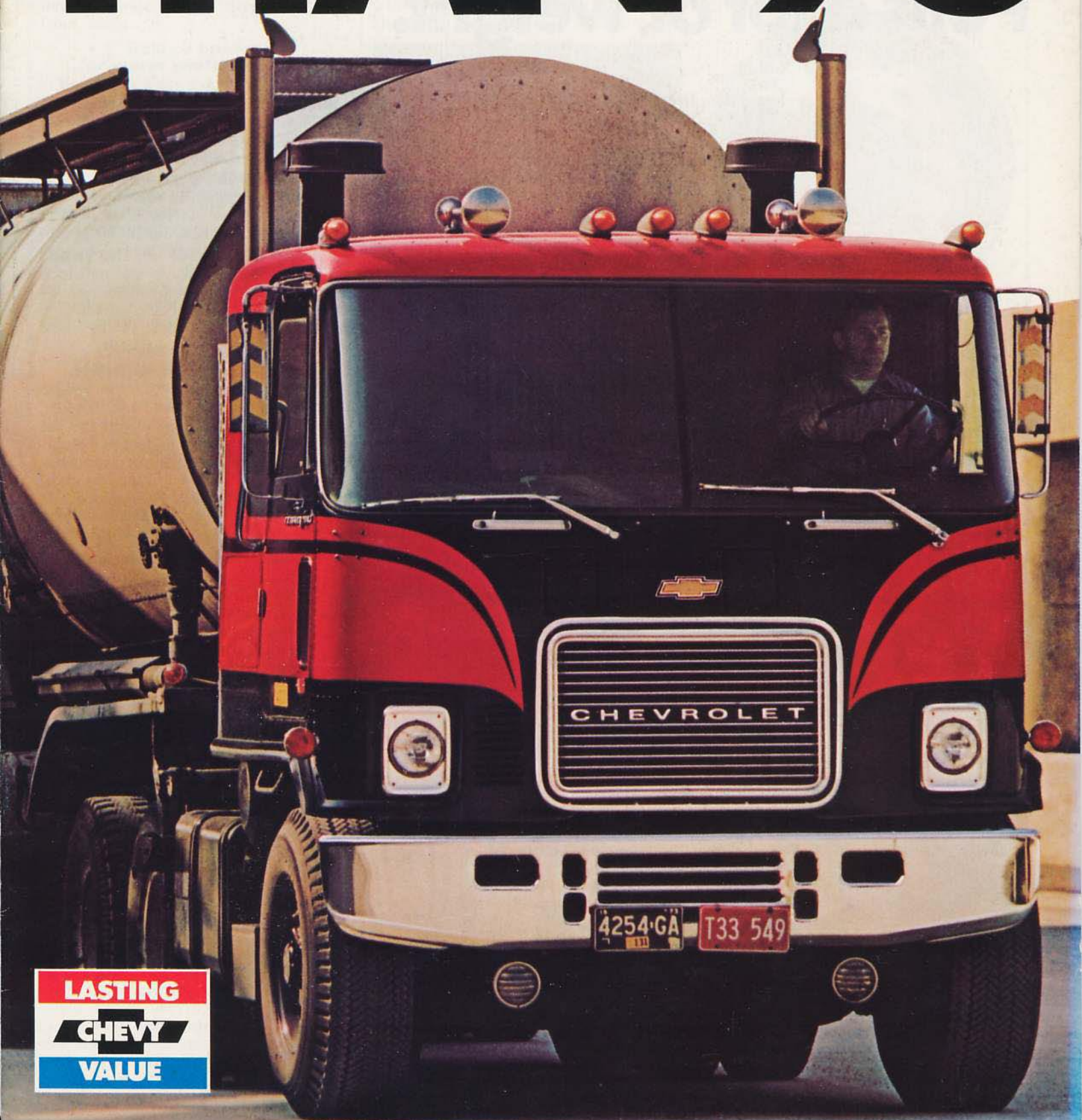


'75 CHEVY

# TITAN 90



**LASTING**  
**CHEVY**  
**VALUE**



# Titan 90. An aluminum tilt cab that packs a lot of convenience. Pulls a lot of weight.



#### **Short BBC, high load capacity.**

Bumper-to-back-of-cab dimension for the basic Titan 90 is only 54 inches. Short BBC delivers excellent maneuverability, allows long loads without exceeding legal length limits. Single or tandem rear axles are available. GCW's range up to 130,000 lbs. with available special equipment.

#### **At home in town or on the road.**

Titan 90 is built for round-the-clock linehaul operations, yet it handles responsibly in city traffic. Power steering is available to help do most of the work while maneuvering at low speeds.

