kverneland group

GALLIGNANI
DAL 1922

GA416 S-LINE - GV418 S-LINE - GV516 PRO-LINE - GV520 PRO-LINE

VARIABLE CHAMBER BALERS

GB

High Performance – Multi Crop Capacity

A new generation of variable chamber balers from Gallignani, incorporates knowledge built up over many years in the baler business, bringing you an assurance of reliable operation even in the toughest working conditions. With true multi crop performance in silage, hay and straw, they incorporate a host of features to make your working day more profitable.

QR-code
Visit our web site
http://kvg.gallignani.com

The New Generation of Gallignani Variable Chamber Balers

GV416F S-Line
Bale Diameter: 1.2 x 0.8 – 1.65m
Intake System: Fork Feeder
Binding: Twine, Net, Double

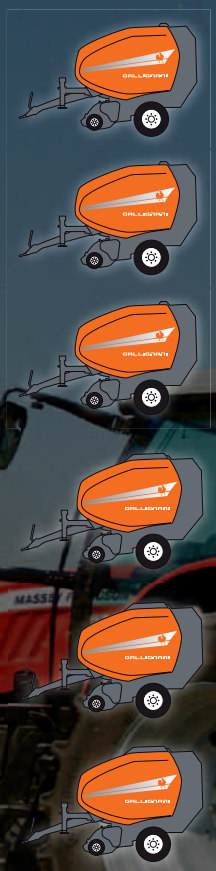
GV416FD S-Line
Bale Diameter: 1.2 x 0.8 – 1.65m
Intake System: Double Fork Feeder
Binding: Twine, Net, Double

GV416R S-Line
Bale Diameter: 1.2 x 0.8 – 1.65m
Intake System: Feed Rotor
Binding: Twine, Net, Double

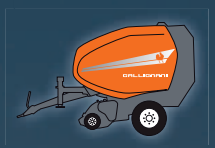
GV418F S-Line
Bale Diameter: 1.2 x 0.8 – 1.80
Intake System: Fork Feeder
Binding: Twine, Net, Double

GV418FD S-Line
Bale Diameter: 1.2 x 0.8 – 1.80
Intake System: Double Fork Feeder
Binding: Twine, Net, Double

GV418R S-Line
Bale Diameter: 1.2 x 0.8 – 1.80
Intake System: Feed Rotor
Binding: Twine, Net, Double



GV516R Pro-Line
Bale Diameter: 1.2 x 0.6 – 1.65m
Intake System: Feed Rotor
Binding: Twine, Net, Double



GV516SC-14 Pro-Line
Bale Diameter: 1.2 x 0.6 – 1.65m
Intake System: SuperCut-14
Binding: Net, Double

GV516SC-25 Pro-Line
Bale Diameter: 1.2 x 0.6 – 1.65m
Intake System: SuperCut-25
Binding: Net

GV520R Pro-Line
Bale Diameter: 1.2 x 0.6 – 2.00m
Intake System: Feed Rotor
Binding: Twine, Net, Double

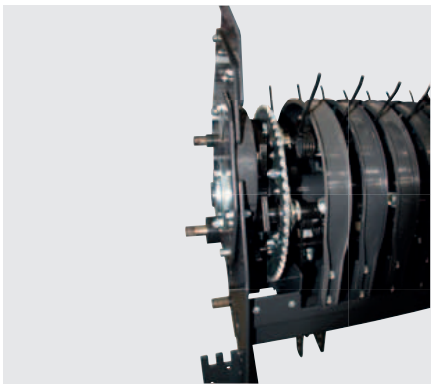
GV520SC-14 Pro-Line
Bale Diameter: 1.2 x 0.6 – 2.00m
Intake System: SuperCut-14
Binding: Net, Double

GV520SC-25 Pro-Line
Bale Diameter: 1.2 x 0.6 – 2.00m
Intake System: SuperCut-25
Binding: Net

Clean Up with Gallignani – 2.0m or 2.2m Wide Pick-Up

The Advantages

- Small diameter pick-up design.
- 2.0m or 2.2m pick-up.
- 4 or 5 rows of tines.
- Roller crop press is standard on FeedRotor and SC versions.
- Wide selection of crop feeding mechanisms (fork, double fork or rotor).
- Double sided cam tracks on the 2.20m pick-up version.
- Narrow transport width.



