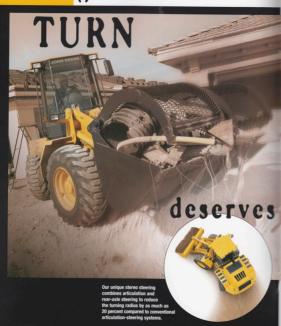






STEREO STEERING

One good





another, and another

INTRODUCING THE TIGHT-TURNING 300 SERIES LOADERS FROM DEERE. In the past, loader maneuverability came at the expense of lift capacity. But the powerful, yet nimble Deere 344H changed all that. Now we're giving you more of a good thing with the introduction of the 324H and 304H. Welcome to a new era of under-100-horsepower four-wheel-drive productivity. These loaders combine agility and stability for performance that's unmatched in this class.

This family of loaders has one feature in particular that's turning a lot of heads: stereo steering. This unique combination of machine articulation and rear-axle steering gives you the tightest turn radius in the class. Yet this design actually reduces the angle of articulation to allow safer transport of higher payloads. Talk about a turn for the better.

Picks up where skid steers leave off.

With skid steers getting so much attention these days, it's easy to overlook smaller four-wheel-drive loaders like the 65-hp Deere 304H. But for anyone needing a more-powerful, more-stable, compact material mover, this small-but-serious 1.2-yard hydrostatic loader offers substantial tipping-load capacity (9,418 pounds) in a highly maneuverable package.

Without question the skid steer is a great machine in many applications. But the 300 Series Loaders' advantages over skid steers can include fuel savings, long-term tire savings, better visibility, smoother ride on

ings, better visibility, smoother ride on rough ground, and superior operator comfort – plus longer reach, higher

dump height, and faster travel speed. All of which leads to improved productivity.

Talk about versatility.
The compact workhorse we call the 304H comes standard with an integral quick-coupler, capable of handling an arsenal of tools, from forks and jib booms to grapple buckets and brooms.



324H



Born to run.

Sure the 80-hp 324H is packed with the same great features as the rest of the 300 Series family – features like stereo steering and hydrostatic drive. But everyone knows a loader is only as good as its operator. That's why we work so hard to surround you with comfort and convenience. Take, for instance, our hydraulic pilot controls, requiring less effort than mechanical linkages. Generous glass areas provide exceptional visibility, enhanced to the rear by the rounded engine cover. And attractive, modern styling is featured throughout.



Even fully articulated, a 300 Series Loader leaves pienty of room for the operator to access the cab. With conventional articulation, this would be impossible. Handholds and steps are ergonomically located and slin resistant.



The rounded engine cover helps provide excellent visibility to the rear.



The combination of oscillating axle and elastic articulation at the pivot absorbs pitching motions and reduces cab tilt by as much as 50 percent. This increases travel stability and operator comfort.

Works day in and day out

The 98-hp 344H started it all, earning a solid reputation as a reliable workhorse. This veteran machine has proven itself in all kinds of applications, from dirt and utility work to jobs at nurseries, recycling centers, and dairies,

Of course, you can't get the inside scoop on the dependability of the 300 Series Loader without looking under the hood. Simply tilt the entire engine cover to reveal a muscular, emissions-certified John Deere PowerTech¹⁰⁰ engine (a Yanmar engine on the 304H). Other smart features include the two-speed hydraulic fan drive that runs at low speed in low temperatures to draw less power, kicking into high when temperatures warrant. This hydraulic fan design also provides more room for cleanout and airflow.

Overall, you'll find the 300 Series Loaders to be exceptionally rugged, yet simply designed. And that means fewer breakdowns and faster repairs than you might expect from a loader packed with so many innovations.



t without a break.



If you can't KEEP IT BUSY,



A loader has to be working to make you money. And it's easy to stay busy in a 300 Series Loader. That's because there's virtually no end to the attachments it will handle when equipped with a hydraulically actuated quick-coupler. The quick-coupler lets you couple and release attachments in minutes, usually without tools and without leaving the cab. A coupler is standard and integral on the 304H, optional on the 324H and 344H.

Need to use a set of forks? A jib boom? Or a general-purpose bucket? No problem. The 300 Series can handle it. How about a broom? A snow blower? Or a side-dump bucket? Go right ahead. If it's a tool you need, chances are you can put it to work on a 300 Series Loader. Simply talk it over with your John Deere dealer. It's easy to get hooked on convenience and versatility like this.

ATTACHMENTS

you're just not trying.



