













#### **Body of work**

Redesigned, wider dump body than previous models boosts material retention and lowers loading height and center of gravity, improving cycle times in quarry and aggregate applications. Bin rail with angled top lessens material spillage during travel. Reduced transport width of under 12 feet eases moving between jobsites.

## **Driven to succeed**

Three drive modes enhance machine response to match the application: **Normal** for typical operation; **Eco** that, when conditions allow, conserves fuel by smoothing throttle input, reducing maximum rpm, and optimizing transmission response for those conditions; and **Traction**, which applies added control to the auto-differential-lock system and powertrain to maximize traction over soft and slippery ground.

## Rugged and reliable

Robust machine sensors and simplified routing of electrical harnesses and hydraulic hoses improve reliability. Reduction of hose length and number of connections

- 10-percent fewer than E-Series models
- minimizes system complexity.

# **Fuel saver**

Eco mode automatically adjusts engine power and transmission settings based on load while limiting horsepower, for fuel savings of up to seven percent over E-Series models and up to 12 percent compared to Normal mode.

#### Cab comforts

Quiet, pressurized cab features an easy-to-read monitor and rear-camera display plus optional automatic temperature control (ATC) system that allows operators to simply select a desired temperature to get and stay comfortable. Standard high-back air-suspension seat adjusts multiple ways for all-day support. Or opt for the premium heated/ventilated seat with heavy-duty air-suspension and adjustable seat pan.

## Strong for the long haul

High-alloy-steel dump body and chassis deliver exceptional strength and rigidity without adding excess weight. Heavy-duty, purpose-built axles are lubricated, filtered, and cooled, for longer life. Spring-applied, hydraulic-released park brake is extremely reliable.

## See clearly now

Opt for the LED lighting package for extra illumination. LED drive lights deliver twice the lumen output of standard halogens and include additional worklights three times as bright as optional halogens. This option provides a total of 11 LED lights. Stairway lights are pushbutton operated from inside the cab and also at ground level.

## Weighty matters

Calibrated at the factory, optional onboard weighing system displays payload weight on the in-cab monitor during loading, with real-time load and tonnage data transmitted via JDLink™. Access to accurate payload values removes the guesswork from daily production levels, increasing uptime and efficiency.

#### Take a load off

When enabled through the monitor, the operator can limit the percentage the rear chassis is off-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 ADT.

## Hit the ground running

A Deere exclusive, all daily checks and periodic service are accessible from ground level, including refills of fuel and diesel exhaust fluid (DEF). Optional factory-installed auto lube is electrically powered and integrated with machine diagnostics to help simplify daily maintenance.

## The safety factor

When the dump body is fully upright, the safety bar locks it to the mainframe and disengages the hydraulics, for secure servicing. Standard rear camera with choice of display enables operator visibility to obstacles in the path of the ADT while backing up. When activated, standard auto horn automatically sounds when the ADT is started, moves forward or in reverse, or changes direction, to comply with Mine Safety and Health Administration regulations.

#### **Precision Construction**

This suite of construction technology delivers **Productivity** Solutions to help you get more done, more efficiently. In-base JDLink connectivity provides machine location, utilization data, and alerts to help you maximize productivity and efficiency. To maximize uptime and lower costs, JDLink also enables John Deere **Connected Support**™. Dealers use Expert Alerts based on data from thousands of connected machines to proactively address conditions that may otherwise likely lead to downtime. Your dealer can also monitor machine health and leverage remote diagnostics and programming capability to further diagnose problems and even update machine software without a timeconsuming trip to the jobsite.\*

\*Availability varies by region. Options not available in every country.