New generation pick-ups with increased dimensions and strength. The inboard driveline ensures narrow transport width.

Side deflectors are standard on all pick-up versions. The closed design on both sides of the pick-up provides a more even and smooth crop flow towards the rotor, especially when working with huge swaths or operating at high forward speed.

The large diameter roller crop press pre-compresses the crop and helps to even out the flow of material. It provides a uniform flow of crop into the baler, reducing the risk of blockages and allowing increased intake speeds.

Rugged easily adjustable pick-up guide wheels are equipped with generous flotation tyres. The unique compact pick-up drive design keeps the wheels within the overall baler width eliminating the need to remove them for transport

High Capacity of 2.0 and 2.2m pick-up

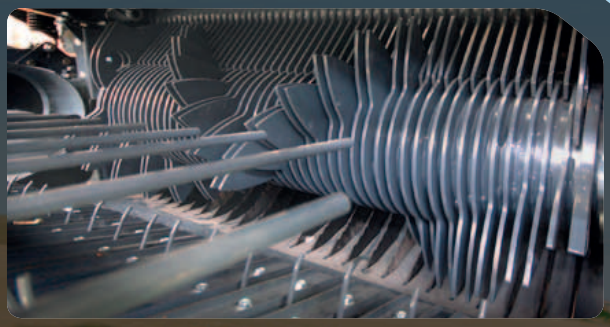
The Gallignani pick-up offers excellent pick-up performance and lifts up even the shortest crop, thanks to its small diameter. The pick-up is designed for high capacity with fast throughput and provides a smooth and even crop flow into the baler. The roller crop press pre-compresses the crop and helps to even out the flow of crop into the baler.

The extra wide 2.20m pick-up is packed with a number of unique features. Five individual tine bars and a high rotation speed give effortless clean raking ability even in the shortest crop conditions. Loading on the tine bars is kept to a minimum by the use of two intermediate supports and two separate cam tracks located at either end of the pick-up. Slip clutch protection is standard.

Designed for Narrow Transport Width

Despite up to 2.2m working width the balers have a transport width only dependent on road wheel specification thanks to the innovative design of the pick-up driveline which is located inboard of the cam track at either end of the pick-up. This unique design feature means there is no need to remove the pick-up guide wheels for road transport, reducing unproductive time between jobs.

Intake Systems



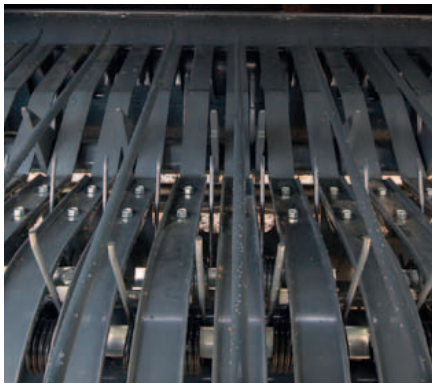
SuperCut-25 Knife Rotor
The SuperCut-25 pre-chopping system offers the ultimate solution for short chop baling with a chop length of 40mm. The short and precise chop provides dense and airtight bales for the best possible silage quality.

The operator can choose to engage 25, 13, 12, 6 or 0 knives, giving maximum flexibility of operation. For instance it is possible to use half the knives in the morning in difficult and demanding conditions and the remaining half in the afternoon, allowing a full day of baling to be achieved with optimum chop quality.

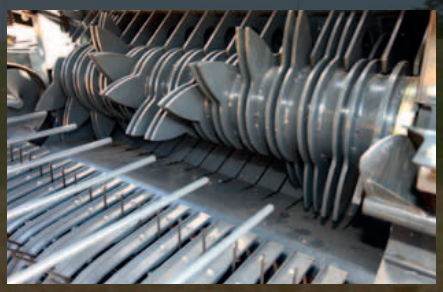
Dual Action Knife Protection
The SuperCut-25 knives are fitted with dual action protection against foreign objects. Each knife is individually spring protected and can move in two directions. If a smaller obstacle hits the knife, it will pivot backwards without loosing cutting quality. If a larger obstacle hits the knives they can pivot downwards into a safe position. The knife will immediately return to working position once the obstacle has passed.

