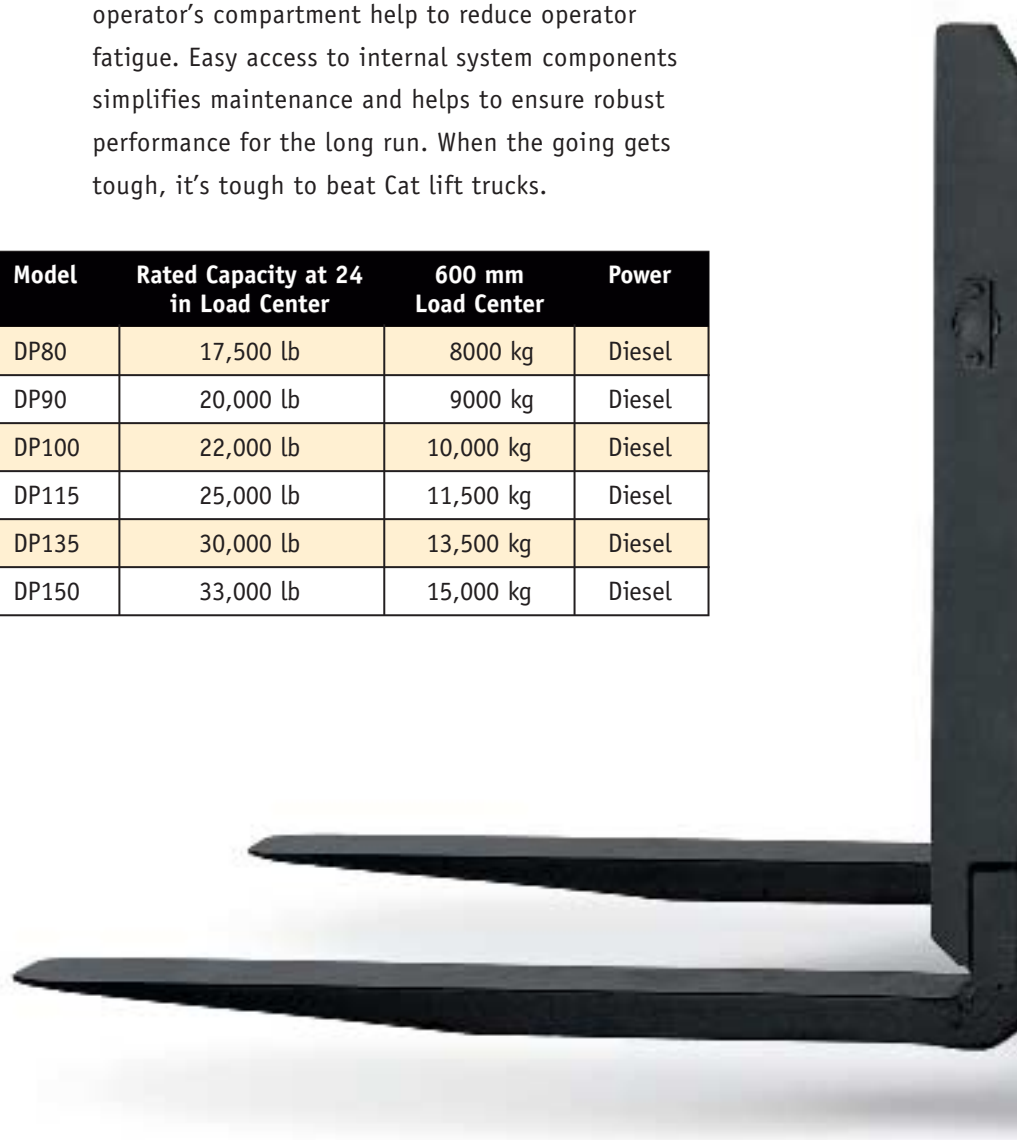
17,500-33,000 lb Capacity Diesel Pneumatic Tire Lift Trucks

CAT® Lift Trucks

Relentless Performance

Make short work of big jobs with durable, heavy-duty Cat® lift trucks. Built to last, they feature a rugged 131-horsepower engine, automatic-shift transmission, and powerful air-over-hydraulic brakes to maximize performance and productivity. Hydrostatic steering, conveniently located controls, and a full-floating operator's compartment help to reduce operator fatigue. Easy access to internal system components simplifies maintenance and helps to ensure robust performance for the long run. When the going gets tough, it's tough to beat Cat lift trucks.

