

DION

-Ag Inc.

The Forage Equipment Specialist

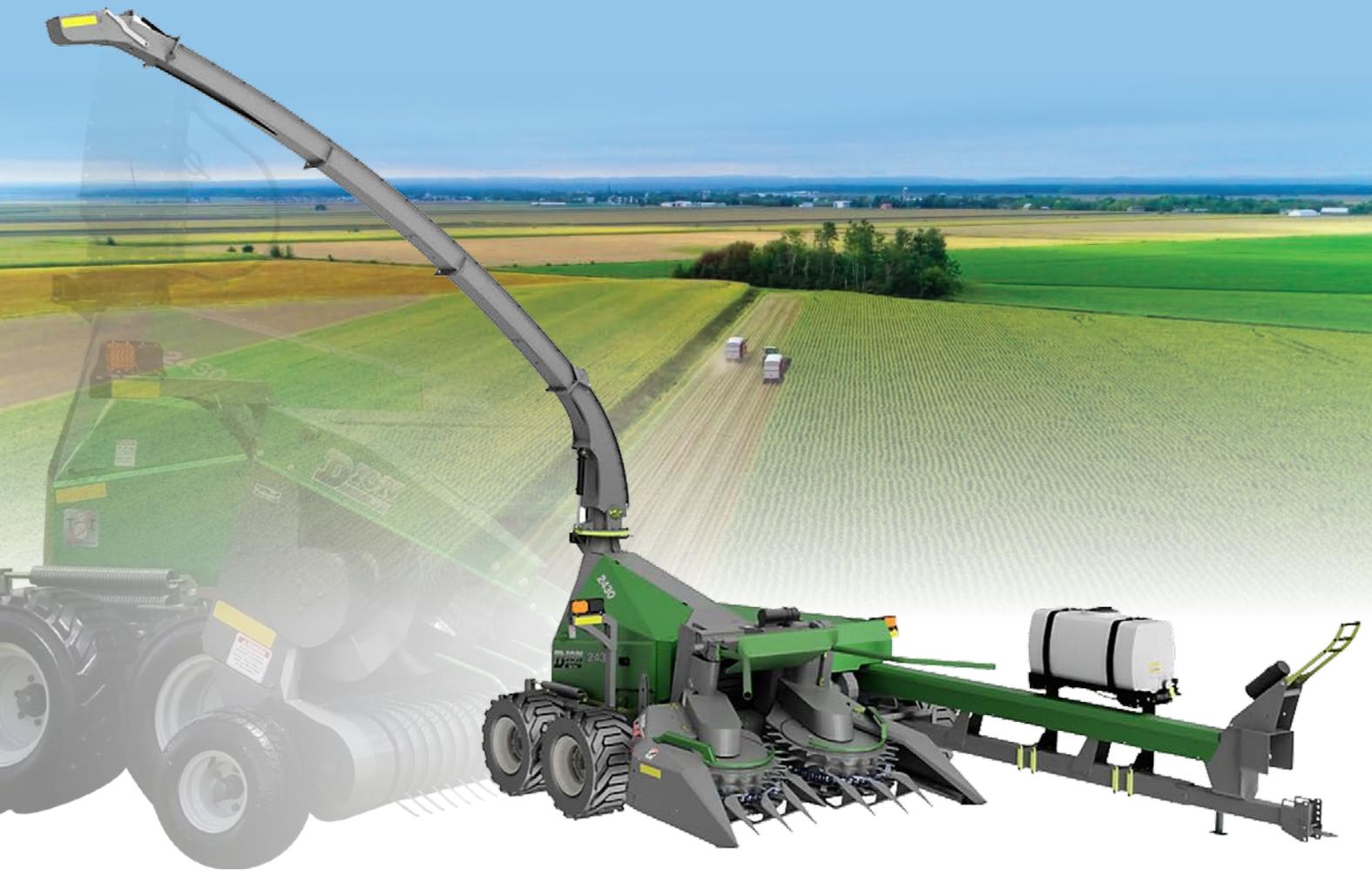


DION is offering a selection of products with distinctive features and color exclusively from your John Deere dealer.



dion-ag.com

Forage Harvester – DION 2430



2430

Performance of a Dion harvester, with the straight through design, incorporating a Dura-Drum™ cutterhead using segmented knife technology similar to what is found in the current John Deere self-propelled forage harvesters.

