Making the right choice

Let’s face it. During harvest season, there’s very little that’s as important as chopping high-quality forage, except for making sure it retains that quality while being ensiled. Which is why, frankly, you need a John Deere self-propelled forage harvester. Our 7050 Forage Harvesters are engineered and built to deliver unprecedented productivity, up-time, and quality. From the 380-hp* 7250, up to the mammoth 7950 with its 800 hp*, our lineup offers a wide range of power and capacity to match your needs. And to provide truly exceptional performance, we’ve paired that power with precision control.

So whether you’re a dairy or beef operator focused on chopping quality feed for your herd, or a custom harvester looking for equipment that keeps your customers satisfied, you’ve come to the right place – John Deere, the home of the 7050 Series Self-Propelled Forage Harvesters. Read on to learn more.

*Manufacturer’s estimate of power (ISO) per 97/68/EE.
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Your business rests on a knife edge

The quality of the silage you cut has huge implications. It affects both milk production and livestock growth rates. That’s why doing the job right can have a large profitability payoff. And because doing the job right means using the best harvesting equipment available, John Deere is the brand of choice for more growers across North America. We’re as dedicated to producing high-quality silage as you are, and it shows in the way we do business. Take a look:

Quality
The 7050 Series is the result of more than 40 years of forage harvester experience. That experience has resulted in a phenomenal harvesting package that features technologies such as AutoLOC (Automatic length-of-cut) and the HarvestLab™ moisture sensor. Used together, the system automatically adjusts the cut length based on the real-time moisture readings. The result? The optimal length of cut, every time.

Versatility
Are you a custom harvester who needs a go-to machine that can meet the varying demands of your customers, or an owner/operator who wants to be able to operate effectively in fields with different terrain, slope, and soil types? Either way, you’ll appreciate the adaptable 7050 Series. Our worldwide testing program delivers equipment that’s up to the task, no matter what or where it is. A full line of headers adds further versatility and completes the package.

Ease of operation
Logical instrument displays and ergonomic controls make operating the 7050 Series Forage Harvester an easy and pleasant experience for the novice and expert alike. A wide range of intelligent features helps ensure a consistent harvesting performance no matter who is driving.

Cost control
If a penny saved is a penny earned, the 7050 Series will have your pockets jingling. You’ll love the fuel savings resulting from sophisticated engine systems that provide best-in-class fuel efficiency. Our cutting knives are manufactured using a hardening process that extends wear life, thereby reducing replacement expenses. And for even greater peace of mind, the available PowerGard™ Protection Plan offers valuable extended warranty coverage to protect you from unforeseen repair bills and costly downtime.

Information management
Today’s producers must manage the business as well as their harvest. That’s why invoicing, record keeping, harvest analysis, equipment monitoring and maintenance can all be done quickly and efficiently with powerful software and management systems such as HarvestDoc™ and JDLink™.

Service and support
When you buy a John Deere forage harvester, you get more than a machine. You also get the support of an unrivaled dealer network and factory-trained technicians who are committed to keeping you up and running when minutes count. Because our dealers are connected to a central, worldwide parts database, the part you need is never more than a phone call away.
Built from experience

During our 40-plus years in the forage harvesting business, we’ve learned a few things. Like how to make equipment that works quickly yet gently. How to employ technology to boost both productivity and durability. And how to make a single machine that can be used to harvest multiple crops. All of these advancements were the direct result of experience in the field. Which just goes to show – there’s no substitute for experience.
Experience you can trust

In the agricultural world, heritage counts. More than 160 continuous years in the ag equipment industry, as well as 40-plus years in the forage harvesting business, stand as a testament to our uncompromising adherence to our four values: quality, integrity, commitment, and innovation. Today, you can benefit from that heritage and make it part of your own with a new John Deere 7050 Series Forage Harvester.
<table>
<thead>
<tr>
<th>Year</th>
<th>Model Description</th>
</tr>
</thead>
</table>
| 1966 | **34 Pull-Type Forage Harvester**  
Our first forage harvester, built here in North America, was quickly adapted for use in the harder-to-cut European grasses. The popular design of the 34 helped to build substantial market share. |
| 1971 | **3760 Pull-Type Forage Harvester**  
A forerunner of today’s self-propelled forage harvester, this model featured a completely enclosed rotor that provided better movement of the crop through the spout. The multi-knife drum design allowed the harvester to continue working even if a knife was damaged. |
| 1972 | **5200 – 5400 Series Self-Propelled Forage Harvesters**  
These were our first self-propelled forage harvesters. Two models were offered (175 hp and 212 hp), along with a choice of interchangeable headers. One innovation on these harvesters was reverse grinding of the cutterhead – a feature found on today’s 7050 Series. |
| 1974 | **5720-5820 Self-Propelled Forage Harvesters**  
The demand for power pushed output to 290 hp. These were the first harvesters to feature the SoundGard cab, which set new standards in operator comfort and quietness. |
| 1979 | **6010 Self-Propelled Forage Harvesters**  
Worldwide production moved to our Zweibrucken factory in Germany. The quest for greater power continued: a choice of four models was available, with the largest featuring 490 hp. |
| 1991 | **New headers**  
John Deere acquired Kemper, the company that invented the revolutionary row-independent rotary header. Low in maintenance, the high throughput of these headers brought new levels of productivity. |
| 1994 | **5820 Self-Propelled Forage Harvesters**  
The launch of the 812-hp 7950 in conjunction with the 692 Header, a 29-ft row-independent header, brought yet another advancement in harvester productivity. |
| 2007 | **Automatic length-of-cut**  
The HarvestLab™ real-time moisture measurement was linked to the length-of-cut for the first time, providing a whole new level of accuracy. |
Self-Propelled Forage Harvesters Built from experience

Green and Yellow, inside and out

7050 Series Self-Propelled Forage Harvesters are designed and built by John Deere

At John Deere, we believe that if you want a job done right, you do it yourself. That’s why our forage harvesters are designed, tested, and built by John Deere engineers. We also manufacture most of the core components ourselves: PowerTech™ Plus engines, transmissions, cabs, electrical components, and crop headers.

