

PRODUCT SPECIFICATIONS FOR 903D

ENGINE

Maximum Gross Power	42 HP
Engine Model	Cat C2.4*
Gross Power	42 HP
Net Power - 2,200 rpm - SAE J1349 R-ing	40 HP
Net Power - 2,200 rpm - ISO 9249 R-ing	40 HP
Bore	3.4 in
Stroke	4 in
Displacement	147 in ³
Note	*Engine meets U.S. EPA Tier 4 Final emission standards.

WEIGHTS

Operating Weight	9414 lb
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BUCKETS

Bucket Capacities	0.6-1 m ³ (0.8-1.3 yd ³)
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TRANSMISSION

Travel Speed	12.4 mile/h
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HYDRAULIC SYSTEM

Main Relief	3481 psi
3rd Auxiliary Flow	14 gal/min
Hydraulic Cycle Time - Lift	4.4 s
Hydraulic Cycle Time - Dump	0.7 s
Hydraulic Cycle Time - Lower, Float	2.4 s

CAB

ROPS	ISO 3471:2008
FOPS	ISO 3449:2005 Level I

SERVICE REFILL CAPACITIES

Cooling System	3 gal (US)
Fuel Tank	11.4 gal (US)
Hydraulic System	6.3 gal (US)
Engine Oil	2.4 gal (US)

DIMENSIONS (APPROXIMATE) - STANDARD LIFT

Cab Height	8.25 ft
Ground Clearance	10 in
Wheel Base	6.42 ft
Overall Length - With Bucket*	15.75 ft
Reach at Maximum Dump Height*	2.33 ft
Dig Depth	6 in
Maximum Dump Height*	7.5 ft

Load Over Height	9.17 ft
Hinge Pin at Maximum Height	10.08 ft
Departure Angle - Degrees	30°
Overall Length - With Forks	17.08 ft
Reach - Ground Level	2.67 ft
Maximum Reach	4.5 ft
Fork Depth Above Ground	2 in
Fork Height at Maximum Reach	4.67 ft
Maximum Fork Height	9.83 ft
Fork Reach at Maximum Height	2 ft
Turning Radius - Over Bucket*	13.17 ft
Turning Radius - Inside Tire**	5.92 ft
Width - Over Bucket*	5.83 ft
Tire Gauge	4.33 ft
Machine Width**	5.58 ft
Articulation Angle	40°
Steering Angle	80°
Dump Angle at Maximum Height	40°
Note (1)	*Vary with bucket size.
Note (2)	**Vary with tire size.
Note (3)	Dimensions listed are based on the machine configured with cab with air conditioning, remote quick coupler, general purpose bucket or 1067 mm (42 in) forks, 75 kg (165 lb) operator, 33 × 15.5-11.25R tires, without ride control, without precleaner.

DIMENSIONS (APPROXIMATE) - HIGH LIFT

Cab Height	8.25 ft
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Ground Clearance	10 in
Wheel Base	6.42 ft
Overall Length - With Bucket*	16.17 ft
Reach at Maximum Dump Height*	2.42 ft
Dig Depth	8 in
Maximum Dump Height*	8 ft
Load Over Height	9.67 ft
Hinge Pin at Maximum Height	10.58 ft
Departure Angle - Degrees	30°
Overall Length - With Forks	17.58 ft
Reach - Ground Level	3.25 ft
Maximum Reach	4.92 ft
Fork Depth Above Ground	2 in
Fork Height at Maximum Reach	4.67 ft
Maximum Fork Height	10.33 ft
Fork Reach at Maximum Height	2 ft
Turning Radius - Over Bucket*	13.42 ft
Turning Radius - Inside Tire**	5.92 ft
Width - Over Bucket*	5.83 ft
Tire Gauge	4.33 ft
Machine Width**	5.58 ft
Articulation Angle	40°
Steering Angle	80°
Dump Angle at Maximum Height	40°
Note (1)	*Vary with bucket size.
Note (2)	**Vary with tire size.
Note (3)	Dimensions listed are based on the machine configured with cab with air conditioning, remote quick coupler, general purpose bucket or 1067 mm (42 in) forks, 75 kg (165 lb) operator, 33 ×

15.5-16.5R tires, without ride control, without precleaner.

OPERATING SPECIFICATIONS - STANDARD LIFT

Tire Size	33 × 15.5-16.5, 12 PR
Rated Bucket Capacity	0.8 yd ³
Breakout Force	6160 lbf
Operating Weight	9414 lb
Rated Operating Load at Full Turn - Bucket^{***}	2701 lb
Straight Tipping Load - Bucket^{***}	6415 lb
Full Turn Static Tipping Load - Bucket (ISO 14397-1[*])^{***}	5401 lb
Full Turn Static Tipping Load - Bucket (Rigid Tire^{**})^{***}	5512 lb
Rack Back - Transport Position	51°
Rated Operating Load at Full Turn - Forks (EN 474-3:2006, Firm and Level Ground, 500 mm [20 in] Load Center) (80% FTSTL)^{***}	3902 lb
Rated Operating Load at Full Turn - Forks (EN 474-3:2006, Rough Terrain, 500 mm [20 in] Load Center) (60% FTSTL)^{***}	2932 lb
Note (1)	*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.
Note (2)	**Compliance to ISO 14397-1 (2007) Sections 1 thru 5.
Note (3)	***Manual quick coupler, precleaner hood.
Note (4)	Operating specifications shown are based on machine equipped with enclosed ROPS cab with air conditioning, remote quick coupler, 75 kg (165 lb) operator and general purpose bucket (GP), without ride control, without precleaner unless otherwise noted.