Model	Rated Capacity at 24 in Load Center	600 mm Load Center	Power
DP80	17,500 lb	8000 kg	Diesel
DP90	20,000 lb	9000 kg	Diesel
DP100	22,000 lb	10,000 kg	Diesel
DP115	25,000 lb	11,500 kg	Diesel
DP135	30,000 lb	13,500 kg	Diesel
DP150	33,000 lb	15,000 kg	Diesel



6-Cylinder, 131-Horsepower Engine

With 460 cubic inches of displacement, this in-line, 6-cylinder engine is a great match for demanding applications. It delivers high torque, efficient fuel consumption, and cold-weather starting capabilities to 5°F. Operators will like swift acceleration, low noise, and extended performance.

(Model DP135)

Toggle Switch For Versatility

By simply flipping a switch on the steering console, operators can manually lock the transmission into a lower gear for applications that require top speed control. This allows operators to match the transmission to the job: one-speed, two-speed, or three-speed automatic.

Durable 3-Speed Transmission

The automatic transmission offers precision inching and a high-stall torque converter for easy acceleration and exceptional control. An auto-shift feature automatically shifts gears up or down based on travel speed, so the lift truck starts out in first gear, helping to reduce stress on the drive train as well as premature wear on components.

Non-Asbestos, Air-Over-Hydraulic Brakes

The shoe-type service brakes provide positive braking action with nominal foot pedal pressure—even after the engine shuts down. Cooling fins on the brake drums help dissipate brake heat, and optional Oil Cooled Disc Brakes (OCDB) are available for more severe braking applications. An easy-to-reach, cowl-mounted lever actuates the mechanical parking brake.

Full Hydrostatic Steering

Hydrostatic power steering helps reduce operator effort and enhances productivity. The system includes self-aligning kingpins supported by tapered roller bearings and adjustment-free, fixed-length tie rods to help lower maintenance requirements.

A trunnion-mounted steer axle articulates up to 6° for smoother operation and stability. The large-diameter steer cylinder is housed within the steer axle, helping to protect it from debris.

(Model DP135)

Good Visibility Masts

Simplex masts tilt 15° forward and 10° back on models DP80 and DP90, and 15° forward and 12° back on DP100 - DP150. With widely spaced channels and twin lift cylinders positioned behind the uprights, these sturdy masts allow for good visibility as well as for fast lift and lowering speeds.

Grab Bar For Easy Entry And Exit

An easy-to-reach grab handle on the overhead guard facilitates entry and exit of the operator's compartment, situated just three short steps from the ground.

(Model DP135)

Comfortable, Full-Floating Operator's Compartment

The operator's compartment is isolated from the frame by rubber mounts that dampen vibration from the engine and transmission.

(Model DP90)

Specially Contoured Seat

The spacious operator's compartment includes a full-suspension, contoured seat with an adjustable-suspension bottom cushion. To help relieve back stress, the seat's molded back lip provides arm support for added leverage when traveling in reverse.

(Model DP90)

(Model DP90)

Easy To Access, Service, And Maintain

Systems under the hood are designed to help make checks as well as routine maintenance quick and easy. The air cleaner, batteries, fuel tank filler, fuel shut-off, and transparent brake fluid reservoir are all easy to reach and inspect. A large-capacity fuel tank helps to allow for more than eight hours of run time, boosting productivity.

Easy-To-Open Engine Hood

The engine hood with gas cylinder assist opens easily for routine maintenance.

(Model DP135)

(Model DP90)

Conveniently Located Controls

Controls are ergonomically designed and strategically positioned to help operators work with ease. On the DP80 and DP90, the tilt steering column facilitates entry and exit of the operator's compartment and accommodates most operator preferences.

At-A-Glance Monitoring

On the instrument panel, universal graphic symbols and a non-glare panel help operators monitor lift truck functions.

Ask For A Demonstration

The advantages of the 17,500-33,000 lb capacity diesel pneumatic tire lift trucks become obvious with a demonstration. See strong proof that Cat lift trucks and your Cat lift truck dealer can offer you more productivity-driven benefits for a strong return on your equipment investment. Call for an appointment today.