General-purpose bucket



Side-dump bucket



Hydraulic forks





Grapple bucket



Multipurpose (4-in-1) bucket

304H 324H 344H



Engine	304H	324H
Type	Yanmar 4TNE98 naturally aspirated direct-injection deset meets EPA Tier II non-road emissions regulations	John Deere PowerTacur® 4045DF; non-road emissions regulations
Rated power @ 2,400 rpm		80 SAE net hp (59 kW), 84 SAE gr
Cylinders	A	4
Displacement	202 cu. in. (3.3 L)	276 cu. in. (4.5 L)
Maximum net torque		223 bft. (302 Nm) @ 1,200 rpm
Lubrication	pressure system with full-flow spin-on filter	pressure system with full-flow spin-
Fuel consumption, typical		1.4 to 2.7 gal./hr. (5.3 to 10.2 L/h)
Cooling fan	blower type, hydraulically driven	blower type, hydraulically driven
Electrical system.		12 volt with 65-amp alternator

dual safety element dry hose

reserve capacity: 176 min. standard, 850 CCA;

(2 batteries x 850 CCA = 1,700 CCA - optional)

	324H	344H
n ons	John Deere PowerTicol® 40450F; meets EFA Tier II non-road emissions regulations 80 SAE net hp (59 kW), 84 SAE gross hp (62 kW) 4	John Deere PowerTex 4045T with turbocharger; meets EPA Tier II non-road emissions regulations 96 SAE net hp (71 kW), 99 SAE gross hp (74 kW)
	276 cu. in. (4.5 L)	276 cu. in. (4.5 L)
	223 lbft. (302 Nm) @ 1,200 rpm	291 lbft. (395 Nm) © 1,400 rpm
	pressure system with full-flow spin-on filter and cooler	pressure system with full-flow spin-on filter and coo
	1.4 to 2.7 gal./hr. (5.3 to 10.2 Uh)	1.6 to 3.2 gal./hr. (6.0 to 12.1 L/h)
	blower type, hydraulically driven	blower type, hydraulically driven
	12 volt with 65-amp alternator	12 volt with 65-amp alternator
	reserve capacity: 176 min. standard, 850 CCA;	reserve capacity: 176 min. standard, 850 CCA;
	(2 batteries x 850 CCA = 1,700 CCA - optional)	(2 batteries x 850 CCA = 1,700 CCA - optional)

dual safety element dry hose

34411
John Deere PowexTecx 4045T with turbocharger;
meets EPA Tier II non-road emissions regulations
98 SAE net hp (71 kW), 99 SAE gross hp (74 kW)
4
276 cu. in. (4.5 L)
291 lbft. (395 Nm) @ 1,400 rpm
rescours meters with full flow coin, on filter and make

	Batteries (two 12 volt).
	Air cleaner
т-	

ansmission	
Type	hydrostatic (HST) with infinitely variable speed control
	over full range of operating speeds; two speed ranges
Controls	low-effort electric shift; single twist-grip-type control
	lever for direction and range changes; HST inching
	pedal, which allows infinitely reduced travel speeds
	while maintaining full engine rpm and hydraulic flow
Travel speeds (two forward and two reverse)	Forward and Reverse
Cread range 1	5.6 mm /9.0 km/hi

18.6 meh (30.0 km/h)

hydrostatic (HST) with infinitely variable speed control over full cance of operation speeds: two speed cances low-effort electric shift; single twist-grip-type control lever for direction and range changes; HST inching pedal, which allows infinitely reduced travel speeds while maintaining full engine rpm and hydraulic flow Forward and Revenue 5.3 mph (8.5 km/h) 17.4 mph (28.0 km/h)

hydrostatic (HST) with infinitely variable speed control over full range of operating speeds; two speed ranges low-effort electric shift; single twist-grip-type control lever for direction and range changes; HST inching pedal, which allows infinitely reduced travel speeds while maintaining full engine rpm and hydraulic flow Forward and Reverse 5.2 mph (8.3 km/h) 18.0 mph (28.8 km/h)

dual safety element dry type

Speed range 2. Axles/Brakes

Service brakes.

Steering (conforms Type

Relief valve s

Articulation a

line of outside tire).

Final drive	
Differentials	conventional front and rear
Rear axle oscillation versus front	24 degrees total, stop to stop (composed of 12
	axle oscillation plus 12 degrees frame oscil
Maximum rise and fall, single wheel	

dual disks, hydraulically actuated and adjustment free dual disks, hydraulically actuated and adjustment free automatically spring applied, hydraulically released automatically spring applied, hydraulically released disk, located at the front axle input shaft. disk, located at the front axle input shaft

heavy-duty planetary, mounted outboard limited slip front (providing self-locking torque transfer up to 45%) and conventional rear differential 24 degrees total, stop to stop icomposed of 12 degrees ade oscillation plus 12 degrees frame oscillationi 13.4 in. (340 mm)

constant-displacement gear pump; open-center system

loader and steering relief 3,045 psi (21 000 kPs

pilot-operated, two-function valve with sincle-lever

control and control-lever lookout feature; optional

56-degree articulation angle (28 degrees each

30 gpm (115 L/min.) @ 2,400 rpm

third- and fourth-function valves

or 210 hari

heavy-duty planetary, mounted outboard limited slip front (providing self-locking torque transfer up to 45%) and conventional rear differential 24 degrees total, stop to stop (composed of 12 degrees axle oscillation plus 12 degrees frame oscillation) 15.3 in. (390 mm) dual disks, hydraulically actuated and adjustment free automatically spring applied, hydraulically released

