3 Series Front Loaders
Engineered to fit

In every stage of tractor design and product development, we include front loaders as a vital component. The results: added strength, long life, high capacity hydraulics, exceptional performance and fast cycle times.

2 3 Series Front Loaders

Introduction

The perfect fit for your John Deere tractor.

You won’t find a more perfect loader/tractor combination anywhere. We’re the only brand that designs and manufactures front loaders that perfectly match the specifications of your John Deere tractor. Nothing matches these advantages:

- True frame integration for enhanced strength, reliability and durability
- Perfect tractor stability
- Reduced frame and structure stress
- Unmatched visibility
- Perfectly integrated joystick in tractor cab
- Balanced front axle load in all working situations

- High capacity hydraulics
- Tremendous performance and fast cycle times
- Convenient access to tractor service points with loader still attached

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Unsurpassed reliability, year after year

Our front loaders are built to the highest standards to provide years of hard working performance through countless duty cycles. The rugged construction and durable finish keep rolling hard with little service and maintenance needed. John Deere loaders are tested extensively for durability and reliability.

Reach heights up to 4.4 m easily. Boom design provides excellent leveling accuracy, long reach, high lift capacities and precise pallet or bucket handling. Choose from seven models to handle virtually any job you have.

1. Heat-treated shafts provide maximum durability and reliability. Each is equipped with a grease nipple for added convenience.

2. Industrial quality cylinders are strictly tested over hundreds of thousands of cycles to ensure long-life and dependable performance.

3. All hydraulic connections use flat face seals (ORFS) to seal and protect against any leakage. A large contact surface area between the rings keeps pressure within ideal operating parameters.

4. High positioned torque tube reduces loader boom oscillation for greater stability, strength and precision.

5. Built-in parking stand design makes it easy to remove the loader.

6. Mechanical self-levelling (MSL) loaders are equipped with volume-balanced dumping cylinders to reduce cycle times. The rod passes through two chambers of the balanced cylinder to reduce the volume of oil needed to fully extend the cylinder.

7. John Deere loaders are equipped with Euro standard carrier. An auto latch system allows you to automatically lock any John Deere implement. Unlocking is easy too, just pull the handle and turn it down.

The hydraulic pipes routed outside the boom preserve the John Deere front loader’s structure and ensure great access to the complete hydraulic circuit for improved serviceability.
Unmatched visibility and versatility

No other loader/tractor combination allows you to see every task so clearly. Mounting frames are slim and unobtrusive.

Our 6030 Series tractors for example, feature a corner post exhaust that removes the exhaust from your field of vision. The torque tube design clears any parts and the properly routed hydraulic lines ensure excellent visibility.

Make the connection easy. It’s easy to couple and uncouple the third function hydraulic lines, even when the hose pressure is high with the implement multicoupler. An automatic implement unlatch option allows you to attach and detach tools from the cab. It’s simple, quick, reliable, comfortable and requires no additional diverter valve.

Eliminate the shocks. Connect optional shock dampers to the load lifting cylinders for greater comfort in the field or on the road, even at high speeds. The accumulator located inside the torque tube absorbs the shock and significantly limits the stress on your front loader and tractor. A shut-off valve lets you isolate the accumulator for precise tasks such as pallet handling.

Extra comfort option. For our 6030, 7430 and 7530 Premium tractors, our optional Triple Link Suspension (TLS) enable extra comfort when you’re transporting full loads and steadies the loader bucket to reduce spillage.

Perfectly integrated components. Available on our 6030, 6000R, 6030, 6030 Premium and 7030 Premium tractors. All loader components can be built in during the tractor manufacturing process. The result is the best possible integration of the loader joystick and the hydraulic components. Mounting frames are painted together with the tractor frame.
Non Self-Levelling (NSL) Loaders

– An economical choice that does not keep the attachment level during raise/lower cycles (operator must correct if needed)
– Excellent crowding and dumping angles for easy handling of bulked material such as grain
– Great visibility and loader compactness with no parts above the boom
– Available on our 533, 583, 633, 653 and 683 loaders