Ultimate Intake Capacity
The GV400 and GV500 models are equipped with a high capacity intake system for maximum throughput in all conditions. A choice of Single or Double (DuoFeed) Fork Feeder, PowerFeed rotor, 14 Knife SuperCut or 25 Knife SuperCut systems ensure there is a model to match individual requirements. All Rotor and SC versions are equipped with drop floor facility for fast and efficient clearance of blockages from the tractor seat.

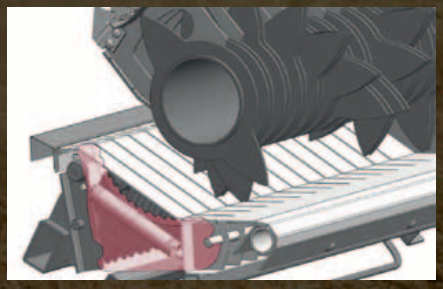
Single or DuoFeed Fork Feeder
The GV416 and GV418 version can be fitted with a cost efficient fork feeder intake system. This system provides direct feed into the bale chamber, and the wide opening allows almost unrestricted intake capacity for fast and efficient bale start. The fork feeder is provided with a tine crop press above the pick-up that ensures a regular crop flow, and is in particular designed for fragile crops like clover, where the leaves represent a valuable part. The system is mechanically integrated with the pick-up to ensure an even crop flow at low fuel consumption. Maintenance is reduced to a minimum due to the roller bearings. The exclusive DuoFeed with its double feed tines ensures high capacity and output while still safeguarding fragile crop types.



SuperCut-14 Knife Rotor
The SuperCut-14 knife chopping system provides a fast and efficient flow into the baler. With a chopping length of 70 mm it is the ideal solution for producing tight bales with superb silage quality. Also, the bale is easier to break up during the feeding process. Each individual knife is spring protected against foreign obstacles. The knife will immediately return to working position once the obstacle has passed.



SuperCut-14 rotor.



SuperCut-14 offers individual spring protection of the knives.

PowerFeed Rotor Intake for Ultimate Capacity
Truly impressive intake capacity can be achieved with the PowerFeed rotor intake system -handling all crop types with ease, whatever the conditions.

The PowerFeed rotor gives positive intake in all conditions.

DropFloor for Easy Unblocking

Drop Floor for Easy Unblocking
The Gallignani Drop Floor concept enables the operator to clear blockages easily from the tractor cab without any crop loss.

Drop the floor to free the rotor of blockage, engage the PTO to feed the blockage through and close the floor to continue baling.

The Drop Floor is standard on PowerFeed and SuperCut models.

Everything under Control with ISOBUS Technology

ISOBUS - Get Connected

The GV516 Pro-Line and GV520 Pro-Line are fully ISOBUS 11783 compliant. This means that they will plug directly into an ISOBUS compatible tractor without the need for a separate terminal. Standardisation of controls, easier connection between tractors and implements, together with potential lower machine purchase costs are just some of the benefits that the ISO 11783 standard bring you.

Kverneland Group Mechatronics lead the field in the implementation of the ISOBUS standard and are founder members of the Agricultural Electronics Federation (AEF) which continues to develop and promote ISO technology in agriculture.

The majority of new tractors are currently still not supplied as standard with full ISO compatibility, so the GV516 Pro-Line and GV520 Pro-Line can be supplied with the Focus terminal, or can be optionally specified with the revolutionary IsoMatch Tellus colour terminal.

The following functions are operated with the control terminal:

- Bale diameter.
- Density and soft core adjustment.
- Current bale diameter
- Bale shape is indicated by the terminal allowing the operator to adjust the driving pattern for optimal bale formation.
- Twine or net tying selection.
- Twine and net tying adjustment: number of net wraps, quantity of twine (on side, middle and center).
- Tying information during binding cycle.
- Manual or automatic tying control gives maximum control.
- Bale counter that can save up to 40 bale counts: huge possibility to record values from different fields.
- Hydraulic selection between pick-up, knives or drop floor function.

IsoMatch Tellus Terminal

The IsoMatch Tellus is the new virtual terminal, offering 2 Interface screens in 1 terminal. The large 12" easily programmable touch screen offers ergonomic use and is designed for long days of operation. Due to the increasing number of functionalities that can be added to a machine such as cameras, the operator can use the baler interface in the top screen and a camera display in the bottom screen, to monitor finished bales. Another possibility is to use the baler interface in the top screen and the tractor interface screen at the bottom.