Brakes (conform to SAE J1473, IS03450) Parking brake. Hydraulic System/Steering

Pump (loader and steer)	ngi	constant-displacement gear pump; open-center system
Moximum flow @ 1,	000 psi (6895 kPs)	22 gpm (82.5 L/min.) @ 2,500 rpm
Pressure		_loader relief 3,046 psi (21 000 kPs, or 210 bar);
		steering relief 2,645 psi (18 240 kPa, or 180 bar)
Loader controls		plot-operated, three-function valve with single-leve
		control for boom and bucket, and auxiliary lever for
		standard pin disconnect and auxiliary hydraulics, will
		control-lever lookout feature; optional four-function valve
Hydraulic cycle times		9.8 total sec.
Raise		_4.5 sec.
Durro		1.5 sec.
Lower		3.8 sec. (float down) / 3.0 sec. (power down)
Maximum lift capacity		with 1.1-cu, vd. (0.9 m²) excavating bucket and treth
Lift at ground level		12,136 lb. (5505 kg)
Lift at maximum he	idht	6.966 lb. (3160 kg)

on: meets ISOS010
steering requirements
S degrees each

direction), plus 29 degrees rear wheel steering fied mechanically to articulation; equivalent of a conventional steering system having 96 degrees of articulation Turning radius (measured to center-.10 ft. 8 in. (3.26 m)

9.7 total sec. 4.3 sec 4.4 sec. 1,4 sec. 1.5 sec. 4.0 sec. (float down) / 3.3 sec. (power down) with 1.4-cs, yd. (1.1 m²) excavating bucket and treth 14.159 lb. (6422 kg) 9.438 b. (4281 kg)

power, fully hydraulic articulation power, fully hydraulic articulation 3,600 psi (24 850 kPsi)

direction), plus 26 degrees rear wheel steering tied mechanically to articulation: equivalent of a conventional steering system having 97 degrees of articulation Islian 12 ft. 5 in. (3.79 m)

disk, located at the front axie input shaft constant-displacement gear pump; open-center system 30 gpm (115 L/m) @ 2,400 rpm loader and steering relief 3,335 psi (22 990 kPs. or 230 hart nilat-operated two-function valve with single-lever

control and control-lever lockout feature: optional third- and fourth-function valves 9.9 total sec. (with the original pump)

4.0 sec. (float down) / 3.0 sec. (power down) with 1.75-cu, yd. (1.3 m²) excavating bucket and treth 15,075 lb. (6840 kg) 9.450 lb. (4290 kg)

3.600 psi (24.850 kPsi) 56-degree articulation angle (28 degrees each

direction), plus 27 degrees rear wheel steering tied mechanically to articulation; equivalent of a conventional steering system having 97 degrees of articu-

304H Tires			
	Tread Width	Width Over Tires	Change In Vertical Height
405/70R20		78.0 in. (1980 mm)	0 in. (0 mm)
324H Tires			
	Tread Width	Width Over Tires	Change In Vertical Height
15.5-25, 12 PR L2	66.9 in. (1700 mm)	83.1 in. (2110 mm)	0 in. (0 mm)
344H Tires			
Choice of	Tread Wicth	Width Over Tires	Change in Vertical Height
15.5-25, 12 PR L2	74.4 in. (1890 mm)	90.6 in. (2300 mm)	- 1.5 in. (- 37 mm)
17.5-25, 12 PR L2		92.1 in. (2340 mm)	0 in. (0 mm)
17.5-25, XTLA (L2 type) Michelin Rad		92.1 in. (2340 mm)	- 0.3 in. (- 8 mm)
Capacities	304H	324H	344H
Fuel tank (with ground level fueling)		37.0 gal. (140.0 L)	37.0 gal. (140.0 L)
Cooling system	12.9 qt. (12.2 L)	15.9 qt. (15.0 L)	18.0 qt. (17.0 L)
Engine lubrication, including full-flow			
spin-on filter	9.9 qt. (9.4 L)	13.0 ct. (12.0 L)	13.0 gt. (12.0 L)
Loader hydrausic and hydrostatic reserv		17.2 gal. (65.0 L)	17.2 gal. (65.0 L)
Front axle (differential and planetary)	60 et 67 U	10.0 of, (9.5 U)	17.2 gat. (00.0 L) 11.0 qt. (10.4 L)
Rear axle idifferential and HST motor		inn dr. inn ri	The dir (see c)
gearbox)	50 gt. (4.7 L)	7.4 st. (7.0 L)	11.0 at (10.4 L)
Front/rear axle planetary hubs (each)	24.0 oz. (0.7 L)	24.0 cz. (0.7 L)	27.0 cz. (0.8 L)
Dimensions with Bucke	t		
A Height to top of cab and canopy.		9 ft, 11 in. (3025 mm)	10 ft. (3062 mm)
B Height to top of exhaust		9 ft. 3 in. (2800 mm)	9 ft. 3 in. (2823 mm)
C Ground clearance	12.8 in. (325 mm)	14.0 in. (355 mm)	14.9 in. (378 mm)
D Length from centerline of front as	le37.4 in. (950 mm)	41.3 in. (1050 mm)	45.3 in. (1150 mm)
E Wheebase	84.6 in. (2150 mm)	98.4 in. (2500 mm)	102.4 in. (2600 mm)
F Dump height			
G Height to hinge pin, fully raised	10 ft. 5 in. (3174 mm)	11 ft. (3343 mm)	12 ft. (3645 mm)
H Dump reach		**	**

I Maximum digging depth

K Maximum rollback at full height.....

