TRUCKS



350D 400D







If you're looking to reduce operating costs without cramping productivity, take a hard look at – and a hard drive in – a new 350D or 400D Articulated Dump Truck from John Deere.

Built to haul more for less, both these heavy-duty off-road haulers deliver a better payload-to-weight ratio, improved fuel efficiency, and faster cycle times than ever before. What it all adds up to is more material moved for less money.

Turn the page to learn more about the exciting new 350D and 400D trucks and how they will haul bigger numbers to your bottom line.



MODEL NO.

350D 400D

Best-in-class payload-to-weight ratio gives you more power to haul the load. This minimizes cycle times while maximizing payload and productivity – and profitability.

The increased flow rate to the hydraulic system results in faster dump cycle times. With fewer components and only a single pump, the system is easy to maintain.

The oscillating frame joint, articulated steering, and high-floatation tires provide unbeatable performance in mud, tough terrain, and steep grades.

350D 400D



Makes quite a haul-when it co

There's no secret to becoming more profitable. Improving your bottom line means being able to haul more dirt, while keeping operator costs down. That's why the new 350D and 400D Articulated Dump Trucks (ADTs) make sense—or should we say, dollars and cents. These machines were designed from the ground up to haul the lowest cost per ton of any truck on the market. Extensive use of lightweight, high-strength materials give them the highest payload-to-weight ratios—and the best hauling efficiency—in their class. Having more power available means being able to handle bigger payloads with faster cycle times, so you can move more material for your dollar.

What really sets these ADTs apart is their ability to keep the job moving, no matter what the weather or underfoot conditions. With tight deadlines and even tighter margins, you simply can't afford to send the crew home on a rainy day. These machines thrive in tough terrain, steep grades, and mud—the kind of conditions where it just isn't cost-effective to run scrapers or rigid trucks. And while this kind of versatility is impressive, you'll be even more impressed the next time you look at your bottom line.







Family sedan or dirt-haulin', mud-crawlin' ADT? When confronted with its automotive styling, deluxe AM-FM radio, and in-dash beverage cooler, your operators will have trouble telling the difference.



The center-mounted cab provides outstanding visibility and comes complete with a comprehensive mirror package (electronic control is optional). The seat is optimally positioned behind the front axle to improve stability by reducing the rolling and pitching often experienced in off-road conditions.

The short-sloped front end provides a better approach angle for getting through rough terrain, which means less bottoming out in ditches or swales.

The oscillating frame joint provides unmatched traction and stability. Front and rear chassis move independently, keeping all six wheels in constant contact with the ground.

These ADTs are operator friendly, so you can put a new operator into one with a minimum of training. Controls wrap around the operator and are logically and conveniently placed.

Instruments and display units are easy to understand and use.

When the going gets tough, these trucks keep going.

Rainy days might get you down, but not a new D-Series truck. The high-flotation tires and the incredibly strong steering force let you "duck walk" out of the muck and mire.

Safety and profitability depend on being able to consistently stop "on the mark," which is why both trucks come with fully hydraulic, simple-to-service dry-disc brakes. The 450D also has wet-disc brakes on the front and middle axles, for 20 percent more stopping power. Both models are equipped with automatic engine brakes and spring-applied, air-released park brakes.

Automatic retardation provides superior braking power while reducing service brake wear.



StructurAll™ warranty covers articulated joints and major structures for unlimited hours for three years – free of charge!



MODEL NO.

350D 400D

Both 350D and 400D trucks are powered by the turbocharged, intercooled V-6, 12.0-L diesel engines. Their lightweight design maximizes fuel efficiency, plus their low emission output complies with future emission standards.

Planetary powershift transmission optimizes each shift point and puts more power on the ground, while preventing damage due to faulty shifting.

When it comes to superior reliability, lower maintenance requirements, and unsurpassed dealer support, the buck (and the truck) stop here.