Mechanical Self-Levelling (MSL) Loaders

– Automatically keep your attachment level during raise/lower cycles
– High level of performance
– Ideal for the demanding loader tasks when you need high operating efficiency
– Average levelling accuracy within 4 degrees, meaning no deviation from bottom to top when working with any tools – and especially a pallet fork
– Relief valve lets you perform difficult tasks easily and safely
– Available on all loader models

New Hydraulic Self-Levelling (HSL) Loaders

– Great loader compactness thanks to slave cylinder technology
– Above positioned slave cylinders provide a lower profile for better visibility in any loader position
– Excellent crowding and dumping angles – ideal for handling bulked materials
– High performance level
– 583, 633 and 653 loader allow you to adapt loader behavior to the task and to the operator working habits:
  – Position 1: Perfect parallelism (average levelling accuracy within 4 degrees)
  – Position 2: Self crowding. Ideal for bulk material loading with bucket.
– Relief valve lets you perform difficult tasks easily and safely
– Available on our 583, 633, 653 and 683 loaders

Now choose from three levelling options

You can depend on us for the best technology to improve loading efficiency and accuracy while reducing operator fatigue. Three levelling options are available:

MemoSystem automatically re-sets attachment angle

Imagine the time and work you can save by simply pre-selecting an attachment angle for your repeated tasks. With our MemoSystem, you simply lower the loader and press a switch on the loader joystick. The bucket angle is automatically detected thanks to a sensor. It’s a great way to improve productivity and make your job easier without the need to reposition the loader several times. Changing the attachment angle is quick and easy, too. Just adjust the level indicator according to the implement you use.
Loader control options put in your command

For the most precise loader control and operator comfort, prefer an Independent Control Valve (ICV). Choose from three single-lever ICV joysticks based on location according to the tractor you want to equip: console-integrated, floor-mounted or armrest-integrated.

**Mechanical joystick**

The Mechanical Independent Control Valve (M-ICV) provides precise operation through cable-controlled valves.

- Perfectly integrated in the 5020, 5000R, 6030 Premium, and 7030 Premium consoles for ultimate operator comfort and loader control
- The 5015 and 6030 Series tractors feature a floor mounted joystick easily adjustable to the operator driving position.
- You can scrape along the surface by activating the float position on your joystick. Simply push the single lever forward all the way.

**Electronic joystick**

The Electronic Independent Control Valve (E-ICV) is ideal for high precision and maximum productivity.

- The integrated armrest single lever provides unmatched operator comfort and loader control
- Adjust the maximum loader speed according to your job
- When not in use, simply take the unit under the armrest
- Perfectly integrated in the new 6030 and 7030 Series armrest and may be retrofitted on 6020 Series tractors
- Automatic shacking feature: allows you to quickly unload the loader in their original position for an extra measure of protection (required for local authorities and municipalities).
- You can scrape it along the surface by activating the float position on your joystick. Simply push the single lever forward all the way.

When used with the new 3 Series CommandCenter, the electronic joystick gives you a powerful high-tech combination with several advantages:

- Adjust maximum loader speed accurately according to your task
- Infinitely adjust the flow between 0 and maximum
- Choose between linear, progressive or a combination for exact flow modulation and precise loader movement

**Mechanical joystick**

- Higher precision and maximum productivity
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**Exclusive gear shift switch option**

Only John Deere offers you the Gear Shift Switches (GSS) option to let you move the loader and change the tractor gears at the same time by keeping your hand on the same joystick. Buttons to change gears are integrated on top of the loader joystick. The results:

- Greater productivity by walking at higher speeds
- More comfort through reduced fatigue and noise level
- Lower tractor rpm for greater fuel efficiency

Three independent functions – a John Deere exclusive

- Lower/raise the boom and crowd/dump the attachment
- Specially developed to increase productivity, precision and comfort

**What controls to use for your John Deere tractor**

With either joystick, you can perform up to three tasks at the same time. Choices include:

- **Two functions**
  - Push/pull joystick to lower/raise the boom
  - Turn joystick right/left to crowd/dump attachment
  - Perfect for bucket or fork