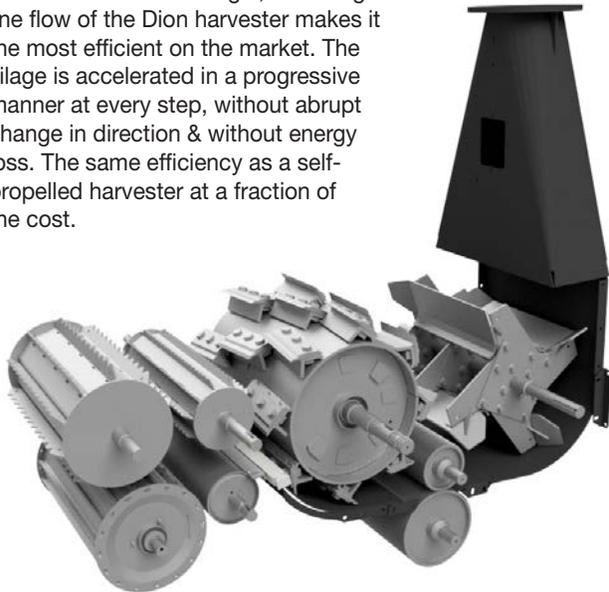
A model exclusive to the John Deere dealers.

Dura-Drum™ is a trademark of Deere & Company. The Dura-Drum™ cutterhead drum has been modified to fit into the Dion PTFH.

Forage Harvester – Features

Exclusive Straight-Through Design

Without a transverse auger, the straight line flow of the Dion harvester makes it the most efficient on the market. The silage is accelerated in a progressive manner at every step, without abrupt change in direction & without energy loss. The same efficiency as a self-propelled harvester at a fraction of the cost.



Unmatched Capacity

The secret behind the capacity of the Dion harvester resides in the rotation speed of the cutterhead. At 1033 rpm, it is 22% more cuts per minutes than the competition (and up to 62% more for certain lengths of cut*).



Exploit all the tractor's power without constraint with throughputs exceeding 110 ton/h. The spiral bevel gears can handle 300hp (PTO power) without worry. Improved cooling and synthetic oil lubrication ensures great reliability.

For less powerful tractors (<160hp), a lower ratio gearbox configuration is available, providing a cutterhead speed of 825rpm.

Comparative example of two (2) common lengths of cut.

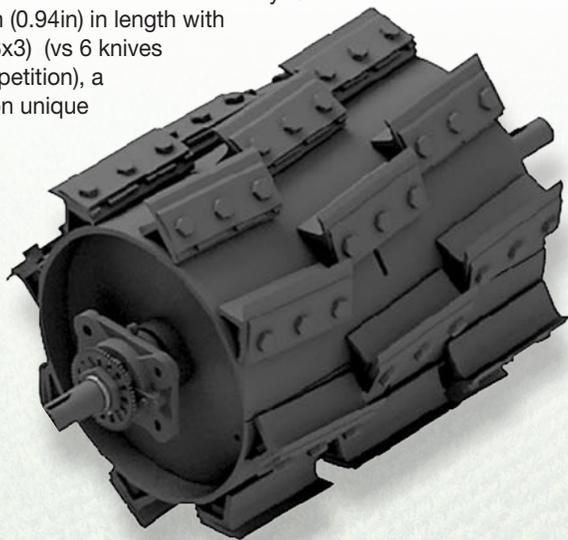
Includes the maximum number of knives possible for the LOC and rotation speed of the cutterhead.

Dura-Drum™ Cutterhead from John Deere

Exclusive to the Dion 2430, the cutterhead uses Dura-Drum™ segment knives similar to those found on the John Deere 7000 series self-propelled harvesters. Adapted to fit in the 2430, the cutterhead features 24 knives positioned on 3 rows of 8 knives.

