



4500B
Loader



NOT JUST ANOTHER LOADER

SPECIFICATIONS

ENGINE

Make & Model	Continental TME27	Cummins B3.3
Cu. In. (liters).....	164 (2.7)	199 (3.3)
No. of Cylinders	4	4
Fuel	Gas or LPG	Diesel
Cooling System.....	Liquid	Liquid
Net HP @ 2500 RPM (kilowatts)	58 (43.2)	60 (44.7)
Air Cleaner	Two element dry type with pre-cleaner	
Electrical System.....	12 Volt system protected by fused breakers One battery - BCI group size 31, cold cranking, 625 AMPS @ 0° F (-18° C)	
Governor Type.....	Gasoline - Electronic Diesel - Diesel injection pump control	

HYDRAULIC SYSTEM

Lift Cylinders, Bore & Strokes.....	2.5 in. x 25.25 in. (63.5 x 641.33 mm)
Bucket Cylinder, Bore & Stroke	4 in. x 8 in. (101.6 x 203.2 mm)
Pump Description	Vane type
Steering, Boom, Bucket Pump Capacity	14.5 GPM (54.9 lit./min) @ 2250 RPM
Priority Flow to Steering	4 GPM (15.9 lit./min)
Control Valve.....	Standard - 3 spool sectional open center
Auxiliary Hydraulics	Standard 3rd valve for additional unitractor attachments Power beyond hydraulics available
Filtration.....	10 micron spin-on
Relief Valve Setting	Drive train - 1950 PSI (13435.5 kPa) Boom and bucket - 1900 PSI (13098 kPa) Steering - 1800 PSI (12409 kPa)
Hydraulic Cycle Time @ 2250 RPM, Standard Bucket:	
Raise.....	6.0 seconds
Bucket Dump	1.5 seconds
Bucket Rollback	2.0 seconds
Lower.....	2.5 seconds
Total Cycle	12.0 seconds

AXLES & HUBS

Type	Front and rear full floating Dana Model 60 axle
Description.....	Automotive type differential axles and wheel hub
Torque Increase	6.17 Ratio
Static Load Rating.....	5500 lbs.
Axle Oscillation	20°

TRANSMISSION

Type	Low pressure, hydraulic 4-wheel drive with 2 speeds, forward and reverse
Control	Hand lever engine throttle Foot operated directional and tractor speed control pedal Mechanical high-low range lever
Description.....	Vane type pump - 31 GPM (117 lit./min.) @ 1950 PSI (1344 kPa) Gear type motor - fixed displacement
Transmission.....	two speed gear box, low or high
Travel Speeds @ 2250 RPM with 8 x 16.5 tires	
Low Range, Forward or Reverse.....	0-2.42 MPH (0-3.9 Km/h)
High Range, Forward or Reverse	0-7.8 MPH (0-12.6 Km/h)

STEERING

Type	Articulating
Description.....	Center pivot articulating, rear axle oscillation with hydraulic power steering. Front and rear tires always track.
Steering Angle (Left or Right)	45°
Minimum Turning Radius, Inside	38.62 in. (981 mm)
Steering Cylinders, Bore & Stroke.....	3 in. x 8 in. (76.2 mm x 203 mm)

BRAKES

Type	Driveline disc with caliper
Description.....	SERVICE BRAKE – 11 in. disc, two calipers (hydraulically actuated) PARKING BRAKE – 11 in. disc, one caliper
Total Braking Area (Service).....	33.75 in. ² (217 cm ²)
Total Braking Area (Parking)	16.0 in. ² (103 cm ²) (Service and Parking)
Parking Brake.....	Mechanical