▲ See Bucket Information page 14.

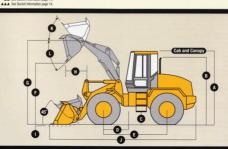
▲ See Bucket Information page 14.

J Overall length

.2.0 in. (50 mm)

...

.52 degrees



3.0 in. (75 mm)

62 degrees

45 degrees

2.5 in. (63 mm)

63 degrees

45 degrees

304H Bucket Information (Euro Quick-Coupler)

	Stockpiling and General	Stockpiling and General	Excavating	
Bucket Type/Size	Purpose w/Balt-on Edge	Purpose w'Teeth	w/Bolt-on Edge	Excavating w/Tenth
Capacity, heaped SAE	1.4 cu. yd. (1.1 m²)	1.4 cu, vd. (1.1 m²)	1.2 cu, vd. (0.9 m ²)	1.2 cu. yd, (0.9 m?)
Capacity, struck SAE	1.2 cu, vd. (0.9 m?)	1.2 cu, vd. (0.9 m?)	1.0 cu, vd. (0.8 m²)	1.0 cu, vd, (0.8 m ²)
Bucket width		82.7 in. (2100 mm)	82.7 in. (2100 mm)	82.7 in. (2100 mm)
Breakout force, SAE J732C	10,119 lb. (4590 kg)	9,438 lb. (4281 kg)	10,583 lb, (4800 kg)	11.023 lb. (5000 kg)
Tipping load, straight	9,244 lb. (4193 kg)	9,330 lb. (4232 kg)	9.327 lb. (4231 kg)	9.418 lb. (4272 kg)
Tipping load, full turn, SAE	8,640 lb. (3919 kg)	8,721 lb. (3956 kg)	8,717 b. (3954 kg)	8.803 lb. (3993 kg)
AA Reach, 42-degree dump, 7-ft.				
(2.13 m) clearance	43.9 in. (1115 mm)	44.7 in. (1135 mm)	43.5 in. (1105 mm)	44.2 in. (1123 mm)
AA Reach, 42-degree dump, full height	35.9 in. (913 mm)	35.5 in, (901 mm)	34.0 in. (864 mm)	33.6 in. (853 mm)
▲ Dump clearance, 42 degree, full height.	95.3 in. (2420 mm)	96.7 in. (2457 mm)	97.0 in. (2463 mm)	98.4 in. (2500 mm)
AAA Overall length		17 ft. 4 in. (\$285 mm)	17 ft. (5175 mm)	17 ft. 2 in. (5220 mm)
Loader clearance circle, bucket in				
carry position	25 ft. (7620 mm)	25 ft, 2 in, (7670 mm)	24 ft, 11 in. (7590 mm)	25 ft. (7610 mm)

.25 ft. (7620 mm) 25 ft. 2 in. (7670 mm) 24 ft. 11 in. (7590 mm) 25 ft. (7610 mm) .12,044 ib. (5463 kg) 11,956 ib. (5423 kg) 12,015 ib. (5450 kg) 11,922 ib. (5406 kg) Operating weight.... Loader operating information is based on machine with all standard equipment, 45570R20 (no fluid) times, ROPS cab, 175-b. (79 kg) operator, and full fluid tank. This information is affected by tire size, ballast, and different attachments.

32

	Stockpiling and General	Stockpiling and General	Excavating	
Bucket Type/Size	Purpose w/Bolt-on Edge	Purpose wTeeth	w/Bolt-on Edge	Excavating w/Teeth
Capacity, heaped SAE	1.75 cu. yd. (1.3 m ²)	1.70 cu. yd. (1.3 m ²)	1.40 cu. vd. (1.1 m ²)	1.40 cu. vd. (1.1 m ²)
Capacity, struck SAE	1.45 cu. yd. (1.1 m²)	1.40 cu, yd, (1.1 m ²)	1,20 cu, vd. (0.9 m?)	1.20 cu. yd. (0.9 m²)
Bucket width	94.5 in. (2400 mm)	94.5 in. (2400 mm)	86.6 in. (2200 mm)	86.6 in. (2200 mm)
Breakout force, SAE J732C.	16,629 lb. (7543 kg)	17.754 lb. (8053 kg)	17.754 lb. (8053 kg)	19,103 b. (8665 kg)
Tipping load, straight	10,479 lb. (4753 kg)	10,595 lb. (4806 kg)	10,750 lb. (4876 kg)	10.825 lb. (4919 kg)
Tipping load, full turn, SAE	9,766 b. (4430 kg)	9,877 b. (4480 kg)	10,020 lb. (4545 kg)	10.110 lb. (4586 kg)
AA Reach, 45-degree dump, 7-ft.				
(2.13 m) clearance	52.1 in. (1324 mm)	52.5 in. (1333 mm)	51.6 in. (1310 mm)	51.9 in. (1318 mm)
AA Reach, 45-degree dump, full height	33.1 in. (842 mm)	32.5 in. (825 mm)	31.8 in. (807 mm)	31.1 in. (789 mm)
▲ Dump clearance, 45 degree, full height.	106.2 in. (2700 mm)	108.1 in. (2746 mm)	107.7 in. (2736 mm)	109.5 in. (2782 mm)
AA Overall length	19 ft. 7 in. (5965 mm)	19 ft, 10 in, (6040 mm)	19 ft. 5 in. (5915 mm)	19 ft. 8 in. (5990 mm)
Loader dearance circle, bucket in				to ac encipose may
carry position	29 ft. 1 in. (8872 mm)	29 ft. 3 in. (8920 mm)	28 ft. 6 in. (9664 mm)	28 ft. 7 in. (8712 mm)
Operation weight				

