



CATERPILLAR

V925 Fork Lift Truck

92 500 lb. (42 000 kg) at 48 in (1200 mm) Load Center

ENGINE

Caterpillar model 3208T diesel, eight cylinder, turbocharged direct injection, 90° "V" block. Stellite-faced overhead valves. Two-ring aluminum pistons. Forged crankshaft mounts with five main bearings. Six-lobe oil pump. Multi-plate oil cooler. Sleeve metering fuel injection. Full-range mechanical governor. Emissions controlled by recycling crankcase gases through combustion chambers. Twenty-four volt electrical system. Two Caterpillar 12-volt 92-amp/hour batteries. Ventilated 50-amp alternator. Enclosed, positive-engagement starter. Dual-element air cleaner. Two full-flow, spin-on oil filters. Muffler externally mounted.

Engine Specifications:

Bore	..... 4.5 in.	..... 114 mm
Stroke	..... 5.0 in.	..... 127 mm
Displacement	..... 636 cu. in.	..... 10.4 liters
Net Power @ 2400 rpm	..... 245 hp	..... 182.5 KW
Torque @ 1600 rpm	..... 633 lb. ft.	..... 858 nm
Governed Speed (no load)	..... 2400 rpm	
Crankcase Capacity w/Filter	21 qt.	..... 20 liters
Fuel Tank Capacity	..... 70 gal.	..... 265 liters
Coolant Capacity	..... 13 gal.	..... 42 liters

TRANSMISSION

Planetary power shift with high capacity, single stage, single phase torque converter. Four speeds forward, four reverse. Multiple disc clutches. Planetary gear sets are surrounded by large oil-cooled clutches to permit speed and direction changes under full load.

DRIVE AXLE

Cast steel differential housing. Hardened, full-floating axle shafts and planetary final drives. Positive oil flow to all gears and bearings. Helical cut differential for even spur gear loading. Four-pinion hypoid assembly. U-joints connect transmission and drive axle.

BRAKES

Air-over-oil-actuated multiple oil disc service brakes. Adjustment free and sealed from dirt and moisture. Total brake surface is 9350 in² (60 300 cm²). Brake oil separately filtered and cooled. Separate spring-actuated piston applies service brakes to act as parking brake.

FRAME

Outer frame members formed from 0.6 in. (15 mm) steel. Drive axle bolts to frame. Box beam frame and 15.75 in. (400 mm) thick steel plate form the rear cross member.

INTEGRAL STEER AXLE/COUNTERWEIGHT

Trunnion-mounted rear section oscillates about the main frame. Steer axle has 4 in. (100 mm) thick upper and lower plates supported by a vertical member. Fixed length tie rods.

STEERING SYSTEM

Full hydraulic power steering. Control valve and metering section direct and maintain oil flow to the hydraulic cylinder.

OPERATOR'S COMPARTMENT

Pressurized, ventilated cab. Five-position, adjustable steer column. Full suspension seat adjusts in 0.46 in. (12 mm) increments with total adjustment of 6 in. (156 mm). Adjustable, rotating, pedestal-mounted instrument panel includes: electronic monitoring system with lights to advise the operator of engine cooling temperature, engine oil pressure, air pressure, transmission oil pressure, alternator and parking brake conditions; electronic fuel gauge; mechanical air pressure gauge; and engine hour meter. Twist grip control for transmission; pilot valve-operated controls for lift, tilt and auxiliary functions. Skid-resistant floor plates and steps. Maximum sound level at the operator's ear: 80 dB(A).

MAST

High visibility roller construction with stationary "C" section channel and elevating I-beam members. Twin lift cylinders nest behind and lift chains route in front of mast channels. Leaf-type lift chain.

HYDRAULIC SYSTEM

Transmission-driven, triple section vane pump. Two full-flow filters with replaceable 10-micron cartridges. Sectional control valve with pilot valve-operated controls. Remote pilot pump maintains constant oil pressure to the main control valve.