OPERATING SPECIFICATIONS - HIGH LIFT

Tire Size	33 × 15.5-16.5, 12 PR
Rated Bucket Capacity	0.8 yd ³
Breakout Force	6204 lbf
Operating Weight	9462 lb
Rated Operating Load at Full Turn - Bucket^{***}	2502 lb
Straight Tipping Load - Bucket^{***}	5975 lb
Full Turn Static Tipping Load - Bucket (ISO 14397-1[*])^{***}	5004 lb
Full Turn Static Tipping Load - Bucket (Rigid Tire^{**})^{***}	5115 lb
Rack Back - Transport Position	51°
Rated Operating Load at Full Turn - Forks (EN 474-3:2006, Firm and Level Ground, 500 mm [20 in] Load Center) (80% FTSTL)^{***}	3660 lb
Rated Operating Load at Full Turn - Forks (EN 474-3:2006, Rough Terrain, 500 mm [20 in] Load Center) (60% FTSTL)^{***}	2756 lb
Note (1)	*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.
Note (2)	**Compliance to ISO 14397-1 (2007) Sections 1 thru 5.
Note (3)	***Manual quick coupler, precleaner hood.
Note (4)	Operating specifications shown are based on machine equipped with enclosed ROPS cab with air conditioning, remote quick coupler, 75 kg (165 lb) operator and general purpose bucket (GP), without ride control, without precleaner unless otherwise noted.

MAXIMUM MATERIAL DENSITIES - GENERAL PURPOSE

Bucket Type	General Purpose
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Rated Capacity	0.8 yd ³
Dump Height	90 in
Maximum Material Density	3169 lb/yd ³
Bucket Width	70 in
Note	Based on ISO 7546:1983 and rated operating loads at full turn and standard linkage.

MAXIMUM MATERIAL DENSITIES - LIGHT MATERIAL

Bucket Type	Light Material
Rated Capacity	1.3 yd ³
Dump Height	85 in
Maximum Material Density	1989 lb/yd ³
Bucket Width	74 in
Note	Based on ISO 7546:1983 and rated operating loads at full turn and standard linkage.

903D STANDARD EQUIPMENT

POWER TRAIN

Air cleaner, two stage with visual indicator

Cat C2.4 engine:

– Meets U.S. EPA Tier 4 Final emission standards

Closed circuit breather

Cold start plugs

Electrical fuel priming pump

Eco drain, engine oil

Extended life coolant protects to –37° C (–34° F)

Frame mounted heavy duty axles with outboard planetary reduction

Maintenance free, sealed for life, prop shaft and universal joints

Maintenance free, sealed for life, prop shaft and universal joints

Transmission, 20 km/h (12.4 mph)

ELECTRICAL

12 volt direct electric starting

Alternator, 70A

Battery disconnect switch

Cab mounted fuse panel

Ignition key start/stop switch

Maintenance free, sealed for life, 650 CCA heavy duty battery

OPERATOR ENVIRONMENT

Cup holder

Digital service hour meter

Engine coolant temperature gauge

Fuel level gauge

Heavy duty, easy clean floor mat

Operator warning system indicators:

- DPF monitor
- Parking brake applied
- Hydraulic oil temperature
- Engine oil pressure
- Service brake pressure
- Hydraulic filter bypass

Seat:

- Static, vinyl with 51 mm (2 in) retractable seat belt

Two external mirrors – knock back

OTHER STANDARD EQUIPMENT

3rd valve auxiliary hydraulics with continuous flow detent, standard flow

Engine enclosure – lockable

Guarded front headlight

Hydraulic auxiliary lines with quick disconnects

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Hydraulic oil level sight gauge

Lift arm safety brace

Loader arm float function

Lockable fuel filler cap

Manual quick coupler, skid steer loader compatible

Parking brake (secondary brake)

Product Link™, PL243

Quick release fuel filter/water separator

Reversing light

Self-canceling direction indicators

Work tool return to dig

Z-bar linkage

903D OPTIONAL EQUIPMENT

OPTIONAL EQUIPMENT

Air conditioning/heater

Alternator, 90 amp for air conditioning

Antifreeze/coolant, extended life, protects to -50°C (-58°F)

Beacon ready

Cab:

- Open
- Enclosed

Differential lock, front and rear axles

Hydraulic quick coupler, skid steer loader compatible

Engine air precleaner

Engine block heater 120V (dealer installed)

Engine Speed Control (Throttle Lock)

Fenders:

- Rear only
- Front and rear

Ground Speed Control (Creeper Control)

Ground Speed Control (Creep Control)

Linkage:

- Standard lift
- High lift

Radiator debris screen

Radio Ready or AM/FM radio

Ride Control

Seats:

- Mechanical suspension, vinyl with 51 mm (2 in) seat belt
- Mechanical suspension, vinyl with 75 mm (3 in) seat belt
- Mechanical suspension, fabric with 51 mm (2 in) seat belt
- Mechanical suspension, fabric with 75 mm (3 in) seat belt

Tires:

- 12-16.5 10PR
- Flotation 33-15.5 × 16.5
- Flexport™ 33 × 6 × 11

Working lights, front and rear:

- Halogen
- LED

Work Tool Electrical Harness

WORK TOOLS

For all work tool options, consult your Cat dealer.