# 410 P-TIER ADT SPECIFICATIONS



While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Engine	410 P-TIER			
Manufacturer and Model	John Deere PowerTech™ 6135	John Deere PowerTech™ 6135 John Deere PowerTech 6135		
Non-Road Emission Standards	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA		
Configuration	Inline 6 with variable-geometry turbocharger (VGT) and exhaust gas recirculation (EGR)			
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)	329 kW (441 hp) at 1,700 rpm	329 kW (441 hp) at 1,700 rpm		
Net Peak Torque (ISO 9249)	2414 Nm (1,780 lbft.) at 1,200	rpm 2414 Nm (1,780 lbft.) at 1,200 rpm		
Aspiration	Twin turbocharged and charge	e-air cooled Twin turbocharged and charge-air cooled		
Fuel System	Mechanically actuated electro	nic unit injection, with 10- and 4-micron filtration and water separator		
Cold-Start Aid	Optional ether start, block hea	ater, and diesel-fired coolant heater		
Cooling				
Engine Cooling	Coolant mixture air cooled wit	Coolant mixture air cooled with two single-pass radiators and a remote pressurized coolant tank;		
	separate charge-air cooler use	separate charge-air cooler used for air system		
Powertrain				
Transmission	8-speed forward, 4-speed rev	8-speed forward, 4-speed reverse, countershaft/planetary type with integral retarder and torque-		
	proportioning differential			
Retarder		odynamic, oil-to-air cooled, variable, fully automatic		
Differential	Torque-proportioning, planeta	ary-type, inter-axle differential lock (IDL) with PowerShift™ lockup clutch		
Output Torque Split	32% front / 68% rear			
Shift Controls	Fully automatic, electronically	modulated PowerShift, load-speed adaptive with gear-skip and gear-		
	hunting protection			
Operator Interface	Push-button F-N-R, selectable	Push-button F-N-R, selectable speed- and gear-range limits, selectable retarder aggressiveness,		
	downhill-descent control, and gear-hold			
Speeds	Forward	Reverse		
Gear 1	6 km/h (4 mph)	6 km/h (4 mph)		
Gear 2	8 km/h (5 mph)	8 km/h (5 mph)		
Gear 3	11 km/h (7 mph)	11 km/h (7 mph)		
Gear 4	16 km/h (10 mph)	16 km/h (10 mph)		
Gear 5	23 km/h (14 mph)	_		
Gear 6	32 km/h (20 mph)	_		
Gear 7	45 km/h (28 mph)	_		
Gear 8	55 km/h (34 mph)	-		
Axles				
Differential	Helical transfer gears, spiral b	Helical transfer gears, spiral bevel, hydraulically actuated PowerShift cross-axle differential lock (CDL)		
Final Drive	Extreme-duty outboard-mounted planetary; cooled and filtered oil			

# 410 P-TIER ADT SPECIFICATIONS





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Powertrain (continued)	410 P-TIER	
Brake System		
Service	Dual-circuit, hydraulically actuated, wet multi-disc, force cooled, inboard mounted	
Parking	Spring-applied hydraulically released, driveline-mounted, dry-disc with self-adjusting wear pad	
Auxiliary	Fully automatic; transmission mounted, gear dependent; hydrodynamic retarder with selectable levels	
Hydraulics		
Туре	Closed-center, variable-displacement, load-sensing system	
Main Pump	Variable-displacement, axial piston	
Secondary Steering Pump	Ground-driven gear pump with hydraulic unloader valve	
Dump Cylinders	Dual-acting, single-stage with heat-treated, chrome-plated, and polished cylinder rods; hardened steel replaceable bushings and pivot pins	
Cycle Time		
Power Down	7 sec.	
Raise Time	12 sec.	
Electrical		
Voltage	24 volt	
Number of Batteries	2 x 12 volt	
Battery Capacity	1,400-CCA batteries	
Alternator	28 volt / 145 amp	
Steering System		
Туре	2 hydrostatically actuated, double-acting hydraulic cylinders; ground-driven secondary steering pump	
Angle	45 deg. side to side	
Lock-to-Lock Turns	4.0	
Suspension		
Front	Semi-independent leading A-frame geometry with transverse link for lateral restraint and self-leveling oil-filled struts with remote nitrogen-charged accumulators	
Rear	Load-equalizing, pivoting walking beams with laminated suspension blocks, tri-link geometry, and transverse links for lateral restraint	
Dump Body		
Туре	High-strength steel	
Capacity		
Struck	17.1 m³ (22.3 cu. yd.)	
Heaped at 2:1 ISO 6483 Ratio	22.9 m³ (30.0 cu. yd.)	
With Optional Tailgate	24.2 m³ (31.7 cu. yd.)	
Maximum Dump Angle	70 deg.	
Heater	Body ducted to accept optional exhaust heating	
Tires/Wheels		
Size and Type	29.5R25 radial earthmovers standard / 875/65R29 optional	

