DION -Ag Inc.

The Forage Equipment Specialist

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Forage Harvesters –The next generation!

A common base, 2 models with distinct DNA.

Innovative, efficiency & performance, the new Dion harvester series stands out.

- New look, new colors
- New design with over 60% new parts
- New electrohydraulic controls
- New metal detector
- New 50% faster sharpening procedure
- New 30% faster Kernal Processor conversion procedure (corn/hay)
- New heavy-duty spout

And much more…

SCORPION 300

Built on proven elements,
with a large dose of new features.

Electro-hydraulic controls and heavy duty components for best reliability.

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SCORPION 350 ISOBUS

High technology, simple & affordable.

The Dion engineers have integrated into the Scorpion 350, technology only previously found on some self-propelled harvesters, without compromising the profitability.

The harvester exploits all the power and technology available on today's tractors like ISOBUS controls and load-sensing hydraulics. In addition to exploiting your existing tractor that is used year-round, the acquisition and operating cost are kept low.

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.

Forage Harvesters – Specifications

Model	Scorpion 300	Scorpion 350
Knives	Helicoidal 8 or 12 knives Heat treated steel - tungsten carbide edge	Helicoidal 8 or 12 knives Heat treated steel - tungsten carbide edge
Diameter of cutterhead	560mm (22")	
Throat opening Lxl	610 x 152mm (24" x 6")	
Cutterhead speed (Transmission)	1033 rpm (1000:1000) 815 rpm (1000:800) 729 rpm (540:800)	1033 rpm (1000:1000)
Shearbar	Heat treated, reversible, 1 side quick adjustment	
Feedroll drive	Mechanical F/R Gearbox	Hydraulic Motor
Lenght of cut	**8 knives** LOC « L » 9-14-18 mm LOC « H » 12-18-24 mm **12 knives** LOC « L » 6-9-12 mm LOC « H » 8-12-16 mm	**8 knives :** 6 to 36 mm* **12 knives :** 4 to 25 mm*
Header drive (F/R)	Mechanical / Mechanical	Hydro-mechanical / Hydraulic
Control Box	Electrical box	Isobus UT/VT – Aux-N Joystick
Hydraulic system	1 SCV P / T – continuous flow	« Power Beyond » P / T / LS / D
Recommended Tractor Power	120-300 hp	175-350 hp
Knife Sharpener	Integrated, 3", manual, forward direction	
Spout	3 hydraulic functions « Stinger ready »	3 hydraulic functions « Stinger ready » Semi-automatic transport mode
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 (Optional)	
Single Axle	Terra Rib 31x13.50-15 (Optional) Terra Trac 31.15.30-15 (Optional) Dyna Rib 16.5L16.1 (Optional)	-
Approx. Weight. (tandem axle, std spout)	2860kg (6300lb)	
Lenght	6.22m (20'-4")	
Max Height Std/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	Optional: Manual mode & Automatic
Wireless Camera	Optional (possibility of 2)	
Spout light	Optional	
Work light	-	Optional
Hydraulic Trailer Disconnect	Optional	

* Variable depending on tractor hydraulic flow available.

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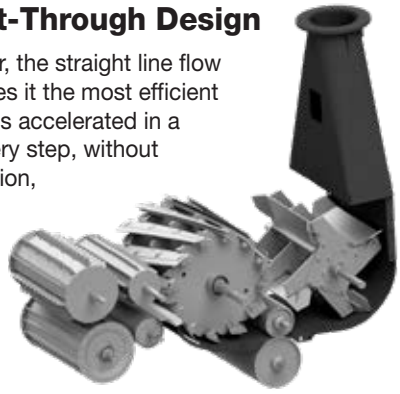
Forage Harvesters – Features

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 an abrupt change in direction, without energy loss. The same efficiency as a self-propelled harvester at a fraction of the cost.

