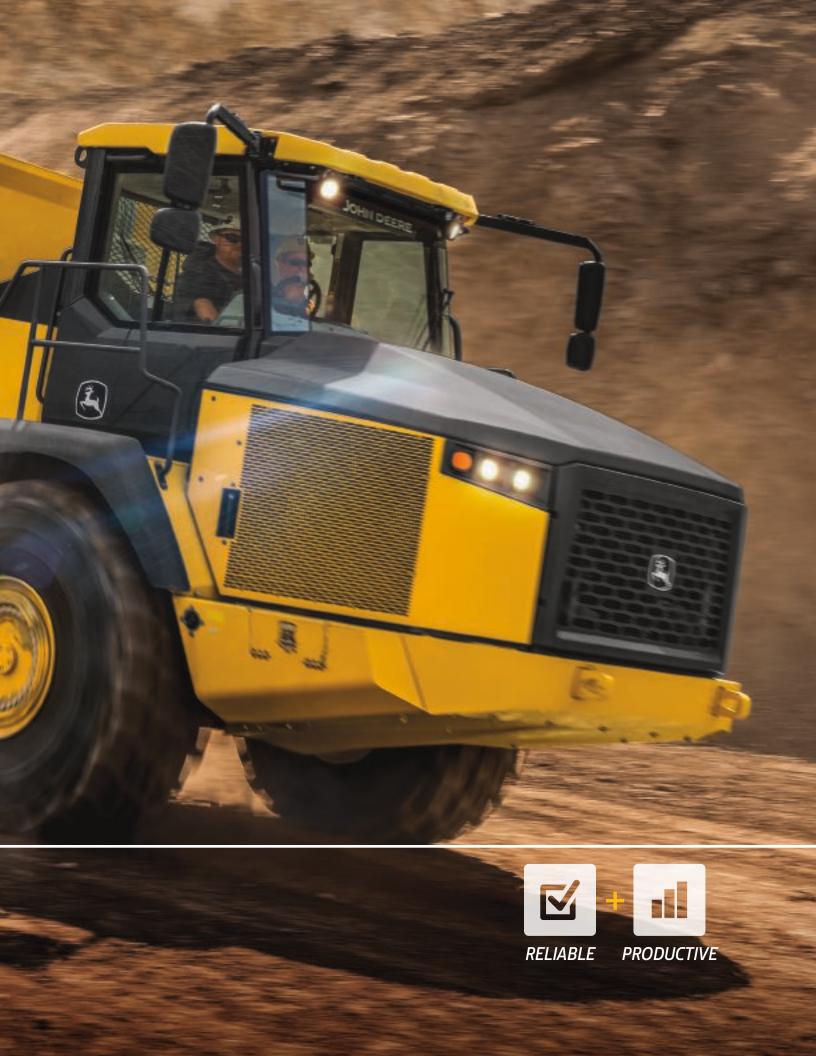
E-SERIES ADTS











BUILT FOR THE LONG HAUL

INCREASED SAFETY FOR SMOOTHER SAILING.

Designed and manufactured with state-of-the-art tools and techniques by a quality-conscious workforce at our world-class facilities in Dubuque and Davenport, E-Series ADTs are exceptionally safe and reliable. New Deeredesigned cab is pressurized to keep things quiet, helping operators stay comfortable and alert, all shift long.



Durable axles, transmission, and park brake

Heavy-duty, purpose-built John Deere axles are lubricated, filtered, and cooled for longer life. Spring-applied, hydraulic-released park brake is extremely reliable.

Strong, lightweight dump body and chassis

High-alloy-steel dump body and chassis deliver superior strength and rigidity without adding weight.

Powerful, fuel-efficient engines

Rugged EPA Tier 3/EU Stage IIIA and Tier 2/Stage II PowerTech diesel engines meet rigid emission regulations, enabling you to work, wherever there's work. Our field-proven technology is simple, fuel efficient, fully integrated, and fully supported.