Loader operating information is based on machine with all standard equipment: 15.5-25, 12 PR L2 tires; standard counterweight; ROPS calb, 175-bb. (79 kg) operator; and full fuel bank. This information is affected by tire size, ballast, and different attachments.

344H Bucket Information (Pin-on Type)

		Stockpiling and General	Stockpiling and General	Excavating	
Bu	cket Type/Size	Purpose w/Bolt-on Edge	Purpose w/Teeth	w Bolt-on Edge	Excavating w/Teeth
	Capacity, heaped SAE	2.0 cu. yd. (1.5 m²)	2.0 cu. yd. (1.5 m ³)	1.7 cu. yd. (1.3 m²)	1.7 cu. yd. (1.3 m²)
	Capacity, struck SAE	1.6 cu. yd. (1.2 m³)	1.6 cu. yd. (1.2 m²)	1.4 cu. yd. (1.1 m²)	1,4 cu, vd, (1,1 m²)
	Bucket width	.94.5 in. (2400 mm)	94.5 in. (2400 mm)	94.5 in. (2400 mm)	94.5 in. (2400 mm)
	Breakout force, SAE J732C	16,629 lb. (7543 kg)	17,529 lb. (7951 kg)	18.204 lb. (8257 kg)	19.328 b. (8767 kg)
	Tipping load, straight	11,923 lb. (5408 kg)	12,039 lb. (5461 kg)	12,073 lb. (5476 kg)	12,209 b. (5538 kg)
	Tipping load, full turn, SAE	11,010 lb. (4994 kg)	11,127 lb. (5047 kg)	11,153 lb. (5059 kg)	11,290 b. (5121 kg)
	Reach, 45-degree dump, 7-ft.				
	(2.13 m) clearance	55.3 in. (1406 mm)	59.6 in. (1514 mm)	54.4 in. (1381 mm)	58.5 in. (1487 mm)
	Reach, 45-degree dump, full height	32.0 in. (814 mm)	35.3 in, (896 mm)	35.3 in. (896 mm)	33.1 in. (840 mm)
	Dump clearance, 45 degree, full height.	110.8 in. (2814 mm)	108.7 in. (2761 mm)	113.0 in. (2870 mm)	110.9 in. (2817 mm)
	Overall length	20 ft. 5 in. (6217 mm)	20 ft. 8 in. (6294 mm)	20 ft. 2 in. (6137 mm)	20 ft. 5 in. (6214 mm)
	Loader clearance circle, bucket in				
	carry position	29 ft. 7 in. (9010 mm)	29 ft. 8 in. (9050 mm)	29 ft, 5 in, (8956 mm)	29 ft. 6 in. (9000 mm)

....16,976 lb. (7700 kg) 16,876 lb. (7655 kg) 16,909 lb. (7670 kg) 16,788 lb. (7615 kg) Loader operating information is based on machine with all standard equipment; 17.5-25, 12 PR 12 times, standard counterweight, ROPS cab; 175-bt. (79 kg) operator, and full fuel tank. This information is affected by tire size, ballast, and different attachments.

344H Adjustments to Operating Weights for Pin-on Type Buckets

Adjustments to operating weights and tipping loads for 2.00-cs. yd. (1.5 m²) material-handling bucket w/boit-on edge Add (+) or deduct (-) lb. (kg) as indicated

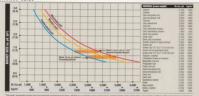
for loaders with Operating Weight Tipping Load, Straight Tipping Load, Full Turn 15.5-25, 12 PR L2 tires _- 485 lb. (- 220 kg) -311 b. (-141 kg) -291 lb. (-132 kg) 17.5-25, XTLA (L2 type) Michelin Radial tires... -9 D. (-4 km) -7 h (-3 kd) -7 b. (-3 kg)

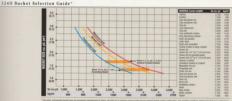
344H Adjustments to Operating Weights for Coupler Buckets

Adjustments to operating weights and tipping loads for 2.00-cu, yd. (1.5 m²) general-purpose bucket w/bolt-on edge

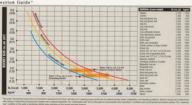
Add (+) or deduct (-) lb. (kg) as indic	ated		
for loaders with	Operating Weight	Tipping Load, Straight	Tipping Load, Full Ti
15.5-25, 12 PR L2 tires		- 295 lb. (- 134 kg)	- 278 lb. (- 126 kg)
17.5-25, XTLA (L2 type) Michelin			
Radial tires	-9 h (-4 km)	-4h (-2km)	-4h (-2kd

304H Bucket Selection Guide"





344H Bucket Selection Guide"



Dimensions with

Quick-Coupler BUCKET

A Dump clearance ... ▲ (see page 14) B Dump reach...