SPECIFICATIONS

	CHARACTERISTICS			DP80	DP90	DP100
1	Capacity	at rated load center	lb *kg*	17,500 *8000*	20,000 *9000*	22,000 *10,000*
2		at load center – distance	in *mm*	24 *600*	24 *600*	24 *600*
3	Power	diesel, gas, LP gas		diesel	diesel	diesel
4	Tire type	cushion, pneumatic		pneumatic	pneumatic	pneumatic
5	Wheels (x = driven)	number front / rear		x4 / 2	x4 / 2	x4 / 2
	DIMENSIONS					
10	Lift	maximum fork height with rated load	in *mm*	197 *5000*	197 *5000*	217 *5500*
11	Lift with standard two-stage mast	maximum fork height	in *mm*	148 *3700*	148 *3700*	132 *3300*
12		free fork height	in *mm*	8.7 *220*	0 *0*	0 *0*
13	Forks	thickness x length x width	in *mm*	2.4 x 48 x 7.1 *60 x 1220 x 180*	2.8 x 48 x 7.1 *70 x 1220 x 180*	2.8 x 48 x 7.1 *70 x 1220 x 180*
	Fork spacing	out-to-out minimum / maximum	in *mm*	17.7/65.5 *450/1670*	31.5/78.5 *800/2000*	31.5/78.5 *800/2000*
14	Tilt	forward / backward		15 / 10	15 / 10	15 / 12
15	Overall dimensions	length to fork face	in *mm*	157.5 *4000*	164 *4165*	169.1 *4295*
16		width – standard dual drive tires	in *mm*	94.1 *2390*	94.1 *2390*	99 *2515*
		width – optional dual drive tires	in *mm*	N/A	N/A	N/A
17		height – with lowered mast	in *mm*	123 *3125*	132.6 *3370*	123.6 *3140*
18		height – seat height	in *mm*	60.5 *1535*	60.5 *1535*	68.7 *1745*
19		height – to top of overhead guard	in *mm*	101 *2565*	101 *2565*	111.6 *2835*
20		height – with extended mast	in *mm*	197.8 *5025*	204.2 *5190*	188.6 *4790*
21	Minimum outside turning radius		in *mm*	147.2 *3740*	151 *3835*	157.5 *4000*
22	Load moment constant		in *mm*	26.6 *675*	29.7 *755*	29.7 *755*
23	Minimum aisle – 90° stack – zero clearance w/out load		in *mm*	173.8 *4415*	180.7 *4590*	187.2 *4755*
	PERFORMANCE					
40	Speeds	travel speed loaded / empty	mph *km/h*	17.7 / 20.8 *28.5 / 33.5*	16.8 / 20.5 *27 / 33*	15.2 / 19.6 *24.5 / 31.5*
41		lift speed loaded / empty	fpm *m/s*	98 / 104 *.50 /.53*	81 / 85 *.41 /.43*	67 / 71 *.34 /.36*
42		lowering speed loaded / empty	fpm *m/s*	98 / 98 *.50 /.50*	78 / 78 *.40 /.40*	88 / 98 *.45 /.50*
43	Drawbar pull	loaded at 1 mph *(1.6 km)*	lb *N*	16,015 *71,242*	15,835 *70,426*	17,000 *75,617*
		loaded maximum	lb *N*	22,440 *99,821*	22,260 *99,005*	24,180 *93,586*
44	Gradeability	loaded at 1 mph *(1.6 km)*	%	40	34	29
		maximum loaded / empty	%	61 / 29	51 / 29	50 / 35
	WEIGHT					
50	Empty		lb *kg*	25,215 *11,435*	29,060 *13,180*	31,860 *14,450*
51	Axle load	with rated load front / rear	lb *kg*	38,430 / 4510 *17,430 / 2005*	43,990 / 5070 *19,900 / 2280*	48,320 / 5540 *21,920 / 2530*
		without load front / rear	lb *kg*	12,080 / 13,130 *5480 / 5955*	13,630 / 15,430 *6180 / 7000*	15,630 / 16,230 *7090 / 7360*
	CHASSIS					
60	Tire size	front, standard dual drive tires	in	9.00 x 20 -12PR	9.00 x 20 -14PR	10.00 x 20 -14PR
		front, optional dual drive tires	in	NA	NA	NA
61		rear	in	9.00 x 20 -12PR	9.00 x 20 -14PR	10.00 x 20 -14PR
62	Wheelbase		in *mm*	101.6 *2580*	101.6 *2580*	110.2 *2800*
63	Tread width	front, standard dual drive tires	in *mm*	71.7 *1820*	71.7 *1820*	74.8 *1900*
		front, optional dual drive tires	in *mm*	NA	NA	NA
64		rear tires	in *mm*	68.9 *1750*	68.9 *1750*	76 *1930*
65	Ground clearance	at lowest point @ mast	in *mm*	8.7 *220*	8.3 *210*	8.7 *220*
66		at center of wheelbase	in *mm*	11 *280*	11 *280*	13.4 *340*
67	Brakes	service		air over hydraulic-foot	air over hydraulic-foot	air over hydraulic-foot
68		parking		mechanical-hand	mechanical-hand	mechanical-hand
	POWER TRAIN					
80	Engine	manufacturer and model		Mitsubishi 6D16	Mitsubishi 6D16	Mitsubishi 6D16
81		continuous output S.A.E. gross	HP *kW*	131 *98*	131 *98*	131 *98*
			at r.p.m.	2200	2200	2200
82		maximum torque S.A.E. gross	lb-ft *kg-m*	347 *48*	347 *48*	347 *48*
			at r.p.m.	1400	1400	1400
83		cylinder / displacement	cu in *cm^3*	6 / 460 *6 / 7545*	6 / 460 *6 / 7545*	6 / 460 *6 / 7545*
84	Transmission	type		automatic powershift	automatic powershift	automatic powershift
85		number of speeds forward / reverse		3 / 3	3 / 3	3 / 3
86	Relief pressure	for attachments	psi *bar*	2610 *180*	2610 *180*	2465 *170*
87	Noise level	mean value at operator's ear Leq	dB(A)	89.5	89.5	89.5