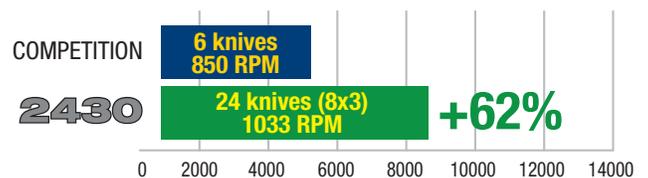
The knives, mounted at an angle, offer excellent quality of cut, high durability & easy replacement.

With two (2) choices of LOC range, maximize the capacity of your harvester no matter the conditions. Three (3) LOC sprockets are available from the factory. Cut up to 24mm (0.94in) in length with 24 knives (8x3) (vs 6 knives for the competition), a configuration unique to Dion.

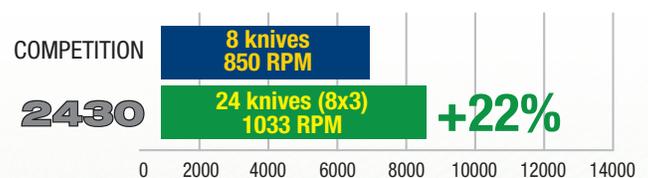


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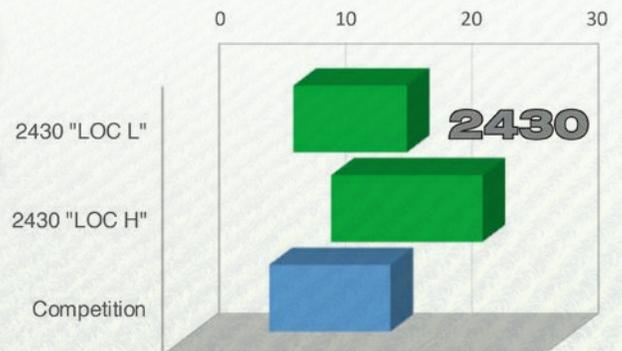
19MM (3/4") - CUTS PER MINUTE



14MM (9/16") - CUTS PER MINUTE



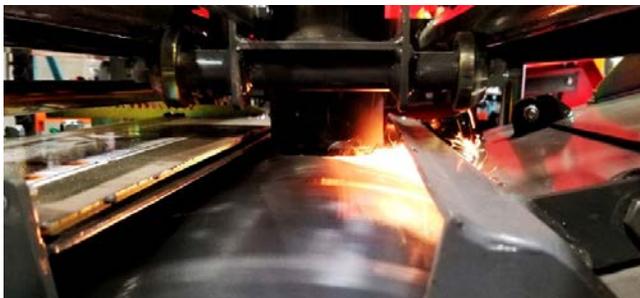
Range of Length of Cut – 24 knives (8x3) (mm)



Forage Harvesters – Features

Simplified Sharpening & Adjustment

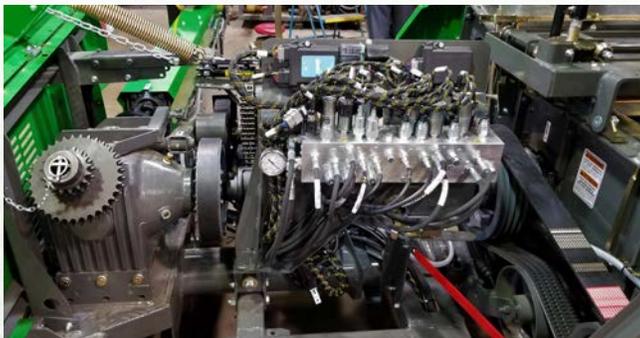
Nothing is more important for good harvester performance and silage quality than the sharpness of the knives and the shearbar adjustment. To make the task easier, the time to execute these adjustments has been reduced by 50% compared to the previous models and nothing on the market can compare in terms of simplicity. The forward sharpening process of the DION harvester provides a perfectly sharpened edge while leaving the sharpening heat at the rear of the knife.