- **Two functions plus diverter**
  - Lower/raise the boom and crowd/dump the attachment
  - Or lower/raise the boom and open/close the attachment
  - Single lever control allows a fourth function, thanks to other diverter valves. A third button on the joystick activates the Mechanical system option

**Three independent functions – a John Deere exclusive**

- Lower/raise the boom and crowd/dump the attachment and operation attachment simultaneously
- Or lower/raise the boom and open/close the attachment
- Single lever control allows a fourth function, thanks to other diverter valves. A second button on the joystick lets you use the Mechanical system option
- The front toggle activates the third independent function. To activate the fourth function, press the thumb buttons at the same time you press the front toggle
- More comfort through reduced fatigue and noise level
- Speciality developed to increase productivity, precision and comfort

**Enhanced protection features.**

- **Safety Device (2 Electro piloted valves mounted on each lifting cylinder)** allows you to lock the loader in a de-energized position (strongly advised for safety when the loader is not in use). A second button on the joystick lets you use the Mechanical system option
- **The front toggle activates the third independent function.** To activate the fourth function, press the thumb buttons at the same time you press the front toggle
- **Only John Deere offers three independent joystick functions**

John Deere offers three independent joystick functions

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**Table**

<table>
<thead>
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<th>Function</th>
<th>3 Series Front Loaders</th>
<th>6030/7030 Premium</th>
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<tbody>
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<td>2 + 1 functions</td>
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<tr>
<td>3 independent</td>
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</table>
Choose the loader model that fits you

With seven models, 16 versions and three levelling options, we offer a front loader to handle virtually any job you have. Each is engineered to match axle loads in all types of applications along with high lift and strong breakout capacities for maximum productivity. Our loaders match John Deere tractors from 55 hp to 200 hp.

Former John Deere tractor series (not indicated on this diagram) can also be equipped with these 7 models. Ask your dealer for detailed information.

Loader models mentioned in this compatibility chart are MSL. Compatibilities can vary for NSL and HSL models.

You can check your tractor’s oil, service the battery, change filters and add oil fluids quickly and easily – even with the loader attached. The co-engineered tractor/loader design ensures convenient access to all routine service points.

Loader models mentioned in this compatibility chart are MSL. Compatibilities can vary for NSL and HSL models.
Attachments for every job

Besides offering a choice of seven front loaders, we also offer a wide range of implements to fit your loader needs. From buckets to bale handling to pallet forks to manure forks, you’ll find the right tool to make quick work of any loader task. All implements perfectly match the John Deere Euro implement holder.

### Standard Buckets

<table>
<thead>
<tr>
<th>Size (m)</th>
<th>Capacity (m³)</th>
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<tr>
<td>1.6</td>
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<tr>
<td>1.8</td>
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<td>2.0</td>
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<tr>
<td>2.2</td>
<td>0.78</td>
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<tr>
<td>2.4</td>
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### Earth Buckets (with welded teeth)

<table>
<thead>
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<th>Size (m)</th>
<th>Capacity (m³)</th>
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<td>1.8</td>
<td>0.67</td>
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<tr>
<td>2.0</td>
<td>0.71</td>
</tr>
<tr>
<td>2.2</td>
<td>0.78</td>
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</table>

### Heavy Duty Buckets (with blade and optional bolted teeth)

<table>
<thead>
<tr>
<th>Size (m)</th>
<th>Capacity (m³)</th>
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<tbody>
<tr>
<td>1.6</td>
<td>0.56</td>
</tr>
<tr>
<td>2.0</td>
<td>0.71</td>
</tr>
<tr>
<td>2.4</td>
<td>0.86</td>
</tr>
</tbody>
</table>

### High Volume Bucket

<table>
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<th>Size (m)</th>
<th>Capacity (m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.3</td>
<td>1.3</td>
</tr>
</tbody>
</table>

### High Dump Bucket

<table>
<thead>
<tr>
<th>Size (m)</th>
<th>Capacity (m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2</td>
<td>1.4</td>
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</table>