CARRIAGE

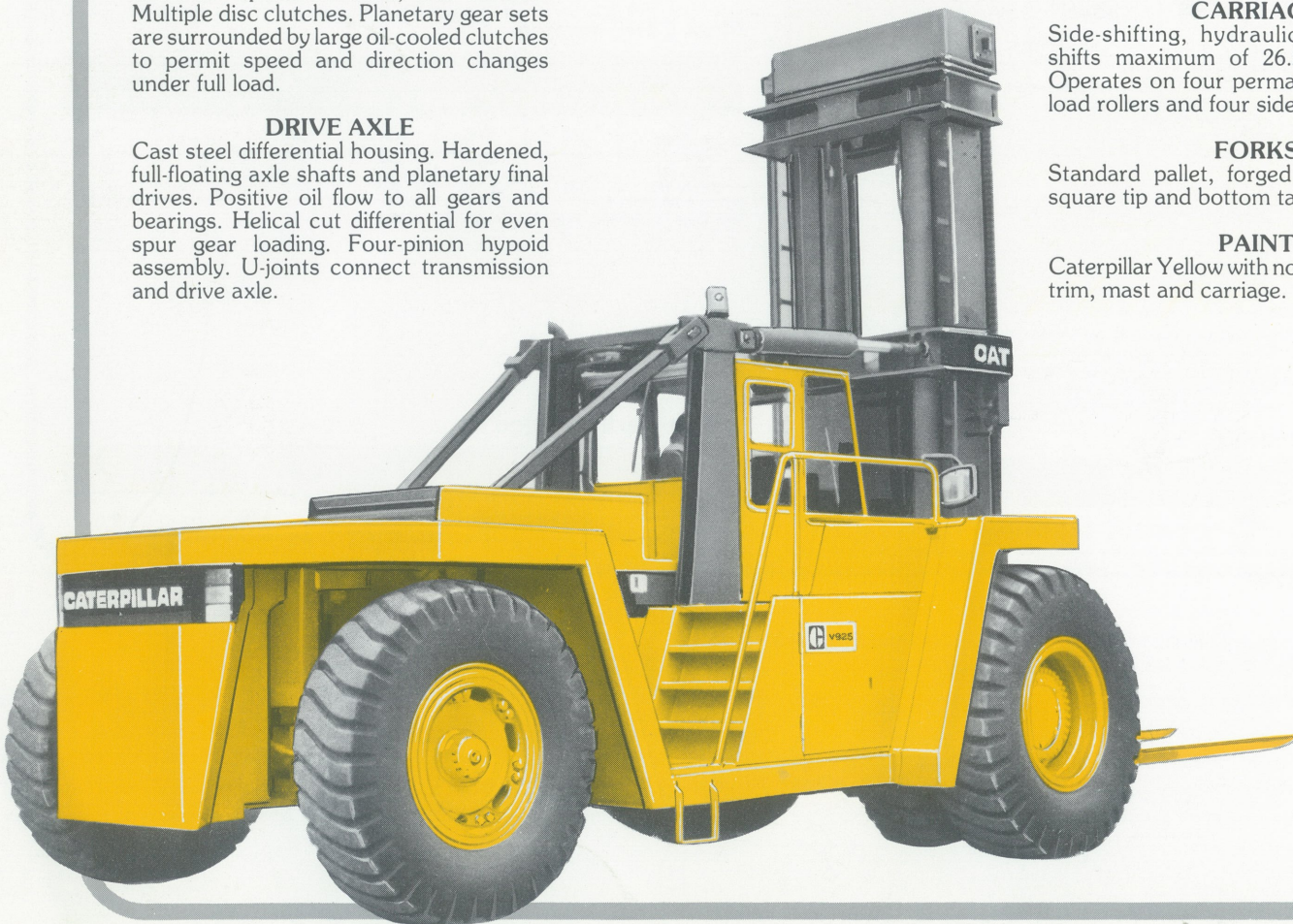
Side-shifting, hydraulic-fork-positioner shifts maximum of 26.2 in. (665 mm). Operates on four permanently lubricated load rollers and four side thrust rollers.

FORKS

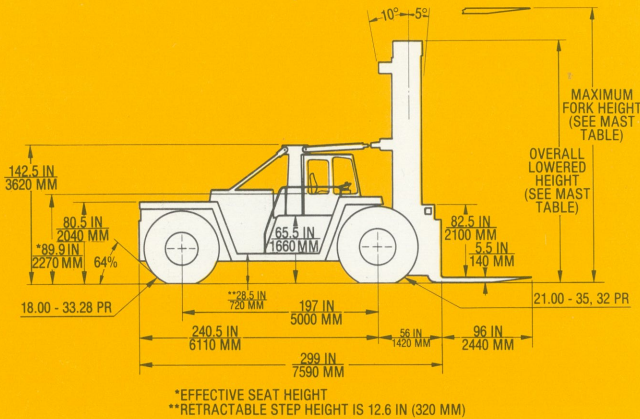
Standard pallet, forged alloy steel with square tip and bottom taper.