The simplified sequence reduces the sharpening and bar adjustment to two simple steps. Start the PTO, sharpen, and adjust! No driveshaft to disconnect, no repetitive travels between the tractor seat and the harvester. With a rack & pinion system, the shearbar is loosened with one bolt, standing on the side of the harvester. Sliding on integrated ramps, it moves parallel to the cutterhead by a single adjustment bolt. This simple method encourages the operator to maintain proper adjustments and knife sharpness. The reduction in wear, fuel consumption and resulting excellent silage quality will add up to gains in profitability.

Electro-Hydraulic Functions

All harvester functions are regrouped in a distribution manifold with cartridge valves. This modular design is economical and easy to maintain. The hydraulic functions provide precision and power. For example, the F/R gearbox is shifted twice as fast as the previous generation with an electric actuator shifter. A single SCV is required for all functions with a low 3gpm continuous flow.



The control manifold operates the following functions:

- 3 spout functions (rotation, deflector, height)
- F/R transmission shifting
- Header height
- Tongue position
- Automatic trailer disconnect (optional)

Redesigned Control Box

Ergonomic, compact and light, the DION 2430 control box integrates all the functions and options of the harvester. A joystick optimally positioned provides precise control of the spout. With the electro-hydraulic controls, the position of the tongue and header height are accessible in the same location. The addition of an optional spout light and inoculant/liquid applicator do not require any supplementary control box or modification, all is pre-wired and ready to operate. Same goes for the installation of a camera and its monitor, they are literally plug and play. You can set the control box in the perfect position with the included adjustable mount from RAM®.



For even more flexibility, an auxiliary joystick duplicates the spout controls in any location in the tractor cab. Offered optionally, it connects directly to pre-wired control box.

The DION 2430 features high quality cabling with all sealed Deutsch connectors. The low amperage, required by the system, allows you to connect the box directly to the in-cab 12V power outlets.

Manufacturing Quality

The desire to provide a durable and modern product was part of the design process of this new generation of harvesters. The rated power of the driveline has been increased. Premium quality, banded belts, have been selected for highest durability and power transmission capacity.

You will notice the superior quality powder coat paint and extensive usage of plating on several parts. We can count on qualified welders and assemblers to offer a reliable product.



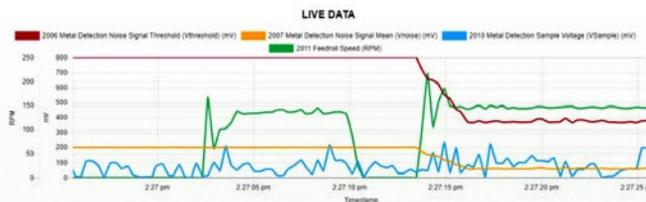
Forage Harvesters – Features

The FerroDtec Precision **FerroDtec**

The new FerroDtec metal detector from Dion combines precision and reliability. Programmed on powerful controllers, it offers an exceptional reaction time. The new algorithm allows for precise and reliable detections while reducing the risk of time consuming false detections. The detection threshold is automatically calibrated to the condition of the crop and the wear or damage of the detector feedroll. Three levels of sensitivity, selectable manually, allow you to adapt to any requirement.



With speed sensors installed on the cutterhead and the feedrolls, an anti-plugging function is standard. It ensures the feedrolls are stopped immediately in case of an overload of the cutterhead (cutterhead drive shearbolt breakage). The unit's detailed alarms allow you to quickly determine the causes of emergency stops and diagnose potential problems.



We believe the benefits of technology should not be a burden to reliability. In case of a sensor failure, the electronic functions can be deactivated to ensure you can complete your day of harvest in time without compromising the silage quality. Your dealer is equipped with a complete service and diagnostic software that allows the technician to analyse the performance of the electronic system. Through the Wi-Fi connection on a laptop computer, the live system data can be displayed, even from the cab while harvesting in the field! A faster and more precise diagnostic results in less repair costs. The harvester control software updates are done quickly and easily and allow you to benefit from eventual system improvements free of charge.*

* The software updates are free, reprogramming by a technician may include some fees.