This approach is what earns us our outstanding reputation for quality. We could buy components designed for other commercial applications, but we choose to design and build our own. That way, we know they will withstand the unique stresses and strains of chopping crop hour after hour.

Another benefit: By retaining most of the core component capabilities in house, we’re able to perfectly balance the components in the 7050 Series – from the header right through to the spout – for optimum efficiency.
A world-wide test program for better performance in your own back yard

Four continents. That’s right – we test our self-propelled forage harvesters on four continents. From the North American prairie to the plains of central Europe and South America, as well as the fertile valleys of New Zealand, our prototypes can be found chopping corn and harvesting grasses. This worldwide testing program allows for accelerated product development, so we can be sure to bring the latest innovations to market as quickly as possible. It also gives us the widest possible array of test conditions, from abrasive, sandy soils to soft clay and steep inclines. That means no matter what the conditions are in your neck of the woods, you can be sure the 7050 Series is more than up to the task.
Built for business

Cutting high-quality, high output silage remains the foremost goal during harvest. But it’s not the only goal. Gathering information and managing logistics are also on the to-do list. Which is why we designed the 7050 Series with the capabilities to address these varied business requirements. Not only will your forage harvester help you produce premium-quality silage, but it can also be equipped with technology tools that simplify and speed decision-making – today, and into the future.
A systematic approach to better silage

The 7050 Series are highly efficient harvesting machines, thanks to a series of integrated systems that make these machines greater than the sum of their parts.

Control

**CommandArm** – Features intuitive, easy-to-use controls. The ergonomic lever makes one-handed operation simple and comfortable.

**AutoTrac™ precision guidance** – Hands-free satellite guidance in both parallel lines and curves maximizes harvesting efficiency while minimizing driving stress.

**Manual Row Sense™** – The easy way to stay on row in corn. Rear wheels are steered automatically so you can concentrate on header and spout functions.

**Automatic spout positioning** – Delivers spill-free, stress-free, high-speed trailer loading.

Power

**Advanced engines** – Sophisticated PowerTech™ Plus Engines, used on most models, meet emissions standards without compromising power, performance, or efficiency.

Cutting and Processing

**Multiple header options** – Choose from both small- and big-drum rotary corn headers in a range of widths. In grasses, turn to the redesigned C-Series Hay Pickups.

**DuraDrum cutterhead** – A proven performer, the multi-knife design can be configured to work in a variety of crops. The self-sharpening design minimizes maintenance needs, but knife replacement is a snap when necessary.

**AutoLOC** – A breakthrough in forage harvesting performance, AutoLOC (automatic length of cut) makes precise, automatic adjustments to the length of cut based on changing moisture readings and the settings you choose.

**HarvestLab™ moisture sensor** – Samples moisture levels 10 times per second to give you accurate, real-time moisture readings.

**Kernel Processor** – Developed by John Deere, the kernel processor cracks the corn to improve ruminant digestion.

Propulsion

**ProDrive™** – This transmission system allows infinitely variable speed adjustments up to 25 mph on the road and 12 mph in the field. The combination of four-wheel drive and differential lock ensures that all available power gets to the ground for maximum traction, even in soft conditions.

Management

**HarvestDoc™** – This powerful software provides a permanent record of harvest data that can be used to create yield maps and other reports.

**JDLink™** – This telematics solution helps you monitor (via the Internet or smartphone) and manage information such as machine location, performance and maintenance data.
Self-Propelled Forage Harvesters Built for business
Headers that match your crop, maximize your harvesting capacity

The 7050 Series is designed for crop versatility...grasses, wheat, and corn. Our range of headers lets you perfectly match your front-end equipment to the crops you grow and your harvester’s through-put capacity.

Rotary corn headers

Our rotary row-independent heads are legendary for their high capacity, reliability, and low maintenance requirements. These heads feature aggressive tungsten carbide knives that buzz through tough crops and stay sharper longer. Rotating disks gather crop quickly and efficiently, even in down conditions. And, because row spacings and intervals are irrelevant, you can cut the field in any direction you want, optimizing field efficiency to match trailer capacity.

If you work in fields with significant amounts of slope, consider adding Advanced Header Height Control to your header (8- and 10-row rotary corn heads only). With this system, a sensor on each side of the header sends signals to a hydraulic cylinder mounted on the floating frame, which adjusts the lateral position of the header to the ground. This prevents the header from touching the ground, minimizing soil intake and wear on your equipment.

To match different capacity machines, there’s a wide choice of small or big drum models. Rotary corn headers are available in 4-, 6-, 8-, 10-, and now 12-row widths.
Hay Pickups
Our C-Series Hay Pickups are built for long-lasting performance in the field. The key to their design is the combination of a small-diameter pick-up reel and a large-diameter auger, which together provide excellent crop feeding, no matter the conditions. An optional roller baffle compresses windrows to keep them feeding smoothly. The baffle and auger automatically lift if the IntelliGuard metal detector is triggered, making it easy to access the crop.

All pickups are available with either a finger or paddle auger. The retractable fingers on the finger auger push the crop to the feedroll housing, for perfect feeding even in long, tall crops. Conversely, the paddle auger offers tremendous versatility in a low-maintenance package.

To give you season after season of reliable performance, our hay pickups now feature a two-chain drive, instead of the traditional four. Not only does this reduce maintenance, but it also makes these pickups a perfect match for the higher horsepower models in the 7050 Series line.

Drapers
If you’re chopping wheat, barley, or triticale, you can take advantage of the one-pass harvesting solution that the 625D and 630D Draper Platforms offer. Because a single trip through the field is all that’s required, you’ll save time, labor, and fuel.

Ear-Corn Headers
If you’re in the business of chopping earlage, look no further than the row-corn headers from John Deere. Available in 4-, 6-, 8-, or 12-row models, these ear corn headers can be mounted to any 7050 Series SPFH to chop the entire ear of corn into a useful feedstuff for cattle. The performance of these headers coupled with the productivity of the 7050 Series allows for increased efficiency and throughput during harvest.

### Header Options
(See photos at bottom of page.)

1. 770 Independent-Row Header
   The 770 big drum header brings all the advantages of large drums to a wide 10-row width. Wide-body 7750 and 7950 machines offer reinforced components to support the 770.