Fuel-efficient cool-on-demand fan with reversing option

Engine, hydraulic, transmission, and service-brake coolers employ a hydraulic-drive fan that runs only as fast or as often as necessary, helping conserve power and fuel. Reversible option back-blows cooler cores, minimizing manual cleanout.



SPOILIGHT ON SAFETY

SO MANY GREAT FEATURES, IT TOOTS ITS OWN HORN.

Whether you are working at a Mine Safety and Health Administration (MSHA)-regulated mining site or quarry, or running an aggregate operation, safety comes first and foremost. Exclusive features such as remote park-brake release, rollover protection, ground-level service, and auto horn help keep operators out of harm's way.

Release the park brake remotely

Remote park-brake release allows the park brake to be safely disengaged without climbing under the machine, should towing be necessary.

Rollover protection

When enabled, the operator can set limits for the rear-chassis level when unloading. If the limit is exceeded, the dump body will not raise and a message will appear on the monitor instructing the operator to reposition the truck.

Ground-level service

A Deere exclusive, daily service can be performed from ground level without needing to mount the machine and tie off, as required by MSHA.

Auto horn alerts

When activated, auto horn will automatically sound when the truck is started, moves forward or in reverse, or changes direction, to help comply with MSHA regulations.

Secure dump-body service

Safety bar locks the dump body to the mainframe and disengages the hydraulics when the dump body is in a fully upright position, for safer service.

Conveniently located remote jumper post

Jumper posts are easily accessible from ground level should a booster pack need to be hooked up to a dead battery.

Streamlined mirror-bow design

New mirror-bow design won't obstruct visibility. Or impede access to the engine bay, enabling easier service.

Lighting the way

To ease entry and exit, stairway lights can be turned on by pushing a button from ground level. Push the button again to turn off the lights, or they will turn off automatically after a predetermined length of time. And unlike many competitor trucks, stairs are evenly spaced, reducing the risk of stumbling and falling.

Match slope to correct gear

Inclinometer shows the slope of the truck on the monitor, so the incline can be properly matched to the gear listed on the conveniently located chart.

Fatique-beating features

Creature comforts include keyless start, low-effort push-button controls, air-suspension heated high-back seat, tilt/telescoping steering wheel, and optional premium radio with Bluetooth®, auxiliary input, and Satellite Radio™ capability.

High worklights increase visibility

Front and rear worklights help extend the workday when necessary. Optional LED lights are mounted high to expand illumination.



KEEP MATERIALS AND PROFITS FLOWING

WON'T GET STUCK IN THE MUCK.

Delivering impressive power and torque for exceptional power-to-weight ratios and fast cycles, E-Series ADTs haul more for less cost per ton. And they keep materials moving through steep slopes, deep ruts, and slippery muck.







Wide-profile-tire option

Among the many tire options, a wide-profile design provides superior flotation in soft ground conditions.

No more weight calibrations in the field

Optional onboard weighing system has been factory calibrated to two-percent accuracy when payload exceeds 50 percent. The system displays the payload on the monitor during loading, while transmitting real-time load and tonnage data via JDLink™, so you can monitor productivity from virtually anywhere.

Steady on slopes

When the operator's foot comes off both the accelerator and the brake, the system uses the transmission retarder to maintain travel speed automatically — reducing service-brake wear and operator fatigue.

Smooth, optimized shifting

Purpose-built transmission provides eight forward and four reverse gears to speed cycles and expand the working range across all jobsite conditions.

Engage auto-diff lock on-the-fly

Traction-boosting auto-diff lock engages and disengages as necessary, simplifying operation. Or it can be engaged on-the-fly while slipping.

Smooth, stable ride

Exclusive adaptive-suspension system adjusts to the jobsite, smoothing out the ride and helping keep the cab more stable. Unlike the expensive options available on other trucks, ours is standard equipment.



EASY MAINTENANCE

GROUND-LEVEL SERVICE KEEPS BOOTS ON THE GROUND.

Simple, safe ground-level access

All daily checks and periodic service are done from ground level, including refilling fuel. Fluid-sample ports, jumpstart terminals, and electrical disconnect switch are also front and center.