The Unique Stinger Spout

With exceptional dimensions, the 2nd generation Stinger spout loads on any side, even the tallest trailers. The ejection/blower power of the DION 2430 allows side-loading to considerably reduce trailer switching time for even more productivity.



- Max height : 5.8m (19ft)
- Rotation : 330 deg

Mounted on a solid base, the DION 2430 is "Stinger ready" as a standard feature. A double deflector, also standard, ensures a precise filling in pull-behind trailers as well as for side loading. Even in short configuration, you benefit from an ultra-durable 1/4in thick Hardox® wear plate. Accessible directly from the top, it can be replaced in a few minutes.



Reach the next level with the Stinger extension option which can be "dealer or field installed" very quickly. No additional brace or support is required. Also, the transition between the short and long configuration is done in a few minutes: ideal for contractors. Optional for the standard spout configuration, a wireless camera and LED spout light are standard with the Stinger extension. They let you harvest on both sides with ease.

The redesigned dual accumulator suspension provides a smooth ride in Stinger configuration. For road transport, the spout is lowered at a height below 3m (10ft). The suspension absorbs the impacts or road imperfections no matter the speed. When set in transport position, the rotation is automatically locked for safe travel between fields.

Forage Harvesters – Features

Shear Processing with **TST**

A proven concept, exclusive to Dion, the optional processor rolls of the DION 2430 uses a shearing effect to process the particles and pulverise the kernels in corn silage. With a differential speed ratio of 67%, the highest on the market, the particles are torn lengthwise and the grain is processed with low crushing pressure. This reduces compression forces and improves KP bearing life all while reducing power requirements.



The lower 10" roll is paired with the smaller 6" top roll, both turning at close to 4000rpm. They are positioned directly in the crop flow trajectory to eliminate direction changes and lower energy consumption. Obtain the desired level of silage processing at any time by simply adjusting the clearance of the processor rolls, in a few seconds, with a single wrench.

The conversion time between corn silage configuration and haylage has been reduced by approximately 30% compared with the previous models. The top roll is completely removed by sliding it out towards the inside of the harvester where it can be stored onboard to reduce handling. No major parts need to be removed or displaced. It is done with a single wrench, with less effort and all adjustments are preserved for a quick reinstallation.

Practical and Ergonomic

Harvest in style with the new color scheme and completely redesign guards. A large main guard opens with ease to access the drive components. The access is direct to the length of cut chain binder for easy adjustment. The hydraulic module pivots to give access to the service points. "Butterfly" guards protect the core of the harvester and the sharpening system from debris accumulation.



The completely new tongue combines rigidity and accessibility. Cable and hose routing have been improved. Finally, remain visible at any moment with the LED transport lights.



Forage Harvesters – Options

Kernel processor

The Dion processor rolls with **τSt** “Total Shear Technology” offers the desired processing with quick and easy adjustment.



Liquid/inoculant applicator

A large reservoir (50gal) provides sufficient volume for several hours of operation. It can be used to apply preservative or simply water to lubricate the crop channel in tough sticky conditions. The applicator is located directly over the blower to ensure a perfect mixing. A secondary reservoir option for a total of 100gal is also available.



Light

A 600 lumen, LED spout light, illuminates the trailer for night work.



Stinger spout

Performance of a self-propelled with a Dion pull-type harvester are possible with the side loading offered by the Stinger spout extension. The powerful throwing capacity and long reach permit side loading on the left or the right, or directly behind the harvester to open fields. The option can be ordered



at purchase or for an update later on. The conversion between short and long configuration is done in a few minutes with hand tools to adapt to any harvesting setup. The extension kit includes a night/day wireless digital camera with a 7” color monitor and a LED light.