PAINT

Caterpillar Yellow with non-reflecting black trim, mast and carriage.



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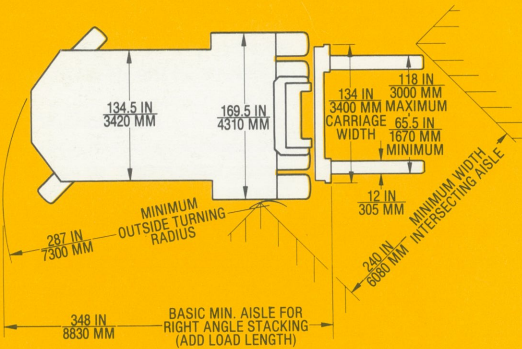
*EFFECTIVE SEAT HEIGHT
**RETRACTABLE STEP HEIGHT IS 12.6 IN (320 MM)

TRUCK UNDERCLEARANCE

MAST — 13.4 IN (340 MM)
DRIVE AXLE — 25.6 IN (650 MM)
CENTER OF TRUCK — 21.6 IN (550 MM)
STEER AXLE — 22.8 IN (580 MM)
COUNTERWEIGHT — 22.8 IN (580 MM)

TRUCK WEIGHT EMPTY

GROSS — 138 850 LB (62 980 KG)
DRIVE — 77 140 LB (34 990 KG)
STEER — 61 710 LB (27 990 KG)



NOTE: Performance specifications shown may vary depending on standard manufacturing tolerances, vehicle condition, types of tires, floor or surface conditions, applications, or operating environment. Specific performance requirements should be discussed with your Caterpillar Lift Truck Dealer. Caterpillar follows a policy of continual product improvement. For this reason, some materials and specifications could change without notice.

Top Travel Speed

	Empty		Loaded	
	mph	km/h	mph	km/h
Forward	13.6	21.9	12.3	19.8
Reverse	15.3	24.6	13.0	21.0

APPROVALS

ANSI — Meets or exceeds American National Standards Institute B56.1 — 1975, Part II, Safety Standards for Powered Industrial Trucks.

Maximum Gradeability & Drawbar Pull

Grade @ Speed		Power Shift	
		English	Metric
Empty (0.9cf)		34.6% @ 1.0 mph	34.6% @ 1.6 km/h
	Loaded	19% @ 1.0 mph	19% @ 1.6 km/h
Drawbar Pull	Empty (0.9cf)	66 630 lb	296 390 N
	Loaded	45 070 lb.	200 480 N

Values based on engine operating under S.A.E. Standard J816b (85°F (29.4°C) and 500 ft (152 m) above sea level).

Maximum Capacity at Various Load Centers

Load Center	lb		kg	
	in	mm		
36	900	92 500	42 000	
38	950	92 500	42 000	
40	1000	92 500	42 000	
42	1050	92 500	42 000	
44	1100	92 500	42 000	
46	1150	92 500	42 000	
48	1200	92 500	42 000	
50	1250	92 100	42 000	
52	1300	90 400	41 350	
54	1350	88 800	40 600	
56	1400	87 200	39 900	
58	1450	85 600	39 200	
60	1500	84 200	38 500	

Capacities are with mast vertical and truck equipped with standard mast through 191 in (4850 mm) and two 5.5 in (140 mm) x 12 in (305 mm) pallet forks with a length not to exceed twice the load center.

Mast Performance

Mast	Maximum Fork Height		Overall Lowered Height		Tilt (Degrees)	
	in	mm	in	mm	fwd	bkd
High Visibility Standard 3000 psi 20 670 kPa	163	4140	191	4850	5	10
	301	7640	260	6600		
	399	10 140	309	7850		

Additional fork heights available. Consult your Dealer.

Lift-Lowering Speed

Condition	Mast	Lift Speed		Lowering Speed	
		fpm	m/s	fpm	m/s
Empty	Standard	40	0.20	60	0.30
Loaded		38	0.19		