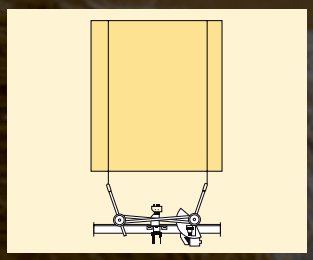
The Focus Control Terminal

The Focus terminal is easy to learn and very intuitive, with focus on functionality and operating simplicity. The Focus terminal gives you full control of all functions from the tractor cab. They are shown on a large and very clear digital display. The Focus terminal monitors and controls all necessary functions with all relevant parameters / information visible at a glance. The control box is also driving the binding automatically without any intervention from the operator.

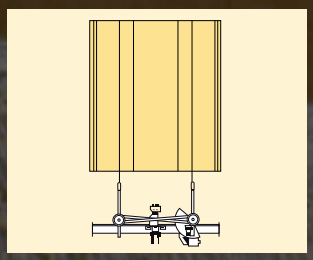
Fast and Efficient Twine and Net Wrapping

Great Looking Bales - Time after Time

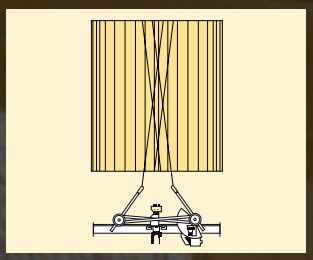
You're sure to leave a field of great looking bales every time you finish a job. Gallignani's front mounted net and twine systems ensure neat and tidy looking bales that are tightly wrapped. This ensures perfect storage and easy handling of the bales.



Both outside twines fed together.



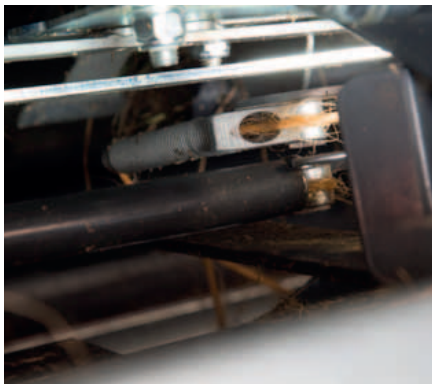
Twine evenly spaced across bale.



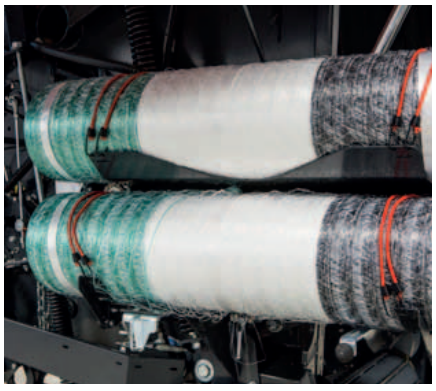
Twines crossed over in centre - no loose ends.

Twine Tying

Automatic twine tying with the fast acting double tube system means simultaneous binding of both edges of the bale, keeping binding time to a minimum. Over crossing of twines in the centre of the bale provides no loose ends at the end of the binding cycle. The system is fully user programmable to make sure you make the best looking bales in all crop conditions.



Twin tube fast operating twine binding system.



Convenient easy access storage for net and twine for long working days.

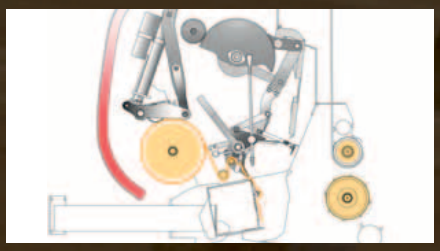
PowerBind Net Wrap

The GA series comes with the new patented PowerBind net wrap system. This completely redesigned system has been simplified in a number of ways with a significant reduction in elements needed with feed rollers having been completely eliminated. Additionally the PowerBind provides one of the fastest net wrap actions available. This means minimum downtime and maximum time baling.