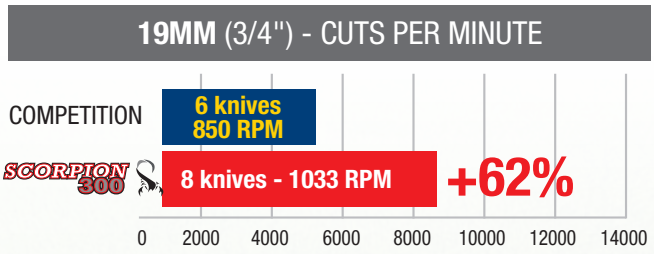
Unmatched Capacity

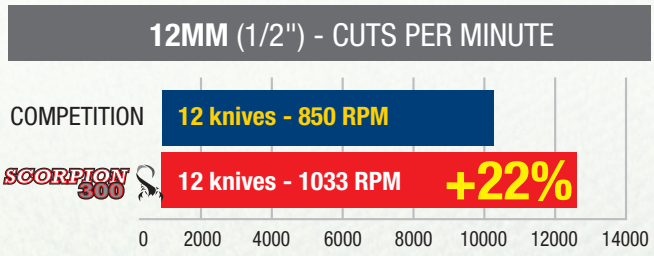
The secret behind the capacity of the Dion harvester resides in the rotation speed of the cutterhead. At 1033 rpm, it is 22% more cuts per minutes than the competition (and up to 62% more for certain lengths of cut*).

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 2 most common lengths of cut. Includes the maximum number of knives possible for the LOC and rotation speed of the cutterhead.

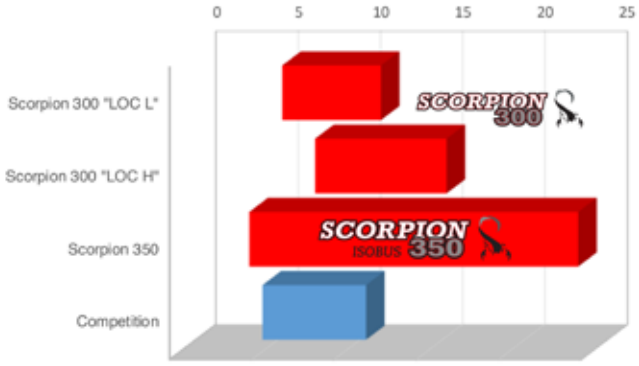




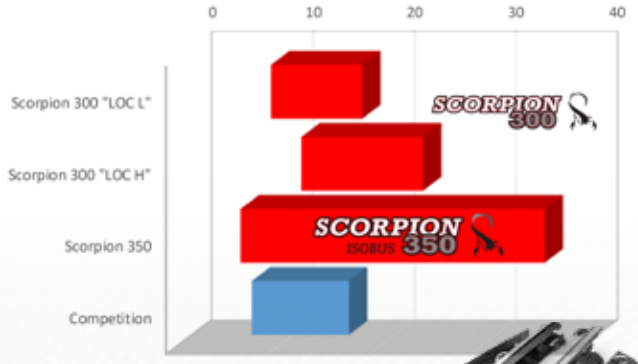
Renowned Quality of Cut

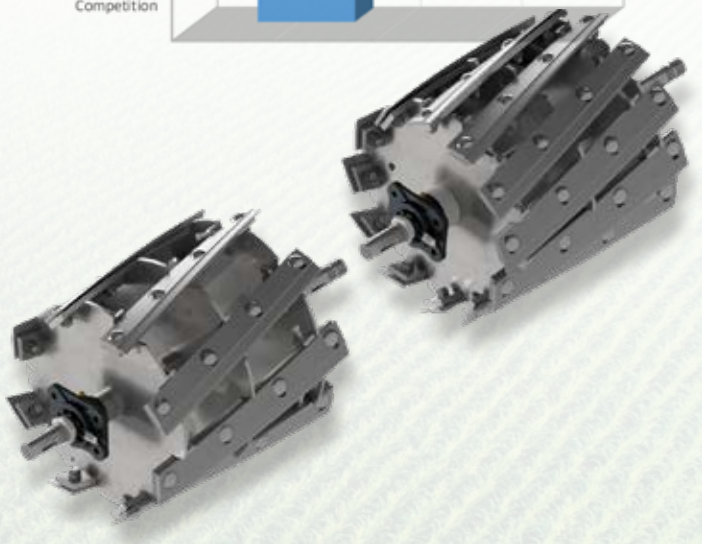
Available with a Dion cutterhead of 8 or 12 knives depending on your requirement. The helicoidal knives, with tapered profile, cut precisely with low power requirement. The simplified change in length of cut procedure is carried out in a few minutes, without a drive chain to remove. With two choices of LOC range, maximise the capacity of your harvester no matter the conditions. Three LOC sprockets are available from the factory. Cut up to 24mm (0.94in) in length with 8 knives (vs 6 knives for the competition), a configuration unique to Dion.