#### **Special Equipment Options.**

You can equip your Titan 90 almost any way you want. Only the most popular factory-installed options are shown in this catalog. More are offered as Special Equipment Options (SEOs): automatic transmissions, fifth wheels, engine brakes, fuel tanks and many others. Ask a Truck Specialist at your Chevrolet dealer's about SEOs available for your vocational needs.

#### **Hydraulic tilting mechanism.**

The Titan 90 tilting mechanism allows the cab to be tilted and stopped in any position from 0 to 78 degrees for good engine access. Velocity valves help protect the cab and mechanic by locking the tilt mechanism in case of pressure loss. Cab is equipped with both mechanical and hydraulic latches. Hydraulic latches provide positive cab locking even when chassis is not level. Mechanic stands right up to his work.

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General Motors Corporation



**LASTING**

**CHEVY**

**VALUE**

**Big, roomy sleeper cabs available.**

Full-width sleeper versions are available for the Titan 90 in three sizes: 24", 32" and 36" wide by 88" long. All are fully insulated, acoustically and thermally, for comfort. Ventilation is supplied by Gram-White two-way screen ventilators. Air conditioning with separate duct work is available.

Twin tool and baggage compartments in sleeper cab models measure 37½" long, 15" wide and 30" deep. They lock from inside.

**Deluxe heater for warm winter comfort.**

Heater provides cab comfort even in extremely low temperatures. A separate heater is included with sleeper models for complete bunk comfort. Integral air-conditioning system is available.

**Tough all-steel doors engineered to fit snugly.**

Titan 90 doors are all-steel construction with rounded corners. Interior panels are trimmed with vinyl and equipped with a tough, resilient grab handle. Steel door perimeter frames help maintain fit and alignment. Pushbutton door latch is at easy-reaching height.

**Detroit and Cummins diesels available.**

Order from four- and two-cycle engines with eleven ratings ranging from 201 to 390 S.A.E. net hp.

**Full selection of transmissions.**

Available transmissions include Fuller 10-speed direct or Spicer 5-speed direct, as well as a Fuller 13-speed direct or overdrive.

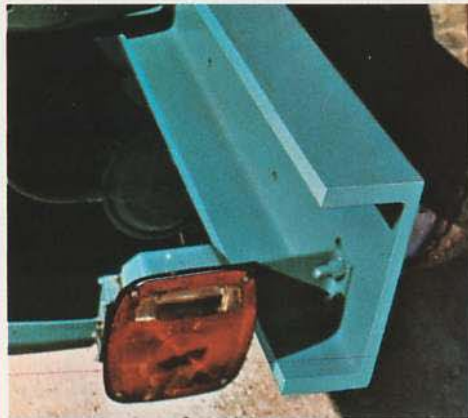
**Positive clutch action.**

Dual-disc 14-inch Lipe clutch is standard with all engines except 12V-71 and NTC350, which use dual-disc 15½-inch. Spicer 14-inch or 15½-inch dual-disc clutches are available. Full mechanical linkage system affords built-in leverage. Ball joint connectors provide automatic readjustment. Clutch remains connected with cab in tilted position.

**Titan-Lite helps keep weight down.**

Titan-Lite's road-ready weight can be less than 9,875 lbs. (single axle) and 14,500 lbs. (tandem axle). With a short 54" bumper-to-back-of-cab dimension, you can pull 28-ft. doubles and stay within a 65-ft. overall length.

Lightweight, high-strength aluminum is used in the frame rails, battery box, clutch housing, shift tower, muffler supports, axle hubs and engine mounts, as well as other tractor parts. The cab is almost entirely aluminum construction.



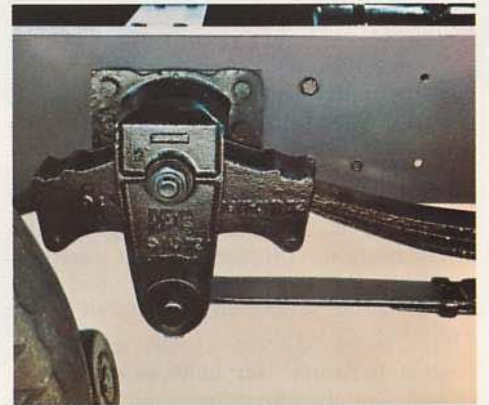
**Aluminum frame rails.** To make the chassis strong, light and easy to maintain, the Titan-Lite is built with aluminum frame rails.



**Lightweight wheels.** Strong, polished aluminum disc front wheels are available on the Titan-Lite, along with high-tensile steel rear wheels.