Consistent stopping power and maximum brake life

Designed specifically for the E-Series, inboard wet-disc brakes run cool, clean, and unexposed. Combined with the strongest transmission retarder in the industry, they help ensure consistent stops and maximum brake life.

Easy lube

Greaseless pins and bushings are used throughout except in the articulation joint and oscillation area. By customer request, those items employ lube banks that bring difficult-to-reach zerks within easy access. And a convenient lube and maintenance chart helps ensure that nothing gets overlooked.

Easy-to-service DPF

Ash-service intervals for the diesel particulate filter (DPF) are condition based, meaning the machine will notify the operator before service is required. Typically, ash service is not necessary until the first engine overhaul. Machine application, regular maintenance practices, and type of lubricating oil impact ash-service intervals.



Keep downtime down with

ULTIMATE UPTIME

Ultimate Uptime, featuring John Deere WorkSight™, is a customizable support solution available exclusively from your Deere dealer. This flexible offering maximizes equipment availability with standard John Deere WorkSight capabilities that can help prevent future downtime and speed repairs when needed. In addition to the base John Deere WorkSight features, our dealers work with you to build an uptime package that meets the specific needs of your machine, fleet, project, and business, including customized maintenance and repair agreements, onsite parts availability, extended warranties, fluid sampling, response-time quarantees, and more.

Get valuable insight with

JOHN DEERE WORKSIGHT

John Deere WorkSight is an exclusive suite of telematic solutions that increases uptime while lowering operating costs. At its heart, JDLink™ Ultimate machine monitoring provides real-time data and health prognostics to suggest maintenance solutions that decrease costly downtime. Remote diagnostics enable your dealer to read codes, record performance data, and even update software without a trip to the jobsite.



overheating result in an audible warning, and an email alert is sent to you via JDLink.

Reliable articulation/oscillation joint

Long-term durability demands bigtime strength in the critical articulation/oscillation joint. Widely spaced oversized pins and roller bearings, stay-tight oscillation bearing, and the largest throat/tube diameter on any ADT all shout best-in-class.

Available guick-service fluid-evacuation points, standard easy-access vertical filters, environmental drains, and common oils help speed periodic maintenance and increase uptime.

Service points and sample ports are color-coded to help speed preventive maintenance and troubleshooting. Additional diagnostics including temperatures and pressures are accessible through the monitor.

Swing-out fans and coolers

Hinged swing-out fans and coolers open wide to reveal the cooler cores, making cleanout quick and easy.