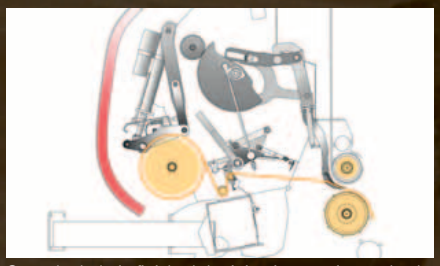
The net is fed directly into the bale chamber by an injection arm in a flat movement angle to keep the net tight at all times providing accurate and extremely reliable net injection. In addition there is absolutely no interference from external factors such as wind and crop.

The net is constantly retained by the injection arm, and when the bale is 90% complete the injection arm moves forward, ready for the net injection. This adds to reliability and productivity as no time is spent picking up the net. In fact PowerBind is one of the fastest net wrapping solutions available today, adding more uptime.

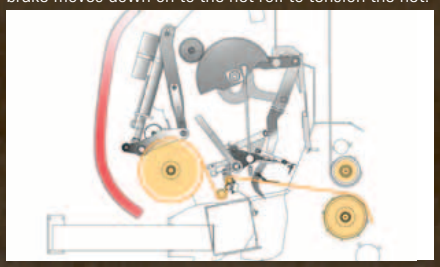
In addition PowerBind offers very low loading height, for maximum convenience and time saving. To replace the empty roll just swing out the shaft and replace it with a new roll.



When the bale is 90% complete the injection arm moves forward ready for the net injection.



Once the bale is finished the injection arm instantly places the net into the bale chamber. Once net is injected, the brake moves down on to the net roll to tension the net.



During the net injection the feeder arms moves back to its waiting position. Once the bale is wrapped the knife is activated, cutting the net.

The very low loading height and the very easy threading of the system mean minimum downtime and maximum time baling.

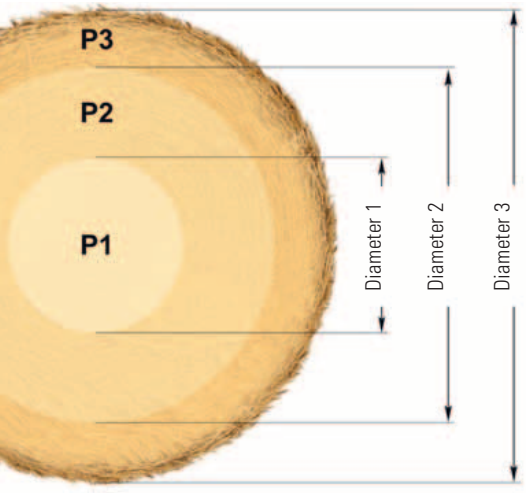
New highly efficient PowerBind net wrap system.

The PowerBind net wrap system allows the net to extend past the edge of the bale.

GV416 S-Line - GV418 S-Line

The Advantages

- Bale diameters from 0.80 m up to 1.65 and 1.80 m.
- Multi crop balers for use in silage, hay and straw.
- 5 lacing belts for low maintenance.
- Provides dense bales with a moderate core and a tight outer layer.



Pre-selection of bale density for each zone of the bale: core, mid and edge.*

Diameter (D) and pressure (P) can be adjusted in three stages using the control terminal.*

*optional proportional valve needed

Well-Shaped Dense Bales with a Moderate Core

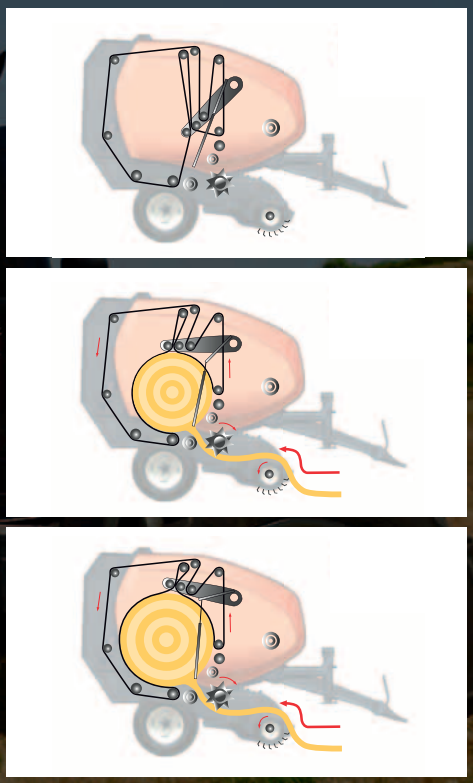
How the Baling Chamber Works

The GV416 S-Line and GV418 S-Line bale chamber offers a combination of 3 rollers and 5 wide laced belts. This mixed chamber ensures a smooth bale start whatever the intake system, offering smooth bale rotation and reduced crop loss, even in dry conditions.