Limiting downtime is the best way to reduce operating costs, and no trucks are more reliable or easier to maintain than the new 350D and 400D. Structural components – including chassis, articulation and oscillation joints, axles, and suspension – are fabricated from high-strength steel and are larger than most competitors. Plus, service intervals have been increased on the engine and hydraulics to 500 and 2,000 hours, respectively.

And when it comes to dealer support, in-field service, and parts availability, John Deere sets the industry standard. Our technicians have the training and the tools to keep you going when the going gets tough.

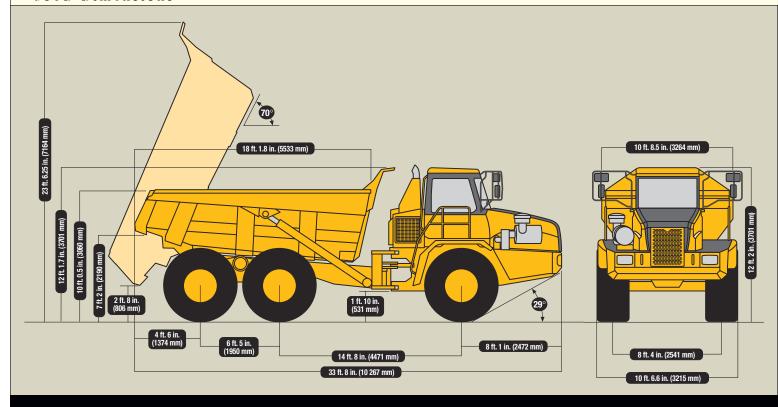
350I) 400I)



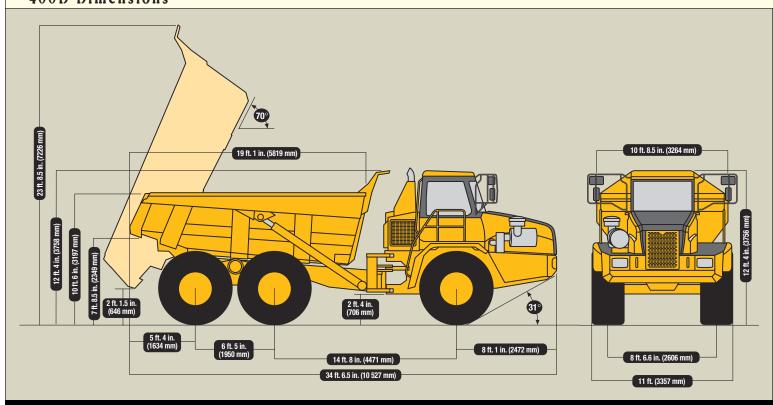
Engine	350D	400D	
Type	Mercedes Benz OM501LA	Mercedes Benz 0M501LA	
Configuration	V6 with integral exhaust brake and engine valve brake	V6 with integral exhaust brake and engine valve brake	
Aspiration		turbocharged and intercooled	
	liquid cooled with single-pass radiator and charged air cooler	liquid cooled with single-pass radiator and charged air cooler	
	380 SAE net hp (283 kW) / 389 SAE gross hp (290 kW) @ 1,800 rpm	413 SAE net hp (308 kW) / 422 SAE gross hp (315 kW) @ 1,800 rpi	
	1,365 lbft. (1850 Nm) @ 1,080 rpm	1,476 lbft. (2000 Nm) @ 1,080 rpm	
Displacement			
Displacement	/29 cu. III. (11.95 L)	729 cu. in. (11.95 L)	
Cransmission			
Configuration	Allison HD 4560R engine-mounted automatic planetary, hydraulically	Allison HD 4560R engine-mounted automatic planetary, hydraulical	
•	actuated multiple-disc clutches, electronic control, hydrodynamic	actuated multiple-disc clutches, electronic control, hydrodynami	
	torque converter with lock-up	torque converter with lock-up	
Retarder		variable hydraulic transmission	
Stall torque ratio		1.9 to 1	
Vehicle speeds (full load, 2% rolling		1.5 to 1	
resistance)	Forward Reverse	Forward Reverse	
Gear 1		5 mph (8 km/h) 4 mph (7 km/h)	
Gear 2		10 mph (16 km/h)	
Gear 3	15 mpn (24 km/n)	14 mph (23 km/h)	
Gear 4		22 mph (35 km/h)	
Gear 5		29 mph (46 km/h)	
Gear 6	34 mph (54 km/h)	32 mph (52 km/h)	
Transfer Box	350D / 400D		
	single-speed, helical geared with lockable torque-proportioning interaxle differential		
Output torque split		toraxic directinal	
4			
Axles			
	spiral bevel gear with controlled traction		
	outboard heavy-duty planetary reduction hub		
i iliai ulive type	outboard neavy-duty planetary reduction hub		
Braking System	350D	400D	
	dual-circuit, full-hydraulic, dry-disc brakes on all six wheels	dual-circuit, oil-immersed, multi-disc brakes on front and mid	
OCIVICO DIARO	dual circuit, full flydraulic, dry dioc brakes off all six wheels	axles	
Park and secondary	spring-applied, air-released, automatic slack-adjusting mechanical	spring-applied, air-released, automatic slack-adjusting mechanica	
Tark and occordary	caliper, driveline-mounted, dry disc	caliper, driveline-mounted, dry disc	
Auxiliary brake	automatic engine valve brake actuation and variable hydraulic	automatic engine valve brake actuation and variable hydraulic	
	transmission retarder	transmission retarder	
Maximum retardation		1,130 hp (830 kW)	
Waxiiiluiii ietaluatioii	1,100 Hp (023 kW)	1,130 lip (030 kW)	
neumatic System	350D / 400D		
Type	four-way pressure protected with air drier, heater, and integral unloa	nder valve	
System pressure	135 psi (930 kPa)		
Electrical System			
Voltage	24 volt		
Battery type			
Battery capacity			
Alternator rating			
Steering System			
	hydrostatically articulated with two double-acting hydraulic cylinders		
Angle	42 degrees side to side		
Lock-to-lock turns			