Camera

The DION 2430 is pre-wired for up to 2, wide angle, wireless cameras capable of night vision. The first one can be installed on the spout to keep track of filling while looking ahead. A second one can be installed at several locations behind or to the side of the machine. It can be used as a back-up camera for easy hooking of forage wagons.



The 7” monitor antenna has a minimum reach of 75ft, can be paired and display up to 4 cameras. Mounting holes are provided on the harvester control box or it can even be installed in a different tractor if needed.

Tires and axles

Five (5) options of wheels are available. Standard equipment includes tandem axles. They ensure a good flotation and a smooth ride. In muddy conditions they keep the harvester in its track, especially with pull-behind trailers. Designed with a narrow profile, they offer 3 height adjustments. The polymer bushing is trouble and maintenance free.



TerraRib® tires are standard. For unbeatable durability, choose the hyper wear resistant TerraTrac® tires that are also soft on prairies.



In option: Single axles are available with 3 choices of tire : TerraRib®, TerraTrac® or DynaRib®. However, tandem axles are mandatory for some harvester configurations

Hydraulic Trailer Disconnect

Available in disconnect configuration only, or with “attach-matic” quick hitch compatibility. Disconnecting is done with a quick and strong small hydraulic piston. The safety flip, activation switch is integrated in the control box.



Forage Harvester – Specifications

Model	2430
Knives	Dura-Drum™ 24 knives (8x3) Heat treated steel - tungsten carbide edge
Diameter of cutterhead	560mm (22")
Throat opening LxI	610 x 152mm (24" x 6")
Cutterhead speed (Transmission)	1033 rpm (1000:1000) 815 rpm (1000:800) 729 rpm (540:800)
Shearbar	Heat treated, reversible, 1 side quick adjustment
Feedroll drive	Mechanical F/R Gearbox
Length of cut	24 knives LOC « L » 9-14-18 mm LOC « H » 12-18-24 mm
Header drive (F/R)	Mechanical / Mechanical
Control box	Electrical box
Hydraulic system	1 SCV P / T – continuous flow
Recommended tractor power	120-300 hp
Knife sharpener	Integrated, 3", manual, forward direction
Spout	3 hydraulic functions « Stinger ready »
Stinger spout extension	Optional Modular, integrated suspension
Processor rolls	Optional
Roll width	610mm (24")
Roll diameter	152mm & 254mm (6" & 10")
Rotation speed (1000:1000)	3937 rpm
Tandem axle	Terra Rib 31x13.50-15 (Standard) Terra Trac 31.15.30-15 (Option)
Single axle	Terra Rib 31x13.50-15 (Option) Terra Trac 31.15.30-15 (Option) Dyna Rib 16.5L16.1 (Option)
Approx. weight (tandem axle, std spout)	2860kg (6300lb)
Length	6.22m (20'-4")
Max height (Standard/Stinger)	3.44m (11-8") / 5.83m (19'-1")
Transport height (spout lowered)	2.79m (9'-2")
Width (tandem axle, Terra Rib tires)	3.30m (142")
Inoculant applicator	Optional
Wireless camera	Optional (possibility of 2)
Spout light	Optional
Hydraulic trailer disconnect	Optional

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Rotary Corn Heads



Simple, versatile
& productive

Using a proven concept, Dion rotary corn headers are the reference for corn silage harvesting. Harvest without worrying about row width or following the rows.

Their unique design combines the versatility and efficiency of rotary drums with the consistency and uniform flow of gathering chains. The exceptional uniformity of feeding allows for higher harvester throughputs with the same tractor power.

The drive mechanism is surprisingly simple, with very few parts and low maintenance requirements. Through a single main shaft, protected from overload by a friction clutch, the oil bath gearboxes transfer the power efficiently and give you peace of mind during the harvest.

Designed under a rigorous development program, the patented concept combines the performance of rotary heads, with the economy of conventional headers.



F64

With a width equivalent to 3 rows (30"), the F64 rotary head adapts to all conditions and harvester configurations.