304H

AA (see page 14) C Maximum digging depth. 2.0 in. (50 mm) D Height to binge pin, fully raised 10 ft. 5 in. (3174 mm) E Overall length. AAA (see page 14)

F Maximum rollback at full height. .52 degrees G Bucket dump at full height42 degrees

H Maximum rollback at ground level. 45 degrees 324H

▲ (see page 15) AA (see page 15) 3.0 in. (84 mm)

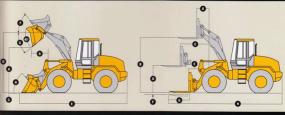
AAA (see page 15) 62 degrees 45 degrees 46 degrees

11 ft. 7 in. (3524 mm)

344H ▲ (see page 15) AA (see page 15)

3.0 in. (83 mm) 12 ft. 1 in. (3694 mm) AAA (see page 15)

63 degrees 45 degrees 46 degrees



CONSTRUCTION UTILITY FORK A Reach, fully raised. B Fork height, fully raised.

C Maximum reach, fork level . .5 ft. 3 in. (1603 mm) D Fork height, maximum reach. .5 ft. 1 in. (1543 mm) E Reach, ground level ... 3 ft 3 in. (990 mm) F Depth below ground. .4 in. (95 mm) G Time length ▲ (see page 15) H Overall length PALLET FORK A Reach, fully raised.... 2 ft. (616 mm)

B Fork height, fully raised9 ft. 11 in. (3025 mm) C Maximum reach, fork level4 ft. 3 in. (1308 mm) D Fork height, maximum reach... .4 ft. 10 in. (1467 mm) E Reach, ground level2 ft. 11 in. (898 mm) F Depth below ground... .2 in. (47 mm) G Tine length

48 in. (1219 mm) H Overall length_ .19 ft. 6 in. (5951 mm) AA (see page 15) 2 ft. 4 in. (702 mm) 10 ft. 9 in. (3276 mm) 4 ft, 11 in. (1503 mm) 5 ft. 1 in. (1555 mm) 2 ft. 11 in. (879 mm) 3 in. (83 mm) 54 in. (1370 mm)

22 ft. 2 in. (6750 mm)

2 ft 8 in (802 mm)

.10 ft. 9 in. (3264 mm)

2 ft. 6 in. (767 mm) 11 ft. 3 in. (3434 mm) 5 ft. 6 in. (1673 mm) 5 ft. 2 in. (1580 mm) 3 ft. 6 in. (1062 mm) 4 in. (94 mm) ▲ (see page 15) ▲▲ (see page 15) 2 ft. 2 in. (667 mm) 11 ft. 4 in. (3446 mm) 5 ft. 2 in. (1573 mm) 5 ft. 3 in. (1592 mm)

3 ft. 1 in. (951 mm) 3 in. (82 mm) 54 in. (1370 mm) 22 ft. 9 in. (6922 mm)

24II Bucket Information	(Quick-Coupler Type)		
	Stockpiling and General	Stockpiling and General	
Bucket Type/Size	Purpose w/Bolt-on Edge	Purpose w Bolt-on Edge	
Capacity, heaped SAE	1.8 cu. yd. (1.3 m²)	1.4 cu. yd. (1.1 m²)	
Capacity, struck SAE	1.4 cu. yd. (1.1 m²)	1.1 cu. yd. (0.8 m²)	
Bucket width	95 in. (2400 mm)	95 in. (2400 mm)	
Breakout force, SAE J732C	13,717 lb. (6222 kg)	14,568 lb. (6608 kg)	
Tipping load, straight	9,035 lb. (4098 kg)	9,229 lb. (4186 kg)	
Tipping load, full turn, SAE	8.265 lb. (3749 kg)	8.470 lb. (3842 kg)	
AA Reach, 45-degree dump, 7-ft,			
(2.13 m) dearance	54 in. (1363 mm)	53 in. (1353 mm)	

.20 ft. (6109 mm) 19 ft. 11 in. (6068 mm) Loader clearance circle, bucket in carry position .29 ft. 5 in. (8970 mm) 29 ft. 4 in. (8942 mm)

Operating weight16.358 lb. (7420 kg) 15.990 lb. (7253 kg)

Loader operating information is based on machine with all standard equipment: 15.5-25, 12 PR L2 times standard counterweight: ROPS cath: 175-15, (79 kg) operator; and full fixed tank. This information is affected by tire size, ballast, and different attachments.