Type	Hydraulic System	350D	400D
Application steering, bin tipping, cooling for dive	Type	closed-center, load-sensing system	closed-center, load-sensing system
Flow	Main pump	axial piston, variable displacement	axial piston, variable displacement
Pressure	Application	steering, bin tipping, cooling fan drive	steering, bin tipping, hydraulic brake charging, cooling fan drive
Pressure	Flow	79 gpm (330 L/min.) @ governed engine speed	79 gpm (330 L/min.) @ governed engine speed
Application secondary steering, assist main steering secondary steering, assist main steering 32 gpm (122 L/min.) @ full ground speed Tires/Wheels Type			3,625 psi (25 000 kPa)
Filow	Secondary pump	axial piston, variable displacement	
Filow			
Type			
Size	Tires/Wheels		
Size	Type	radial earthmover	radial earthmover
Maximum ground pressure (loaded) .23 psi (156 kPa) middle .23 psi (156 kPa) middle	Size	26.5R25	29.5R25
Front type			23 psi (156 kPa) middle
Front type	Suspension	350D / 400D	
Body 350 D 400 D Capacity 22.1 cu, yd. (16.9 m²) 22.1 cu, yd. (16.9 m²) Heaped .26.1 cu, yd. (20.0 m²) @ 2-to-1 SAE ratio .29.4 cu, yd. (22.5 m²) @ 2 to 1 SAE ratio With optional taliqate .27.5 cu, yd. (21.0 m²) .30.9 cu, yd. (22.5 m²) @ 2 to 1 SAE ratio With optional taliqate .27.5 cu, yd. (21.0 m²) .30.9 cu, yd. (23.6 m²) Rated payload .77.6 soc. .76. soc. Raise time .14 soc. .14 soc. Tipping angle .70 degrees .70 degrees Service Capacities Fuel tank. .128 gal. (485 L) .8 gal. (30 L) Engine oil .8 gal. (30 L) .8 gal. (30 L) Engine collant. .9 gal. (33.6 L) .9 gal. (33.6 L) Transmission fluid (refill). .9 gal. (33.6 L) .9 gal. (36.1 L) Hydraulic reservoir .47 gal. (78 L) .47 gal. (37 L) Ade oil (front). .12 gal. (45 L) .12 gal. (45 L) Ade oil (front). .12 gal. (45 L) .12 gal. (45 L) Ade oil (front). .12 gal. (45 L) .12 gal. (45 L) <t< td=""><td>•</td><td></td><td>orted on oil/nitrogen suspension struts</td></t<>	•		orted on oil/nitrogen suspension struts
Proof			
Capacity Struck	near type	load-equalizing pivoting warking beams on each axie with	Transmated Suspension blocks
Capacity Struck	Body	350D	400D
Struck	•	U U U W	4 V V 4/
Heaped		10.0 cu vd. (15.2 m3)	22.1 cu. vd. (16.0 m3)
With optional taligate			
Rated payload			
Power-down time	Poted paylood	27.3 Gu. yu. (21.0 III ²)	
Raise time			, , , , , , , , , , , , , , , , , , , ,
Tipping angle			
Fuel tank			
Fuel tank	ripping angle	/U degrees	70 degrees
Engine oil			
Engine coolant			
Transmission fluid (refill)	Engine oil	8 gal. (30 L)	8 gal. (30 L)
Transfer case oil			9 gal. (33.6 L)
Hydraulic reservoir			9 gal. (34 L)
Axle oil (front)	Transfer case oil	5 qt. (4.5 L)	5 qt. (4.5 L)
