

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.

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 working 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 levelling accuracy, long reach, high lift capacities and precise pallet or bucket handling. Choose from seven models to handle virtually any job you have.



Each design undergoes thousands of lifting, digging, twisting and pounding cycles followed by real world testing in tough conditions like yours.

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 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 clear of any parts and the properly routed hydraulic pipes ensure excellent visibility.

Make the connection easily. 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.



Whether the loader is on or off, you'll get a clear view of your work.



You can easily mount and dismount your loader.



An optional multi-coupler provides quick, easy and reliable connection of hydraulic lines and electrical connections at once.

Eliminates 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 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 7350 Premium tractors, our optional Triple Link Suspension (TLS) adds extra comfort when you're transporting full loads and steadies the loader bucket to reduce spillage.

Perfectly integrated components. Available on our 5020, 5000R; 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.

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:



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



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 you in 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-installed 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.

Take charge of your loading operations with a choice of perfectly integrated controls.



Electronic joystick

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

- The integrated armrest single lever provides unsurpassed operator comfort and loader control
- Adjust the maximum loader speed according to your job
- When not in use, simply swivel the unit under the armrest
- Perfectly integrated in the new 6030 and 7030 Series armrest and may be retrofitted on 6020 Series tractors
- Automatic shaking feature: allows you to quickly unload sticky materials
- 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 30 Series CommandCenter, the electronic joystick gives you a powerful high-tech combination with several advantages:

- Adjust maximum loader speed 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



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 working at higher speeds
- More comfort through reduced fatigue and noise level
- Lower tractor rpm for greater fuel efficiency

Available on the mechanical joystick with PowrQuad Plus and AutoQuad Plus transmissions.

Only John Deere offers three independent joystick functions

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 MemoSystem option.

Three independent functions – a John Deere exclusive

- Lower/raise the boom *and* crowd/dump attachment *and* open/close attachment simultaneously
- Single lever control allows a fourth function, thanks to other diverter valves. A second button on the joystick lets you use the MemoSystem 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.
- Specially developed to increase productivity, precision and comfort



What controls to use for your John Deere tractor

	SCV	M-ICV	E-ICV
5015/5020			
2 + 1 functions	—	■	—
2 functions	■	■	—
6030/5000 R			
3 independent functions	—	■	
2 + 1 functions	—	■	—
2 functions	■	■	—
6030/7030 Premium			
3 independent functions	—	■	■
2 + 1 functions	—	■	■
2 functions	■	■	■

Enhanced protection features.

In Base:

E-ICV joystick features a spring-loaded safety flap for enhanced protection. Your hand must be grasping the joystick and holding the flap out for your loader to operate. A toggle switch at the base of the controller also locks out all functions for greater protection (also available on M-ICV).

Optional:

- Load holding valves (4 valves mounted directly one on each cylinder) keep the attachment and the boom in their original position for an extra measure of protection (required for local authorities and municipalities).
- Safety Device (2 Electro piloted valves fitted one on each lifting cylinder) allows you to lock the loader in a defined position (strongly advised for situations in which the loader is raised under load and someone has to work close by)

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.



Model 533



Model 583



Model 633



Model 653



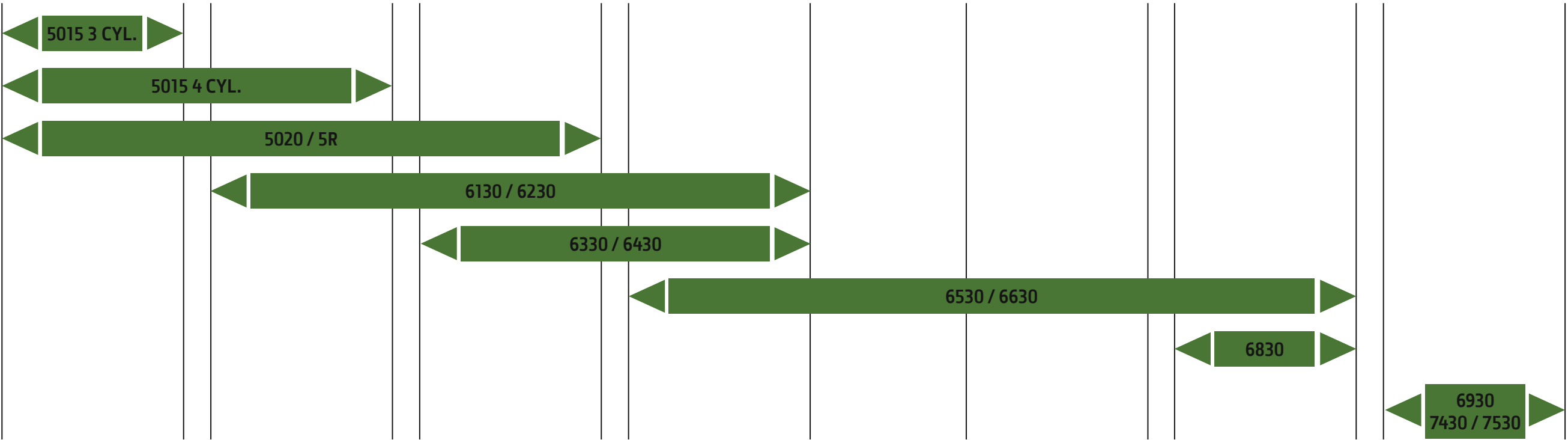
Model 663



Model 683



Model 753



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.