NOTE: These specifications assume the use of drive axles, tires and tilt angles specified. Any modification to specifications, or any other combination of specifications made after the shipment of the truck, requires prior written approval from Mitsubishi Caterpillar Forklift America Inc. ("MCFA"). (See ASME B56.1 Part II 4.2.) Also be advised that overall operating visibility may be affected by the mast configuration and mast options of your truck. Therefore, you may need to add ancillary [auxiliary] devices or modify your operating practices. Consult your dealer for further information.

	DP115	DP135	DP150
	25,000 *11,500*	30,000 *13,500*	33,000 *15,000*
	24 *600*	24 *600*	24 *600*
	diesel	diesel	diesel
	pneumatic	pneumatic	pneumatic
	x4 / 2	x4 / 2	x4 / 2
	217 *5500*	217 *5500*	217 *5500*
	132 *3300*	133 *3300*	133 *3300*
	0 *0*	0 *0*	0 *0*
	3.0 x 48 x 7.1 *75 x 1220 x 180*	3.5 x 48 x 7.1 *90 x 1220 x 180*	3.5 x 48 x 7.1 *90 x 1220 x 180*
	31.5/78.5 *800/2000*	31.5/78.5 *800/2000*	41.5/89.0 *1055/2260*
	15 / 12	15 / 12	15 / 12
	172 *4370*	178.3 *4530*	190.2 *4830*
	99 *2515*	102.4 *2600*	102.4 *2600*
	N/A	N/A	N/A
	123.6 *3140*	137.2 *3485*	137.2 *3485*
	68.7 *1745*	70.5 *1790*	70.5 *1790*
	111.6 *2835*	113.2 *2875*	113.2 *2875*
	188.6 *4790*	205.9 *5230*	205.9 *5230*
	159.8 *4060*	163.8 *4160*	179.1 *4550*
	29.7 *755*	31.3 *795*	31.3 *795*
	189.5 *4815*	195.1 *4955*	210.4 *5345*
	15.2 / 19.6 *24.5/ 31.5*	13.7 / 20.5 *22.0/ 33.0*	12.8 / 20.5 *20.5/ 33.0*
	67 / 71 *.34/.36*	57 / 61 *.29/.31*	55 / 61 *.28/.31*
	88 / 98 *.45/.50*	75 / 82 *.38/.42*	75 / 82 *.38/.42*
	16,795 *74.696*	15,585 *69,332*	15,550 *69,165*
	23,910 *106,351*	21,660 *96,339*	21,715 *96,594*
	26	21	19
	44 / 32	33 / 30	31 / 32
	33,800 *15,330*	38,190 *17,320*	39,160 *17,760*
	52,760 /6040 *24,000 / 2830*	60,990 / 7200 *27,610 / 3210*	65,320 / 6840 *29,660 / 3100*
	15,320 / 18,480 *6950 / 8380*	16,450 / 21,740 *7460 / 9860*	17,510 / 21,650 *7940 / 9820*
	10.00 x 20 -16PR	12.00 x 20 -18PR	12.00 x 20 -18PR
	N/A	N/A	N/A
	10.00 x 20 -16PR	12.00 x 20 -18PR	12.00 x 20 -18PR
	110.2 *2800*	110.2 *2800*	122 *3100*
	74.8 *1900*	75 *1905*	75 *1905*
	N/A	N/A	N/A
	76 *1930*	74.4 *1890*	74.4 *1890*
	8.7 *220*	10.2 *260*	10.2 *260*
	13.4 *340*	14.9 *380*	14.9 *380*
	air over hydraulic-foot	air over hydraulic-foot	air over hydraulic-foot
	mechanical-hand	mechanical-hand	mechanical-hand
	Mitsubishi 6D16	Mitsubishi 6D16	Mitsubishi 6D16
	131 *98*	131 *98*	131 *98*
	2200	2200	2200
	347 *48*	347 *48*	347 *48*
	1400	1400	1400
	6 / 460 *6 / 7545*	6 / 460 *6 / 7545*	6 / 460 *6 / 7545*
	automatic powershift	automatic powershift	automatic powershift
	3 / 3	3 / 3	3 / 3
	2465 *170*	2465 *170*	2465 *170*
	89.5	89.5	89.5