103 in. (2627 mm)

324H Fork Information (Quick-Coupler Type)

▲ Dump dearance, 45 degree, full height 102 in. (2598 mm)

AAA Overall length

Bucket Type/Size

		48-in. (1220 mm)	54-in. (1370 mm)	60-in. (1525 mm)
▲ Tin	e length/fork type	Construction Utility	Construction Pallet	Construction Utility
AA On	erall length		22 ft. 2 in. (6750 mm)	23 ft. (7013 mm)
Tip	ping load, straight (fork level,	load		
	centered on tine)		7,212 lb. (3271 kg)	6.307 lb. (2861 kg)
Tip	ping load, full turn (fork level,	load		
	centered on tine)	6.174 (b. (2800 kg)	6,637 lb. (3010 kg)	5,763 lb. (2614 kg)
00	erating weight	16 169 lb (7334 km)	15 637 lb. (7093 km)	15 264 lb (7377 km

Purpose w Boit-on Edge Purpose w Boit-on Edge

344H Bucket Information (Quick-Coupler Type) Stockpiling and General Stockpiling and General

	Capacity, heaped SAE	2.0 cu, yd. (1.5 m²)	1.8 cu. yd. (1.3 m²)
	Capacity, struck SAE	1.7 cu. yd. (1.3 m²)	1.4 cu. yd. (1.1 m²)
	Bucket width	94.5 in. (2400 mm)	94.5 in. (2400 mm)
	Breakout force, SAE J732C	14,226 lb. (6453 kg)	15,113 lb. (6855 kg)
	Tipping load, straight	10,737 lb. (4870 kg)	10,862 lb. (4927 kg)
	Tipping load, full turn, SAE		9,989 lb. (4531 kg)
44	Reach, 45-degree dump, 7-ft.		
	(2.13 m) dearance	57 in. (1439 mm)	56 in. (1425 mm)
**	Reach, 45-degree dump, full height	35 in. (897 mm)	34 in. (860 mm)
	Dump dearance, 45 degree, full height.	108 in. (2732 mm)	109 in. (2768 mm)
***	Overall length	20 ft. 9 in. (6333 mm)	20 ft. 7 in. (6281 mm)
	Loader clearance circle, bucket in		
	carry position	29 ft. 9 in. (9080 mm)	29 ft. 8 in. (9048 mm)
	Operating weight	17,494 lb. (7935 kg)	17,405 lb. (7895 kg)

Loader operating information is based on machine with all standard equipment; 17.5-25, 12 PR L2 tires; standard countenweight; ROPS cab; 175-b, (79 kg) operator; and full fuel tank. This information is affected by tire size, ballast, and different attachments.

344H Fork Information (Quick-Coupler Type)

		48-in. (1220 mm)	54-in. (1370 mm)	60-in. (1525 mm)
	Tine length/fork type	Construction Utility	Construction Pallet	Construction Utility
AA Ou	Overall length		22 ft, 8 in, (6922 mm)	23 ft. 7 in. (7185 mm)
	Tipping load, straight (fork level, load			
	centered on tine)	7,910 lb. (3588 kg)	8,387 lb. (3804 kg)	7,417 lb. (3364 kg)
	Tipping load, full turn (fork level, load			
	centered on tine)	7,272 lb. (3299 kg)	7,745 b. (3513 kg)	6,811 lb. (3090 kg)
	Operating weight	17,436 lb. (7909 kg)	16,905 lb. (7668 kg)	17,531 lb. (7952 kg)

304H / 324H / 344H Loaders

Key: Standard equipment A Optional or special equipment

314 324 344 Engine ● ● Antifreeze. -34°F (-37°C) Coolant recovery tank

 Fan safety quard · Fan, sucker type, hydraulically driven, two Muffler, under hood with curved-end exhaust

stark Environmentally friendly engine oil drain Fnoise all coaler

 Quick-release fuel filter and water separator A Ether start aid (for cold starts)

A Engine coolant heater, 1,000 watts, 110 volts A Special application: Trash screens, etc.* Flectrical Starter switch with electric fuel cutoff 12-volt electrical system Bertrical load center - Blade-type fuses /

Adjacent to operator's right in console Standard battery (1), 12 volt with 850 CCA. 176-min, rated reserve A A High-capacity batteries (2), 12 volt with 850 CCA 176-min, rated reserve

 Master electrical disconnect switch Alternator 12 volts: 60 amn on 304H, 65 amn on 324H and 344H Horn (conforms to SAE J994, J1446)

 Lights (conform to SAE 99): Driving, turn signals, flashers, stop, and taillights Pre-wired for front and rear work lights. ▲ Work lights, front (2) and rear (2) Reverse warning alarm (conforms to SAE) J994, J1446)

Multifunction monitor with sudible and visual warnings Low engine oil pressure / Engine coolant temperature / Transmission oil tempera-

ture / Parking brake indicator Gauges and indicators: Engine coolant temperature gauge / Fuel level gauge / Speedometer / Clock / Hourmeter