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 <i>(without teeth)</i>	
Size (m)	Capacity (m³)
1.6	0.56
1.8	0.67
2.0	0.71
2.2	0.78
2.4	0.86

Earth Buckets <i>(with welded teeth)</i>	
Size (m)	Capacity (m³)
1.3	0.45
1.6	0.56
1.8	0.67
2.0	0.71
2.2	0.78

Heavy Duty Buckets <i>(with blade and optional bolted teeth)</i>	
Size (m)	Capacity (m³)
1.6	0.56
2.0	0.71
2.4	0.86

High Volume Bucket	
Size (m)	Capacity (m³)
2.3	1.3

High Dump Bucket	
Size (m)	Capacity (m³)
2.2	1.4

Grain Bucket	
Size (m)	Capacity (m³)
2.2	1.5





Bale Grapple

Capacity
4 bales high



Bale Grapple
(for wrapped bales)

Capacity
4 bales high



Bale Elevator

Capacity
6 bales high

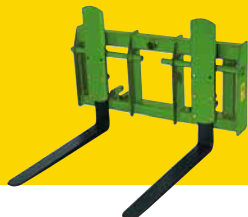


Bale Spear



Combination Bale Spear
and Fork

Capacity
1600 kg



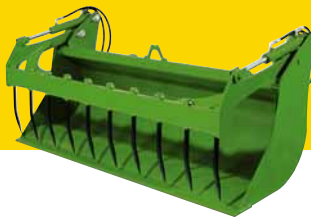
Pallet Fork

Capacity
1500 kg



Standard Buckets with
grapple
(without teeth)

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



Heavy Duty Buckets with
grapple

Size (m)	Bucket Volume (L)
1.6	471
2.0	589
2.4	707



Manure Forks
(without grapple)

Size (m)
1.4
1.6
2.0
2.4



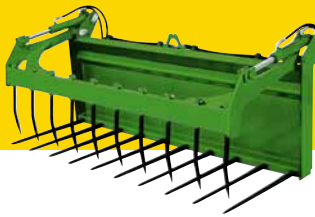
Heavy Duty Manure Forks
(without grapple)

Size (m)
1.55
1.90



Manure Forks with
grapple

Size (m)
1.4
1.6
2.0



Heavy Duty Manure Forks
with grapple

Size (m)
1.55
1.90



Specs & Compatibilities

		4 WD TRACTORS WITH STANDARD CAB																
		5300 5400 5310 5410 5605 5705	5500 5510	5215 5315	5415 5515	3100 3110	3210 3310 3410 3200 3300 3400	5620 5720 5820	6120 6130	6220 6230	6215	6010 6110 6210 6205 6100 6200 6300	6310 6410 6400 6320 6420 6330 6430	6510 6610 6505 6506 6600 6520 6620 6530 6630	6515	6800 6810 6820 6830	6900 6910 6920 6930 7430 7530	7610 7710 7810 7600 7700 7800
FRONT LOADER	533	NSL	550	0	550	550		0										
		MSL	550	550	900	550		900										
	583	NSL		900		550	900	0	900	0*	0*	0	0					
		MSL		900		1150	900	900	900	900*	900*	900	900					
	633	HSL						900	900*	900*		900						
		NSL		900		900	900	900	900	900	900	0	0					
		MSL						1150	900	900	1150	900	900					
		HSL						1150	900	900		900	900					
	653	NSL					900		900	900	900	900	900	0				
		MSL							1150	1150	1150	900	900	0				
		HSL							1150	1150		900	900	0				
	663	MSL												900	1150			
		NSL							900	900	900	900	900	0	0	0		
	683	MSL												1150	1150	900		
HSL													1150		900			
753	MSL															1150	0	

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.