PECIFICATIONS

Engine	460E			
Manufacturer and Model	John Deere PowerTech™ 6135		John Deere PowerTech 6135	
Non-Road Emission Standards	EPA Tier 3/EU Stage IIIA		EPA Tier 2/EU Stage II	
Configuration	Inline 6		Inline 6	
Valves per Cylinder	4		4	
Displacement	13.5 L (823.8 cu. in.)		13.5 L (823.8 cu. in.)	
Net Peak Power (ISO 9249)	359 kW (481 hp) at 1,900 rpm	1	359 kW (481 hp) at 1,900 rpm	
Net Peak Torque (ISO 9249)	2401 Nm (1,771 lbft.)		2401 Nm (1,771 lbft.)	
Aspiration	Twin turbocharged and charge	e air cooled	Turbocharged and charge air cooled	
Fuel System	Mechanically acuated electronic unit injection, with 10- and 4-micron filtration and water separator			
Cold-Start Aid	Optional ether start, block heater, and diesel-fired coolant heater Optional ether start, block heater, and diesel-fired coolant heater			
Cooling	optional ethici start, siockine	itel, and diesel med essiant neut	optional care start, proceducately and dieser med coolain neater	
Engine Cooling	Liquid cooled with single-pass	s radiators, remote pressurized co	olant tank, and charge air cooler	
Powertrain	ļ		,	
Transmission	8-speed forward, 4-speed rev	erse, countershaft/planetary type	with integral retarder and torque-proportioning differential	
Manufacturer and Model	ZF ErgoPower™ L II 8EP470			
Retarder	Integral, gear dependent, hydrodynamic, oil-to-air cooled, variable, fully automatic			
Differential	Torque-proportioning, planetary-type, Inter-axle Differential Lock (IDL) with PowerShift™ lockup clutch			
Output Torque Split	32% front / 68% rear	3-31		
Shift Controls	Fully automatic, direct-drive lo	ockup, smooth electronically contr	rolled power shifts, variable-load speed-based shift points	
Operator Interface			table retarder aggressiveness, downhill-descent control, and gear-hold	
Speeds	Forward	Reverse		
Gear 1	5 km/h (3.1 mph)	6 km/h (3.7 mph)		
Gear 2	8 km/h (5.0 mph)	8 km/h (5.0 mph)		
Gear 3	12 km/h (7.5 mph)	12 km/h (7.5 mph)		
Gear 4	17 km/h (10.6 mph)	17 km/h (10.6 mph)		
Gear 5	24 km/h (14.9 mph)	_		
Gear 6	34 km/h (21.1 mph)	_		
Gear 7	48 km/h (29.8 mph)	_		
Gear 8	55 km/h (34.2 mph)	_		
Axles				
Manufacturer and Model	John Deere 1500-Series Haule	er Axles		
Differential	Helical transfer gears, spiral bevel, hydraulically actuated PowerShift Cross-axle Differential Lock (CDL)			
Final Drive		nted planetary; cooled and filtered		
Brake System	•			
Service	Dual-circuit, hydraulically actu	uated, wet multi-disc, force cooled	d, inboard mounted	
Parking	Spring-applied hydraulically released, driveline-mounted, dry-disc with self-adjusting wear pad			
Auxiliary	Fully automatic; transmission	mounted, gear dependent; hydrod	dynamic retarder with selectable levels	
Hydraulics				
Type	Axial-piston main pump; close	d-center, variable-displacement, l	load-sensing system	
Dump Cylinders	Dual-acting, single-stage with	Dual-acting, single-stage with heat-treated, chrome-plated, and polished cylinder rods; hardened steel replaceable bushings and		
	pivot pins			
Cycle Time	7 sec. power down / 13 sec. ra	aise time		
Electrical				
Voltage	24 volt			
Number of Batteries	2 x 12 volt			
Battery Capacity	950-CCA batteries (2) standard / 1,400-CCA batteries (2) optional			
Alternator	28 volt / 100 amp			
Steering System				
Туре		uble-acting hydraulic cylinders; gr	ound-driven secondary steering pump	
Angle	45 deg. side to side			
Lock-to-Lock Turns	4.2			
Secondary Steering Pump	Ground-driven gear pump wit	h hydraulic unloader valve		
Suspension				
Front	Semi-independent leading A-f nitrogen-charged accumulato		nk for lateral restraint and self-leveling oil-filled struts with remote	
Rear			sion blocks, tri-link geometry, and transverse links for lateral restraint	
Dump Body	1 3.1	<u> </u>		
Type	High-strength steel			
Capacity				
Struck	20.6 m³ (26.9 cu. yd.)			
Heaped at 2:1 ISO 6483 Ratio	25.5 m³ (33.4 cu. yd.)			
With Optional Tailgate	26.9 m³ (35.1 cu. yd.)			
Maximum Dump Angle	70 deg.			
Heater	Body ducted to accept option	al exhaust heating		
	- 1	-		





