

UNICARRIERS[®]

□ F O R K L I F T □

FD100-3H - FD160S-3 Series



Engine Powered Forklifts

Diesel Fuel

10-16 Ton Capacities | Pneumatic Tire



FD Series Applications

The FD160-2 – FD230-2 Series is our most powerful family of forklifts — bringing new levels of efficiency and reliability to operations such as:

- Lumber • Steel And Pipe • Fabricated Metals
- Concrete, Stone, Clay And Glass • Industrial Machinery And Equipment





NEVER QUIT.

It defines our forklifts and the company that builds them.

Over the course of a century, the company known as UniCarriers took shape. As we grew and evolved into a US manufacturer with a global reach in nearly 100 countries worldwide, much has changed, but one thing hasn't: our mission. UniCarriers is committed to providing you with the ultimate in reliability, performance, and value.

And that commitment can be seen in the FD 3 Series. For versatility, performance and bottom line value, there's nothing like the FD 3 Series forklift.



Control

These heavy-duty IC pneumatic tire forklifts deliver amazing performance inside and out



Reliability

Discover reliability features that can cut downtime and help keep your business up and running



Comfort

Let your drivers feel the benefits from our comfort & productivity features



Safety

Safety is everybody's business, and the FD Series is all business when it comes to safety



To learn more, and a find a dealer near you, visit UniCarriersAmericas.com



Control:

YOUR PRODUCTS DESERVE PURE PRECISION.
WE PUT IT AT YOUR FINGERTIPS.

These heavy-duty forklifts are built for demanding applications on almost any surface. Combining power and durability with precision controls and cabin ergonomics – means keeping your product protected and your operators productive shift after shift and day after day.

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 (155PS) / 2,000 RPM
(SAE Gross 157 / 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.

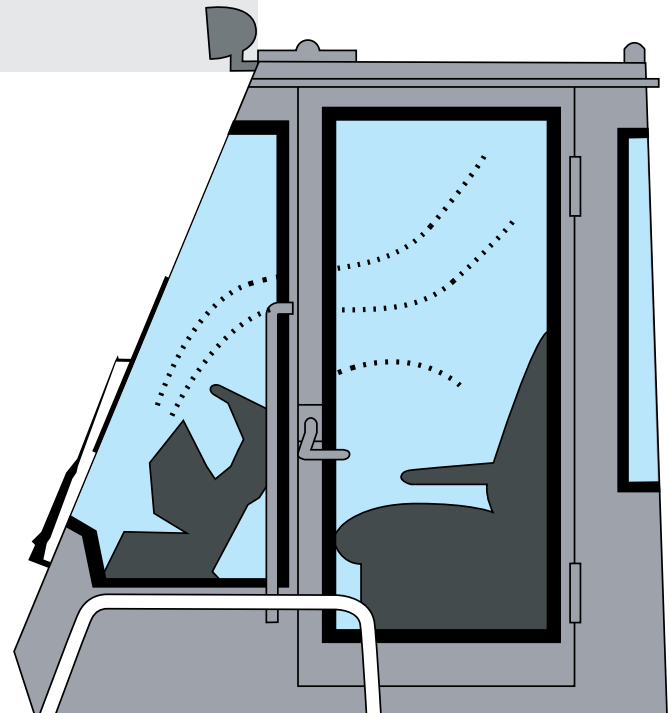
Small-Diameter Steering Wheel

This compact steering wheel design is designed to both increase comfort and steering precision while keeping a low profile that helps improve visibility.

