

GEHL®

variable chamber round balers





Total Density Control Balers—Only From Gehl

Top quality feed with better nutrient retention and a maximum density bale. That's what a Gehl variable chamber round baler with Total Density Control delivers.

This unique "Airdraulic" system lets you easily custom-build your bales according to changing crop and moisture conditions for maximum nutrient value. And with airdraulics you build a denser bale with more material in every bale. So you have fewer bales to make, move, store and feed.

How does it work?

There are two control systems involved with Total Density Control or TDC®. Air pressure regulates the size of the bale core and hydraulic pressure controls the density of the outer wrap. This system offers infinite options in the type of bales made.

The core.

The operator predetermines the size of the bale core anywhere from a few inches in diameter to over 3-1/2 feet in diameter on the Model 1865. Core size can be regulated as moisture levels change to allow the bale to cure properly.

The wrap.

The density or tightness of the outer wrap is adjustable independent of the core. By simply adjusting

the hydraulic pressure on the "airdraulic" system, the operator can make less dense, airier bales (if he's baling in high moisture conditions); or, he can increase the density or the wrap as moisture levels decrease. Either way you have total versatility and control in getting uniform bales that will stand up to weather, hold their shape and retain valuable nutrients.

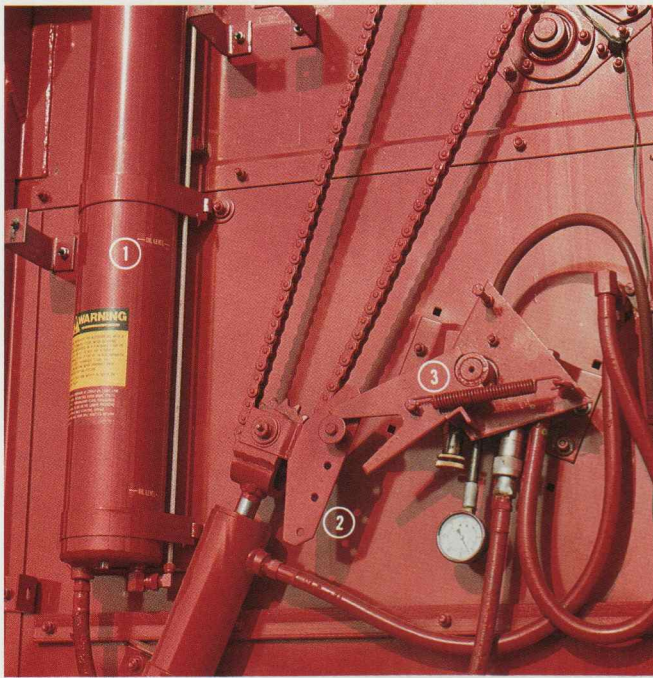
How much control is necessary?

That depends on the crop and the conditions. Moisture levels in your crop may change from day to day and from field to field, even throughout the same day. These varied conditions can mean different core sizes and different wrap densities may be required to get the highest quality bale possible. Only Gehl Total Density Control balers give you the total flexibility to adjust the baler to make the "perfect" bale every time.

Backed by Gehl.

Since 1859 Gehl Company has been serving world agriculture with products that have gained a reputation for dependability and innovative design. Gehl Total Density Control balers continue that tradition.

And Gehl takes pride in backing its products with outstanding service and parts support. It's a company you can count on today, tomorrow and into the future.



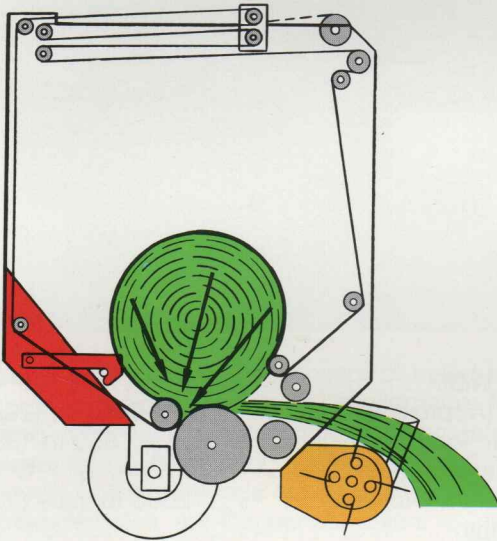
“Airdraulics”—the simple system.

With TDC you take complete control over the core size and the density of the outer wrap with one of the simplest systems available.

The air pressure tank (1) controls the reduced belt tension during the critical bale starting period. As the core starts to roll, the additional belt required to wrap the growing core comes from the rearward movement of the shuttle. This moves the hydraulic triggering mechanism (2) upward.

The final size of the core is determined by where you set the triggering mechanism. There are several settings from which to choose.