**Aluminum fuel tanks.** Dual 75-gallon fuel tanks and brackets are available. They meet ICC specifications.

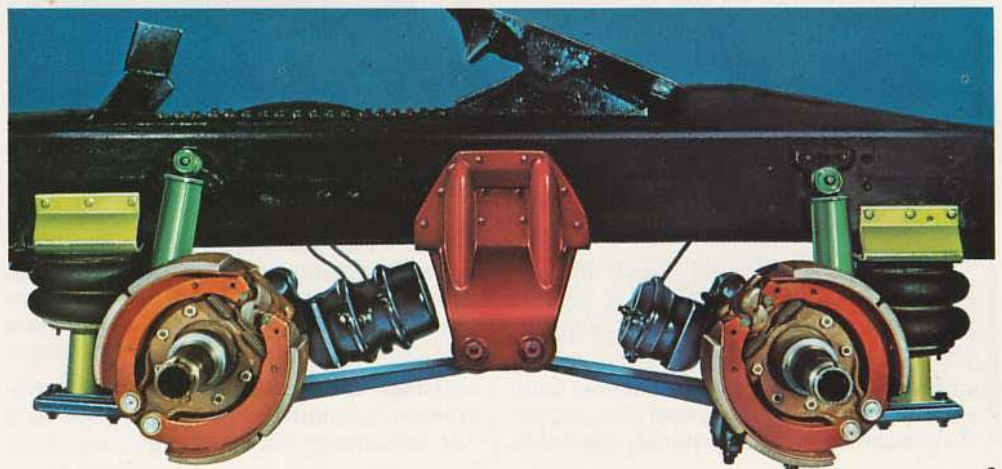


**Reyco 101 tandem suspension.** The weight-saving steel leaf-spring Reyco 101 tandem suspension, rated at 34,000 pounds, is available.



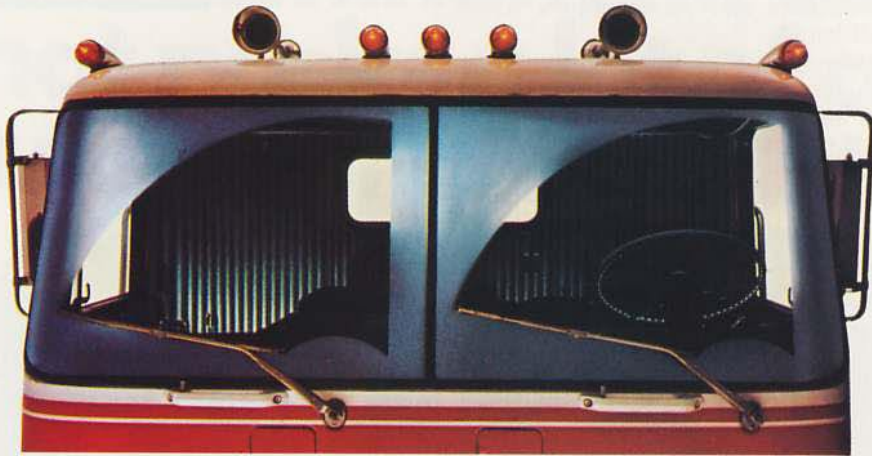
**Titan-Aire suspension available to smooth ride for driver and cargo.**

Titan-Aire suspension offers a smooth, firm ride and easy servicing. Rated at 34,000-lb. capacity. Axle spacing is a standard 50" between centerlines. Air bellows carry the load, while a leveling valve automatically maintains vehicle height under varying weights. Heavy torque bars help control roll and sway and also function as springs to reduce road shock. Double-acting shock absorbers at each wheel are standard.





# Titan 90 features that offer wor



**One of the best views of the road you can find.** Titan 90 visibility advantages start with one of the biggest windshields in the industry. Twenty-six-inch wiper blades provide one of the largest wiped windshield areas available. Power is supplied by dual air wiper motors with individual controls. Specially contoured pillars provide support. Right-hand sighting window in the lower door panel allows driver to see pedestrians and low-profile vehicles. 9" x 14" Mono-Arm mirrors are standard; West Coast mirrors available.

**Dependable, responsive steering.** Recirculating ball steering gear plus a 21" diameter steering wheel combine to reduce steering effort significantly. Steering column tilts to accommodate driver's build and preference. Overall steering gear ratio is 28.14 to 1. Sharp turning angle permits completing tight turns in one pass. Power steering is included with the available 18,000-lb. front axle or is available separately.

**Remote starter for convenient maintenance.** Start button, conveniently located on chassis, allows mechanic to crank engine when cab is tilted.

**Circuit breaker electrical protection.** Circuit protection is provided by a master circuit breaker which can be reset from driver compartment.

