

Vibratory Roller

Choice of smooth or padfoot version

Hydrostatic drum and axle drive for maximum gradeability

Field interchangeable smooth, rubber-coated and padfoot drums

602B



case

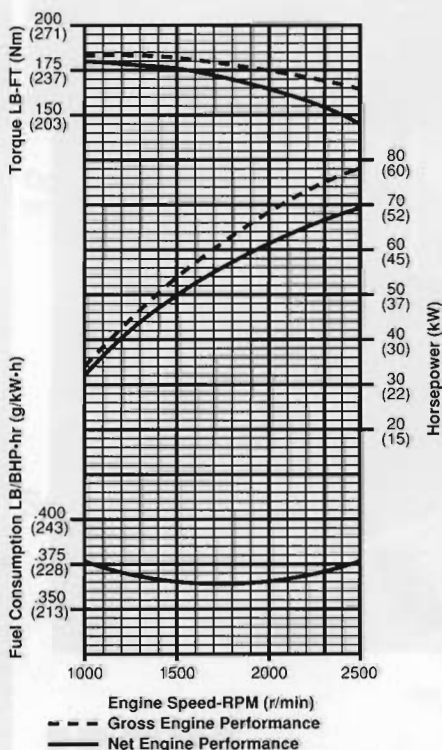
602B

Model 602B Specifications

Engine

Make and model **Case 4-390**
 Type of fuel No. 2 diesel
 No. of cylinders 4
 Bore and stroke 4.02" x 4.72"
 (102 mm x 120 mm)
 Displacement 239 in³ (3917 cm³)
 Compression ratio 17.0 to 1
 Fuel induction Naturally aspirated
 Fuel supply Mechanical lift pump
 and rotary injection pump
 Fuel consumption 2.9 gph (11 L/h)
 Air cleaner Dry cartridge
 plus safety element
 Oil filter Full flow spin-on cartridge,
 Lubrication Pressurized with
 piston oil cooling
 Cooling system 15 psi (103 kPa)
 Engine gradeability 35°
 Horsepower
 (1) Gross 78 @ 2500 rpm
 (58 kW @ 2500 r/min)
 (2) SAE Net 69 @ 2500 rpm
 (51.5 kW @ 2500 r/min)
 Max. torque ft-lb
 (1) Gross 186 @ 1200 rpm
 (252 Nm @ 1200 r/min)
 (2) SAE Net 181 @ 1200 rpm
 (245 Nm @ 1200 r/min)
 (1) Gross engine horsepower or torque at flywheel
 per SAE Standard J1349.
 (2) Net engine horsepower or torque at flywheel
 per SAE Standard J1349.

Power Curve



Electrical

System voltage 12
 Battery (1) 420 cold cranking amps
 Alternator 65 amp

Ground Drive System

Variable displacement piston pump with two displacement motors on axle. Fixed displacement motor on the 602BD drum. Flow divider between drum and axle motor on 602BPD.

Brakes

Operating ... Hydrostatic braking in neutral position of ground drive pump with engine running.
 Parking ... Hand operated mechanical drum type with warning light and audible alarm.

Axle

Outboard planetary axle mounted to frame. Differential lock engaged with push-button control, locks both drive wheels for added traction. Lock engages in straight ahead position with lock indicator light on.

Tires

	Size	Ply	Tread
602BD	13.6x28	6	Diamond
602BPD	13.6x28	6	Traction lug
Option with sprinkler kit	14.00Rx24	—	Smooth

Steering

Articulated design with hydraulic power steering. Steering control can be adjusted to either side on slide rail.
 Relief valve setting 2320 psi
 (16 000 kPa)
 Steering cylinders
 2.5" bore x 7.4" stroke, 1.4" rod
 (64 mm bore x 188 mm stroke, 36 mm rod)

Hydraulic System

Hydraulic pump:
 Capacity:
 ground drive 37 gpm (140 L/min)
 vibrator drive 18.5 gpm (70 L/min)
 steering drive 9.2 gpm (35 L/min)
 Relief setting:
 ground drive ... 6528 psi (45 009 kPa)
 vibrator drive ... 6528 psi (45 009 kPa)
 steering drive ... 2901 psi (20 002 kPa)

Filtration Full-flow cartridge —
 10 micron rating
 Hydraulic lines Steel tubing with
 brazed or flared fittings and wire braid,
 high pressure hose with crimped full
 flow fittings.

Filters

Engine oil spin-on cartridge
 Fuel spin-on cartridge
 Hydraulic replaceable cartridge
 Air dual replaceable elements

Service Capacities

	U.S. Gal.	Liters
Fuel tank	50.2	190
Engine oil	11.5 qt	11
Hydraulic reservoir	11	42
Hydraulic system	16.3	62
Planetaries (each)	1.1 qt	1
Cooling system	5.2	19.7
Sprinkler tank (optional)—		
Drum	132	500
Tires	15.8	60

602BD

Working range —
 forward/reverse 0-4.3 mph
 (0-6.9 km/h)

Transport range —
 forward/reverse 0-6.8 mph
 (0-11 km/h)

602 BPD

Working range —
 forward/reverse 0-3.6 mph
 (0-5.8 km/h)

Travel range —
 forward/reverse 0-7.2 mph
 (0-11.6 km/h)

Indicator Lights and Gauges

Engine temperature gauge • Fuel gauge •
 Hourmeter • Pushbutton control for: horn, low-
 high range, low-high frequency, differential
 lock with indicator light, and flow divider •
 Warning indicator lights for: alternator charge,
 engine oil pressure, and neutral start.