Rear ballast required in kg	
0	Compatible without ballast
550	Compatible with John Deere ballast of 550 kg
900	Compatible with John Deere ballast of 900 kg
1150	Compatible with John Deere ballast of 1150 kg
*	583 only compatible with front weight base code 8770

		STANDARD MOUNTING FRAMES																									
TRACTOR		5215		5515		5620		5720		5820		6130		6230		6430		6530		6630		6830		6930/ 7530			
LOADER		533		583		533		583		633		583		633		653		653		663		683		753			
Recommended John Deere ballast (kg)		NSL	MSL	NSL	MSL	NSL	MSL	NSL	MSL	HSL	NSL	MSL	NSL	MSL	NSL	MSL	HSL	NSL	MSL	HSL	NSL	MSL	MSL	NSL	MSL	HSL	MSL
		550	900	550	1150	None	900	900	900	900	900	1150	None	900	900	900	900	900	900	900	900	900	900	900	900	900	1150
Lift capacity pivot point at full height (kg)	L2	1632	1385	1951	1897	1621	1383	1984	1943	1980	2276	1883	1968	1941	2133	1836	2130	2112	1810	2110	2011	1738	2000	2030	2065	2030	2195
Lift ability centre of pallet forks – At ground level (kg)	L1	1197	1408	1333	1578	1317	1602	1447	1763	1886	2185	2205	1499	1748	2319	2547	2600	2117	2270	2330	2148	2343	2732	1859	2372	2420	3006
– At 2 m (kg)		1108	1293	1333	1578	1156	1341	1415	1763	1750	1804	1921	1418	1748	1790	2027	2050	1710	1906	1940	1705	1893	2200	1597	2100	2100	2495
– At full height		922	1240	1230	1578	905	1147	1237	1763	1670	1383	1877	1194	1748	1329	1800	1830	1303	1777	1700	1270	1665	1950	1254	1930	1930	2260
Breakout capacity front of implement (N)	Bo	11500	14000	11957	14492	11689	14329	14600	17000	18500	19734	19973	12140	15324	21900	23000	25000	20000	20750	22000	17700	21500	24900	16500	23000	24400	29200
Maximum lift height pivot point (m)	Ha	3.38	3.38	3.65	3.65	3.42	3.42	3.69	3.69	3.69	3.87	3.81	3.70	3.70	3.87	3.81	3.81	4.05	4.05	4.05	4.12	4.12	4.12	4.40	4.40	4.40	4.34
Clearance – Bucket levelled (m)	Hb	3.16	3.16	3.39	3.44	3.20	3.20	3.42	3.47	3.47	3.66	3.57	3.43	3.48	3.65	3.59	3.59	3.80	3.83	3.83	3.87	3.90	3.90	4.12	4.20	4.20	4.10
– Bucket dumped (m)		2.45	2.45	2.65	2.71	2.47	2.47	2.67	2.73	2.67	2.92	2.81	2.68	2.74	2.90	2.84	2.90	3.05	3.10	3.05	3.11	3.16	3.16	3.61	3.70	3.61	3.30
Digging depth (m)	Dd	– 67	– 67	– 47	– 47	– 48	– 48	– 43	– 43	– 43	– 159	– 159	– 39	– 39	– 138	– 138	– 138	– 205	– 205	– 205	– 116	– 116	– 116	– 88	– 88	– 88	– 133
Reach Max. height and dumped (mm)	Pm	427	431	92	134	326	326	198	266	200	388	367	70	72	269	217	270	377	442	377	377	442	368	389	389	389	433
Ground level and levelled (mm)		1692	1696	1519	1521	1450	1450	1502	1520	1500	1767	1766	1316	1317	1581	1581	1580	1795	1800	1795	1795	1800	1600	1882	1880	1880	1870
Max. dump angle at full height	Ad	60°		69°	62°	63°		72°			67°	75°	74°		73°	76°	73°	70°			82°	77°	66°	55°		72°	
Max. dump angle on the ground		154°	81°	165°	89°	158°	84°	168°	93°	168°	161°	123°	169°	108°	165°	124°	165°	161°	120°	161°	174°	114°	123°	157°	127°	157°	129°
Roll back on the ground	Ar	40°	40°	41°	37°	36°	36°	38°	34°	38°	30°	37°	36°	35°	38°	38°	38°	43°	45°	43°	31°	33°	43°	38°	38°	38°	43°
Hydraulic system pressure (bar)		190		190		200		200			200																
Tyre size (front)		11.2R24		11.2R24		13.6R24		360/70R24			13.6R24		14.9R24		14.9R24			480/70R24				480/70R28		480/70R28	540/65R		540/65R30
Tyre size (rear)		480/70R30		480/70R30		16.9R34		480/70R30			16.9R34		18.4R34		18.4R34			520/70R36				580/70R38		580/70R38	650/65R38		650/65R38

ALL TRACTORS LISTED ARE 4WD TRACTORS

Specifications and design subject to change without notice.

Reliable service from your John Deere dealer

When it comes to in the 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.



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"Take the credit for buying the best"

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"Not available in all countries please consult your local dealer"