SERVICE CAPACITIES

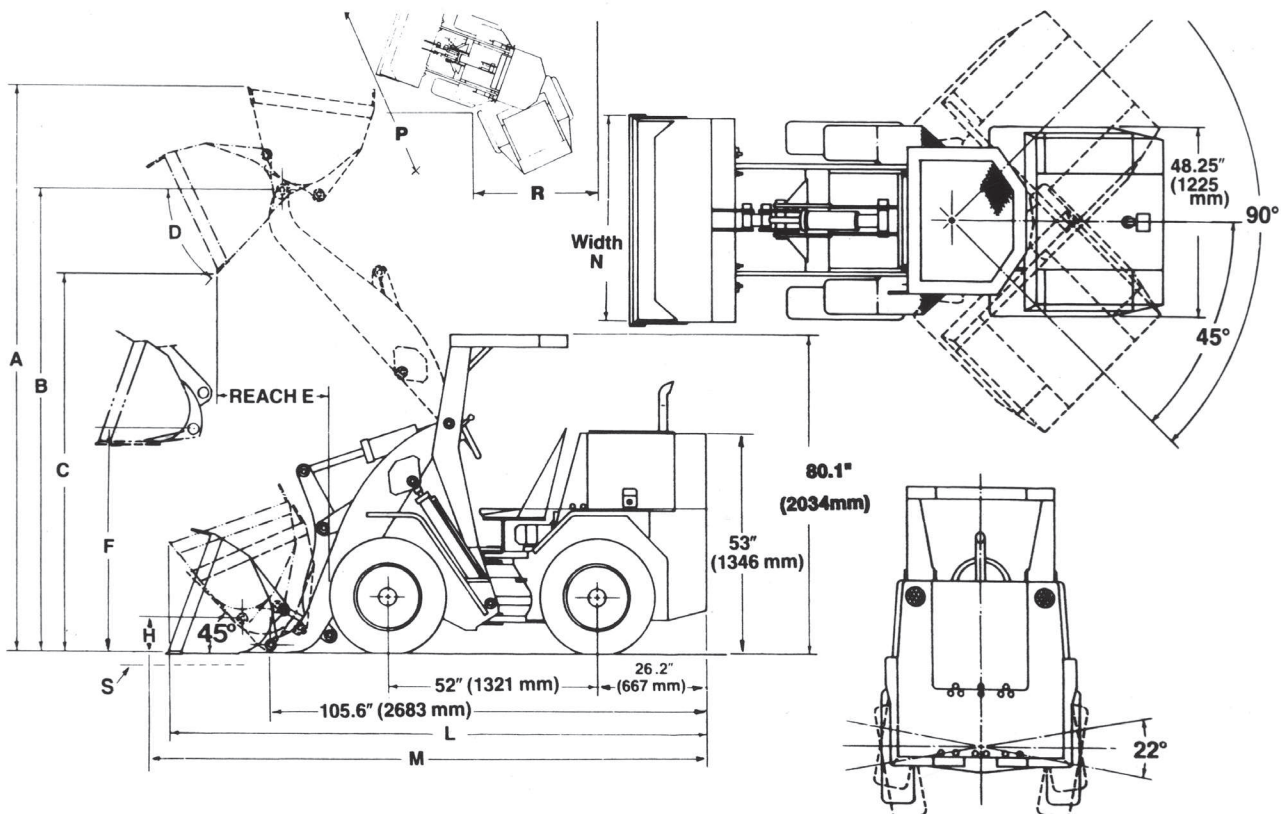
Radiator	15 Quarts (14.2 lit.)
Fuel Tank.....	16.5 U.S. Gal. (62.5 lit.)
Hydraulic System	
Reservoir Only.....	16.5 U.S. Gal. (62.5 lit.)
Complete System.....	21.5 U.S. Gal. (81.4 lit.)
Engine Crankcase with Filter	
Diesel and Gasoline	7 Quarts (6.62 lit.)
Differentials (Each)	6.2 Pints (2.93 lit.)
Transmission.....	47 Pints (6.95 lit.)



PERFORMANCE/DIMENSIONS

	Standard Bucket (60-100 lb./cu. ft. dense material)	Light Material (0-60 lb./cu. ft. dense material)	Heavy Material (100 + lb./cu. ft. dense material)
SAE Rating Heaped	.55 yd. ³ (.42 m ³)	.78 yd. ³ (.59 m ³)	.43 yd. ³ (.32 m ³)
SAE Operating Capacity	1400 lbs. (636 kg)	1275 lbs. (579 kg)	1375 lbs. (624 kg)
SAE Breakout Force	5950 lbs. (26477 N)	3850 lbs. (17133 N)	5950 lbs. (26478 N)
SAE Tipping Load, Straight	3150 lbs. (1430 kg)	2900 lbs. (1317 kg)	3100 lbs. (1407 kg)
Full Articulation	2800 lbs. (1271 kg)	2575 lbs. (1169 kg)	2750 lbs. (1249 kg)
A Height to Cutting Edge	135.0 in. (3429 mm)	145.8 in. (3703 mm)	135.0 in. (3429 mm)
B Height to Bucket Pin Center	111.3 in. (2827 mm)	111.3 in. (2827 mm)	111.3 in. (2827 mm)
C Dump Clearance @ Full Height	92.0 in. (2337 mm)	83.8 in. (2130 mm)	92.0 in. (2337 mm)
D Maximum Dump Angle	43.5°	43.5°	43.5°
E Bucket Reach @ Full Ht. 45° Dump	27.75 in. (705 mm)	36.5 in. (927 mm)	27.75 in. (705 mm)
F Bucket Pin Height @ Max. Reach	55.5 in. (1410 mm)	55.5 in. (1410 mm)	55.5 in. (1410 mm)
H SAE Bucket Carry Height	8.25 in. (209.5 mm)	8.25 in. (209.5 mm)	8.25 in. (209.5 mm)
L Overall Length, Bucket on Ground	134.2 in. (3409 mm)	146.2 in. (3715 mm)	134.2 in. (3409 mm)
M Overall Length @ SAE Carry Height	131.1 in. (3330 mm)	139.6 in. (3546 mm)	131.1 in. (3330 mm)
N Bucket Width	55.75 in. (1289 mm)	55.75 in. (1289 mm)	55.75 in. (1289 mm)
P Clearance Circle, Carry Position	104.5 in. (2654 mm)	111.5 in. (2832 mm)	100.5 in. (2553 mm)
R Intersecting Aisle	79 in. (2007 mm)	86 in. (2184 mm)	75 in. (1905 mm)
S Digging Depth	2 in.	2 in.	2 in.
Turning Radius (Outside Tire)	87 in. (2210 mm)	87 in. (2210 mm)	87 in. (2210 mm)
Ground Clearance	7.0 in. (178 mm)	7.0 in. (178 mm)	7.0 in. (178 mm)
Operating Weight	6920 lbs. (3142 kg)	6980 lbs. (3169 kg)	6990 lbs. (3173 kg)
Max. Gradeability, Low Gear	45%	45%	45%
Max. Drawbar Pull, Low Gear	4000 lbs. (17800 N)	4000 lbs. (17800 N)	4000 lbs. (17800 N)