The two aggressive front rollers that come in contact with the crop are constantly cleaned by scraper rollers and are designed to perform well in all conditions. They ensure instant and efficient bale start with every type of crop.

The small pre-chamber at the start of the bale formation ensures well-shaped and dense bales with a moderate core and tight outer layers.

As the bale grows, the belt tensioning arm is subjected to steadily increasing resistance from two hydraulic cylinders and a spring tensioner. As the bale diameter grows, so does the bale's density. The result is a very firm bale with a moderate core. Straw bales will be more tolerant to poor weather conditions, while silage bales will maintain their shape for improved stacking and easier handling.



Silage, Hay and Straw

The bale chamber of the GV416 S-Line and GV418 S-Line work well in silage, hay and straw. The two versions offer bale diameters from 0.80m up to 1.65m and 1.85m respectively. The bale diameter is easily adjusted through the control terminal. The bale chamber can be set to operate with 2 different bale densities: soft or moderate cores. The bale density is pre-selected using the control terminal.

The combination of 5 belts and front rollers provides dense bales with a soft core and a easy bale start.

GV516 Pro-Line - GV520 Pro-Line

The Advantages

- Bale diameters from 0.60 m up to 1.65 and 2.00 m.
- Multi crop balers for use in silage, hay and straw.
- 3 different bale densities, pre-selected from the tractor cab.
- 5 endless belts for low maintenance.
- The small chamber of the bale formation ensures very dense bales from the core.

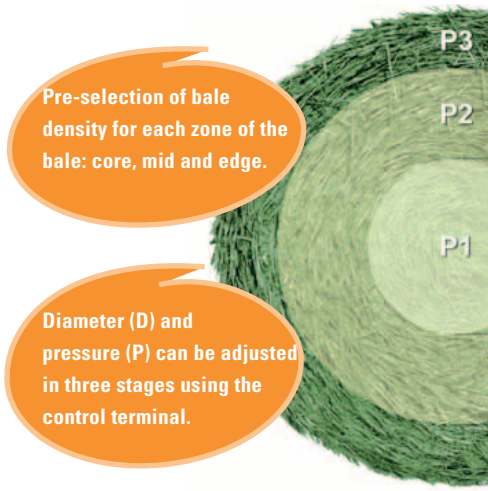
Intelligent Density 3D with 3 pre-selected bale density settings making it very easy to choose the correct bale density in different crops.

Intelligent Density 3D

Baling dry straw and want the heaviest bales possible? Maximum pressure is set in every zone.

Baling hay? Soft centre core to let the bale breath is set, with gradually increasing pressure towards the outer layer.

Baling wet silage? Pressure is reduced in the centre and mid zones.



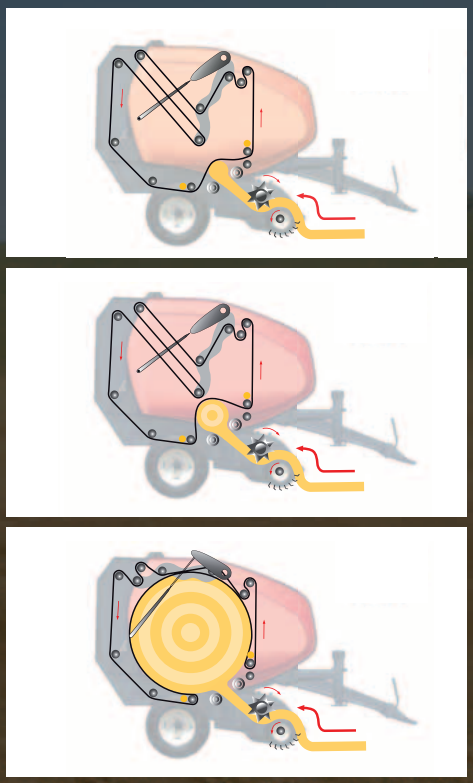
Intelligent Density 3D - The Smartest Way to Perfect Bales