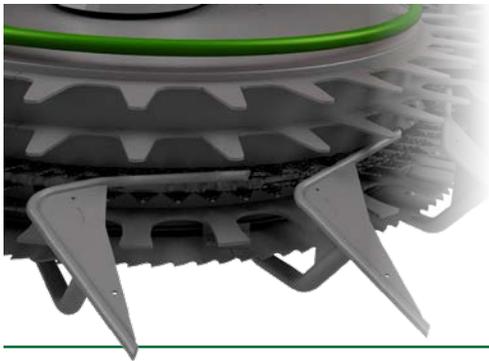


F61

The only 4-row (120") corn head for pull-type forage harvesters on the market, the F61 header is in a class of its own.

Rotary Corn Head	F64	F61
Effective width	87" / 2.21m (3 rows of 30")	114" / 2.90m (4 rows of 30")
Drums	2 drums w/ 3 rows of fingers	
Knives	Independent blade sections, opposite rotation	
Conveying chains	ANSI #80, O-ring with UHMW wear pad	
Crop dividers	3 per drum, replaceable individually, adjustable	
Cob saver guides	Standard	
Drum drive	By conveying chain	
Cutting disk drive	5VX belts with overrunning clutch	
Transmission drive	Comer gearbox, machined bevel gears, aluminum casing, oil bath	
Overload protection	Friction clutch	
Recommended tractor power	100 - 250hp (typical)	150 - 350hp (varies depending on harvester capacity)
Total width	90" / 2.29m	117" / 2.98m
Total length	83" / 2.11m	100" / 2.54m
Weight	1550lbs / 705kg	2500lbs / 1130kg

Rotary Corn Header – Features

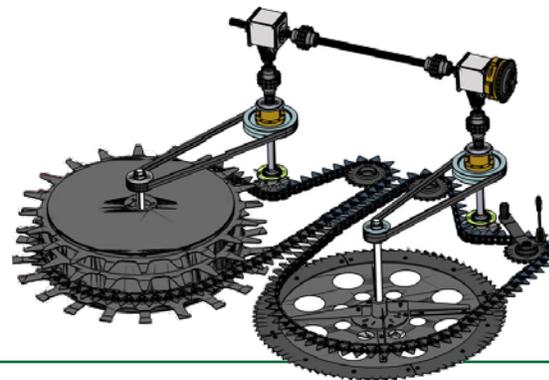


Perfect Cut

The rotary blades are driven by v-belts and turn the opposite direction of the drums. This design eliminates vibrations. The six blade sections, per disk, are made of hardened spring steel with tungsten carbide tips offering a self-sharpening effect, making them exceptionally durable. Replacing a section is done in just a few minutes at an affordable cost. Through the impact cut, the stalks are also shattered to facilitate their decomposition and reduce tire damage.

Higher Silage Quality

By maintaining the crop in the gathering chains, with continuous flow to the harvester feedrolls, without using a transverse auger, the stalks are fed base first and aligned perpendicular to the feedrolls. This provides a uniform length of cut without unwanted long particles that affect storage compaction and silage fermentation quality.



Low maintenance

With the use of a top shaft drive through sealed cast iron gearboxes running at low speed, the maintenance is minimized. Four (4) grease points and chain lubrication are the only daily maintenance required. Only 2 chains drive the gathering drums which also serve as gathering chains to transport the stalks continuously up to the harvester feedrolls. The Dion exclusive O-ring chain design is resistant to dust and silage juice. Overloads and starting loads are absorbed by a friction clutch to operate smoothly and eliminate the need for shearbolts.

Boost your harvester performance!

A uniform flow, full width harvest unaffected by row alignment, increases your harvester performance. It provides more throughput per hp, less driver fatigue and more acres per day, all increasing productivity and profitability. With a (3m) 10ft width, a clean new track for the tractor is cleared at every field pass; useful for wet conditions and less damaging to the soil.

Rotary Corn Header – Options

The header features a universal frame.

Adapter kits are available to hook up the header on most pull-type harvester on the market. For tighter budgets, get the most return on your investment with the rotary corn head on your current harvester today. At the purchase of your next Dion harvester, only the drive kit will be necessary to replace. No matter the situation, you obtain the best resale value with the modular adaptors.

