

- Gas, LPG, and Diesel engine options
- Rugged hydraulic drive with 2-speed mechanical transmission
- Tractor/attachments built by Waldon for a totally integrated unit



NOT JUST ANOTHER LOADER

The compact, articulating, 4-wheel drive Waldon 5100 Unitractor has an SAE operating capacity of 1700 lbs. This unit was designed for low cost, heavy industry material handling and plant maintenance, plus a variety of landscaping and construction applications. This popular, widely used loader is designed and made in the U.S.

SPECIFICATIONS

ENGINE

Make & Model	Continental	Deutz	Cummins
	TME27	D914L03	B3.3
Cu. In. (liters)	164 (2.7)	197 (3.2)	199 (3.3)
No. of Cylinders	4	3	3
Fuel	Gas or LP	Diesel	Diesel
Cooling System	Liquid	Air	Liquid
Net HP @ 2500 RPM (kilowatts)	58 (43.2)	57 (42.5)	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 641.3 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 (54.88 lit./min) @ 2500 RPM
Priority Flow to Steering	4 GPM (15.4 lit./min)
Control Valve	Standard - 3 spool sectional open center
Auxiliary Hydraulics	Standard 3rd valve for additional un tractor attachments Power beyond hydraulics available
Filtration	10 micron spin-on
Relief Valve Setting	Drive train - 1950 PSI (13443 kPa) Boom and bucket - 1900 PSI (13098 kPa) Steering - 1800 PSI (12409 kPa)
Hydraulic Cycle Time @ 2200 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, (hubs with limited slip optional)
Torque Increase	6.176/1 Ratio
Oscillation, Frame	22°

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
Description	Mechanical high-low range lever Vane type pump - 31 GPM (109.7 lit./min.) @ 1950 PSI (1344 kPa) Gear type motor - fixed displacement
Transmission	two speed gear box, low or high
Travel Speeds @ 2250 RPM with 10.00 x 16.5 Tires, 12-Ply	
Low Range, Forward or Reverse	0-2.4 MPH (0-3.86 Km/h)
High Range, Forward or Reverse	0-7.7 MPH (0-12.39 Km/h)

STEERING

Type	Articulating
Description	Center pivot articulating with hydraulic power steering. Front and rear tires always track.
Steering Angle (Left or Right)	37°
Minimum Turning Radius, Inside	54.0 in. (1371 mm)
Steering Cylinders, Bore & Stroke	3 in. x 8 in. (76.2 x 203.2 mm)

BRAKES

Type	Four-wheel hydraulic
Description	Hydraulically actuated drum type brakes
Total Braking Area (Service and Parking)	265 in. squared (1709 cm squared)
Parking Brake	Mechanical