Axle oil (middle)	Hydraulic reservoir	47 gal. (178 L)	47 gal. (178 L)
Axle oil (rear)	Axle oil (front)	12 gal. (45 L)	12 gal. (45 L)
Axle oil (rear)	Axle oil (middle)	12 gal. (45 L)	
Final drive			
Wet disc brake Reservoir oil .12 gal. (45.3 L) Front wheels .7 gal. (27 L) Middle wheels .7 gal. (27 L) Operating Weights Empty Front .29,982 lb. (13 600 kg) 32,221 lb. (14 615 kg) Middle .14,473 lb. (6565 kg) 16,050 lb. (7280 kg) Rear .14,462 lb. (6560 kg) 15,333 lb. (6955 kg) Total .58,919 lb. (26 725 kg) 63,603 lb. (28 850 kg) Loaded Front .40,808 lb. (18 510 kg) 42,759 lb. (19 395 kg) Middle .44,886 lb. (20 360 kg) 51,566 lb. (23 390 kg) Rear .44,875 lb. (20 355 kg) 50,850 lb. (23 065 kg) Total .130,569 lb. (59 225 kg) 145,174 lb. (65 850 kg) SAE Turning Radius Dimensions Inside turning circle radius .16 ft. 7 in. (5055 mm) 16 ft. (4894 mm)			
Front wheels			
Front wheels	Reservoir oil		12 gal. (45.3 L)
Middle wheels			
Empty Front			
Empty Front	Operating Weights		
Front	-		
Middle 14,473 lb. (6565 kg) 16,050 lb. (7280 kg) Rear 14,462 lb. (6560 kg) 15,333 lb. (6955 kg) Total 58,919 lb. (26 725 kg) 63,603 lb. (28 850 kg) Loaded Front 40,808 lb. (18 510 kg) 42,759 lb. (19 395 kg) Middle 44,886 lb. (20 360 kg) 51,566 lb. (23 390 kg) Rear 44,875 lb. (20 355 kg) 50,850 lb. (23 065 kg) Total 130,569 lb. (59 225 kg) 145,174 lb. (65 850 kg) SAE Turning Radius Dimensions Inside turning circle radius 16 ft. 7 in. (5055 mm) 16 ft. (4894 mm)		29.982 lb. (13 600 kg)	32,221 lb. (14 615 kg)
Rear 14,462 lb. (6560 kg) 15,333 lb. (6955 kg) Total 58,919 lb. (26 725 kg) 63,603 lb. (28 850 kg) Loaded Front 40,808 lb. (18 510 kg) 42,759 lb. (19 395 kg) Middle 44,886 lb. (20 360 kg) 51,566 lb. (23 390 kg) Rear 44,875 lb. (20 355 kg) 50,850 lb. (23 065 kg) Total 130,569 lb. (59 225 kg) 145,174 lb. (65 850 kg) SAE Turning Radius Dimensions Inside turning circle radius 16 ft. 7 in. (5055 mm) 16 ft. (4894 mm)		· · · · · · · · · · · · · · · · · · ·	
Total		, (),	
Loaded Front			
Front			50,500 .a. (=5 550 hg)
Middle		40 808 lh (18 510 kg)	42 759 lb. (19 395 kg)
Rear .44,875 lb. (20 355 kg) 50,850 lb. (23 065 kg) Total .130,569 lb. (59 225 kg) 145,174 lb. (65 850 kg) SAE Turning Radius Dimensions Inside turning circle radius .16 ft. 7 in. (5055 mm) 16 ft. (4894 mm)		, (),	
Total			
SAE Turning Radius Dimensions Inside turning circle radius		· · · · · · · · · · · · · · · · · · ·	
Inside turning circle radius16 ft. 7 in. (5055 mm) 16 ft. (4894 mm)	ιυιαι	100,000 ID. (00 220 kg)	143,114 lb. (03 030 kg)
			40.0 (100.1
Outside turning circle radius29 it. 11.5 iii. (9152 iiiiii) 30 tt. 2 iii. (9203 mm)			
	outside turning circle radius	23 IL. 11.5 III. (9132 MM)	30 IL Z III. (9203 MM)

