to optimize the comfort, visibility and performance of your operators.



Deluxe Multifunctional Driver Suspension Seat

This optional seat fully adjusts to operators of almost any size. Able to slide forward and backward, adjust up and down and with turnable functions, this seat features heavy-duty comfort.



Large Capacity Air Conditioner

4,000 kcal/h

This option helps keep your operators cool even in the middle of the most demanding shifts.

Safety:

Your Heavy-Duty Forklift should protect its operator, its load and itself.



See More:

The optional pillar-less cab adds 10% more visibility to conventional cab models. With an better view of the cargo, safer load handling and even traveling becomes an option.



Better Rear Visibility

With a newly designed counterweight, visibility toward the back has been substantially improved.



Brakes

Electric Parking Brake – with a soft-touch electric switch.

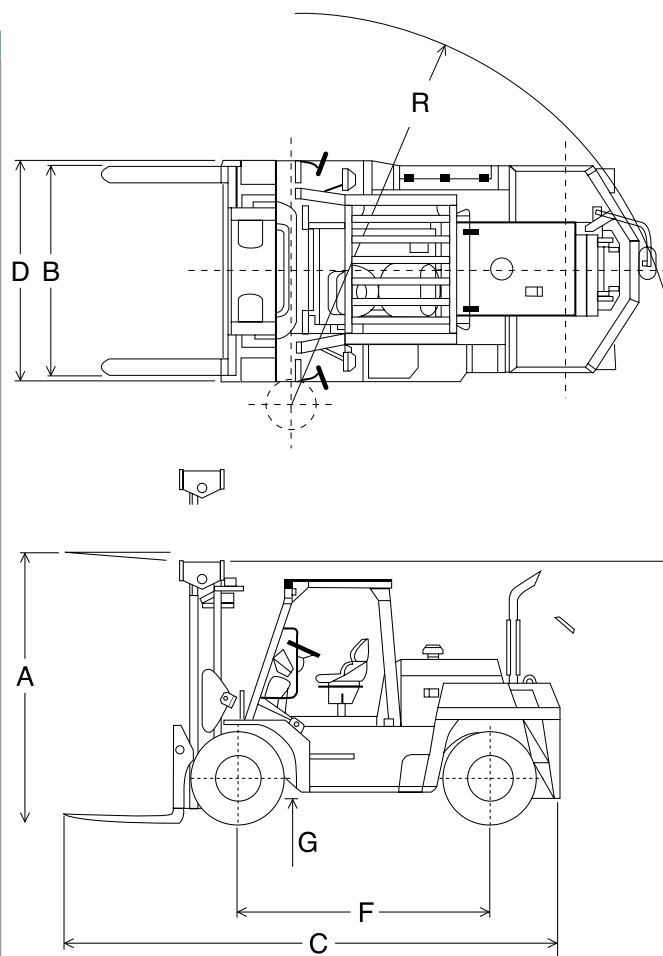
Wet-Disc Parking Brake – No pad adjustments mean reduced maintenance costs and increased dependability.

Standard Brake Line with an Air Dryer – dry pressurized air helps lower the chance of brake malfunctions and freezing of the brake line.

Specifications (Diesel)