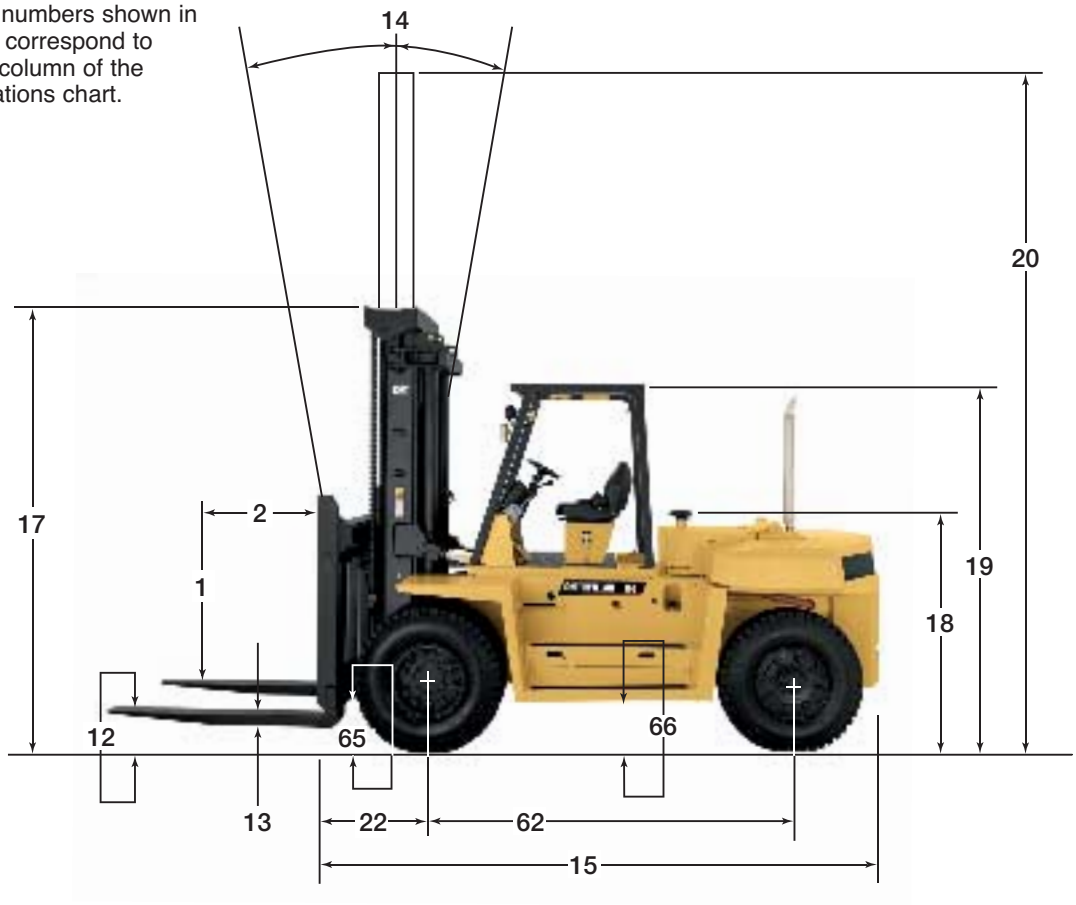
SAFETY STANDARDS

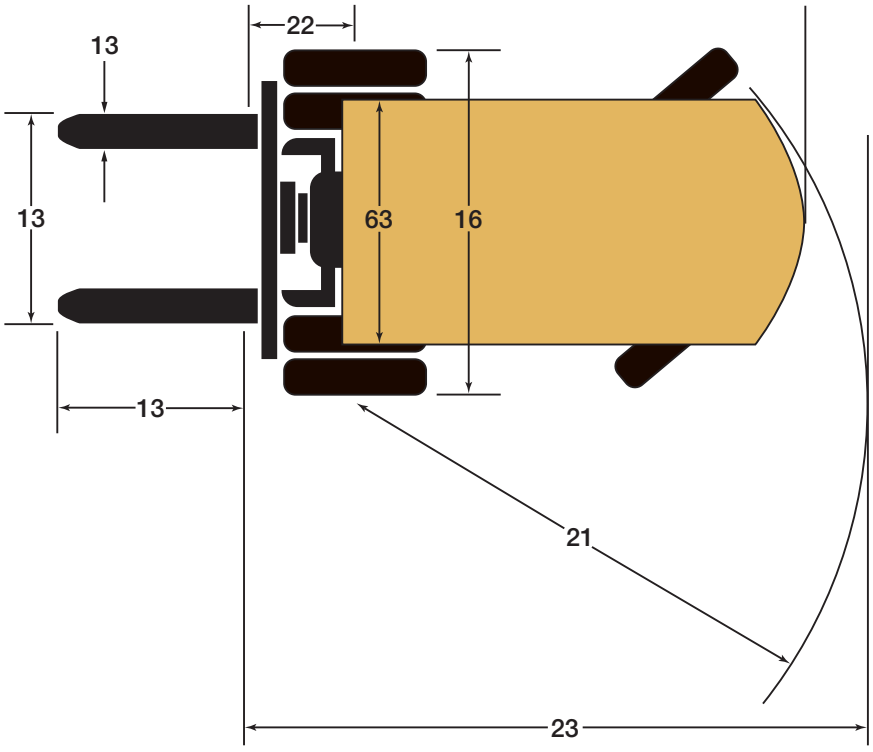
These trucks meet American Society of Mechanical Engineers (ASME) B56.1, part III Safety Standards for powered industrial trucks. UL-Classified by Underwriters Laboratories, Inc., as to fire and electric shock hazard only. Type D Industrial Trucks. Users should be aware of, and adhere to, applicable codes and regulations regarding operator training, use, operation and maintenance of powered industrial trucks, including:

- ASME B56.1, part II.
- NFPA 505, fire safety standard for powered industrial trucks - type designations, areas of use, maintenance and operation.
- Occupational Safety and Health Administration (OSHA) regulations that may apply.

Specifications, equipment, technical data, photos and illustrations based on information at time of printing and subject to change without notice. Some products may be shown with optional equipment.

Call-out numbers shown in diagram correspond to the first column of the specifications chart.





Durability And Support

Cat lift truck dealers put customer needs first, with the most comprehensive customer support programs in the industry.

Unlimited Hours Warranty covers parts and labor for one year, regardless of service hours.

Parts Fast or Parts Free Guarantee ensures next-business-day delivery of parts for all brands of lift trucks or they are free, including freight.

Free Loaner Service Guarantee provides a lift truck until the repair is done if your lift truck is not repaired right the first time and within the quoted time.

Contact your Cat lift truck dealer for complete terms and conditions of these guarantees.

Cat Lift Trucks offers an extensive range of products and services. Your Cat lift truck dealer can provide options and additional visual and audible warning devices geared toward your specific applications and requirements. Operator training programs are also available to boost productivity and to help reduce the potential for product damage and personal injury.

Your Cat lift truck dealer can also provide a variety of financing and leasing options to suit the needs of your business.

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