2. 710 Row-Independent Rotary Header
   High output header adjusts to uneven ground, thanks to lateral tilt mechanism with liquid-cooled clutches.

3. 684, 686, and 688 Row-Crop Header
   Small-drum design works in a variety of crops, including corn and wholecrop cereals. They’re ideal for shorter-to-average height crops. Choose a narrow 4-, 6-, or 8-row working width.

4. 676 and 678 Row-Independent Header
   Cut in any direction, without worrying about row spacing. Large drums gather crop quickly, even in tall or downed crops. Great for dense, high-tonnage corn.

5. 630C, 640C, and 645C Hay Pickups
   Available in single- and double-windrow widths, the C-Series hay pickups feature a low-profile design to help you harvest all the crop in the windrow.

### Crop Model Working Width ft. (m) Type

<table>
<thead>
<tr>
<th>Crop</th>
<th>Model</th>
<th>Working Width ft. (m)</th>
<th>Type</th>
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<td>9.8 (3)</td>
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<td></td>
<td>640C</td>
<td>13.1 (4)</td>
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<td></td>
<td>645C</td>
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<tr>
<td>Corn</td>
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<td>Big Drums</td>
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<tr>
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<tr>
<td></td>
<td>684</td>
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<td>Small Drums</td>
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<td></td>
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<td>14.8 (4.5)</td>
<td>Small Drums</td>
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<td>Small Drums</td>
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<td></td>
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<td>Small Drums</td>
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<tr>
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<tr>
<td></td>
<td>770</td>
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### Corn Header Compatibility

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<th>7350</th>
<th>7450</th>
<th>7550</th>
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</thead>
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<tr>
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</table>
Powerful engines, powerful choices

The exact forage harvester you need is a combination of many factors: acres harvested, size of the trailer support fleet, crop types, length of working season, and the amount of road transport between fields. The 7050 Series covers the full spectrum of forage applications with a choice of high-efficiency models, ranging from 380 to 800 hp*. So no matter your needs, there’s a perfect, powerful model to meet them.

*Manufacturer’s estimate of power (ISO) per 97/68/EE.
Advanced PowerTech™ Plus engines

Tier III emissions standards gave us an opportunity – an opportunity to completely redesign our PowerTech Plus engines to meet the stricter standards without compromising their performance. And that's exactly what we did. The result is a Tier III-compliant engine that turns in a real performance advantage. All components have been optimized, so there's no deterioration in power output.

These updated engines include Exhaust Gas Recirculation (EGR) and a Variable Geometry Turbocharger (VGT). The EGR cools and mixes exhaust gas with incoming fresh air to lower peak combustion temperature and reduce emissions, while the VGT ensures the precise amount of air is fed through to the EGR. The use of the EGR and VGT together has allowed us to maintain, or even increase, the power density of each engine platform. Translation: This system gives you better fuel economy without sacrificing power output.

Designed for the way you work

Longitudinal engine layout (i.e., a front-to-back engine orientation) has several important advantages over a transverse (east-to-west) layout. The biggest: It results in a narrower harvest body, which allows excellent rear vision for improved safety and better maneuverability.

Efficient drive line – Engine power is transmitted via a bevel gear to the main power band that drives all components except the wheels. Made of Kevlar®-reinforced material, it is automatically tensioned. Because the belt tensioning load is not transmitted to the engine crankshaft, less stress is placed on the engine, resulting in longer life.

High-capacity cooling – Fans are permanently driven by the power band from the engine crankshaft, so the cooling matches the engine speed. A self-cleaning rotary air screen keeps the entire assembly clean by removing crop residue; only minimal maintenance is required.

Large fuel tank – The 291 U.S. gallon tank holds sufficient fuel for a complete day's harvesting, eliminating the time wasted while refueling.

Easy service access – Side and rear panels lift vertically, giving you clear access to all engine components.

Long service intervals – Oil and filter changes are needed only every 500 hours, so you can get through peak harvest season without having to stop.

Bigger harvester, bigger engine

The 7950 is the most powerful forage machine ever built by John Deere, thanks to its 800-hp turbo-charged Cummins™ engine. That's a 17-percent increase in horsepower over its predecessor! This engine features twin overhead cams and a high pressure injection system. Plus, fully integrated electronics link engine and equipment performance, so all that power can be focused on helping you chop high-quality forage.

**Cummins is a registered trademark of Cummins Incorporated
Kevlar is a registered trademark of DuPont.

Fuel efficiency in the 7050 Series was not compromised to meet Tier III regulations. Tier III-compliant John Deere engines have been proven to use considerably less fuel than the engines in some other brands of self-propelled forage harvesters.
Better technology yields big benefits

Increasing productivity and safety. Lowering running costs. These are the challenges that keep John Deere engineers up at night. Ultimately, they are also the challenges that spark the research and development that leads to breakthroughs in technology – breakthroughs that bring tremendous benefits for you. For example...

1. ProDrive™
The optional ProDrive propulsion system lets you harvest at high speeds and in demanding conditions with complete confidence. This exclusive system combines a powerful hydrostatic transmission with a two-speed automatic-shifting mechanical gearbox. The result is precise operator control over the full range of available speeds (0-12 mph while harvesting; 0-25 mph during transport) just by moving the hydro handle.

ProDrive is also the transmission of choice in difficult conditions. The system senses which axle, front or back, has more traction. Hydraulic flow is sent to that axle, automatically delivering more power to the ground so you can operate in the muddiest fields.

Other benefits of ProDrive include the automatic front axle differential lock and automatic park brake, as well as an enhanced wet-brake system. Two wet-brake packs, each with four disks, give you greater braking capacity so that you can stop on a dime.

ProDrive is an option on the 7250-7750, but comes standard on the 7950.

2. Engine Speed Management Software
Fuel costs now represent upwards of 70 percent of the running costs of your forage harvester. That’s a number that takes a big bite out of your profitability. Which is why you’re going to love our exclusive Engine Speed Management Software. This engine optimization software lets you reduce fuel consumption by a minimum of 5 percent when harvesting, and by more than 10 percent during road transport.