350D Dimensions



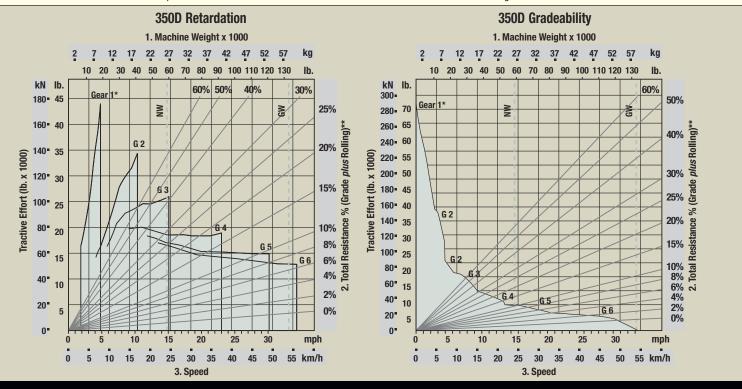
400D Dimensions

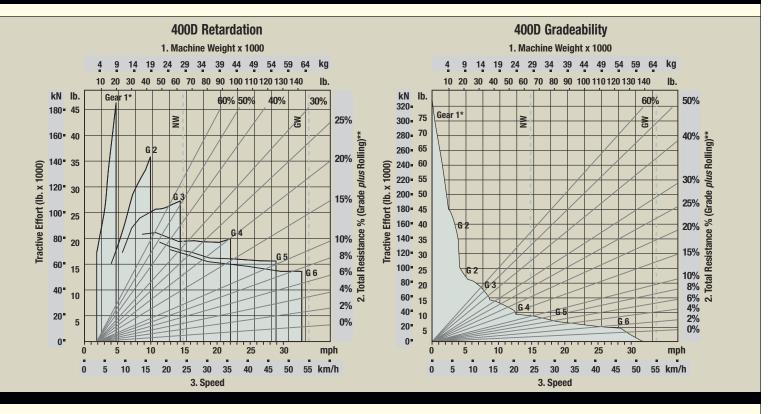


Retardation and Gradeability

- 1. Read from total weight down to % total resistance (diagonal line).
- 2. From that point, read horizontally to curve with highest attainable speed range.
- 3. Read down to maximum descent speed.