### Grain Bucket

<table>
<thead>
<tr>
<th>Size (m)</th>
<th>Capacity (m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2</td>
<td>1.5</td>
</tr>
</tbody>
</table>
Bale Grapple
(for wrapped bales)
Capacity: 4 bales high

Bale Grapple
Capacity: 4 bales high

Bale Elevator
Capacity: 6 bales high

Bale Spear

Combination Bale Spear and Fork

Pallet Fork

16 3 Series Front Loaders
Attachments for every job

Standard Buckets with grapple (without teeth)

Size (m) | Capacity (m³)
---|---
1.6 | 0.56
2.0 | 0.71
2.2 | 0.78

Manure Forks (without grapple)

Size (m)
1.4
1.6
2.0
2.4

Heavy Duty Buckets with grapple

Size (L)
471
589
707

Manure Forks with grapple

Size (m)
1.4
1.6
2.0
2.4

Heavy Duty Manure Forks (without grapple)

Size (L)

Manure Forks with grapple

Size (m)
1.55
1.90

Heavy Duty Manure Forks

Size (L)
1.55
1.90
### 3 Series Front Loaders

**Specs & Compatibilities**

- **Rear ballast required in kg**
  - **Compatible without ballast**
    - NSL: 550 kg
  - **Compatible with John Deere ballast of 550 kg**
    - N: 900 kg
  - **Compatible with John Deere ballast of 900 kg**
    - M: 1150 kg
  - **Compatible with John Deere ballast of 1150 kg**
    - H: None

- **Manufacturer’s John Deere ballast (kg)**
  - NSL: 550 kg
  - MSL: 900 kg
  - HSL: 1150 kg

- **Recommended John Deere ballast (kg)**
  - NSL: 550 kg
  - MSL: 900 kg
  - HSL: None

- **Lift capacity pivot point at full height (kg)**
  - L: 1632 kg
  - M: 1385 kg
  - H: 1951 kg

- **Lift ability centre of pallet forks (kg)**
  - L: 1197 kg
  - M: 1408 kg
  - H: 1333 kg

- **Breakout capacity front of implement (N)**
  - L: 1500 N
  - M: 14000 N
  - H: 1957 N

- **Maximum lift height pivot point (m)**
  - L: 3.38 m
  - M: 3.38 m
  - H: 3.65 m

- **Clearance – Bucket levelled (m)**
  - L: 3.16 m
  - M: 3.16 m
  - H: 3.39 m

- **Maximum lift height pivot point (m) at 2 m (kg)**
  - L: 1108 kg
  - M: 1293 kg
  - H: 1333 kg

- **Reach – Max. height and dumped (mm)**
  - L: 427 mm
  - M: 431 mm
  - H: 92 mm

- **Reach – Ground level and levelled (mm)**
  - L: 1692 mm
  - M: 1696 mm
  - H: 1519 mm

- **Roll back on the ground (º)**
  - L: 40º
  - M: 40º
  - H: 41º

- **Hydraulic system pressure (bar)**
  - L: 190 bar
  - M: 190 bar
  - H: 200 bar

- **Tyre size (front)**
  - L: 11.2R24
  - M: 11.2R24
  - H: 13.6R24

- **Tyre size (rear)**
  - L: 480/70R30
  - M: 480/70R30
  - H: 16.9R34

- **ALL TRACTORS LISTED ARE 4WD TRACTORS**

**Colour Options**

For customers requiring special paints for their loaders, you may choose these three colours other than John Deere green: black, blue and orange for municipalities.

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### 4WD TRACTORS WITH STANDARD CAB

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<th>Front Loader</th>
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### STANDARD MOUNTING FRAMES

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**Specifications and design subject to change without notice.**
Reliable service from your John Deere dealer

When it comes to field support, nothing matches the reliability of your John Deere dealer. Whether it’s service after the sale, a critical parts need for any of your equipment, regular servicing or emergency repair, your dealer stands ready to deliver the prompt and friendly service that’s the hallmark of John Deere. It’s only part of our long-term commitment to your success.

For complete details on choosing the right front loader for your John Deere tractor, see your John Deere dealer. He has the proven answers and professional advice you need.