**Special protection for wiring.** Heat-resistant thermosetting plastic insulation helps protect wiring from damage by heat, fuel, oil and grease.

**Reinforced nylon chassis plumbing.** All major chassis plumbing is reinforced nylon; wire-braided hose is available.

**Alinabal® throttle and clutch linkage.** Alinabal aircraft-type linkage is used on throttle and clutch linkage for long life and low maintenance.

**Aluminum body panels.** They're lightweight and easily removed for repair. Replacement parts are quickly available.

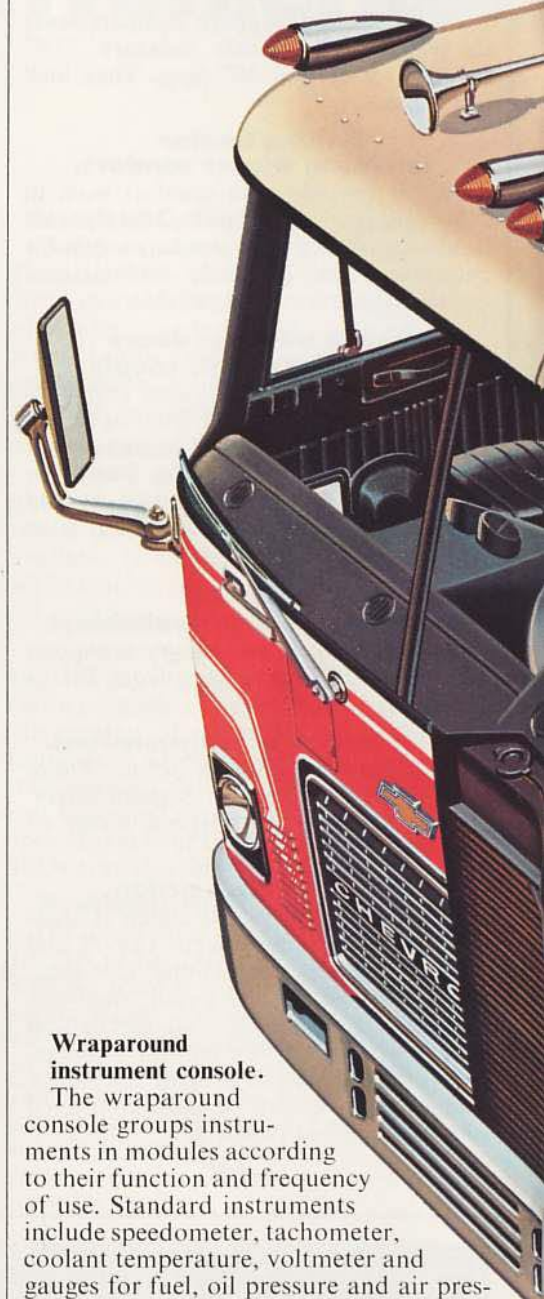
**Cab insulation six layers thick.** Titan 90 cab roof and walls are fully insulated to help block out noise and keep cab at comfortable temperatures even under weather extremes. The visible surface is black embossed vinyl. Beneath that is an expanded foam interlayer that provides protective padding as well as a thermal and acoustical barrier. A still deeper hardboard interliner is an effective heat control barrier. One-quarter-inch Tufflex® serves as acoustical and thermal insulation, while polyethylene interleaf below provides additional heat and moisture control. Under it all are 1/2" Tufflex panels in flush contact with metal surfaces. Special acoustical insulation package is available for even lower interior noise levels.

**Wide selection of seats.** Bostrom® and National Cush-N-Aire® driver seats and companion seats are available.



**Twin access doors for easy servicing.** Front service access panels allow checking and topping off of lubricant and coolant as needed with the cab in the down position. Radiator sight glass facilitates fast checks of coolant level.