The Engine Speed Management Software has both a road and a field mode, each of which requires ProDrive. The road mode allows the engine rpm to be increased as necessary up to 2100 rpm to maintain the maximum speed while traveling uphill. It also allows the engine rpm to be reduced to 1250 rpm while on flat ground or when going down hills.

Now here’s how Engine Speed Management Software works while in field mode: Mode 1 maximizes fuel efficiency when working in light crops by reducing engine speeds to 1900 rpm while chopping. Mode 2 adjusts ground speed based on engine load for improved productivity in heavy crops. You can also disengage the system completely for Mode 0, which gives you manual control of the throttle. The result? You won’t lose efficiency when working in light crops, but power is there automatically when you need it. (Field mode is only available on 7050 Self-Propelled Forage Harvesters with ProDrive transmissions.)

As the operator of a 7050 Series forage harvester equipped with Engine Speed Management Software, there are two other benefits you’ll appreciate. The first is that the software significantly increases power output for faster road transport. The second is that it cuts engine noise for a quieter, more comfortable in-cab experience.

ProDrive propulsion has two hydraulically activated and software controlled wet disc brake units for maximum stopping power.
Proven cutting and processing

Precision cutting is vitally important, affecting both the quality of the silage and fuel consumption. Our cutting system pairs a revolutionary Infinitely Variable Length-Of-Cut gear system with a proven cutterhead and shearbar combination.

Flexible, proven cutterhead design

The multi-knife DuraDrum cutterhead made its entrance during the 1970s on the 3760 Forage Harvester, and this tried-and-true design has since been used successfully on thousands of John Deere forage harvesters. The cutterhead comes in two configurations: The 40-knife cutterhead (standard) delivers a quarter-inch to 1-inch length of cut without removing knives, while the 48-knife drum delivers a 3/16-inch to 7/8-inch length of cut without removing knives. The use of individual knives, vs. competitors’ use of full-width knives, means it’s easy to replace a knife if it’s damaged; simply loosen three bolts to make the change. The knife configuration also can be changed for different crops. A short length-of-cut requires a full knife configuration. For a longer length-of-cut, half of the knives on the cutterhead can be removed.

Infinitely Variable Length-Of-Cut (IVLOC)

IVLOC is another industry-leading innovation that lets you adjust the length of cut in 1.0 mm increments while harvesting by simply turning a knob on the CommandArm. This hydro-mechanical transmission uses planetary gears driven by a hydrostatic motor to synchronize the speed at which the feedrolls and header deliver the crop mat to the cutterhead. The relative speed differential between the crop feed and the cutterhead determines the length of cut. The direction of the IVLOC can also be reversed to easily unplug the header and spread out the crop before reengaging.

For even greater ease, a fully automatic solution called AutoLOC (Automatic length-of-cut) is also available. It makes precise, automatic adjustments to the length of cut based on your settings and changing moisture readings from the HarvestLab™ moisture sensor.
Kernel cracking for better digestibility

Give your silage a boost in digestibility by using the kernel processor when you’re chopping whole-plant corn, earlage, or milo. Our kernel processor design features two rolls rotating in opposite directions and at different speeds, with the top roll turning 20 to 32 percent faster than the lower roll. The gap between the two rolls determines the pressure on the crop as it feeds through the kernel processor. What’s important is to crack all the kernels with the minimum amount of pressure, as this uses the least amount of fuel. On the 7050 Series, the gap can be adjusted manually or electrically from the cab.

To prevent bearing damage from the fluid released during processing, John Deere engineers have developed the patented Kernel Processor Labyrinth Sealing system. This new design has a significantly improved seal that prevents moisture from entering the bearing chamber and causing corrosion.

When it’s time to harvest another crop, the kernel processor can be removed with a single wrench. Just detach the drive belt, loosen two securing bolts, and lower the lift. Guide rails move the processor smoothly onto its back underneath the machine, where it stows neatly without being fully removed. An optional electric lift makes the process even simpler.
Efficient crop flow, exceptional chopping power

From the moment crop enters the feedrolls, it moves in a continuous, controlled stream. Our harvesters have a smooth, uninterrupted path that channels the crop in an even mat across the cutterhead, and then funnels the cut crop into a column that passes at high speed through the chute and into the spout for fast and accurate trailer filling. Each component along the feedpath delivers a power-efficient performance to increase chopping capacity, ensure cut quality, and minimize fuel usage.

Need as much capacity as possible? Then opt for the 7750 or 7950. They have the horsepower and capacity to match larger headers and heavy crops. A 17-percent wider cutterhead, larger feedrolls, and stronger crop accelerator keep forage flowing smoothly. The Kernel Processor rolls are also larger to keep pace. It all adds up to faster forage processing without sacrificing silage quality.

An aggressive feedroll system delivers a tight, uniform crop mat across the entire width of the cutterhead for even chopping. The system features two pairs of upper and lower feedrolls connected by variable tension springs so you can set the right compression for each crop. The upper front feedroll is positioned farther forward to catch crop as it passes from the header, while the upper rear feedroll is positioned close to the shearbar for better cutting quality. Different feedrolls are available to match soil conditions, and the entire housing is hinged for easy access to the feedrolls, cutterhead, shearbar and knife sharpening system.

John Deere radial-arc feedrolls pivot around the cutterhead (left), not just up and down like competitors’ designs (right). They maintain tight control of the crop mat as it feeds into the cutterhead, so quality of cut is never compromised.

The DuraDrum™ cutterhead is the heart of the forage harvester. Its segmented knife design provides an efficient, clean cut. The cutterhead works in tandem with our innovative drive system to deliver infinitely variable length of cut, helping ensure the highest quality silage possible.

When harvesting corn, the crop mat feeds through the Kernel Processor, where kernels are cracked to boost digestibility. The position of the processor rolls and driveline are optimized for better feeding. When the Kernel Processor is not in use, a curved chute takes its place in the feedpath to ensure smooth crop flow.

The curved transition chute virtually eliminates the plugging associated with gummy alfalfa. This increases the machine’s crop capacity, resulting in more tonnage chopped per hour.