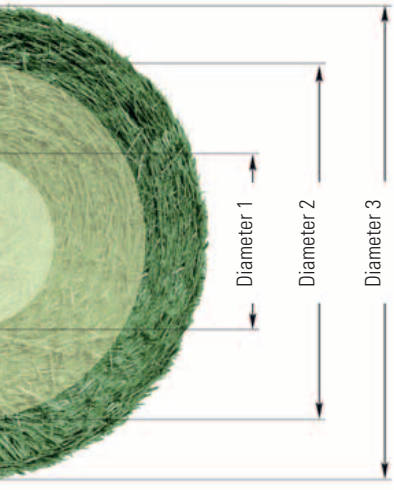
How Intelligent Density 3D Works - Bales with a Clear ID
The Intelligent Density 3D bale chamber offers a combination of 3 rollers and 5 endless belts, offering smooth bale rotation and reduced crop loss, even in dry conditions.

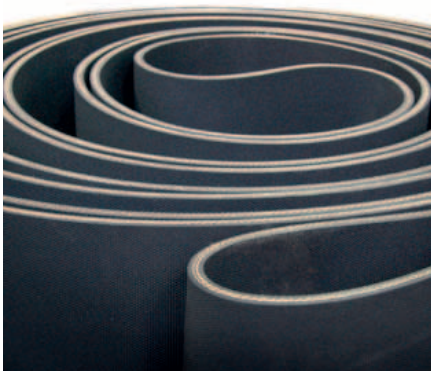
The two aggressive front rollers that come in contact with the crop are constantly cleaned by scraper rollers and are designed to perform well in silage. They ensure instant and efficient bale start with immediate bale formation in all crop conditions.

As the bale grows, the belt tensioning arm is subjected to steadily increasing resistance from two hydraulic cylinders and a spring tensioner. So as the bale diameter grows,so does the bale's density.

The result is a very firm bale with a moderate core. Straw bales will be more tolerant to poor weather conditions, while silage bales will maintain their shape for improved stacking and easier handling.







The GV516 Pro-Line and GV520 Pro-Line are fitted with 5 durable endless belts without joiners offering smooth running and low maintenance.

The two front rollers with self-cleaning scrapers are designed to work well in silage and provide instant bale formation.

Technical Specifications

MODEL	GV416F	GV416FD	GV416R	GV418F	GA418FD	
WEIGHT AND DIMENSIONS						
Length (m)	4.48	4.48	4.48	4.48	4.48	
Width (m)	2.52	2.52	2.52	2.52	2.52	
Height (m)	2.70	2.70	2.70	2.85	2.85	
Weight (kg)	2650	2650	2860	2700	2840	
BALE CHAMBER						
Diameter min. (m)	0.80	0.80	0.80	0.80	0.80	
Diameter max. (m)	1.65	1.65	1.65	1.80	1.80	
Width (m)	1.20	1.20	1.20	1.20	1.20	
Bale formation	5 belts + 3 rollers	5 belts + 3 rollers	5 belts + 3 rollers	5 belts + 3 rollers	5 belts + 3 rollers	
Belts (nb/mm)	5/220	5/220	5/220	5/220	5/220	
Endless belts	-	-	-	-	-	
Bale ramp	o	o	o	o	o	
PICK-UP						
Working width (cm)	200	220	220	200	220	
Number of tine rows	4	5	5	4	5	
Tine spacing (mm)	60	60	60	60	60	
Short crop device	Crop deflector	Crop deflector	Roller crop press	Crop deflector	Crop deflector	
Pneumatic gauge wheels	●	●	●	●	●	
INTAKE						
Fork Feeder	●	●	-	●	●	
Rotor Feeder	-	-	●	-	-	
SuperCut 14 knives	-	-	-	-	-	
SuperCut 25 knives	-	-	-			
Single knife protection	-	-	-	-	-	
Double knife protection	-	-	-	-	-	
Knife group selection	-	-	-	-	-	
Drop floor	-	-	●	-	-	
DRIVELINE						
11/4" chains	●	●	●	●	●	
W-A PTO shaft	●	●	●	●	●	
Shear bolt protection	●	●	-	●	●	
Cam clutch protection	o	o	●	o	o	
BINDING						
Twine (double) / Capacity	● / 8	● / 8	● / 8	● / 8	● / 8	
Net / Capacity (m)	o / 3	o / 3	o / 3	o / 3	o / 3	
Net & Twine / Capacity	o / 8 - 3	o / 8 - 3	o / 8 - 3	o / 8 - 3	o / 8 - 3	
OPERATIONS						
ISOBUS	-	-	-	-	-	
Focus	●	●	●	●	●	
IsoMatch Tellus	-	-	-	-	-	
Hydraulic outlets	1SA+1DA	1SA+1DA	1SA+1DA	1SA+1DA	1SA+1DA	
WHEELS AND AXLES						
11.5/80-15	●	●	-	●	●	
15.0/55-17	o	o	●	o	o	
19.0/45-17	o	o	o	o	o	
550/45-22.5	-	-	-	-	-	
Hydraulic brakes	-	-	-	-	-	
Pneumatic brakes	-	-	-	-	-	
OTHERS						
Drawbar	●	●	●	●	●	
PTO (rpm)	540	540	540	540	540	
Min. power requirem. (kW/hp)	38/55	38/55	45/64	45/64	52/70	