**Tough cab foundation.** All-welded aluminum cab underbody forms foundation for cab strength and rigidity.



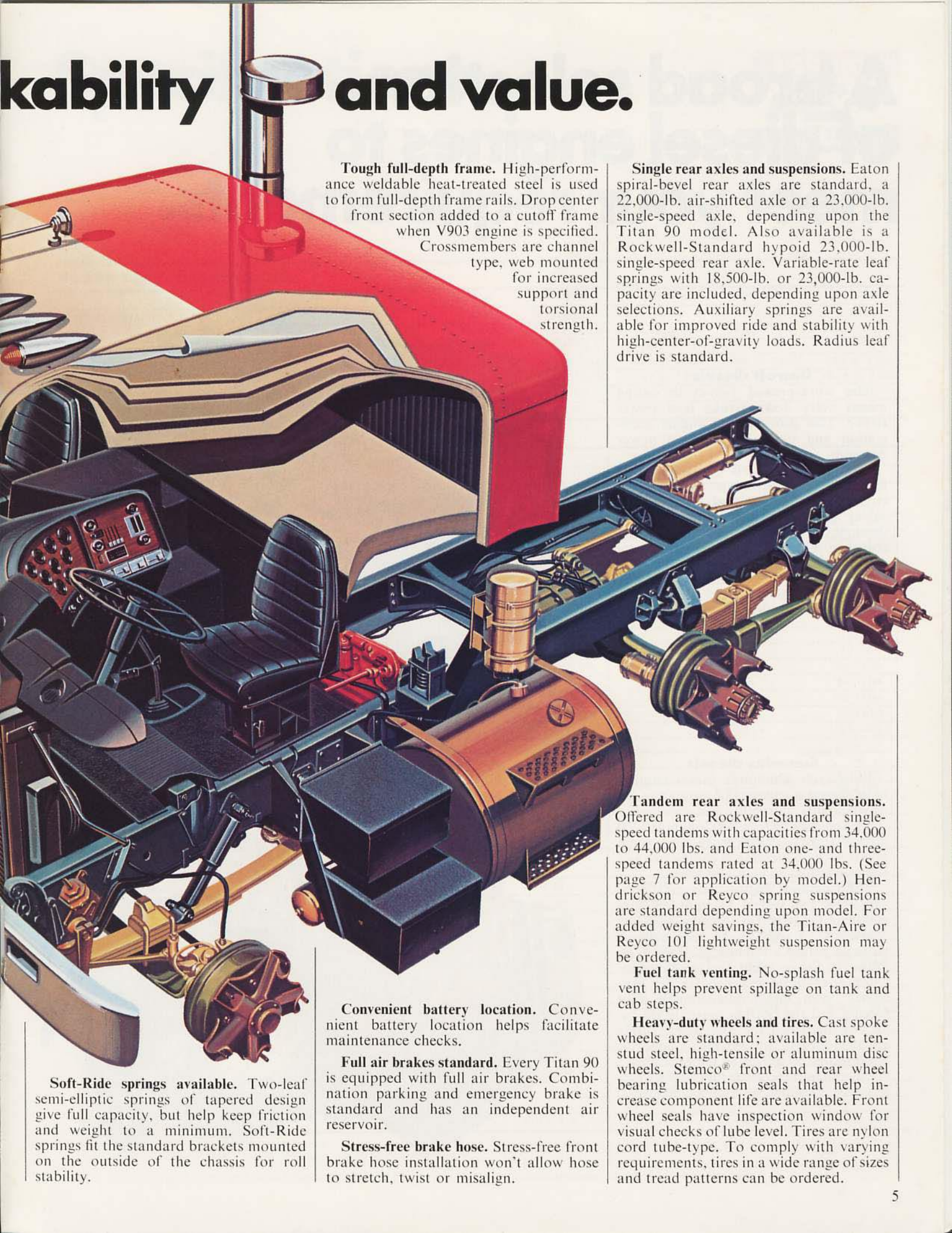
## Wraparound instrument console.

The wraparound console groups instruments in modules according to their function and frequency of use. Standard instruments include speedometer, tachometer, coolant temperature, voltmeter and gauges for fuel, oil pressure and air pressure. All are easily removed for service. Wires are color-coded for quick identification. Warning lights and buzzers indicate low air pressure, low oil pressure, high coolant temperatures and low coolant level.

**Front axles and suspensions.** Wide-track 12,000-lb. I-beam front axle is standard. Also available is an 18,000-lb. front axle on selected models. Four-inch-wide front springs provide a smooth, stable ride. One-and-three-quarter-inch-diameter double-acting shock absorbers are standard for improved ride.



# kability and value.



**Tough full-depth frame.** High-performance weldable heat-treated steel is used to form full-depth frame rails. Drop center front section added to a cutoff frame when V903 engine is specified. Crossmembers are channel type, web mounted for increased support and torsional strength.

**Single rear axles and suspensions.** Eaton spiral-bevel rear axles are standard, a 22,000-lb. air-shifted axle or a 23,000-lb. single-speed axle, depending upon the Titan 90 model. Also available is a Rockwell-Standard hypoid 23,000-lb. single-speed rear axle. Variable-rate leaf springs with 18,500-lb. or 23,000-lb. capacity are included, depending upon axle selections. Auxiliary springs are available for improved ride and stability with high-center-of-gravity loads. Radius leaf drive is standard.