CHARACTERISTICS					FD100-3H		FD115-3		FD120-3		
	1	Load capacity at rated load center	lb	kg	22,000	10,000	25,500	11,500	26,500	12,000	
	2	Rated load center – distance from fork face	in	mm	24	600	24	600	24	600	
	3	Power voltage			Diesel		Diesel		Diesel		
	4	Tire type – drive / steer			Pneumatic		Pneumatic		Pneumatic		
5	Wheels – number front / rear (x=driven)			4x/2		4x/2		4x/2			
DIMENSIONS	6	Maximum fork height – standard triplex mast	in	mm	118.1	3,000	118.1	3,000	118.1	3,000	
	7	Free fork height – standard triplex mast	in	mm							
	8	Fork width	in	mm	7.1	180	7.1	180	7.1	180	
	9	Fork thickness	in	mm	3.0	75	3.5	90	3.5	90	
	10	Fork spacing – out-to-out (min.)	in	mm	15.7	400	15.7	400	15.7	400	
	11	Fork spacing – out-to-out (max.)	in	mm	84.3	2,140	84.3	2,140	84.3	2,140	
	12	Tilt angle – forward / backward	degree		6 / 12		6 / 12		6 / 12		
	13	Overall Length – with fork	in	mm	216.1	5,490	216.7	5,505	216.7	5,505	
	14	Overall Length – without fork	in	mm	168.7	4,285	168.7	4,285	168.7	4,285	
	15	Overall chassis width	in	mm	88.2	2,240	89.8	2,280	89.8	2,280	
	16	Overall lowered height (mast)	in	mm	114.0	2,895	114.8	2,895	114.8	2,895	
	17	Overall lowered height to top of overhead guard	in	mm	107.9	2,740	108.5	2,915	108.5	2,915	
	18	Overall height with extended mast	in	mm							
	19	Step height	in	mm							
	20	Load moment constant ²⁾	in	mm							
PERFORMANCE	21	Minimum outside turning radius ³⁾	in	mm	157.5	4,000	157.5	4,000	157.5	4,000	
	22	Travel speed – loaded / empty	mph	km/h	21.1	34	21.1	34	21.1	34	
	23	Lift speed – loaded (triplex) (mast lift)	fpm	m/s	90.5	460	88.6	450	88.6	450	
	26	Steering System			Full hydrostatic power steering		Full hydrostatic power steering		Full hydrostatic power steering		
WEIGHTS	27	Truck weight – empty	lb	kg	29,211	13,250	31,680	14,370	32,364	14,680	
	28	Battery weight (minimum)	lb	kg							
	29	Battery weight (maximum)	lb	kg							
WHEELS / CHASSIS	30	Chassis type (stand / sit)			Sit		Sit		Sit		
	31	Wheelbase ⁴⁾	in	mm	110.2	2,800	110.2	2,800	110.2	2,800	
	32	Ground clearance	in	mm	10.0	255	10.8	275	10.6	270	
	33	Tire size	inches		9.00-20-14PR		10.00-20-16PR		10.00-20-16PR		
	34	Brake type – service			Air-over-hydraulic internal expansion		Air-over-hydraulic internal expansion		Air-over-hydraulic internal expansion		
	35	Brake type – parking			Built in transmission, wet multiple disc brake		Built in transmission, wet multiple disc brake		Built in transmission, wet multiple disc brake		
ENGINE / TRANSMISSION	36	Engine Model			ISUZU 6BG1T Diesel		ISUZU 6BG1T Diesel		ISUZU 6BG1T Diesel		
	37	Displacement	in³	lit	396.3	6,494	396.3	6,494	3,963	6,494	
	38	Rated Output / Engine Speed			114kW (155PS) / 2,000 RPM		114kW (155PS) / 2,000 RPM		114kW (155PS) / 2,000 RPM		
	39	SAE Gross			117kW (157HP) / 2,000 RPM		117kW (157HP) / 2,000 RPM		117kW (157HP) / 2,000 RPM		
	40	Maximum Torque			537N•m (54.8kgf•m) / 1,800 RPM		537N•m (54.8kgf•m) / 1,800 RPM		537N•m (54.8kgf•m) / 1,800 RPM		
	41	Transmission Type			Automatic power shift		Automatic power shift		Automatic power shift		
	42	Transmission Speeds			3-3		3-3		3-3		

FD135-3			FD-150S-3			FD160S-3		
1	30,000	13,500	33,000	15,000		35,000	16,000	
2	24	600	24	600		24	600	
3	Diesel		Diesel			Diesel		
4	Pneumatic		Pneumatic			Pneumatic		
5	4x/2		4x/2			4x/2		
6	118.1	3,000	118.1	3,000		118.1	3,000	
7								
8	7.9	200	7.9	200		7.9	200	
9	3.3	85	3.3	85		3.5	90	
10	18.5	470	18.5	470		18.5	470	
11	87.0	2,210	87.0	2,210		87.0	2,210	
12	6 / 12		6 / 12			6 / 12		
13	227.4	5,775	227.4	5,775		233.1	5,920	
14	178.9	4,545	178.9	4,545		184.4	4,685	
15	92.9	2,360	92.9	2,360		92.9	2,360	
16	124.0	3,150	124.0	3,150		124.0	3,150	
17	109.3	2,775	109.3	2,775		109.3	2,775	
18								
19								
20								
21	169.3	4,300	169.3	4,300		175.2	4,450	
22	21.1	34	21.1	34		21.1		
23	68.9	350	66.9	340		66.9	340	
26	Full hydrostatic power steering		Full hydrostatic power steering			Full hydrostatic power steering		
27	35,060	15,900	36,927	16,750		37,721	17,110	
28								
29								
30	Sit		Sit			Sit		
31	122.0	3,100	122.0	3,100		122.0	3,100	
32	10.0	255	10.0	255		10.0	255	
33	11.00-20-16PR		11.00-20-16PR			11.00-20-18PR		
34	Air-over-hydraulic internal expansion		Air-over-hydraulic internal expansion			Air-over-hydraulic internal expansion		
35	Built in transmission, wet multiple disc brake		Built in transmission, wet multiple disc brake			Built in transmission, wet multiple disc brake		
36	ISUZU 6BG1T Diesel		ISUZU 6BG1T Diesel			ISUZU 6BG1T Diesel		
37	3.963	6,494	3.963	6,494		3.963	6,494	
38	114kW (155PS) / 2,000 RPM		114kW (155PS) / 2,000 RPM			114kW (155PS) / 2,000 RPM		
39	117kW (157HP) / 2,000 RPM		117kW (157HP) / 2,000 RPM			117kW (157HP) / 2,000 RPM		
40	537N•m (54.8kgf•m) / 1,800 RPM		537N•m (54.8kgf•m) / 1,800 RPM			537N•m (54.8kgf•m) / 1,800 RPM		
41	Automatic power shift		Automatic power shift			Automatic power shift		
42	3-3		3-3			3-3		





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