SERVICE CAPACITIES

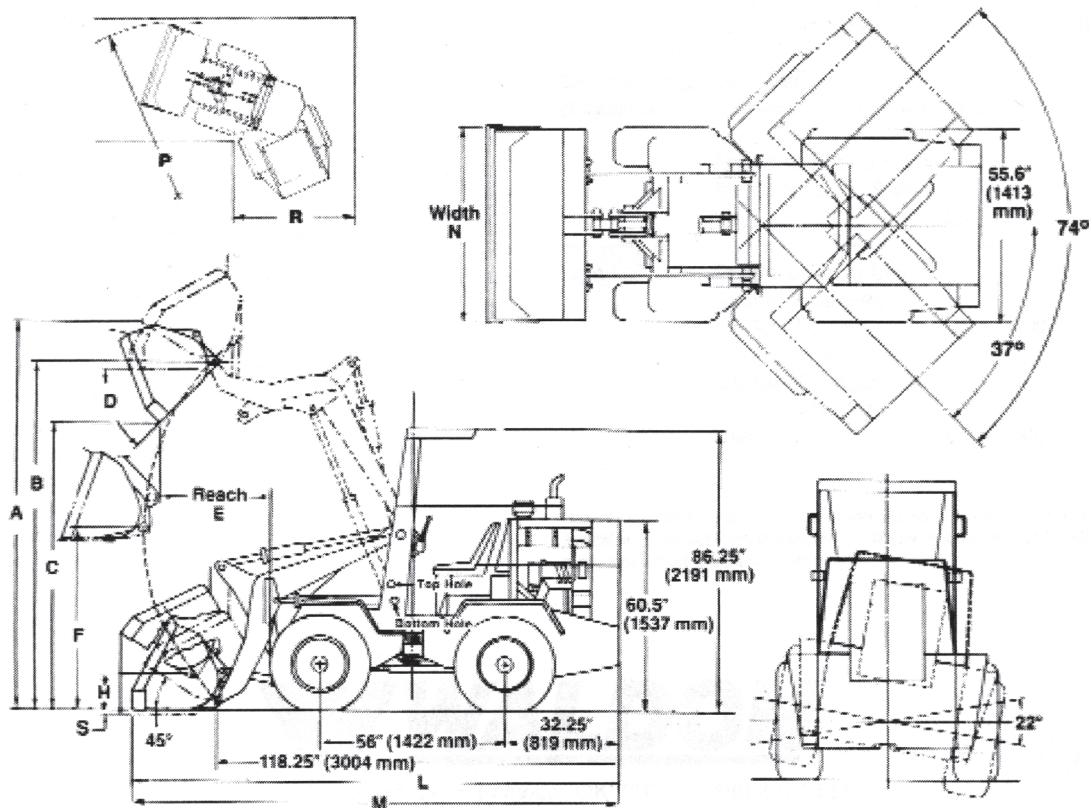
Radiator	15 Quarts (14.2 lit.)
Fuel Tank	18.0 U.S. Gal. (68.14 lit.)
Hydraulic System	
Reservoir Only	18.0 U.S. Gal. (68.14 lit.)
Complete System	24.0 U.S. Gal. (90.85 lit.)
Differentials (Each)	6.2 Pints (2.9 lit.)
Transmission	4.7 Pints (2.1 lit.)



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)	
	Top Hole	Bottom Hole	Top Hole	Bottom Hole	Top Hole	Bottom Hole
SAE Rating Heaped	16.7 ft. ³ (.47 m ³)		1 yd. ³ (.76 m ³)		11 ft. (.31 m ³)	
SAE Operating Capacity	1700 lbs. (772 kg)		1600 lbs. (726 kg)		1700 lbs. (771 kg)	
SAE Breakout Force	5000 lbs. (22250 N)		3700 lbs. (16465 N)		4400 lbs. (19580 N)	
SAE Tipping Load, Straight	4100 lbs. (1861 kg)		3800 lbs. (1725 kg)		4050 lbs. (1839 kg)	
Full Articulation	3500 lbs. (1589 kg)		3250 lbs. (1476 kg)		3450 lbs. (1566 kg)	
A Height to Cutting Edge	144.5 in. (3670.3 mm)	122.25 in. (3112 mm)	151.25 in. (3842 mm)	129.0 in. (3277 mm)	147.0 in. (3784 mm)	125.75 in. (3169 mm)
B Height to Bucket Pin Center	12.0 in. (3073 mm)	97.5 in. (2477 mm)	12.0 in. (3073.4 mm)	97.5 in. (2477 mm)	121.0 in. (3073.4 mm)	97.0 in. (2477 mm)
C Dump Clearance @ Full Height	99.7 in. (2533 mm)	70.0 in. (1778 mm)	92.3 in. (2344.4 mm)	75.68 in. (1922.2 mm)	97.4 in. (2474 mm)	72.18 in. (1833.3 mm)
D Maximum Dump Angle	45°	68°	45°	68°	45°	68°
E Bucket Reach @ Full Ht. 45° Dump	19 in. (483 mm)	32 in. (813 mm)	22 in. (559 mm)	37 in. (940 mm)	20 in. (508 mm)	34 in. (864 mm)
F Bucket Pin Height @ Max. Reach	56 in. (1422.4 mm)	56 in. (1422.4 mm)	56 in. (1422.4 mm)	56 in. (1422.4 mm)	56 in. (1422.4 mm)	56 in. (1422.4 mm)
H SAE Bucket Carry Height	8 in. (203.2 mm)	8 in. (203.2 mm)	8 in. (203.2 mm)	8 in. (203.2 mm)	8 in. (203.2 mm)	8 in. (203.2 mm)
L Overall Length, Bucket on Ground	147.75 in. (3753 mm)	147.75 in. (3753 mm)	155.75 in. (3956 mm)	155.75 in. (3956 mm)	150.75 in. (3829 mm)	150.75 in. (3829 mm)
M Overall Length @ SAE Carry Height	145.1 in. (3686 mm)	145.1 in. (3686 mm)	150.6 in. (3825 mm)	150.6 in. (3825 mm)	147.1 in. (3736 mm)	147.1 in. (3736 mm)
N Bucket Width	56.5 in. (1435 mm)		59.4 in. (1508 mm)		42.5 in. (1080 mm)	
P Clearance Circle, Carry Position	128 in. (3251 mm)		132 in. (3353 mm)		122 in. (3099 mm)	
R Intersecting Aisle	92 in. (2337 mm)		96 in. (2438 mm)		86 in. (2184 mm)	
S Digging Depth	1.5 in.		1.5 in.		1.5 in.	
Turning Radius (Outside Tire)	112 in. (2845 mm)		112 in. (2845 mm)		122 in. (2845 mm)	
Ground Clearance	7.75 in. (197 mm)		7.75 in. (197 mm)		7.75 in. (197 mm)	
Operating Weight	7100 lbs. (3223 kg)		7150 lbs. (3246 kg)		7150 lbs. (3246 kg)	
Max. Gradeability, Low Gear	35%		35%		35%	
Max. Drawbar Pull, Low Gear	3500 lbs. (12683 N)		3500 lbs. (12683 N)		3500 lbs. (12683 N)	