Rotary Lift Kit

For difficult down corn conditions, a rotary stalk lifter is available. It can rotate in both directions, with variable speed, while being driven directly from the tractor SCV.

Adapters available at John Deere dealers

F64 Compatible Harvesters

- Dion 2430
- John Deere® 3950/55/70/75

F61 Compatible Harvesters

- Dion 2430

Windrow Pick-Up

Dion's windrow attachments supply all the required capacity to match the 2430 forage harvesters.



F46 The 2.15m (7') Model.

Compact version, an efficient and complete harvest achieved with a 5 finger bar reel for an unmatched pick-up quality.

Windrow pick-up	F71 (9ft)	F46 (7ft)
Width « tine-to-tine »	99" (2.5m)	75" (1.9m)
Effective width	108" (2.7m)	84" (2.1m)
Total width	126" (3.2m)	104" (2.6m)
Number of tines	170	130
Reel drive	Dry gears / ANSI #60 chain	Dry gears / ANSI #50 chain
Reel drive protection	Overrunning clutch	
Auger diameter	22" (56cm)	20" (51cm)
Auger drive	ANSI #60 chain	ANSI #50 chain
Auger overload protection	Cam clutch	
Wind guard	Standard - adjustable	
Auger guard	Standard	
Approx. weight	1280lb (580kg)	836lb (380kg)



F71 The 2,75m (9') Model.

An efficient and complete harvest is achieved thanks to a 5 finger bar reel and consistent high capacity feed auger.

Overload Protection

A maintenance free, radial pin clutch, instantaneously protects from overloads then re-engages automatically. No safety shear bolt replacement required.



5 Pick-Up Bars

Even through the harshest conditions or at high harvesting speed, the standard 5 bar pick-up, provides a consistent and complete windrow collection without damaging the crop.



Efficient Conveyor Auger

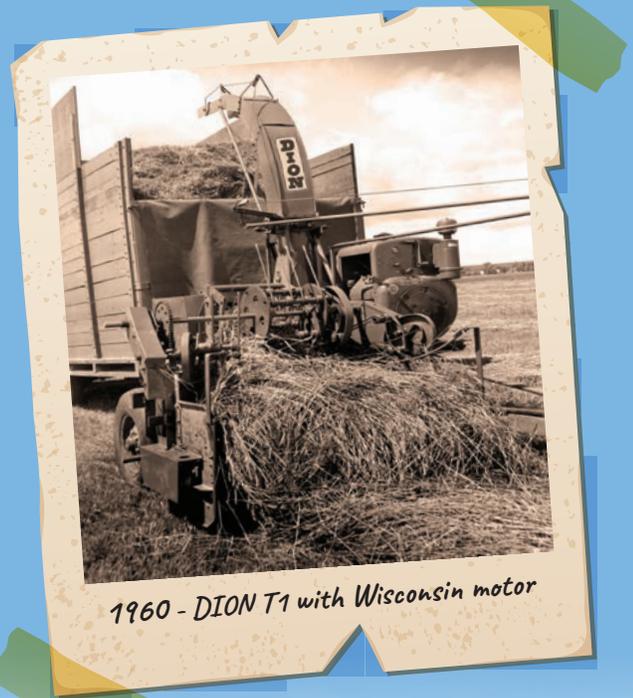
The 56 cm (22") diameter conveyor auger (F71) channels either small or medium sized windrows consistently. Adjustable paddles ensure a constant feed to the harvester through any conditions.

Adjustable Wheels

Harvest as close as required with multiple wheels height adjustments.

Located in Boisbriand, Qc Canada, at the same site since its founding, Dion products are distributed in several countries.

From the first threshing machine in 1920 to the latest high capacity forage harvester, Dion maintains the goal of continuously developing and improving its products to make harvesting easier and more productive for farmers.



1960 - DION T1 with Wisconsin motor



100 years Strong!

Learn more at dion-ag.com
or see your local John Deere dealer for a demo.



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