The crop accelerator powers the crop though the transition and out the unloading spout, thanks to outer paddles that funnel the crop into a high-speed stream. The knife paddle design requires less air to move the crop, which means the crop stream is tighter and packs better, so you get more crop in every trailer load. For the durability to stand up to literally tons of fast-moving silage, we build the accelerator band casing from 8-mm thick steel.
7. Our upgraded spout features hard-wearing carbon and stainless steel lines, as well as a stronger drive system. An automatic spout positioning system lets you program up to eight different spout positions for easier trailer filling. Plus, an audio safety system sounds an alarm if the spout isn’t in its proper position when you switch to transport mode.

6. Sharpen in reverse for a superior cut!
Sharpening in reverse strikes the heel of the knife first, drawing the stone across the face toward the edge. This hones the edge into a fine cutting point. With the John Deere sharpening system (on left), knives stay sharper longer. Replacement is reduced and you save time and money. Other sharpening systems (image on right) that don’t sharpen in reverse can actually lengthen the edge, leading to a need to re-bevel the knife.

5. Protect your crop from metal.
The IntelliGuard™ metal detection system stops feedrolls in less than 0.04 seconds if it detects metal, reducing the potential for costly downtime. Sensitivity can be adjusted to match conditions, and LED indicators show you exactly where the metal tried to enter the machine.
Intelligent tools to support your harvest

Everyone knows the dry matter content of their crop can vary from one part of the field to another, but frequently, only a few samples are taken before harvesting begins. And some farmers and contractors decide what length to cut forage based simply on former experience alone.

But that guesswork can be a thing of the past. Intelligent technology tools from John Deere take real-time moisture measurements and then automatically adjust length-of-cut. It’s a system that produces high-quality silage every time, no matter who is driving the machine.

The HarvestLab™ moisture sensor can be easily removed from the spout and used as a stand-alone silage analysis laboratory. Simply connect your HarvestLab sensor to a laptop to get accurate readings of your silage dry matter content in minutes. This valuable information can help you make the best management decisions to optimise the productivity of your dairy or beef cattle herd.
The system components

**HarvestLab™** – One key to achieving consistently high-quality silage is the HarvestLab moisture sensor. It mounts easily to the top of the spout and takes real-time moisture readings as crop passes through. In fact, moisture levels are sampled 10 times per second using Near Infrared Technology (NIR) that gives you readings that aren’t affected by humidity or atmospheric conditions. This information gives you the ability to select the optimum length-of-cut, choose the application rate of any inoculants, and precisely measure the amount of crop harvested. What’s more, HarvestLab is factory calibrated and requires no set-up, will work in any crop, and provides accurate readings even at high throughput.

**Harvest Monitor™** – The Harvest Monitor system analyzes data from the mass flow sensor on the front feed rolls and the harvester’s central computer, and then displays all the key performance information in an easy-to-read format on the GreenStar™ monitor. This includes productivity (acre/hour), throughput (tons/hour), area harvested, mass, yield, fuel consumption, and dry matter content.

**HarvestDoc™ software** – The HarvestDoc software records important field and crop data, including yield and GPS location, while harvesting. This on-the-go data can be saved and later downloaded into the Apex™ Farm Management Software for both analysis and reporting purposes.

**AutoLOC™** – AutoLOC is used to automatically vary the length-of-cut of the crop based on the moisture readings from the HarvestLab moisture sensor. AutoLOC functionality is automatically present when the HarvestLab system is used in conjunction with a 7050 Series Self-Propelled Forage Harvester (SPFH) and GreenStar™ 2600 or 2630 Display and just needs to be activated.

How they work together

With the key components in place, the steps are simple to ensure the best quality forage.

1. Choose the required LOC setting for a particular dry matter content.
2. Set the upper and lower ranges on the Harvest Monitor display.

That’s it. The AutoLOC system does the rest. It adjusts the IVLOC system to ensure that the perfect length-of-cut is automatically set using the dry matter content data from the HarvestLab system.
An enviable working environment

Quality means that when the crop is ready, so are you. It means long hours and extreme temperatures. Fortunately, the cab on the 7050 Series is designed to keep you comfortable and in control through it all.

It all starts with arm’s-length access to all controls. Key controls on the CommandArm, single-lever operation with the hydro handle, and clear instrumentation on the corner-post monitor let you adjust the harvester’s performance with ease.

To keep you comfortable throughout the day, a spacious interior gives you room to move and stretch, while the adjustable ComfortCommand™ seat provides a cushioned ride. A wide front window provides a clear view of the entire header, and no rear corner posts means unobstructed visibility from the sides and rear.

No time to stop for lunch? No worries. The cab includes a refrigerated cool box. Need more storage space? Add a FieldOffice™ under the standard training seat for a convenient place to keep files.
The perfect balance of comfort and control

1. **Don’t fumble for controls.** The CommandArm puts all the critical controls in one place, arranged logically for easy use. Plus, the essentials — programmable header position buttons, spout rotations and header height controls, feedroll direction, and an emergency shut-off — are all clustered on the hydro handle for ready access.

2. **Monitor information with ease.** A triple display right at eye level gives you a variety of info at a glance. The top display is devoted to machine functions; the middle panel is the performance monitor display; and the lower panel shows such items as engine and cutterhead speed and fuel levels.

3. **Get best-in-class visibility.** A substantial 43 square feet of glass gives you excellent visibility for confident handling of wide headers, as well as accurate spout positioning for spill-free loading.

4. **Sit back and relax.** Our ComfortCommand™ seat is designed to provide a smooth ride, whether you’re harvesting in rough conditions or transporting at high speeds. The air suspension system features low-frequency technology to soak up vibrations; with independent vertical and horizontal adjustments, the seat can be easily adjusted to match your size.

5. **Breathe easier.** The interior of our cab is pressurized with filtered air to prevent pollen, inoculants, and other materials from entering. You’ll enjoy a clean air environment. In addition, responsive heating and air conditioning systems keep let you keep in-cab temperatures comfortable, no matter the weather outside.

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**Work into the night**

The 7050 Series is equipped with a wide range of lights for both harvesting and on-road driving. Additional optional lighting also is available. The right lighting package, combined with AutoTrac™ Assisted Steering, makes it possible to harvest as efficiently at night as during the day — a huge productivity boost!
Gain efficiency with guidance

Machine guidance is essential for high-volume harvesting operations. It gives you a full header width with every pass, saves fuel by eliminating missed or skipped sections of the field, and enables harvesting at higher speeds. It also means you have one less task to worry about so you can concentrate on optimizing the harvester and ensuring spill-free trailer loading.