Tires/Wheels	460E		
Type and Size	29.5R25 radial earthmovers standard / 875/65R29 optional		
Serviceability			
Ground-Level Service			
Fluids and Filters	Ground-level checks of engin transmission, and fuel filters	ne, transmission, and hydraulic oil levels; ground-level fuel refill; ground-level replacement of engine,	
Coolers	Swing-out coolers for easy cl	leaning standard; reversing fans optional	
Fluid Sampling		rd; quick-service ports optional	
Refill Capacities	. 3.		
Fuel Tank	609 L (160.9 gal.)		
Engine Oil with Filter	55 L (14.5 gal.)		
Engine Coolant	85 L (22.5 gal.)		
Transmission Fluid	60 L (15.9 gal.)		
Hydraulic Reservoir	176 L (46.5 gal.)		
Axle Fluid with Filter			
Front	62 L (16.4 gal.)		
Mid	62 L (16.4 gal.)		
Rear	68 L (18.0 gal.)		
Operating Weights			
With Standard Equipment	Empty	Loaded	
Front	16 976 kg (37,426 lb.)	22 517 kg (49,641 lb.)	
Middle	7697 kg (16,969 lb.)	25 836 kg (56,959 lb.)	
Rear	7545 kg (16,634 lb.)	25 684 kg (56,623 lb.)	
Total	32 218 kg (71,028 lb.)	74 037 kg (163,223 lb.)	
Rated Payload	41 819 kg (92,195 lb.)		
Optional Components			
Dump-Body Liner (steel)	1365 kg (3,009 lb.)		
Tailgate	919 kg (2,026 lb.)		
875/65R29 Tires	933 kg (2,057 lb.)		
Operating Dimensions			
Turning Circle Radius			
Inside	4.63 m (15 ft. 2 in.)		
Outside	8.90 m (29 ft. 2 in.)		
Machine Dimensions			
A Width with Mirrors in Operating Position	3.80 m (12 ft. 5 in.)		
B Length	10.81 m (35 ft. 6 in.)		
C Height	3.86 m (12 ft. 8 in.)		
Tires	29.5R25	875/65R29	
Wheel	25x25.00/3.5 – 5-piece	29x27.00/3.5 – 5-piece	
D Tread Width	2.66 m (8 ft. 9 in.)	2.70 m (8 ft. 10 in.)	
E Width Over Tires	3.41 m (11 ft. 2 in.)	3.58 m (11 ft. 9 in.)	
F Width Over Fenders	3.44 m (11 ft. 3 in.)	3.65 m (12 ft. 0 in.)	
G Ground Clearance	0.54 m (21.3 in.)	0.54 m (21.3 in.)	
H Dump Body Height, Dump Position	7.00 m (22 ft. 11 in.)		
I Dump Body Side Rail Height	3.47 m (11 ft. 5 in.)		
J Dump Body Dump Lip Height, Transport Position	2.41 m (7 ft. 11 in.)		
K Dump Body Ground Clearance, Dump Position	0.84 m (33.2 in.)		
L Dump Body Length	6.01 m (19 ft. 8 in.)		
M Rear Axle Centerline to Rear of Dump Body	1.48 m (4 ft. 10 in.)	R	
N Mid Axle to Rear Axle Centerline	1.96 m (6 ft. 5 in.)		
O Front Axle to Mid Axle Centerline	4.63 m (15 ft. 2 in.)		
P Front Axle Centerline to Front of Machine	2.74 m (9 ft. 0 in.)		
Q Approach Angle	26 deg.		
R Maximum Dump Angle	70 deg.		
Shipping Dimensions			
Overall Height (suspension lowered 75 mm [3 in.])	3.78 m (12 ft. 5 in.)		
Overall Width			
Dump Body	3.36 m (11 ft. 0 in.)	NP	
Tailgate Installed	3.64 m (11 ft. 11 in.)	В	

Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

/ COF	
460E	Engine
TOOL	Linginic

- Meets EPA Tier 3/EU Stage IIIA emissions
- Meets EPA Tier 2/EU Stage II emissions
- John Deere PowerTech™ 6135 13.5L (824 cu. in.)
 inline 6
- Wet-sleeve cylinder liners
- Variable-geometry turbocharger (VGT)
- External cooled exhaust gas recirculation (EGR)
- Dual-element air cleaner
- Precleaner
- Fuel/water separator
- Ground-level fueling fill
- ▲ Fast fill
- Serpentine drive belt with automatic tensioner
- ▲ Ether start aid (recommended below −1 deg. C [30 deg. F])
- Block heater (recommended below –18 deg. C
- ▲ Diesel-fired coolant heater (DFCH) (required below —25 deg. C [—13 deg. F])
- Programmable auto-shutdown
- Automatic turbo cool-down/shutdown timer
- Flat-black exhaust stack
- ▲ Chrome exhaust stack
- ▲ Severe-duty fuel filter
- Severe-duty fuel filter with heater