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Serviceability	410 P-TIER		
Ground-Level Service			
		ansmission, and axle oil-level check and filter replacement; ground-level fueling	
	and fuel-filter replacement		
Coolers	Swing-out coolers for easy cleaning standard; reversing fans optional		
Fluid Sampling	Fluid-sampling ports standard; quick-service ports optional		
Refill Capacities			
Fuel Tank	609 L (160.9 gal.)		
Diesel Exhaust Fluid (DEF) Tank	48 L (12.7 gal.)		
Engine Oil With Filter	43 L (11.4 gal.)	43 L (11.4 gal.)	
Engine Coolant	90 L (23.8 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	17 082 kg (37,659 lb.)	22 863 kg (50,404 lb.)	
Middle	7159 kg (15,783 lb.)	22 902 kg (50,489 lb.)	
Rear	7159 kg (15,783 lb.)	22 902 kg (50,489 lb.)	
Total	31 400 kg (69,225 lb.)	68 666 kg (151,382 lb.)	
Rated Payload	37 266 kg (82,157 lb.)		
Optional Components			
Dump-Body Liner (steel)	1389 kg (3,062 lb.)		
Tailgate	943 kg (2,079 lb.)		
875/65R29 Tires	1286 kg (2,835 lb.)		
Operating Dimensions			
Turning Circle Radius			
Inside	4.63 m (15 ft. 2 in.)		
Outside	8.90 m (29 ft. 2 in.)		

A V P P P P P P P P P P P P P P P P P P	Achine Dimensions Width With Mirrors in Operating Position Length Height Fire Options Fread Width Width Over Tires Width Over Fenders	410 P-TIER 3.85 m (12 ft. 8 in.) 10.64 m (34 ft. 11 in.) 3.85 m (12 ft. 8 in.) 29.5R25 2.66 m (8 ft. 9 in.)	875/65R29	
B L C H T D T E V G G	Position Length Height Fire <b>Options</b> Fread Width Width Over Tires	10.64 m (34 ft. 11 in.) 3.85 m (12 ft. 8 in.) 29.5R25	875/65R29	
C F T D T E V G G G	Height F <b>ire Options</b> Fread Width <i>N</i> idth Over Tires	3.85 m (12 ft. 8 in.) <i>29.5R25</i>	875/65R29	
D T E V G G	<b>Fire Options</b> Fread Width <i>N</i> idth Over Tires	29.5R25	875/65R29	
D T E V F V G G	Tread Width Nidth Over Tires		875/65R29	
<b>E</b> V <b>G</b> G	Width Over Tires	2.66 m (8 ft. 9 in.)		
F V G G			2.70 m (8 ft. 10 in.)	
<b>G</b> (	Nidth Over Fenders	3.41 m (11 ft. 2 in.)	3.58 m (11 ft. 9 in.)	
		3.44 m (11 ft. 3 in.)	3.65 m (12 ft. 0 in.)	
ш г	Ground Clearance	0.54 m (21 in.)	0.54 m (21 in.)	
	Dump Body Height, Dump Position	7.20 m (23 ft. 7 in.)		
I D	Dump Body Side Rail Height	3.14 m (10 ft. 4 in.)		
T	Dump Body Dump Lip Height, Fransport Position	3.71 m (12 ft. 2 in.)		
P	Dump Body Ground Clearance, Dump Position	1.12 m (3 ft. 8 in.)		
	Dump Body Length	5.82 m (19 ft. 1 in.)		Α
В	Rear Axle Centerline to Rear of Dump Body	1.21 m (4 ft. 0 in.)		
	Mid Axle to Rear Axle Centerline	1.96 m (6 ft. 5 in.)		
	Front Axle to Mid Axle Centerline	4.63 m (15 ft. 2 in.)		
١	Front Axle Centerline to Front of Machine	2.84 m (9 ft. 4 in.)		
	Approach Angle Maximum Dump Angle	26 deg. 70 deg.		
			_	
	T K	R	G	
	M	N	OB	

Shipping Dimensions	410 P-TIER
Overall Height (suspension lowered	3.77 m (12 ft. 5 in.)
75 mm [3 in.])	
Overall Width	
Dump Body	3.46 m (11 ft. 4 in.)
Tailgate Installed	3.66 m (12 ft. 0 in.)