Scalable Accuracy

Choose the level of accuracy needed – from +/-13 inches with WAAS to +/-1 inch with RTK – to match your operation.
Choose from two guidance systems: Manual RowSense™ mechanical guidance and AutoTrac™ Assisted Steering.

**Manual RowSense**
Manual RowSense is a highly reliable system designed for 30-inch corn that works by using feelers mounted on the rotary corn header. The feelers follow the position of the corn stalks, and then feed a signal to a wheel angle sensor. In response, the rear wheels automatically steer the harvester to follow the crop.

Controlled via two buttons on the hydro handle, RowSense is easy to use. It takes the stress out of harvesting and allows the operator to focus on other critical functions. And, because the feelers follow the direction of the stalks, RowSense also compensates for any uneven planting or field contours.

**AutoTrac**
AutoTrac hands-free guidance works in all crops, saving time, reducing overlap, and lowering fuel consumption. It uses the signal from the StarFire GPS receiver to monitor the position of the harvester. There’s a choice of two modes, depending on the field conditions. Straight Track guides the machine along perfect parallel lines between two points. Curve Track allows you to drive back and forth along contoured fields.

**Three levels of accuracy are available.**
The SF1 signal provides +/-10-inch accuracy; the SF2 signal delivers +/- 4-inch pass-to-pass accuracy; and the RTK signal provides 1-inch repeatable, pass-to-pass accuracy.

An additional guidance solution in the AutoTrac family is AutoTrac RowSense. This system fuses satellite position data from the StarFire™ receiver with mechanical feeler data gathered from the row sensors on the corn head. This approach offers tremendous accuracy, which helps you to reach greater levels of productivity.

**The common component strategy**
AutoTrac is part of John Deere’s GreenStar solutions, which is an integrated range of hardware and software that allows you to control your equipment and manage your operation in a new, more effective way.

To take advantage of GreenStar solutions, you need two common components. The first is a StarFire 3000 Receiver, which picks up signals from positioning satellites to determine the precise location of the harvester. The second is a GreenStar 3 2630 Display, which allows you to view data inside the cab. The modular design of the components means you can transfer them from one piece of equipment to another to maximize your investment. This also gives you the flexibility to take advantage of other GreenStar applications, too.
Manage your forage fleet in real time

Today’s customers want more than a first-class forage harvester; they want a total harvesting solution. In other words, they want a package that includes tools to help them monitor their equipment and logistics. That’s why there’s JDLink™. It lets you keep tabs on your harvesting equipment via the Internet or smart phone. Sensors on your forage harvester relay information wirelessly to a John Deere web interface. You simply log on to view your equipment’s performance. Take a look at all you can accomplish with JDLink:

- Control running costs – Document and analyze fuel consumption and harvesting performance
- Maintain accurate records – Get a permanent record of key harvesting and maintenance data
- Maximize machine utilization – Squeeze every drop of productivity from your forage harvester by analyzing how it’s being used at different load levels
- Get machine alerts – Sent to your mobile phone or email, these alerts warn you of low fuel, upcoming maintenance, engine performance issues, and more
- Monitor machine location – Know exactly where your machine is and what it’s doing. If it goes outside a pre-set area, you’ll get an automatic alert.
JDLink can give you valuable insights into how you’re operating your machine, which can help you improve profitability. Our analysis of the tractor fleet of several operators showed that machines typically can spend more than 50% of their running time with the engine idling! This data allowed these owners to change their drivers’ working styles and significantly reduce fuel consumption.

Get information about your fleet anytime, anywhere. Ready access to machine performance and utilization data lets you make immediate business decisions.
Built for the job

Our 7050 Series Forage Harvesters: We build them to work; we build them to last. Why? Because we take your business as seriously as our business. So whether you need a modestly sized forage harvester or a behemoth, we can help. Take a look at the specifications on the next few pages to see what we have to offer, and then give your John Deere dealer a call. He’s ready to help you select and equip the forage harvester that’s right for your business.
Genuine John Deere Parts: There’s nothing like the real thing

When it’s time to replace a part or two on your forage harvester, don’t let your eyes deceive you. Other brands may look the same, but there is no substitute for Genuine John Deere parts. Why? Not only are they made to meet exact design specifications for your machine, but they’re also manufactured from the highest quality materials. Consequently, Genuine John Deere parts can last longer and perform better than look-alikes.

Need an example? Then consider our Plus-50™ oil. When used with a John Deere filter in a John Deere engine, drain intervals can increase by up to 50 percent! That means you’ll use less oil and fewer filters, as well as reduce maintenance costs and downtime. Such a savings more than covers your initial investment in high-quality oil.

That same story can be told about other frequently replaced parts, too…such as our cutterhead knives and shearbars. So don’t skimp. Instead, insist on the best: Genuine John Deere parts. You’ll be glad you did.

24-hour parts ordering and overnight delivery system – Online ordering is always available through JDParts. Or, parts specialists at our dealerships can help locate the proper parts and get them speeding your way. Part not in stock? Not to worry. Your dealer can quickly query other dealers using the JDPOINT online order system.
Three knife options are available. Choose:
1. Grass knives if you work primarily in hay;
2. Wide corn knives stay sharper in corn, especially under abrasive conditions;
3. Angled corn knives handle tall or high-yield corn crops.

Save money with an upper front feedroll that features bolt-on serrated or straight replaceable teeth bars specifically designed for high wear conditions, sandy soil, and high-yield corn.

Heavy-duty video observation system
Reducing crop loss can really increase your profits. And the John Deere heavy-duty video observation is a great tool for doing just that. The full-color display makes it easy to monitor your crop flow so you can boost unloading efficiency and accuracy. It’s also easy to move the camera to other machines.

Spout extension
Reach tall wagons and unload with greater precision by adding a John Deere unloading spout extension.
Self-Propelled Forage Harvesters Built for the job
Supporting your business every day, in every way

Service packages that protect your investment

After fuel, service and maintenance are the biggest running costs you face. To help you better control those costs and still keep your machine in top working order, there’s the PowerGard™ Protection Plan.