Range of Length of Cut – 12 knives (mm)



Range of Length of Cut – 8 knives (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 tasks has been reduce by 50% compared to the previous models and nothing on the market can compare in terms of simplicity. The forward sharpening on Dion harvesters provides a sharp edge without leaving a burr.

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 (option)

Redesigned Control Box

Ergonomic, compact and light, the Scorpion 300 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 prewired 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®.

Optional

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 Scorpion 300 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 master assemblers to offer a reliable product.

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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 Scorpion allow 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 Scorpion 300 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 travels between fields.

Forage Harvesters – Features

Shear Processing with τSτ

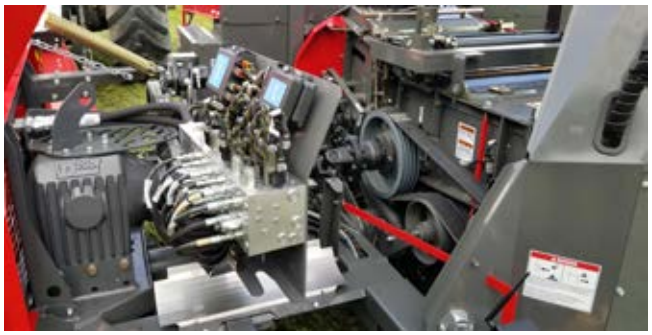
A proven concept, exclusive to Dion, the optional processor rolls of the Scorpion 300 uses a shearing effect to process the particles and pulverise the kernels in corn silage. With a differential speed ratio of 67%, the highest on the market, the particles are torn lengthwise and the grain is processed 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 reduce 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.

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Forage Harvesters
Exclusive Features for SCORPION 350 ISOBUS

High Efficiency Electro-Hydraulics

The Scorpion 350 takes its hydraulic power from the Power Beyond ports of the tractor. The load-sensing system ensures maximum efficiency and does not require any cooler.

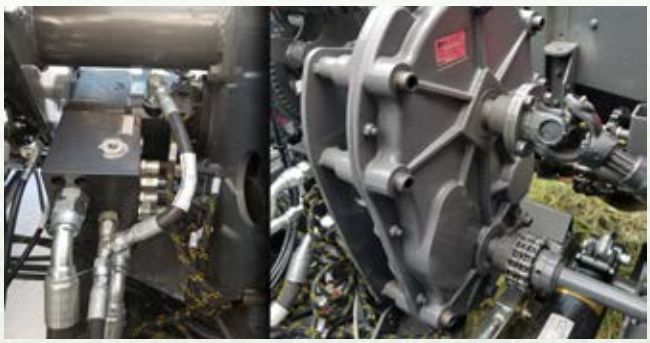
Large diameter hoses reduce the energy losses. All the functions of the harvester are grouped together in a hydraulic manifold with cartridge valves. The modular design is economical and easy to maintain.

The hydraulic functions provide precision and power. The connection is easy thanks to color and symbol coded anodized aluminum handles. Only 4 lines are required for all functions..

Hydraulic Feedroll Drive

A heavy-duty, 46cc piston motor, coupled with a robust transfer box provide high output torque to feed the impressive harvester capacity. The simple setup largely reduces the number of parts.

The use of a hydraulic motor brings the benefits of smooth starts, independent of the PTO speed. The slow reverse speed ensures precise control of the feedrolls when reversing after a metal detection for example.



Easy to use ISOBUS Controls

Operating a forage harvester has never been so user-friendly. The Scorpion 350 connects to the ISOBUS implement connector of the tractor to load the graphical interface in the tractor display. For non-ISOBUS tractors, a retrofit kit is available including a connection harness and monitor. The graphical interface provides a complete visualisation of the harvester state, adjusts the length of cut & operation functions.

For an optimal and ergonomic operation, an Aux-N ISOBUS joystick is recommended (available as an option). Some tractors allow the assignation of ISOBUS functions directly on the armrest joystick or button, making it even easier.

Advanced and Useful Functions

Belt Slippage Monitoring
PTo avoid failure or overload, speed sensors are installed to detect slippage of the different driving belts. An audible and visual alarm will show any critical slippage and the harvester feedrolls and header will automatically stop if it persists or worsens.