**Tandem rear axles and suspensions.** Offered are Rockwell-Standard single-speed tandems with capacities from 34,000 to 44,000 lbs. and Eaton one- and three-speed tandems rated at 34,000 lbs. (See page 7 for application by model.) Hendrickson or Reyco spring suspensions are standard depending upon model. For added weight savings, the Titan-Aire or Reyco 101 lightweight suspension may be ordered.

**Fuel tank venting.** No-splash fuel tank vent helps prevent spillage on tank and cab steps.

**Heavy-duty wheels and tires.** Cast spoke wheels are standard; available are ten-stud steel, high-tensile or aluminum disc wheels. Stemco® front and rear wheel bearing lubrication seals that help increase component life are available. Front wheel seals have inspection window for visual checks of lube level. Tires are nylon cord tube-type. To comply with varying requirements, tires in a wide range of sizes and tread patterns can be ordered.

**Convenient battery location.** Convenient battery location helps facilitate maintenance checks.

**Full air brakes standard.** Every Titan 90 is equipped with full air brakes. Combination parking and emergency brake is standard and has an independent air reservoir.

**Stress-free brake hose.** Stress-free front brake hose installation won't allow hose to stretch, twist or misalign.

**Soft-Ride springs available.** Two-leaf semi-elliptic springs of tapered design give full capacity, but help keep friction and weight to a minimum. Soft-Ride springs fit the standard brackets mounted on the outside of the chassis for roll stability.

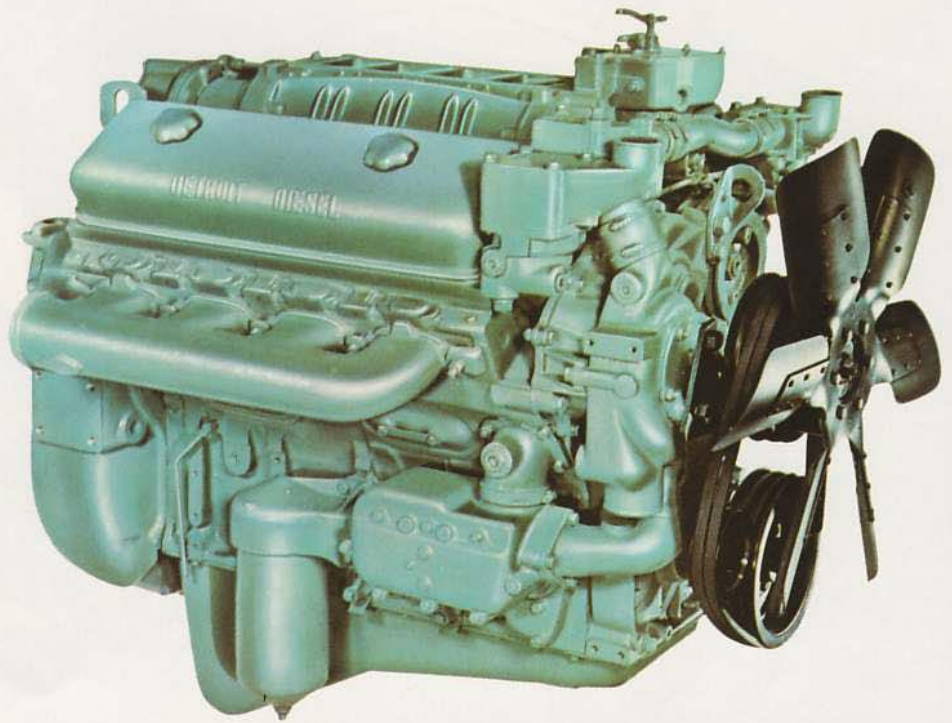


# A broad selection of diesel engines to meet your requirements.

## **Detroit diesels**

The work-proved two-cycle design means every down stroke is a power stroke. This provides fast engine acceleration and quick response to power demands.

Emphasis is placed on free engine breathing. A Roots-type blower, full-circle intake porting and four exhaust valves at each cylinder give straight-through scavenging of exhaust gases and complete filling of cylinders with air on each stroke. Unit injectors meter and pressurize the fuel accurately for the downward power stroke. Turbochargers are available on selected engines.