Note: This machine is designed to handle payloads up to 1400 lbs. (636 kg) on a continuous basis and meets SAE J8188 without rear tire ballast or additional counterweight. Greater payloads may occasionally be handled; continuous overloading beyond rated capacity will shorten the service life of the machine. Other bucket sizes are available to properly equip your machine for material being handled. Contact your Waldon distributor for details.



SPECIFICATIONS

STANDARD EQUIPMENT

- 8 x 16.5 Pneumatic Tires
- Power Steering
- ROPS/FOPS Guard
- Plastic Molded, Steel Base Adjustable Seat
- 107 dBA Reverse Alarm
- 10 Micron Hydraulic Filtration
- SAE J386 Seat Belt
- Hour Meter
- 625 amp 12V Battery
- Horn, Single Note
- Headlights
- Antifreeze to -40° F (-40° C)
- Gauges: Engine Temperature, Hydraulic Oil Temperature, Fuel Level, Ammeter, Oil Pressure
- Dual Element Air Filter with Pre-cleaner
- Emergency Brake, Manual Set
- Lockable Engine Compartment Doors
- Keyed Switch and Starter
- Industrial Yellow Enamel Paint
- 4-Wheel Drive Line Hydraulic Disc Brakes
- 4-Wheel Drive 2-Speed Hydraulic Drivetrain
- Boom Assembly Kit With Boom Arms, Lift and Bucket Tilt Cylinders, Mounting Pins and Hoses
- 14.8 ft.³ Bucket
- 3rd Valve

OPTIONAL EQUIPMENT

- Fire Resistant Fuel Cap
- Pre-Heater Starting Aid
- 7.00 x 15 Solid Tire and Wheel Kit
- 7.50 x 15 Solid Super Soft Tire and Wheel Kit
- 7.00 x 15 Pneumatic Tire and Wheel Kit
- LPG Conversion Kit
- Lifting Hooks
- Auxiliary Hydraulic Kit

UNITRACTOR ATTACHMENTS FOR MULTI-JOB USE

- Mechanical Snap-Attach® Quick Release Attachment Coupling System
- Unicoupler® Quick-Attach/Release Hydraulic Attachment Coupling System
- Boom Forklift
- Model 700 Sweeper
- Yardbird Pick-Up Sweeper
- Scrap Grab
- Fertilizer Bucket
- Mining Bucket
- Mining Bucket, Pointed
- Grapple Bucket
- Contact Factory For Other Applications

MATERIAL WEIGHTS

	Material	Density Range (Loose)	
		lbs./yd. ³	kg/m ³
Dense	Hematite, Iron Borings, Iron Ore, Lead Ore, Magnetite, Pyrite	4200 & Up	2492 & Up
	Basalt, Concrete, Copper Ore, Taconite, Wet Sand and Gravel	3100 - 4200	1839 - 2492
Common Range of Materials	Clay, Granite, Gypsum, Limestone, Sand & Gravel	2600 - 3100	1542 - 1839
	Asphalt, Caliche, Crushed Stone, Sandstone, Shale, Slag	2200 - 2600	1305 - 1542
Light	Cinders, Coal, Dry Clay, Garbage, Lime, Salt, Top Soil, Wet Peat	1000 - 2200	593 - 1305
	Aluminum Chips, Coke, Coke, Dry Peat, Sow, Wood Chips	Under 1000	Under 593

Note: All specifications are in accordance with SAE standards or recommended practices, where applicable. Under our policy of improvement, Waldon reserves the right to modify specifications at any time without prior notice or obligation.



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