Overload Protection
With the electronic feedroll speed management, an anti-clogging feature is integrated. In case of a decrease of the PTO speed under a critical threshold, by mistake or due to overload, the feedroll speed will decrease sharply or stop completely to avoid stalling the tractor. You can then maximise the forward speed of the tractor without risks of clogging the cutterhead.

Live Load Display
Pressure sensors on the feedroll hydraulic motor allow a direct monitoring of the feedroll load. The color coded dynamic graphical display lets you quickly visualize the data to get maximum performance from the harvester.

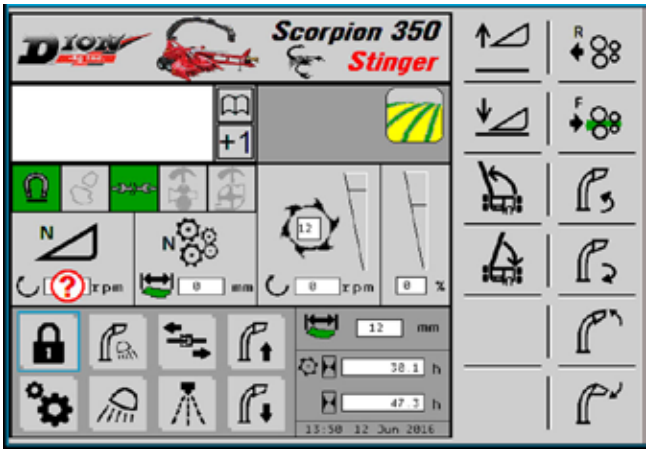
Hour Counter
Allow the monitoring of controller and cutterhead hours.

Adjustable Spout Rotation Speed
To get the optimum speed for the situation, the spout rotation can be adjusted to any of the 10 pre-set levels at any moment from the monitor.

Forage Harvesters
Exclusive Features for

SCORPION 350 ISOBUS

The Scorpion 350 standard equipment includes a feedroll opening sensor.



Stone Detector
The change in height of the front the feedroll versus its rotation is constantly measured. In case of foreign debris, stone or a heavy clump is ingested, an emergency stop is triggered to avoid damage to the cutterhead. The sensitivity of the system is adjustable from the terminal.

Automatic Inoculant Mode
The liquid application system can be set to turn ON and OFF automatically according to the feedroll opening. A manual mode is also available

Yield Estimator
A yield calculator based on forage volume will be available at the end of 2019 through a software update.

Mechanical Header Drive

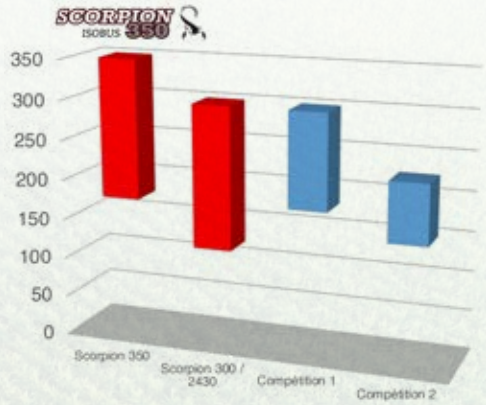
The header is driven by a quick coupled driveshaft. Without chain to install, the change of headers is done in a few minutes. The engagement of the header is done through a hydraulically control belt binder with automatic tension control. The reverse operation is powered by a separate hydraulic motor for a smooth engagement and high available torque. The feedrolls and header can be reversed without the PTO engaged.

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. Diverting some of the tractor power through the hydraulics to power the feedrolls, the Scorpion 350 can handle the most powerful row crop tractors on the market, up to 350hp rated PTO power. The incomparable capacity of the harvester allow throughputs exceeding 130 ton/h. The spiral bevel gears can transfer the power effectively with improved cooling and synthetic oil lubrication. The Scorpion 350 is rated for a minimum of 175hp PTO and available implement flow of 39gpm.*

* Recommendations for smaller tractors are under evaluation.

Rated horsepower range (hp)



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Forage Harvesters – Options

Kernel processor

The Dion processor rolls with **τSτ** "Total Shear Technology" offer 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. The Scorpion 350 is pre-wired for a second work light that can be installed at several locations and operated from the ISOBUS terminal.

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 7in color monitor and a LED light.