Large Capacity Air Conditioner

4,000 kcal/h

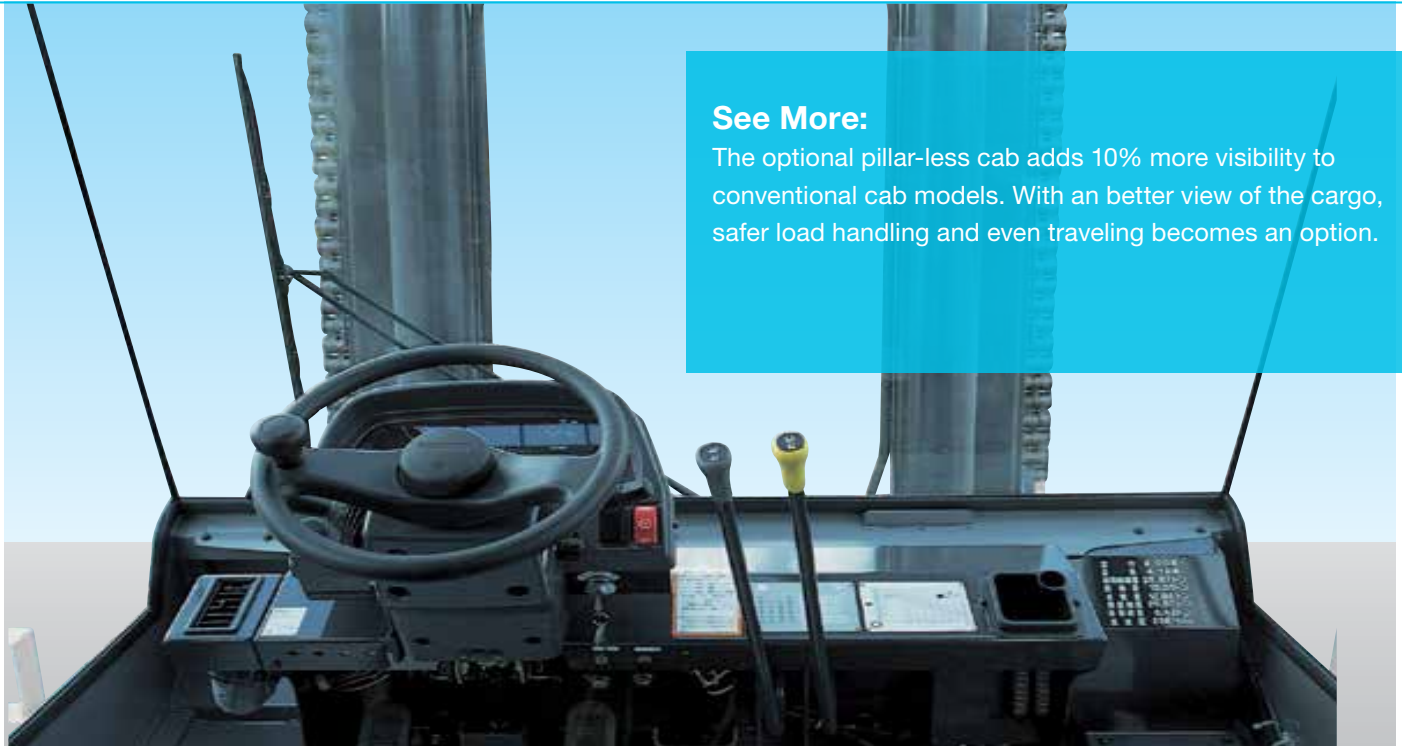
This option helps keep your operators cool even in the middle of the most demanding shifts.





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 a 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.

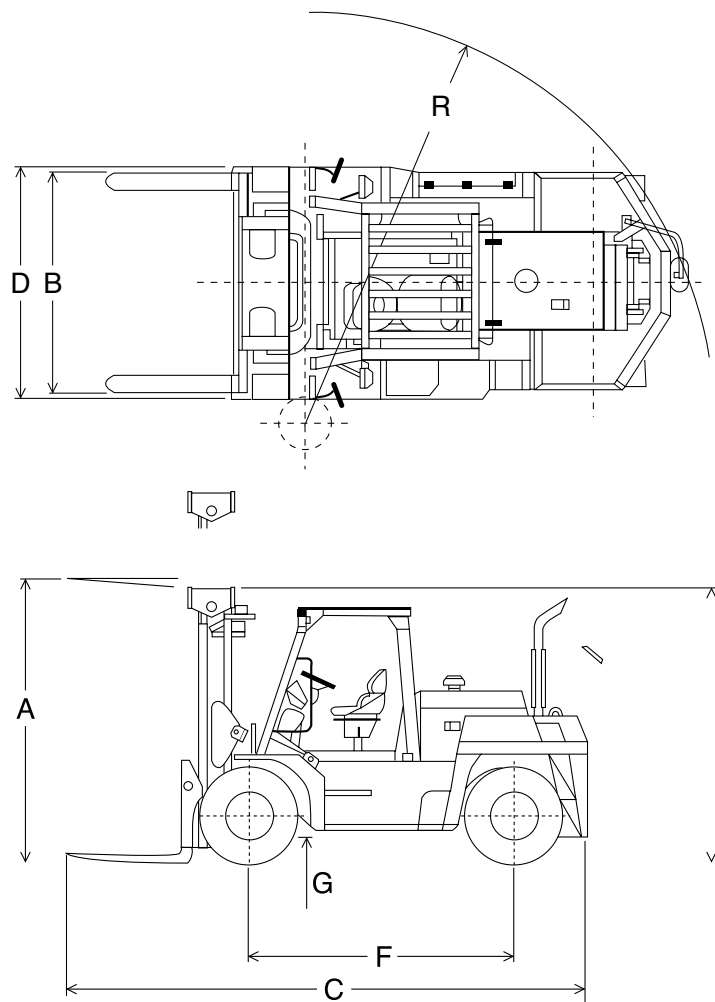
Wet-Disc Parking Brake – No pad adjustments mean reduced maintenance costs and increased dependability.