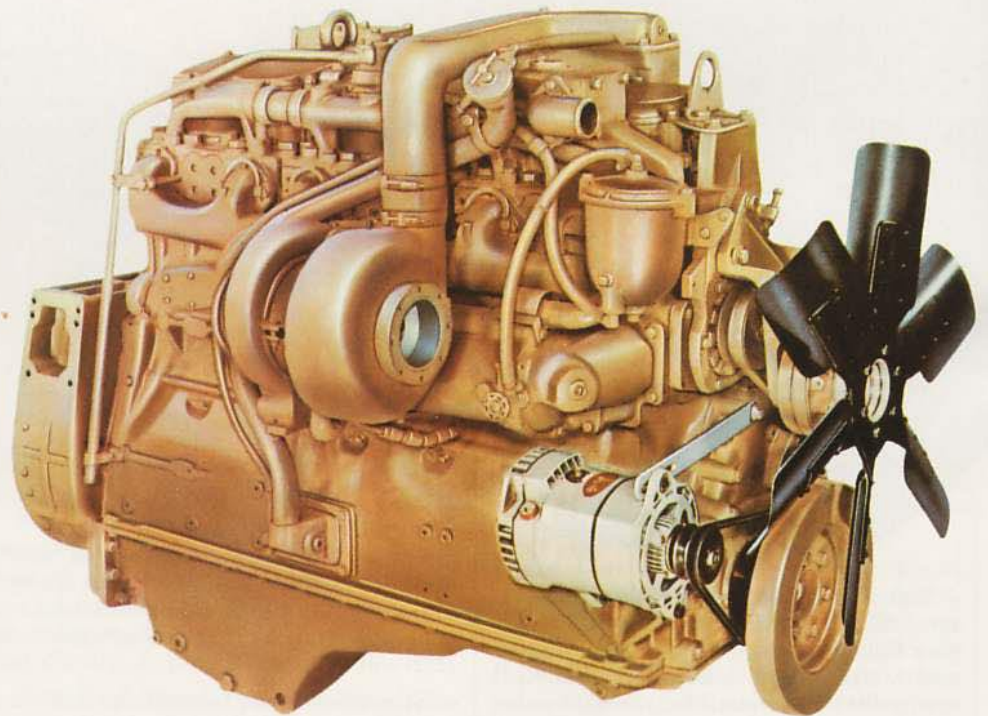
## **Cummins diesels**

Four-cycle Cummins diesel engines have earned a widespread reputation for dependability, durability and economy.

Two engines feature the Cummins T-50 turbocharger to deliver more operational power with no increase in engine size and less power loss at high altitudes.

The Cummins engine features a pressure-timed fuel system. Internal fuel lines eliminate the need for threaded fuel line connectors. Large intake and exhaust passages permit a full charge of air to be drawn in for excellent fuel combustion. Counterweighted crankshafts are machined from high-tensile-strength steel forging and the bearing journals are induction hardened for long life. Pistons are cam-ground to provide a good fit when heated to operating temperatures.

Custom horsepower rating permits fuel economy consistent with job requirements.





# Specifications



## Detroit Diesel Specifications

	6-71N	6-71N	8V-71NE	8V-71N	8V-71N	12V-71N
DISPLACEMENT (CU. IN.)	425.6	425.6	567.5	567.5	567.5	851
BORE & STROKE (IN.)	4.25 X 5.0	4.25 X 5.0	4.25 X 5.0	4.25 X 5.0	4.25 X 5.0	4.25 X 5.0
COMPRESSION RATIO	18.7 TO 1	18.7 TO 1	18.7 TO 1	18.7 TO 1	18.7 TO 1	18.7 TO 1
SAE NET HORSEPOWER @ RPM	201 @ 2100	219 @ 2100	242 @ 1950	265 @ 2100	289 @ 2100	390 @ 2100
SAE NET TORQUE (LBS.-FT.) @ RPM	552 @ 1200	600 @ 1600	696 @ 1200	732 @ 1200	758 @ 1600	1078 @ 1200
GOVERNED ENGINE SPEED (RPM)	2100	2100	1950	2100	2100	2100
INJECTOR MODEL	C/60	C/65	C/55	C/60	C/65	C/60

## Cummins Diesel Specifications

	NTC-290	NTC-335	V903
DISPLACEMENT (CU. IN.)	855	855	903
BORE & STROKE (IN.)	5.50 X 6.0	5.50 X 6.0	5.5 X 4.75
COMPRESSION RATIO	14.3 TO 1	14.1 TO 1	16.5 TO 1
SAE NET HORSEPOWER @ RPM	255 @ 2100	319 @ 2100	285 @ 2600
SAE NET TORQUE (LBS.-FT.) @ RPM	821 @ 1350	890 @ 1600	685 @ 1800
GOVERNED ENGINE SPEED (RPM)	2100	2100	2600