Camera

The Scorpion 350 is prewired 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 filing 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 7in monitor antenna has a minimum reach of 75ft and 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

Scorpion 300 : Five (5) options of wheels are available. Standard equipment includes tandem axles.

Scorpion 350 : Two (2) 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.

Optional for Scorpion 300 :

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 secured actuation switch is integrated in the control box.

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 (30in), the F64 rotary head adapts to all conditions and harvester configurations.

F61

The only 4-row (10ft) 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	87in/2.21m (3 row of 30in)	114in/2.90m (4 rows of 30in)
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 indvidually, 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	90in / 2.29m	2.98 / 117po
Total length	83in / 2.11m	100in / 2.54m
Weight	1550lbs / 705kg	2500lbs / 1130kg

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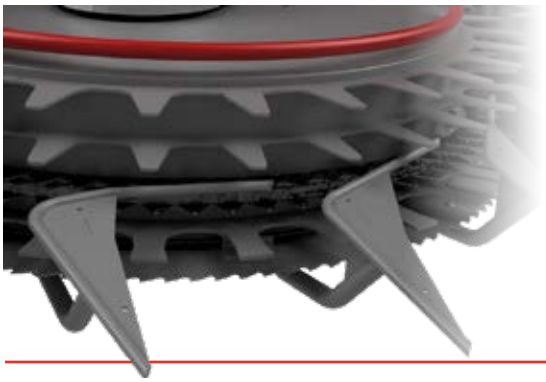
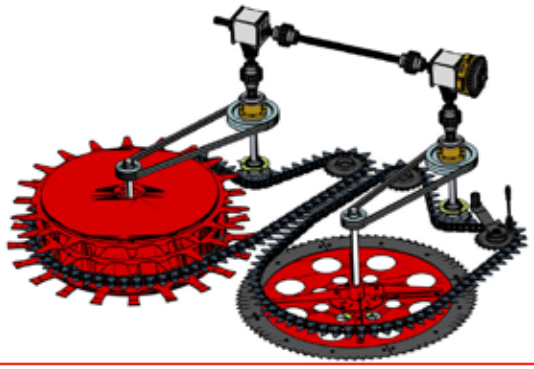
Rotary Corn Header – Features





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 or harden spring steel with tungsten carbide tips offering 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 to certain 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.

Compatible Harvesters F64

- Dion Scorpion 300/350, 2430
- Dion F41, 1224
- John Deere® 3950/55/70/75
- NewHolland® 900, FP230/240
- Gehl 1065/75/85 1265/75/85
- NewIdea® 1500 – Hesston® 7500

Compatible Harvesters F61

- Dion Scorpion 300/350, 2430
- Dion F41, 1224
- NewHolland® FP230/240
- Gehl 1065/75/85 1265/75/85
- NewIdea® 1500 – Hesston® 7500

Windrow Pick-Up

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

Windrow pick-up	F71 (9ft)	F46 (7ft)
Width « tine-to-tine »	99in (2.5m)	75in (1.9m)
Effective width	108in (2.7m)	84in (2.1m)
Total width	126in (3.2m)	104in (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	22in (56cm)	20in (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)

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.

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.

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Windrow Pick-Up – Features

Full Width Harvest

With a 2.75 m (108 in) effective width, any size windrows are efficiently harvested. Merge multi windrows for an even more efficient harvest and take full advantage of your Dion forage harvester's capacity.

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 finger bars provide a consistent and complete hay pick-up.

Efficient Conveyor Auger

The 51 cm (20 in) diameter conveyor auger 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.

Windrow Pick-Up – Options

Drive Shaft

A Power Take Off (PTO) quick coupling system is available for the Scorpion 350. Without any chain installation required, the attachment change is fast and effortless.

B58 Silage Boxes

Reliable & versatile, they have proven their worth and left their mark.

Dion silage boxes need no introduction. Recognized and proven, they remain the farmer's favorites for any farm size.

Noted for their uniquely design beaters, they benefit from a Continuously Variable Transmission (CVT) that allows for that precise unloading speed adjustment.

Across the range of available sizes, they have the advantage of being able to adapt to any loading and unloading conditions, thanks to an easy-to-use hydro-mechanical design and a remarkable efficiency. Versatile and configurable with a multitude of options, allowing them to meet the various needs of silage transportation.

