



**JOHN DEERE**

JD

CONSTRUCTION EQUIPMENT

LOADERS



MODEL NO.

**724J 744J 824J**



**J-SERIES**

# YOUR INSPIRATION. OUR IRON.

## KEY SPECIFICATIONS

	HP	NOMINAL BUCKET CAPACITY	FULL-TURN (40 DEGREES) TIPPING LOAD	BUCKET BREAKOUT	APPROXIMATE WEIGHT
724J	205 NET HP	4.75 CU. YD.	27,763 LBS.	31,742 LBS.	40,704 LBS.
744J	265 NET HP	5.25 CU. YD.	32,731 LBS.	42,150 LBS.	51,196 LBS.
824J	275 NET HP	6.00 CU. YD.	36,365 LBS.	43,228 LBS.	57,339 LBS.

Our customers demanded true production-class loaders. Brimming with enhancements and new features. Our answer? The new J-Series Loaders—truly in a class by themselves.

We incorporated extensive feedback from owners and operators to design machines that deliver optimal performance for their bucket size, all the way up to a true six-yard machine. Each loader provides unmatched stability, the smoothest ride on the market, and new safety features that set the industry standard. All this adds up to faster cycle times, lower operating costs, and ultimately, improved lifetime cost of ownership.

## PRODUCTION CLASS

# More stable. More able.

Unmatched stability provides superb balance, even when the machine is fully articulated. And with 40 degrees of articulation to each side, these machines are plenty maneuverable.

The ride-control option smooths out the ride even in the roughest terrain, so operators can drive faster over bumps without losing their load. Hydraulic cushioning reduces rocking during transit and softens the impact of sudden stops, keeping the material in the bucket.

With a wider stance, these machines possess unmatched lateral stability — and stand apart from the competition.

Getting more production out of your loader is a balancing act. The more stable the machine, the faster the cycle times. Put simply, your operators will be more confident and move material more quickly in a machine that doesn't feel like it might tip over.

Which is why J-Series loaders are designed to provide unmatched stability. Counterweighting is deliberately placed and strategically distributed to provide optimum fore and aft stability and a lower center of gravity. Superior stability means increased turn-tip load and greater breakout force, and — most important — greater productivity.

Plus, with spin control, smart-shift technology, and optional ride control, the J-Series loaders are by far the smoothest running machines in the industry, so operator and machine — and your bottom line — won't take a beating.

Get smart. All J-Series loaders employ smart-shift technology, the smoothest shifting transmission on the market. By continuously sensing speeds and loads and adjusting clutch pressures accordingly, the transmission delivers silky smooth shifts without delay.



The spin-control system improves operation in conditions where traction is a problem, such as sand or gravel. The system reduces tire wear, fuel costs, and operator fatigue, while boosting productivity.

Set and forget. Spin control is simple to use. The operator simply turns a rotary dial to select one of five sensitivity settings, then pushes a button to activate the system. Once activated, the operator can simply drive into the pile without worrying about wheel spin or trying to feather the accelerator.

## PRODUCTION CLASS

# Optimized to bucket size.

Programmable clutch cutoff optimizes loader performance by allowing you to set the amount of braking force. On steep slopes, the system allows more braking force prior to neutral to prevent rolling backwards. On small slopes or level conditions, it allows less braking force prior to neutral for smoother dumps and faster cycle times.

Wet-disk brakes and planetary final drives are inboard mounted and bathed in cooling oil. The brakes self-adjust for wear, maintaining excellent response.

PowerTech™ engines meet EPA Tier II emissions regulations.

These hard-charging, yet graceful production-class loaders are designed to do one thing extremely well — move more buckets of material from point A to point B more quickly.

Deere offers a general-purpose bucket size to meet every need: 4-3/4, 5-1/4, or 6 yard. Each machine has been specifically designed to deliver optimal performance for that bucket size, so bucket fill is quicker and easier than competitive machines.

Faster cycle times begin with the J-Series PowerTech™ diesel engines. A nine to 18-percent power bulge ensures that when the machine encounters a tough hydraulic load in the pile, the electronically controlled engine generates more power as it lugs down, maximizing productivity.

Hardened cylinder liners eliminate hot spots on the cylinder wall, extending engine life. Plus they're easier to replace come overhaul time. Top-liner cooling reduces head gasket and liner temperatures, so cylinders last longer.

The heavier, thicker boom on the 824J loader is optimally counterweighted to provide superior stability for a six-yard bucket. The 824J provides greater breakout performance for the toughest applications.

## WORK STATION

Designing a loader this good was easy. We simply had you design it for us.

Windows are larger and cut lower, and the new grey cab virtually disappears from the operator's line of sight.

Significant effort went into making ergonomic changes to reduce operator strain and repetitive stress injuries, including enhancing the adjustability of the seat and the placement of the controls.

Boom-kickout and return-to-carry are electronically adjustable. No more climbing onto the machine with wrenches to move sensors up and down. Just push a rocker switch from inside the cab.

How did we improve on the popular H-Series loaders? Not by resting on our laurels.

Our customers know best when it comes to what they need in a loader to be more productive. To design the J-Series loaders, we went to operators and owners across the country — from quarries to log mills to batch plants — and got their ideas on how to create a true production-class loader.