Note: This machine is designed to handle payloads up to 1700 lbs. (771.1 kg) on a continuous basis and meets SAE J8188 with standard counterweighting. 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

- 10 x 16.5 Pneumatic Tires
- Power Assist Steering
- ROPS/FOPS Guard
- Plastic Molded, Steel Base Adjustable Seat
- 107 DBA Reverse Alarm
- 10 Micron Dual Hydraulic Filtration
- SAE J386 Seat Belt
- Hour Meter
- 625 amp 12V Battery
- Horn, Single Note
- 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
- 370 lb. (167.8 kg) Counterweights
- Keyed Switch and Starter
- Industrial Yellow Enamel Paint
- 4-Wheel Hydraulic Drum Brakes
- 4-Wheel Drive 2-Speed Hydraulic Drivetrain
- Boom Assembly Kit With Boom Arms, Lift and Bucket Tilt Cylinders, Mounting Pins and Hoses
- 16.7 ft.³ Bucket
- 3rd Valve

OPTIONAL EQUIPMENT

- Pressurized and/or Air Conditioned Cab with Defroster and Wipers
- Fire Resistant Fuel Cap
- Pre-Heater Starting Aid
- Lifting Hooks
- Driveline Protection Kit
- 7.50 x 15 Pneumatic Tire and Wheel Kit
- 31 x 15.50-15 High Flotation Tractor Tread Tire and Wheel Kit
- 7.50 x 16 Solid Super Soft Tire and Wheel Kit
- Hazardous Atmosphere Alternator Kit
- LPG Conversion Kit
- 4th Section Valve Kit
- Dumper/Upender
- Light Material Bucket
- 7.00 x 15 Pneumatic Tire and Wheel Kit
- 7.50 x 16 Solid Tire and Wheel Kit
- Foundry Bucket
- Mining Bucket
- 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
- Scrap Grab
- Fertilizer Bucket
- Grapple Bucket
- Hydraulic Hammer
- Snow Blower
- Snow Plow
- Railcar Coupler
- Grip-O-Drum Barrel Handler
- 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, Dry Peat, Snow, 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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