## Specifications/Tilt Cab Titan 90—Single Axle Models

		FI90	FC90	FH90
MAXIMUM GVW (LBS.)		33,560	33,560	33,560
MAXIMUM GCW (LBS.)		76,800	76,800	76,800
FRONT AXLE (LBS.)	STANDARD	12,000	12,000	12,000
ENGINES, DIESEL:	STANDARD	6-71N■	NTC-290	8V-71N●
	AVAILABLE	6-71N▲	NTC-335	8V-71N■
	AVAILABLE	—	—	8V-71N▲
*TRANSMISSIONS, MAIN: (MAKE & MODEL NO.)	STANDARD	S-6852S	F-RT910	F-RT910
	AVAILABLE	S-7452E	F-RT09513	F-RT09513
	AVAILABLE	F-RT910	—	—
	AVAILABLE	F-RT09513	—	—
*REAR AXLE, SINGLE: (MAKE & MODEL NO.)	STANDARD	E-18221	E-19121	E-19121
	AVAILABLE	E-19121	R-R170	R-R170
	AVAILABLE	E-19221	—	—
	AVAILABLE	R-R170	—	—
BRAKES: (TYPE)	STANDARD	FULL AIR	FULL AIR	FULL AIR

## Specifications/Tilt Cab Titan 90—Tandem Axle Models

		DI90	DC90	DH90	DB90	DP90
MAXIMUM GVW (LBS.)		45,560	50,580	50,580	45,560	50,580
MAXIMUM GCW (LBS.)		76,800	76,800	76,800	76,800	76,800
FRONT AXLES (LBS.)	STANDARD	12,000	12,000	12,000	12,000	12,000
	AVAILABLE	—	18,000	18,000	—	—
ENGINES, DIESEL: (MODEL NO.)	STANDARD	6-71N■	NTC-290	8V-71N●	V903	12V-71N■
	AVAILABLE	6-71N▲	NTC-335	8V-71N■	—	—
	AVAILABLE	—	—	8V-71N▲	—	—
*TRANSMISSIONS, MAIN: (MAKE & MODEL NO.)	STANDARD	S-7352B	F-RT910	F-RT910	F-RT9513	F-RT012513
	AVAILABLE	F-RT910	F-RT09513	F-RT09513	—	—
	AVAILABLE	—	—	—	—	—
*REAR AXLES, TANDEM: (MAKE & MODEL NO.)	STANDARD	E-34D3	R-SLHD	R-SLHD	R-SLHD	R-SQHD
	AVAILABLE	R-SLHD	R-SQHD	E-34DS	—	—
	AVAILABLE	—	—	R-SQHD	—	—
	AVAILABLE	—	—	R-SSHHD	—	—
BRAKES: (TYPE)	STANDARD	FULL AIR	FULL AIR	FULL AIR	FULL AIR	FULL AIR

E—Eaton; F—Fuller; R—Rockwell; S—Spicer

●With 55mm injectors ■With 60mm injectors ▲With 65mm injectors

\*For Capacity and Number of Forward Speeds, See Back Cover Chart—"Axle and Transmission Codes for Titan 90 Models."



# Specifications

## Axle and Transmission Codes for Titan 90 Models

SINGLE REAR AXLES			TANDEM REAR AXLES		
MAKE & MODEL	CAPACITY (LBS.)	NO. OF SPEEDS	MAKE & MODEL	CAPACITY (LBS.)	NO. OF SPEEDS
E-18221	22,000	2	E-34DS	34,000	1
E-19121	23,000	1	R-SLHD	34,000	1
R-R170	23,000	1	E-34D3	34,000	3
E-19221	23,000	2	R-SQHD	38,000	1
—	—	—	R-SSHD	44,000	1

MAIN TRANSMISSIONS					
MAKE	MODEL	NO. OF SPEEDS	MAKE	MODEL	NO. OF SPEEDS
SPICER	6000	5	FULLER	RT09513	13
SPICER	7000	5	FULLER	RT012513	13
FULLER	RT910	10	FULLER	RT9513	13

E—Eaton R—Rockwell

## Dimensions Titan 90 Models (Inches)

SINGLE AXLE MODELS				
SERIES	WB	CA*	CE*	OL
FH9143	110	84	132	186
FI, FC, FH9153	118	92	140	194
FI, FC, FH9173	130	104	164	218
FI, FC, FH9193	142	116	176	230

TANDEM AXLE MODELS				
SERIES	WB	CA*	CE*	OL
DB9193	142	84	169	255
DI, DH9193	142	116	201	255
DI, DC, DH, DP9203	150	124	201	255
DC, DH9233	165	139	201	255
DC, DH9283	195	169	254	308

\*Dimensions reduced by 20" with 74" Sleeper Cab and by 32" with 86" Sleeper Cab.

WB—Wheelbase; CA—Cab-to-center-of-axle; CE—Cab-to-end-of-frame; OL—Overall length.



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A network of Chevrolet heavy-duty dealers throughout the country now offers special facilities for accommodating the needs of heavy-duty truckers.

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