The PowerGard Maintenance program focuses on preventative maintenance. It’s designed to make sure your forage harvester is maintained properly for peak performance, reliability, and top resale value.

The PowerGard Protection Plan* allows you to purchase extended engine and powertrain warranty coverage for up to a total of 5 years or 3,000 hours usage. Or, add comprehensive bumper-to-bumper coverage to extend the standard first-year warranty.

* The PowerGard Protection Plan (Limited or comprehensive) does not cover headers, attachments, maintenance or high-wear items, Cummins™ engines, nor other non-covered components specifically mentioned in the contract terms.

Trained technicians

John Deere service technicians are among the best in the business. Their extensive training enables them to answer questions, diagnose problems, and knowledgeably complete maintenance and repairs. And they do it all as quickly as possible, so you can get back to work.

Fast diagnosis and repair

The ServiceADVISOR diagnosis system is our secret weapon against downtime. A technician simply plugs this powerful diagnostic tool into your machine, and the cause of the difficulty is known in minutes. The system is also portable, so diagnostics can be completed in the field. And now, with certain JDLink™ subscriptions, problems can even be diagnosed remotely!

Automatic greasing

The 7050 Series can be equipped with a greasing system that automatically greases up to 51 points, including the kernel processor bearings and the header, on a regular basis. And because greasing is completed while the machine is running, you get more effective coverage.
### Specification

#### ENGINE
- **Make**: John Deere PowerTech Plus
- **Displacement – cubic inches (L)**: 548 (9.0), 824 (13.5), 824 (13.5), 824 (13.5), 824 (13.5), 1159 (19)
- **Configuration**: Inline 6, wet sleeve
- **Power @ 1900 RPM – ECE-R**: 120 hp, 380, 480, 555, 625, 625, 800
- **Power @ 2100 RPM – ECE-R**: 120 hp, 355, 450, 520, 580, 580, 744
- **Cooling fan drive**: Direct
- **Fuel tank capacity – gallons (L)**: 185 (700), 185 (700), 291 (1100), 291 (1100), 291 (1100), 291 (1100)

#### FEEDING SYSTEM
- **Number of feedrolls**: 4
- **Width of housing – inches (mm)**: 27 (683), 27 (683), 27 (683), 27 (683), 31.7 (805), 31.7 (805)
- **Width of feedroll – inches (mm)**: 26 (660), 26 (660), 26 (660), 26 (660), 30.7 (780), 30.7 (780)
- **IntelliGuard ™ Metal Detector**: Standard
- **Length of cut system – standard**: Infinitely Variable LOC
- **Length of cut range:***
  - With 40-knife cutterhead – inches (mm): .25-1 (6-26) in 1 mm steps
  - With 48-knife cutterhead – inches (mm): .2-.875 (5-22) in 1 mm steps

#### CUTTERHEAD
- **Type**: Enclosed with straight knife holders, Enclosed with angled knife holders
- **Width – inches (mm)**: 27 (683), 27 (683), 27 (683), 27 (683), 31.7 (805), 31.7 (805)
- **Diameter – inches (mm)**: 24 (610), 24 (610), 24 (610), 24 (610), 24 (610), 26 (660)
- **Speed – RPM**: 1000, 1000, 1000, 1150, 1100, 1200
- **Number of knives**: 40 or 48
- **Sharpening system**: Reverse rotation, remote from cab

#### KERNEL PROCESSOR
- **Type**: Serrated roller, quick change and remove
- **Roll diameter – inches (mm)**: 8.5 (216), 8.5 (216), 8.5 (216), 8.5 (216), 9.45 (240), 9.45 (240)
- **Roll speed (upper)**: 3921, 3921, 3921, 3917, 3400, 3490
- **Roll speed (lower)**: 3233, 3233, 3233, 3230, 2878, 2878
- **Roll spacing – inches (mm)**: .03125-1.2 (1-30)
- **Weight – lbs. (kg)**: 732 (328), 732 (328), 732 (328), 732 (328), 881 (400), 881 (400)
- **Corn, roll teeth number (speed differential)**: 107 (21%), 107 (21%), 107 (21%), 107 (21%), 118 (21%), 118 (21%)

#### BLOWER
- **Width – inches (mm)**: 20 (506), 20 (506), 20 (506), 20 (506), 25 (632), 25 (632)
- **Number of paddles**: 12, 12, 12, 12, 20, 20
- **Rotation – degrees**: 200

#### MAXIMUM GROUND SPEED, STANDARD TRANSMISSION (MPH)
- **REAR AXLE – 2WD**: 18.6
- **REAR AXLE – HFWD**: n/a, 25

#### MAXIMUM GROUND SPEED, PRODRIVE (MPH)*
- **REAR AXLE – 2WD**: 25
- **REAR AXLE – HFWD**: 25

#### VEHICLE
- **With front tires**: 620/75 R32, 650/75 R32, 800/65 R32, 800/65 R32, 800/65 R33, 800/65 R32
- **Transport length w/o header – feet (m)**: 22 (6.62), 22 (6.62), 22 (6.62), 22 (6.62), 22 (6.62), 22 (6.62)
- **Transport width w/o header – feet (m)**: 9.7 (2.95)*, 9.7/10.3 (2.95/3.16)*, 10.8/11.3 (3.30/3.45)*, 10.8/11.3 (3.30/3.45)*, 10.8/11.3 (3.30/3.45)*, 10.8/11.3 (3.30/3.45)*
- **Transport height (to cab roof – feet (m))**: 12.2 (3.7), 12.2 (3.7), 12.2 (3.7), 12.2 (3.7), 12.2 (3.7), 12.2 (3.7)
- **Working height (maximum) – feet (m)**: 20.3 (6.2), 20.3 (6.2), 20.3 (6.2), 20.3 (6.2), 20.3 (6.2), 20.3 (6.2)

#### APPROXIMATE WEIGHT (WITHOUT HEADER)
- **21,506 lb. (9,755 kg)**, **24,868 lb. (11,280 kg)**, **25,530 lb. (11,580 kg)**, **25,530 lb. (11,580 kg)**, **27,954 lb. (12,680 kg)**, **31,966 lb. (14,500 kg)**