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

Specifications

CHARACTERISTICS												
0	Model				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									
21	Minimum outside turning radius ³⁾	in	mm	157.5	4,000	157.5	4,000	157.5	4,000			
PERFORMANCE												
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	in ³	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				

0	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	



Features & Options

Standard Features

GENERAL EQUIPMENT	
Adjustable suspension seat with seat belt	●
Air-dryer for brake line	●
Cartridge type air, fuel, engine oil, converter oil and hydraulic filters	●
Coolant recovery system	●
Cyclopack type double element air cleaner	●
Cylinder type bonnet latch	●
Drawbar pin	●
Durable overhead guard	●
Electrically-controlled parking brake	●
Engine after glow system	●
Engine auto glow system	●
Engine oil dipstick	●
Fork positioner (manual type)	●
Front dual drive wheels	●
Full hydrostatic power steering	●
Hydraulic oil gauge (view level)	●
ISUZU diesel engine with turbo-charger	●
Lift circuit cut-off valve	●
Load check valve	●
Overhead exhaust system	●
Pneumatic tires	●
Power brake booster	●
Automatic 3-speed powershift transmission	●
Tilt adjustable steering post	●
Tilt lock valve	●
Torque converter oil dipstick	●
Wide view mast	●
1,220 forks	●
ACCESSORIES	
Back-up buzzer	●
Electric horn	●
Head lights	●
Operator tool kit	●
Rear combination lights: (turn signal, tail, stop, back-up and side lights)	●
Rear reflectors	●
Rear under-view mirror	●
Rear view mirrors	●
Seat adjust lever	●
Turn signal lights (front)	●

SWITCH & CONTROLS	
Automatic transmission mode select switch (power mode / economy mode)	●
Electrically-controlled direction change lever (inc. Neutral safety lock device)	●
Electrically-controlled parking brake switch	●
Lift lever	●
Light switch	●
Preheater switch (inc. starter, main switch)	●
Speed change hold switch (1st fixed / 2nd fixed / Automatic speed shift)	●
Tilt lever	●
Turn signal lever	●
INSTRUMENTS	
Air cleaner clogging warning indicator	●
Brake air pressure meter	●
Brake air pressure warning indicator	●
Brake oil level warning indicator	●
Charge indicator	●
Converter oil level warning indicator	●
Converter oil temperature warning indicator	●
Engine oil pressure warning indicator (inc. engine oil filter clogging warning)	●
Engine water temperature meter	●
Fuel meter	●
Hourmeter	●
Parking brake indicator	●
Speedometer	●
Turn signal indicator	●

Optional Features

GENERAL EQUIPMENT	
Fork positioner (hydraulic motor type)	<input type="radio"/>
Fork positioner (manual type)	<input type="radio"/>
CFC free air-conditioner	<input type="radio"/>
Exhaust purifying muffler	<input type="radio"/>
Heater & defroster	<input type="radio"/>
High mast	<input type="radio"/>
Long forks	<input type="radio"/>
Side shifting device	<input type="radio"/>
Steel cabin	<input type="radio"/>
ACCESSORIES	
Central greasing system (manual pump type)	<input type="radio"/>
Fire extinguisher	<input type="radio"/>
Rotating warning light	<input type="radio"/>
Working light (front, rear)	<input type="radio"/>

* Products and specifications are subject to change without notice.

This specification sheet only provides technical values for the standard truck. Non-standard tires, different masts, additional equipment, etc., could produce other values. Rights reserved for technical changes and improvements.

Equipping these models with a power source (e.g. Lithium-ion, Hydrogen Fuel cell, etc.) that has not been previously approved by the factory is considered a modification. Per OSHA 1910.178 and ANSI/ITSDF B56.1, please consult with your factory representative prior to installing any non OEM power source that has not been previously approved.

Reliability.

It's the defining trait of our company and our forklifts.



UniCarriers' roots extend back over 100 years, and over that time, strong, reliable performance has always been the hallmark of our organization, our people and our equipment.

Today, our unrivaled reliability continues to provide UniCarriers' customers with a competitive edge. And together, we move the merchandise that moves world commerce with greater efficiency, economy and reliability.

When it comes to providing forklifts that make a difference for our customers and theirs...



We Never Quit.

UNICARRIERS®
— FORKLIFT —
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