Unload		Front			Front and Rear (Combo)			Rear		
Models		**XLT**	**XLS**	**XLN**	**XLT**	**XLS**	**XLN**	**XLT**	**XLS**	**XLN**
Nominal Length (ft)		19	22	25	19	22	25	19	22	25
Volume (ft3) ASAE S238.1	Without Roof		1000	1147	874	1014	1161	843	983	1117
	With Roof		1215	1393	1064	1230	1408	1023	1200	1364
"Internal Dimensions (in)"	Width	88								
	Height with Roof	96								
Overall Dimensions (in)	Length		302	338	281	317	353	222	258	317
	Width	107						101		
	Height	119								
Unloading Speed (ft/min)	Front	2 to 11						-		
	Rear	-			17 @16 gpm					
Weight (lbs)		4950	5400	5850	5450	5900	6350	3950	4400	5900
Main Conveyor Chains		667X								
Combined Resistance (lbs)		60 000								
Power Take Off (P.T.O.)		PTO 540			PTO 540 or Hydraulic			Hydraulic		
Lateral Conveyor		CA550 Roller chains – Welded slats Left or right unload - 22" Wide						-		
Beaters (3)		18" Diameter – 330 total fingers						-		
Beater Drivetrain		Straight gear with oil bath						-		
Main Conveyor "CVT" Drivetrain		Variable pulley. Bronze gears. Sprockets						Hydraulic motor. Sprockets.		
Main Conveyor Shaft		1,75" Stress Proof								
Box Sides		20 ga Galvalume®								
Floor		Plywood covered with 1/4" polyethylene								
Rear Door		Maintenance access			Automatic locking					
Main Frame		Bolted "U" shaped steel structure								
Brace Kit		Optional			Standard					
Emergency Stop		Standard						-		
Frame Tie Down Chains		Standard								
Lateral Conveyer Clean out Door		Standard						-		
Road Lights		Standard								
Hoses + Fittings		-			Standard					

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B58 Silage Boxes – Features

Rigid and Durable Construction

The frame is made of heavy duty steel coupled with transverse reinforcement rods ensuring long-term durability. All Dion products are protected by a high quality powder coating and a sandblast preparation that ensures excellent adhesion. The side sheets, made of Galvalume®, offers a high corrosion resistance.

Polymer Floor

The low-friction polymer that covers the floor ensures clean unloading and long life.

Robust Conveyor Chain

The main conveyor features 4 heavy duty 667X or 667H chains, depending on the model, that offers a combined resistance of 60,000 or 40,000lb respectively. The welded slats prevent long term damage.

Easy Maintenance

The lubrication points are grouped and at a reachable height. Verification of oil levels and chain lubrication are quick and easy thanks to direct access.

FRONT UNLOAD MODELS

Uniquely Design Beaters

The elliptical beaters sweep the load continuously which allows for very uniform & fast unloading without an overloading danger. The roller chain side conveyor quickly transports the silage to the blower for a large capacity.

"CVT" Driven

The silage box drive is engaged by a resistant triple belt which smoothly starts the side conveyor. The main conveyor is driven by a set of variable pulleys that allows the forward speed to be adjusted from 2 to 11ft/min. A hydraulic drive option is available (See options section).

REAR UNLOAD MODELS

B58 boxes are also available in dedicated rear unload versions.

Driven by a hydraulic motor, unloading is fast. At speeds up to 17ft/min, it takes 1m30s to unload even the largest models. The rear door unlocks automatically when the conveyor engages and locks passively when stopped. A door delay closing system is optional.

COMBO

The front and rear unload silage box is ideal for all farms and custom contractors. With either tower or pit silos, the B58 Combo integrates front and rear unloading capabilities. The conversion between unloading sides is done in less than 2 min.

B58 Silage Boxes – Options

Front Unload Hydraulic Control

The front unload mechanism can be hydraulically driven as an option. The conversion can be done at any time.

Beaters and main conveyor engagement through hydraulics is also available, allowing full operation from the tractor/ truck cab. If you opt for a side conveyor extension, a hydraulic cylinder opening system is optional.

Kit for Top Loading

Standard on some models, the reinforcement kits consist in adding extra posts on each side and a top brace.

Side extension

Installed on one or both sides, they increase the box capacity for models without roof. Expanded steel offers good visibility when loading.