● = Standard Equipment o = Optional Equipment - = Not available

	GA418R	GV516R	GV516SC-14	GV516SC-25	GV520R	GV520SC-14	GV520SC-25
	4.48	4.48	4.48	4.48	4.75	4.75	4.75
	2.52	2.52	2.52	2.52	2.52	2.52	2.52
	2.85	2.70	2.70	2.70	2.82	2.82	2.82
	2840	2990	3250	3520	3340	3600	3920
	0.80	0.60	0.60	0.60	0.60	0.60	0.60
	1.80	1.65	1.65	1.65	2.00	2.00	2.00
	1.20	1.20	1.20	1.20	1.20	1.20	1.20
	5 belts + 3 rollers	5 belts+3 rollers	5 belts+3 rollers	5 belts+3 rollers	5 belts+3 rollers	5 belts+3 rollers	5 belts+3 rollers
	5/220	5/220	5/220	5/220	5/220	5/220	5/220
	-	●	●	●	●	●	●
	o	o	o	o	o	o	o
	220	220	220	220	220	220	220
	5	5	5	5	5	5	5
	60	60	60	60	60	60	60
	Roller crop press	Roller crop press	Roller crop press	Roller crop press	Roller crop press	Roller crop press	Roller crop press
	●	●	●	●	●	●	●
	-	-	-	-	-	-	-
	●	●	-	-	●	-	-
	-	-	●	-	-	●	-
		-	-	●	-	-	●
	-	-	●	-	-	●	-
	-	-	-	●	-	-	●
	-	-	-	●	-	-	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	-	-	-	-	-	-	-
	●	●	●	●	●	●	●
	● / 8	● / 8	-	-	●	-	-
	o / 3	o / 3	● / 3	● / 3	o / 3	● / 3	● / 3
	o / 8 - 3	o / 8 - 3	o / 8 - 3	-	o / 8 - 3	o / 8 - 3	-
	-	●	●	●	●	●	●
	●	o	o	o	o	o	o
	-	o	o	o	o	o	o
	1SA+1DA	1SA+1DA+Return	1SA+1DA+Return	1SA+1DA+Return	1SA+1DA+Return	1SA+1DA+Return	1SA+1DA+Return
	-	-	-	-	-	-	-
	●	●	●	●	●	●	●
	o	o	o	o	o	o	o
	-	o	o	o	o	o	o
	-	o	o	o	o	o	o
	-	o	o	o	o	o	o
	●	●	●	●	●	●	●
	540	540	540	540	540	540	540
	52/70	45/65	55/75	69/95	50/70	60/80	74/100

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GALLIGNANI

Based on more than 90 years of activities Gallignani has turned into a specialist and strong reference point in the world of agricultural machinery. The product range covers fixed and variable chamber balers and round bale wrappers. All products are manufactured at the very modern manufacturing site in Ravenna in northern part of Italy. The factory is one of the most modern baler manufacturing sites in Europe, a production facility with more than 30 years of baler manufacturing experience.

KVERNELAND GROUP

Gallignani is a brand of the Kverneland Group, a leading international company developing, producing and distributing agricultural machinery and services. Kverneland Group has a very professional network of partners to support you with service, technical knowledge and genuine parts. To assist our partners, we provide high quality spare parts distribution worldwide.

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