- *Gear 1 lock-up not engaged automatically, engaged only when Gear 1 selected manually.
- **2% rolling resistance assumed in chart.





350D / 400D Articulated Dump Trucks

Key: ■ Standard equipment ▲ Optional or special equipment

See your John Deere dealer for further information.

350D 400D **Engine**

- Mercedes Benz 0M501LA V6,
 380 SAE net hp (283 kW)
 - Mercedes Benz OM501LA V6,413 SAE net hp (308 kW)
- Crankshaft-driven fan
- Electric start aid
- Integral engine valve brake
- Turbocharged and intercooled
 Power Train
- Automatic exhaust brake
- Automatic planetary transmission

 hydrodynamic torque converter
 with lock-up
- Automatic transmission retarder
- Computer controlled for adaptive shifts
- Control traction differentials on all drive axles
- Dual-circuit, air-over-hydraulic, dry-disc brakes on all six wheels
 - Dual-circuit, oil-immersed, multidisc brakes on front and middle
- Interaxle differential splits torque
 33% to front, 67% to rear
- Lockable proportion differential transfer box
- Push-button drive neutral/ reverse controls
- Rocker switch range holds to prevent gear hunting
 Tipping Body
- 70-degree tip angle
- Body ducted for heating

350D 400D Tipping Body (continued)

- Mechanical/automatic tailgate
 - Hydraulic/automatic tailgate
- Single-stage cylinders
- ▲ Body heater exhaust connection kit
- ▲ Bin liner (⁵/₁₆ in. [8 mm]) **Hydraulic System**
- Closed-center, load-sensing system
 Electrical System
- 24-volt system
- 80-amp alternator
- Twin maintenance-free batteries
 Operator Station
- ROPS cab conforms to SAE J1040/ISO 3471/1
- FOPS cab conforms to SAE J231/ISO 3449
- Air conditioner
- Air-suspension seat
- AM/FM radio
- Compact sloped hood
- Full rearview mirror package
- Heater
- Hydromechanically articulated steering with two double-acting hydraulic cylinders
- Instrument panel functions:
 - Cold start indicator
 - Coolant level indicator
 - Engine service indicator (marked "Engine Fault")
 - Secondary steering indicator (marked "Emergency Steering")
 - Battery charge indicator

350D 400D Operator Station (continued)

- Instrument panel functions (continued):
 - Transmission retarder indicator
 - Transmission service indicator (marked "Transmission Fault")
 - Service required indicator
 - Engine overspeed indicator
 - Park brake indicator
 - Brake oil pressure indicator (400D only)
 - Brake temperature indicator (400D only)
 - Hydraulic oil temperature indicator
 - Dump body raised indicator (marked "Bin Up")
 - High beam indicator
 - Turn signals
- Seat belt with retractors
- Trainer's seat
- Windshield washer and wiper
- Electric and heated mirrors
 Overall Vehicle
- 26.5R25 radial, earthmover tires
- 29.5R25 radial, earthmover tires
- Center-mounted cab
- High-density polyethylene bearing in oscillation joint
- Independent front and rear chassis
- Leading A frame supported on oil/nitrogen suspension struts
- Mud covers (brake calipers)
- Tri-link rear suspension with 18 degrees of travel

Control Owning and Operating Costs

Customer Personal Service (CPS) is part of John Deere's proactive, fix-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 going 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 – gives 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 pump. 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.

Customer Support Advisors (CSAs) – Deere 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* business and take the burden of machine maintenance off your shoulders.



Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel at 35 API gravity. Gross power is without cooling fan.

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 standard equipment, ROPS cabs, full fuel tanks, 175-lb. (79 kg) operators, and radial earthmover tires (350D with 26.5R25 and 400D with 29.5R25). Capacity and loaded weights are based on 2,800-lb./cu. yd. (1660 kg/m³) material.