18” (45cm) Foldable Conveyor Extension

To facilitate unloading at the blower, the extension provides additional clearance. A retaining spring facilitates folding. Hydraulic folding is optional.

Kit for Top Loading

Standard on some models, the reinforcement kits consist in adding extra posts on each side and a top brace.

Roof

Dion’s corrugated steel roofs offer the greatest rigidity and simplicity. Made out of 20ga Galvalume® sheets, they reinforce the frame and resist the corrosion caused by silage.

Forage Blowers

Avoid making silo filling the bottleneck of your harvesting chain with a Dion blower.

S55 and S55HO blowers are designed with unmatched capacity adapted to a large range of tractor power.

The oversize intake and auger feed a rotor capable of filling silos as high as 150ft.

Forage Blower		S55	S55HO
PTO rpm		540 rpm	1000 rpm
Rotor	Speed	540 rpm	650 rpm
	# paddles	8	
	Diameter	59in (1.50 m)	
	Width	9in (23cm) – Pipe diameter	
	Ejection speed	97mph (155 km/h)	118 mph (188 km/h)
Standard Auger	Diameter	14in (35.5cm)	
	Flight	10 in (25.4cm)	
Optional Auger	Diameter	16in (40.6cm)	
	Flight	16in (40.6cm)	
Intake	Height	21in (53cm)	
	Width	42in (107cm)	
	Depth	30in (76cm)	
PTO Overruning clutch		Standard	
Overload protection		Shearbolt	
Hydraulic axle lift		Standard	
Wheels		18.5 X 8.5-8 on conical bearings	
Weight		1500lbs (680kg)	
Recommended power		**S55 (540 rpm)**	**S55HO (1000 rpm)**
14in auger		60-160 hp	130-200 hp
16in auger		175-200 hp	175-200 hp

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Forage Blowers

S55

Filling without restrictions.
From the intake to the rotor, the S55 blower moves silage with efficiency and capacity.

S55HO

The highest capacity on the market
The reducer gearbox on the S55HO lowers the input speed from 1000 rpm at the PTO to 654rpm at the rotor. With an ejection/blower speed of 118mph (189 km/h) and an 8 paddle rotor, it is the blower displacing the largest volume per hour on the market.

Features

Overrunning clutch on PTO

Paired with high torque rating PTO shaft, the clutch protects the blower drive components and the tractor from variations in the load.

8 paddles

The 60in rotor contains 8 paddles providing a smooth operation and large flow. Made of heat-treated steel, they resist abrasion.

Robust drive

The feeding auger is driven by 2 pair of 5VX belts (cogged belts) capable of transmitting all the required power. The large 2in diameter auger shaft is supported by premium quality cast iron flange bearings.

Hydraulic wheel adjustment

Independent cylinders lift both wheels without effort. Travels and installation at the silo are faster. The conical wheel bearings are durable.

Largest intake table on the market

The rotor capacity means nothing if it's not fed properly. Dion forage blowers offer an oversized intake table capable or accepting high throughputs without bridging or clogging. The 14in or 16in (optional) diameter augers easily surpass the 12in version of the competition.

Ergonomic and safe

- The auger engagement system is simple and a safe.
- Hinged guards provide easy access for maintenance and adjustments
- PTO shearbolts are stored on the driveshaft guard for handy access

Water intake

Two water intakes are standard equipment on the S55HO blowers. They provide lubrication to the rotor band to prevent debris adhesion, accumulation and also reduce power requirement and wear.

THE S55HO PROVIDES THE FOLLOWING BENEFITS OVER THE COMPETITION:

- High inertia, stable operation, less vibrations
- Uniform feeding with the high capacity auger
- More paddles, therefore longer paddle replacement intervals
- High paddle/min frequency resulting in a smooth operation and high air flow
- Competitive price

Options

14" diameter x 10" pitch auger

Provides high uniform flow

16" diameter x 16" pitch auger

For ultra-fast unloading
(Requires a minimum 175hp PTO tractor)

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 Isobus Scorpion 350 high capacity forage harvester, Dion maintains the goal of continuously developing and improving its products to make harvesting easier and more productive for farmers.

100 YEARS
1920 – 2020

100 years Strong!

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

DION -Ag Inc.

Address	429, Côte Sud, Boisbriand, QC Canada J7E 4H5
Phone	450 437-3449
Email	dion-ag@dion-ag.com
Website	**dion-ag.com**