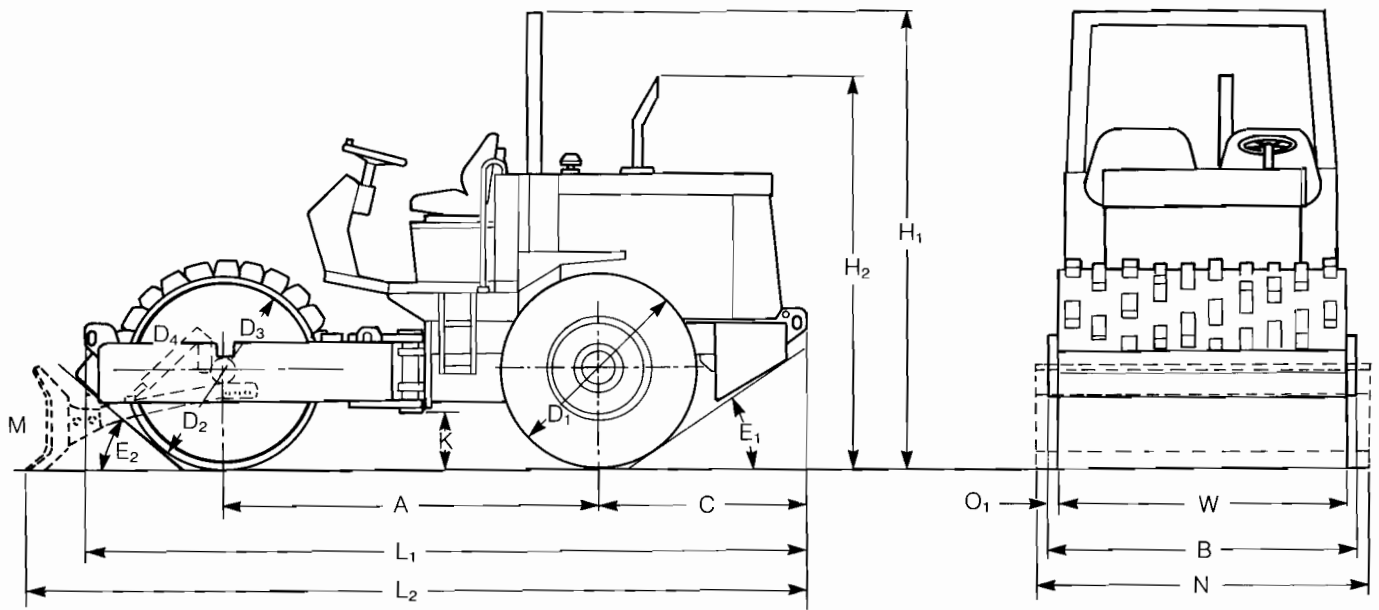
Standard Equipment

Differential lock • Engine side covers •
 Hourmeter • Instrument panel cover •
 Lockable fuel cap • Lock-up kit • ROPS with
 seat belt.

Optional Equipment

All weather cab • Asphalt sprinkler kit for
 602BD • Automatic vibration shut-off • Back-
 up alarm • Cold start kit • FOPS • Front and
 rear lights • Interchangeable drums • Speed
 limiter • Speedometer • Strike off blade for
 602BPD version — blade width 84" (2134
 mm); blade height 20.7" (526 mm).

602BD/602BPD Dimensional Data



	A	B	C	D ₁	D ₂	D ₃	D ₄	H ₁	H ₂	K	L ₁	L ₂	O ₁	W	E ₁	E ₂	M	N
in	90.9	73.2	49.6	50.4	48	43.3	51.2	110.9	93.7	15	173.4	183.9	2.2	68.9	30°	40°	20.7	84
mm	2310	1860	1260	1280	1220	1100	1300	2817	2380	381	4405	4670	55	1750			526	2134

Operating Data

	602BD	602BPD
Operating weight	14,109 lb (6400 kg)	14,548 lb (6600 kg)
Drum weight (unsprung)	4652 lb (2110 kg)	5092 lb (2310 kg)
Weight distribution — front	7341 lb (3330 kg)	7782 lb (3530 kg)
rear	6768 lb (3070 kg)	6766 lb (3070 kg)
Static applied linear drum force (P.L.I.)	106 lb/in (18.7 kg/cm)	—
Articulation	28°	28°
Oscillation	15°	15°
Turning radius — inside	12'5" (3.8 m)	12'5" (3.8 m)
Drum thickness	1.0" (25.4 mm)	1.0" (25.4 mm)
Number of feet	—	100
Height of foot	—	3.9" (100 mm)
Contact area of foot	—	46.5 in ² (300 cm ²)
Max. depth of compaction	27" (686 mm)	27" (686 mm)
Frequency 1st	1740 VPM (29 Hz)	1740 VPM (29 Hz)
2nd	2160 VPM (36 Hz)	—
Centrifugal force 1st	24,278 lbf (108 kN)	26,526 lbf (118 kN)
2nd	17,984 lbf (80 kN)	—
Centrifugal force/ rolling width (P.L.I.) 1st	352 lb/in (617 Ncm)	—
2nd	261 lb/in (452 Ncm)	—
Amplitude (nominal) 1st	0.057" (1.45 mm)	0.065" (1.65 mm)
2nd	0.021" (0.53 mm)	—
Total applied force 1st	31,636 lbf (140 kN)	34,327 lbf (152 kN)
2nd	25,337 lbf (113 kN)	—
Total applied linear force 1st	458 lb/in (803 Ncm)	498 lb/in (868 Ncm)
2nd	367 lb/in (643 Ncm)	—

Model 602BD/602BPD



Dual operator seats for optimal operator comfort and visibility.



Adjustable steering control for operator convenience.



Optional front and rear lights for night time operation.



Sold and serviced by:

Note: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

Important
J I Case Company reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Unit illustrated is equipped with non-standard items.

J I Case
A Tenneco Company
700 State Street, Racine, WI 53404 U.S.A.