Cooling

- Dual hydraulically driven, side-mounted fans
- Side-mounted radiators (2), charge-air cooler, front and mid-axle coolers, transmission cooler, hydraulic cooler, air-conditioner condenser, and fuel cooler
- Integral engine oil cooler
- Remote pressurized coolant reservoir
- John Deere Cool-Gard™ II long-life engine coolant
- Reversing fans

460E Powertrain

- Transmission diagnostic ports
- Transmission oil-temperature self-protection
- Remote-mounted spin-on transmission oil filters
- Remote-mounted replaceable-element axle-oil filters
- Axle-oil temperature and lube-pressure sensing
- Automatic engaging retarder with selectable aggressiveness

Electrical System

- 24-volt system voltage
- 100-amp alternator
- Solid-state electrical distribution system
- Battery disconnect
- Batteries, 2 x 950 CCA
- ▲ Batteries, 2 x 1,400 CCA
- Drive lights
- Stair and service lights
- ▲ Deluxe halogen work lights, front and rear
- ▲ Deluxe LED work lights, front and rear
- LED rear turn signals/brake lights
- Electric horn
- Reverse alarm
- ▲ Beacon/strobe light
- ▲ 24-volt to 12-volt 15- or 25-amp converter

Hydraulic System

- Closed-center, load-sensing system
- Axial-piston, variable-displacement main pump
- Single-stage, dual-acting, dump-body tip cylinders
- Electrohydraulic dump-body control

Steering System

Ground-driven secondary steering pump

Additional equipment (continued)

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

460E Operator Station

- ROPS/FOPS certification
- Keyless start
- Tilt cab
- Programmable dump-body control settings
- Air conditioner
- Heater
- AM/FM radio/CD player
- Rear window guard
- Wiper/washer with intermittent control
- Tilt and telescoping steering wheel
- Fully adjustable, air-suspension, heated, high-back cloth and leather seat
- ▲ Air-suspension, low-back, cloth seat
- 76-mm (3 in.) retractable operator seat belt
- Foldaway trainer seat with retractable seat belt
- 12-volt power outlet
- Cup holder
- Reverse camera
- ▲ Ashtray and 12-volt cigarette lighter
- ▲ Electric adjustable and heated mirrors
- Deluxe monitor: Speedometer / Fuel gauge / Transmission oil temperature gauge / Engine coolant temperature gauge / Gear indicator / Tachometer / Battery voltage / Hour meter / Odometer / Fuel consumption / Trip counter / Trip timer / Trip distance / Metric/Imperial units / Service codes/diagnostics / LED indicator lights and audible alarm / Programmable dump-body rollover protection / Onboard weighing display / Multi-language capability / Tire-pressure-monitoring system warning

460E Operator Station (continued)

- Backlit sealed-switch module functions: Keyless start/stop / F-N-R / Hazard light button / Park brake / Descent control / Gear-lock button / Gear up/down button / Inter-axle Differential Lock (IDL) / Retarder adjustment / Automatic dumpbody control settings
- Dump-body lever control

Dump Body

- Dump-body safety lock bar
- ▲ Dump-body liner (steel)
- ▲ Tailgate
- ▲ Dump-body heater
- ▲ Less dump body and cylinders

Other

26.5R25 radial earthmovers

- 29.5R25 radial earthmovers
- 875/65R29 radial earthmovers
- Remote grease banks
- Quick-service bank
- Articulation lock
- ▲ Onboard weighing system with external load lights
- Tire-pressure-monitoring system with temperature compensation
- Fire extinguisher
- JDLink™ Ultimate wireless communication system with 5-year subscription (available in specific countries; see your dealer for details)
- ▲ JDLink Ultimate dual-mode cellular/satellite wireless communication system with 3-year subscription (available in specific countries; see your dealer for details)



You have the kind of job where being knee-deep in mud is just a day at the office. And we can relate because we're right there with you. Our highly trained service techs are just a call away — *no matter what you get yourself into.*