# Additional equipment

**Key:** ● Standard ▲ Optional or special

See your John Deere dealer for further information.

#### 410 P Engine

- Meets EPA Final Tier 4 (FT4)/EU Stage IV 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 filters with water separator and automatic electronic priming
- Ground-level fueling and diesel exhaust fluid (DEF) fill
- In-line DEF filter
- ▲ Fast-fill fuel system
- Serpentine drive belt with automatic tensioner
- ▲ Ether start aid (recommended below –1 deg. C [30 deg. F])
- ▲ Block heater (recommended below –18 deg. C [O deg. F])

#### 410 P Engine (continued)

- 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
- Electronic control with automatic engine protection

#### Cooling

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

#### 410 P Cooling (continued)

- Engine cooling rated -37 deg. C
   (-34 deg. F)
- ▲ Automatic reversing cooling fans

#### Powertrain

- Transmission diagnostic ports
- Transmission oil-temperature selfprotection
- 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
- Normal, Traction, and Eco selectable drive modes
- Automatic differential locks with manual override

#### Electrical System

- 24-volt system voltage
- 145-amp alternator
- Solid-state electrical distribution system

# Additional equipment (cont.)

**Key:** ● Standard ▲ Optional or special

See your John Deere dealer for further information.

#### 410 P Electrical System (continued)

- Battery disconnect
- Batteries, 2 x 1,400 CCA
- LED rear turn signals/brake lights
- Lights, halogen drive, stair egress, and service lights
- Premium 11-light LED package (6 forward, 2 rear cab, 2 rear-facing rear frame, and 1 stair egress)
- Electric horn
- Reverse alarm
- ▲ Yellow beacon/strobe light
- ▲ Green seat-belt indicator beacon
- ▲ 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

#### Operator Station

- ROPS/FOPS certification
- Keyless start with multiple security codes
- Tilt operator station for service access
- Programmable dump-body control settings
- Air conditioner
- Heater
- Automatic temperature control (ATC) system
- AM/FM/Weather-Band (WB) radio
- ▲ Premium radio with AM/FM/WB/USB/ Bluetooth® streaming and hands free

#### 410 P Operator Station (continued)

- Rear window quard
- Wiper/washer with intermittent control
- Rear windshield wiper
- Tilt and telescoping steering wheel
- Cloth seat with fore/aft isolation and heavy-duty suspension
- Premium leather/cloth, heated/ventilated seat with fore/aft isolation and heavy-duty suspension
- Orange 76-mm (3 in.) retractable operator seat belt
- Foldaway trainer seat with retractable seat belt
- ▲ Orange retractable 4-point harness
- 12-volt power outlets (2)
- Cup holder
- Rear camera display with dedicated monitor
- ▲ Electric adjustable and heated mirrors
- Deluxe 178-mm (7 in.) color LCD 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
- Backlit sealed-switch module functions:
   Keyless start/stop / F-N-R / Hazard light
   button / Park brake / Descent control /

#### 410 P Operator Station (continued)

Gear-lock button / Gear up/down button / inter-axle differential lock (IDL) / Retarder adjustment / Automatic dump-body control settings / Drive modes / Retarder control

Dump-body lever control

#### **Dump Body**

- Bin-lock pin
- ▲ Dump-body liner (steel)
- ▲ Tailgate
- ▲ Dump-body heater
- ▲ Less dump body and cylinders

#### Other

- 29.5R25 radial earthmovers
- ▲ 875/65R29 radial earthmovers
- ▲ Fluid quick-service bank
- Point-of-use grease
- ▲ Banked manual grease
- ▲ Auto-lube system with ground-level refill
- Articulation lock
- Fluid-sampling ports
- Engine compartment light with timer
- ▲ Onboard weighing system with external load lights
- ▲ Tire-pressure-monitoring system with temperature compensation
- Fire extinguisher
- ▲ Wheel chocks
- JDLink™ wireless communication system (available in specific countries; see your dealer for details)
- ▲ JDLink dual-mode cellular/satellite wireless communication system (available in specific countries; see your dealer for details)