*Depending on tire brand
### Self-Propelled Forage Harvesters

**Built for the job**

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### MAXIMUM GROUND SPEED

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<th>Model</th>
<th>Standard Transmission (MPH)</th>
<th>ProDrive (MPH)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>7250</td>
<td>18.6</td>
<td>N/A</td>
</tr>
<tr>
<td>7350</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>7450</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>7550</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>7750</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>7950</td>
<td>25</td>
<td>25</td>
</tr>
</tbody>
</table>

### VEHICLE

<table>
<thead>
<tr>
<th>With front tires</th>
<th>Rear Axle – 2WD</th>
<th>Rear Axle – HFWD</th>
</tr>
</thead>
<tbody>
<tr>
<td>620/75 R32</td>
<td>Fixed, heavy duty</td>
<td>Fixed, heavy duty</td>
</tr>
<tr>
<td>16.5/85-24</td>
<td>Fixed, heavy duty</td>
<td>Fixed, heavy duty</td>
</tr>
<tr>
<td>22 (6.62)</td>
<td>Fixed, heavy duty</td>
<td>Fixed, heavy duty</td>
</tr>
<tr>
<td>9.7 (2.95)*</td>
<td>10.8/11.3 (3.30/3.45)*</td>
<td>10.8/11.3 (3.30/3.45)*</td>
</tr>
<tr>
<td>12.2 (3.7)</td>
<td>12.2 (3.7)</td>
<td>12.2 (3.7)</td>
</tr>
<tr>
<td>20.3 (6.2)</td>
<td>20.3 (6.2)</td>
<td>20.3 (6.2)</td>
</tr>
<tr>
<td>21,506 lb. (9,755 kg)</td>
<td>24,868 lb. (11,280 kg)</td>
<td>25,530 lb. (11,580 kg)</td>
</tr>
</tbody>
</table>

### APPROXIMATE WEIGHT (WITHOUT HEADER)

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight (lbs. (kg))</th>
</tr>
</thead>
<tbody>
<tr>
<td>7250</td>
<td>21,506 (9,755)</td>
</tr>
<tr>
<td>7350</td>
<td>24,868 (11,280)</td>
</tr>
<tr>
<td>7450</td>
<td>25,530 (11,580)</td>
</tr>
<tr>
<td>7550</td>
<td>25,530 (11,580)</td>
</tr>
<tr>
<td>7750</td>
<td>27,954 (12,680)</td>
</tr>
<tr>
<td>7950</td>
<td>31,966 (14,500)</td>
</tr>
</tbody>
</table>

*Depending on tire brand
### Header Specification

<table>
<thead>
<tr>
<th>Crop Harvesting Units</th>
<th>7950</th>
<th>7750</th>
<th>7550</th>
<th>7450</th>
<th>7350</th>
<th>7250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kemper Rotary Header, Rows</td>
<td>12, 10</td>
<td>10, 8</td>
<td>10, 8</td>
<td>8, 6</td>
<td>8, 6</td>
<td>6, 4</td>
</tr>
<tr>
<td>Automatic steering for maize</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>Advanced Header Control</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Feed Rolls</th>
<th>7950</th>
<th>7750</th>
<th>7550</th>
<th>7450</th>
<th>7350</th>
<th>7250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed roll frame opening</td>
<td>Swing away, wide access</td>
<td>Swing away, wide access</td>
<td>Swing away, wide access</td>
<td>Swing away, wide access</td>
<td>Swing away, wide access</td>
<td>Swing away, wide access</td>
</tr>
<tr>
<td>Number</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Width, mm (front)</td>
<td>780</td>
<td>780</td>
<td>660</td>
<td>660</td>
<td>660</td>
<td>660</td>
</tr>
<tr>
<td>IVLOC. Feed roll speed</td>
<td>Infinite Variable Std.</td>
<td>Infinite Variable Std.</td>
<td>Infinite Variable Std.</td>
<td>Infinite Variable Std.</td>
<td>Infinite Variable Std.</td>
<td>Infinite Variable Std.</td>
</tr>
<tr>
<td>Mechanical LOC. Feed roll speeds</td>
<td>–</td>
<td>–</td>
<td>4 Speed Opt</td>
<td>4 Speed Opt</td>
<td>4 Speed Opt</td>
<td>4 Speed Opt</td>
</tr>
<tr>
<td>Number of front end drive speeds</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cutterhead</th>
<th>7950</th>
<th>7750</th>
<th>7550</th>
<th>7450</th>
<th>7350</th>
<th>7250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutterhead housing width – inches (mm)</td>
<td>32.7 (830)</td>
<td>32.7 (830)</td>
<td>28 (710)</td>
<td>28 (710)</td>
<td>28 (710)</td>
<td>28 (710)</td>
</tr>
<tr>
<td>Weight - lbs. (kg)</td>
<td>875 (398)</td>
<td>875 (398)</td>
<td>765 (348)</td>
<td>765 (348)</td>
<td>765 (348)</td>
<td>765 (348)</td>
</tr>
<tr>
<td>Number of knives</td>
<td>48 or 60</td>
<td>48 or 40</td>
<td>48 or 40</td>
<td>48 or 40</td>
<td>48 or 40</td>
<td>48 or 40</td>
</tr>
<tr>
<td>Speed at rated engine speed (rpm)</td>
<td>1200</td>
<td>1200</td>
<td>1150</td>
<td>1150/1000</td>
<td>1150/1000</td>
<td>1150/1000</td>
</tr>
<tr>
<td>Knife types available (crop)</td>
<td>Straight (grass)</td>
<td>Straight (grass)</td>
<td>Straight (grass)</td>
<td>Straight (grass)</td>
<td>Straight (grass)</td>
<td>Straight (grass)</td>
</tr>
<tr>
<td>Sharpening system</td>
<td>Reverse rotation</td>
<td>Reverse rotation</td>
<td>Reverse rotation</td>
<td>Reverse rotation</td>
<td>Reverse rotation</td>
<td>Reverse rotation</td>
</tr>
</tbody>
</table>