Operator warning lights: Engine air filter / Battery voltage / Fasten seat belt / Parking brake applied / Forward/reverse travel direction / 1st speed range or 2nd speed range / Turn signal indicator and hazard / High-beam driving lights

Radio-ready cab. fused 12-volt radio electrical lead and sneakers

· Pre-wired for roof beacon

334 324 344 Power Train/Brakes

 Wydrostatic (HST) transmission, electronic shift control twist-orin lever hydrostatic oil cooler, inching pedal, and two speeds forwant and reverse Spring-applied, hydraulically released park

ing brake, switch operated Conventional front and rear Conventional-type differential rear, limited-

slip front with 45% locking valve Hydraulic System

 Hydraulic system oil cooler Automatic hucket return-to-dis control Automatic boom height kickout control Reservoir sight gauge

 Fine micron hydraulic filters, vertical mounting Widraulic lever lockout Pliot-operated three-function valve with single joystick lever control for boom and bucket,

and auxiliary lever for standard pin disconnect and auxiliary hydraulics Two-function hydraulic valve with pilot joy stick control

A Three-function hydraulic valve with pilot joystick control and pilot auxiliary lever for third A A Four-function hydraulic valve with pilot joy-

atick control and allot coeffices laws for third function, and switch for fourth function Hydraulic conversion kits, four-function valve ▲ Hydraulic conversion kits, three-function valve and four-function valve

Quick-coupler diagnostic ports: Priority pressure, hydraulic pump pressure, control valve pressure, and HST pressure Tiree

405/70R20 15.5-25, 12 PR L2 ■ 175-25 12 PR 12

▲ 17.5-25, XLTA (L2 type) Michelin Radial Operator's Station

■ Cab (conforms to SAF J1040 APRINT: ROPS/ FOPS, heater/defroster, rubber-plane isolation mounted for noise/vibration reduction, intermittent front and rear windshield wipers and washers, tinted safety glass, full-width adjustable our visor, pre-wired for radio speakers, deluxe high-back cloth seat with mechanical suspension and 2-inch (51 mm)

"See your John Deere dealer for further information.

304 324 344 Operator's Station (continued) retractable seat helt, left and right doors, one

sliding window in each door ▲ ▲ Canopy (conforms to SAE J1040 APR88): ROPS/FOPS, rubber-plane isolation mounted for noise/vibration reduction, deluxe highback vinyl seat with mechanical susp and 2-inch (51 mm) retractable seat belt.

A Air conditioning (factory or dealer installed) Seat belt, 3-in. (76 mm), with retractor Storage compartment for operator's manual and other items Rubber floormat Tilt steering column Rearview mirrors, outside (2) and inside (1)

(conform to SAF MRS) Handholds and steps, ergonomically located and slip resistant (conform to SAE J185) Loader Linkage Z-bar loader linkage provides "high bucket breakout"

 Loader boom service locking bar (conforms) to SAE J38) **Ruckets and Attachments** A A Full line of buckets with selection of bolt-on

cutting edges and teeth Standard quick coupler A Quick coupler which accepts JRB attach-

▲ Full line of construction utility forks, pallet forks, extendible boom with hook, and other attachments*

Other · Fenders, front and rear Articulation locking bar (conforms to SAE

 Vandal protection, includes lockable engine enclosure and fuel fill Counterweight, built-in

 Rear bottom guard, built-in Drawbar, with locking pin • • Lift eyes Tie-downs

▲ ▲ Fire extinguisher A License plate bracket ▲ Secondary steering (304H meets IS05010 and SAE J/IS05010 secondary steering

▲ ▲ Material weighing system*

Control Owning and Operating Costs Customer Personal Service (CPS) is cost of John Deere's proactive. Su-before-fail strategy on machine

maintenance that will help control costs, increase profits and reduce stress. Included in this comprehensive lineup of ongoing programs, and services are: Fluid analysis program-tells you what's coing on inside all of your machine's major components so

you'll know if there's a problem before you see a decline in performance. Fluid analysis is included in most extended coverage and preventive-maintenance agreements. Component life-cycle data--oves you vital information on the projected life span of components and

lets you make informed decisions on machine maintenance by telling you approximately how many hours. of use you can expect from an engine, transmission, or hydraulic gumg. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

Preventive Maintenance (PM) agreements—give you a fixed cost for maintaining a machine for a given period of time. They also help you avoid downtime by ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles. Extended coverage—gives you a fixed cost for machine repairs for a given period of time so you can

effectively manage costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And an extended coverage contract also travels well because it's backed by John Deere and is honored by all Deere construction dealers. Continuer Support Advisors (CSAs)-Devre believes the CSA program lends a personal quality to

Customer Personal Service (CPS). Certified CSAs have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that's right for your husiness and take the burden of machine maintenance off your shoulders.



Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with all standard equipment, ROPS cabs, full fuel tanks, and 175-lb. (79 kg) operators: 304H unit with 405/70R20. (no fluid) tires: 324H unit with 15.5-25, 12 PR L2 tires and standard rear counter weight: and 346H unit with 17.5-25. 12 PR L2 tires and standard rear counterweight