These customers were involved in the entire development process, from design, to prototype, to production. At every stage they told us what they liked and what needed to be changed. And we listened.

Hydraulic controls were also redesigned. Levers are shorter and positioned closer to the operator, so they are more comfortable and easier to use. With standard fingertip controls, you can control the bucket using just two fingers.



Every machine features excavator-style hydraulics, which provide crisp, responsive hydraulic power. The system automatically senses the load and provides the right amount of power, so boom and bucket control is fluid and efficient.



The fully programmable dash monitor keeps a vigilant eye over vital machine functions. Three modes allow the operator to view operating information, customize machine functions for specific applications, and display diagnostic codes.

The right armrest was ergonomically designed with customer input, so it can be adjusted fore and aft to fit any size operator. Plus, it flips up, providing convenient access to the control panel.



Safety first, last, and always. New platforms, handrails, and steps are designed to provide uninterrupted three-point access, for maximum safety entering and exiting the cab. Railing height and platform width are OSHA compliant, eliminating the need for the operator to be harnessed.



Get a grip. Continuous railings run all the way around the machine. There's no crossbars, so you never have to take your hands off them and risk slipping. No other machine on the market offers this feature.

Other safety features include roll-over protection, pressurized cab, extra large mirrors, a longer windshield wiper, loader boom service lock, independent parking brakes, bypass start protection, backup alarm, and highly visible stop lights. High intensity halogen lights and high-intensity turn signals are standard.

## Safety features operators can't wait to get their hands on.

### COMFORT AND SAFETY



Safe and sound — and plenty of both. While new features enhance safety on the outside, inside the cab a deluxe AM/FM radio with CD or cassette help make the days seem just a little less long.



Operators come in all shapes and sizes, which is why the deluxe suspension armchair seat adjusts seven ways, including operator weight, seat cushion angle, backrest angle, and fore and aft.

There's plenty of room to store your stuff, plus we've included special compartments, coat hooks, beverage holders, a cell-phone hookup, and more.



Keeping your operators safe and comfortable is priority number one in making them more productive. On the outside of these loaders, the first thing you'll notice are the new continuous railings and widened steps and platforms, which make it much easier to safely get on and around the machine.

And despite appearances, these rough-and-ready loaders reveal a softer side as soon as you enter the cab. Inside, every feature is designed with comfort and safety in mind, so your operator is confident and relaxed — and more productive — over the long haul.

## SPECIAL DUTY/APPLICATIONS

# Get a load of these options.

Deere has an impressive line-up of waste handling machines. Each features a customer waste package designed to handle even the harshest environments.

Advanced air-screen kits protect the engine and cooling system from debris. The system redirects air from underneath the unit — the most likely place where debris can get in — through the sides and top of the machine, keeping the air flowing and preventing overheating.

Fender extenders and mud flaps keep debris off the cab windows and articulation areas, maximizing visibility while protecting electrical components.

Deere High-Lift loaders combine the same great features and excellent performance of our standard loaders with an optional, factory-installed extended boom. More than a foot longer than the standard boom, the extended boom enables you to move materials — and push productivity — to greater heights.

Jagz™ cutting edges employ a unique angled dovetail design, so they are easy to install and adjust, plus they're self-sharpening and guaranteed against breakage. They're also reversible and interchangeable, so you can custom-build a wear surface in a bucket.

Don't let corrosive materials short-circuit productivity. The electrical corrosion protection package treats electrical components and connections, extending electrical system life in corrosive environments or intense moisture.

Alternative, fire-resistant fluids are available for the hydraulic system, providing protection in extreme temperature conditions.

Teledyne's Loadrite LR810 weighing system is accurate to plus or minus 1 percent, so you can load each truck to its full legal payload.

Extreme applications may cause excessively high axle oil temperatures. The optional axle oil cooler kit prevents overheating, maximizing axle life.

With the optional hydraulically activated quick-coupler, you can quickly change attachments without leaving your cab.

**J-Series loaders come standard with features to cover almost every imaginable application. But if you need a special machine for a unique application, we offer a number of factory-installed options to fit your needs. Plus, our custom engineering group can build a loader to your exact specifications. Contact us for details.**

# We're always open to new ideas.

Four side-shield doors swing wide open, providing ample access to the engine compartment. Daily and periodic service points are conveniently grouped, making it simpler to change filters and check fluid reservoirs.

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SERVICE		



The articulation area opens up, providing easy access to the hydraulics. Centralized lube banks provide better access to all grease zerks to ensure they receive regular service.

Operators spend up to 90 hours a year greasing a loader, and may occasionally miss a grease point. The optional Auto-Lube system greases every grease point except the drivelines. Simply fill the grease container once a month and Auto-Lube does the rest.



The rear grill swings out, providing abundant room to service the radiator and oil cooler.

**At John Deere, we're always working to make things better. That's why we pay attention to the little things that make servicing even easier — like moving the site gauge so it is easy to read or positioning the transmission fill tube so it is more accessible.**

**Sounds simple enough. But we understand that easy-to-service machines are more likely to be serviced properly and in less time. And that means longer machine life, less downtime, lower operating costs, and improved lifetime cost of ownership.**

**Plus, each J-Series loader is backed by an extensive dealer network providing a variety of services and product support programs based on our fix-before-fail approach. All of which will help you keep costs down and maximize profits. To learn more, see your John Deere dealer.**