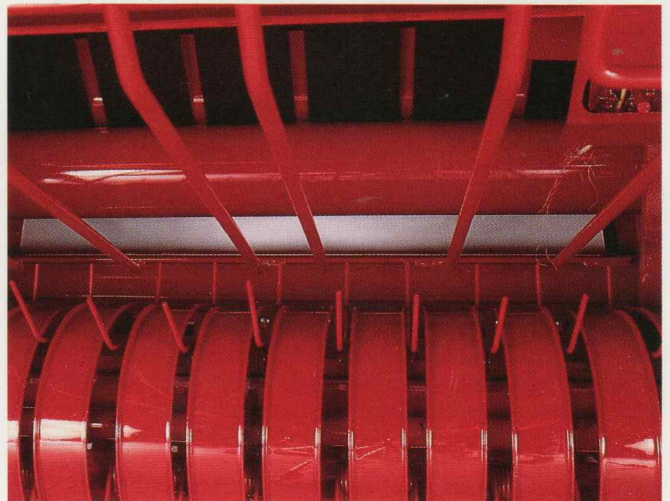
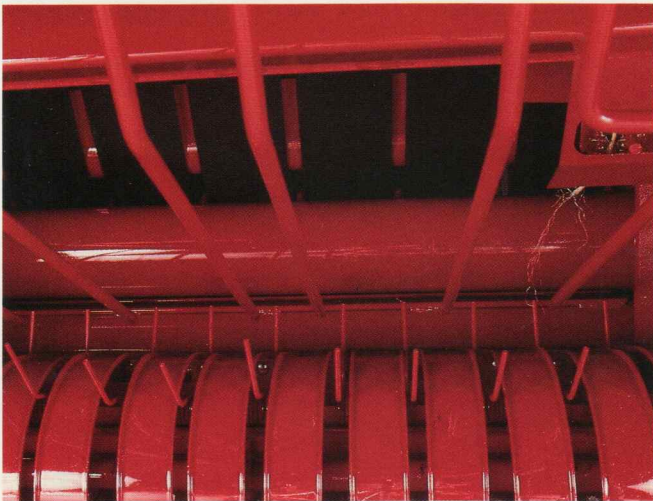
When the core reaches your pre-set size, the triggering mechanism will trip the hydraulic valve (3). At this point, hydraulic pressure takes command over the tension of the belts. The hydraulic pressure is infinitely adjustable for a wide range of pressure settings, thus a wide variety of densities in the final bale wrap. The nice part about the entire system is that you can change the core size and the pressure on the wrap quickly and easily to match your changing crop conditions.



Total crop compression

In addition to the uniform upper belt tension provided by the “air-draulic” system, Gehl “65-series” balers feature ribbed steel lower bale forming rollers to assure quick starts and continuous bale rotation.

As material enters the baling chamber the 8” and 16” lower rollers feed the crop into the upper belts. As the bale grows in size, it is forced up onto the 6” penetrating roller. The weight of the bale itself compresses all incoming crop onto this roller. This concentration of pressure on the crop, plus the upper belt tension, generates the high bale density.



Power infeed design. The upper packing roll and the lower ribbed steel roller move the crops from the pickup and force it into the baling chamber. The wide opening (right photo shows packing roller lifted) allows you to maintain fast ground speed, even in heavy windrows, and will allow the occasional “slug” of hay to enter.



Standard dual twine arm means faster twine wrap.

And you can wrap your bales automatically with varied number of wraps on the ends and in the middle—with the optional **Auto-Electric twine wrapping system.**

This system features an audible alarm that sounds when the bale reaches a predetermined size and the tying cycle begins. The twine arm advances automatically to put the precise number of wraps at each end and throughout the width of the bale.

The Auto-Electric twine wrapping system can be overridden by a flip of a switch. The control box includes a reminder light to indicate that the rear gate is locked after the bale has been discharged.

Other wrap options include electric or hydraulic controls.



Bale ramps. These bale ramps are designed to give your big round bales a little extra boost as they are ejected from the baler. This allows the bales to clear the arc of the gate so you can go right back into your windrow again. No backing up required. It's all automatic.



Two 3-ball twine boxes. Large, 3-ball twine boxes, one on each side, let you load your baler with up to six balls of twine.

SAFETY IS NO ACCIDENT. Gehl Company reminds you that before operating any piece of equipment, be sure to read and understand the operator's manual. This manual should be kept with the machine at all times. Additionally, make sure all safety shields and devices are functioning properly and are securely in place.



Round bale silage. The concept of baled silage, or balage, is rapidly growing as an alternative to regular baling. It's ideal when weather conditions are unfavorable for quality haymaking. Gehl balers, with their ability to make bales of various sizes in addition to nearly infinite densities, are the perfect balers for making balage.



The top-mounted bale size indicator allows you to consistently make bales the size you want, up to six feet on the 1865, five feet on the 1465.



Texturized belts. The 3-ply belts on the 1465 and 1865 are texturized and totally flexible. The texturization assures better crop handling, particularly in slippery crops, and maintains continual belt pressure on the bale for improved bale shape and more even bale rolling.



Specifications

Model 1465

Power	40 hp minimum 540 or 1000 rpm available
Height	8'1" (2664)
Length	11'10" (3607)
Width	6'8" (2032)
Pickup Width	4'8" (1422)
Weight (Approximate)	3790 lb. (1722 kg)
Drawbar Tongue Weight	800 lb. (363 kg)
Bale Diameter (Full Size)	5' (1524)
Bale Weight (Nominal)	1000 lb. plus (454 kg)
Bale Width	3'9" (1143)
Tire Options	9.5 L x 14, 6-ply 11 L x 14, 6-ply 31 x 13.5 x 15, 6-ply

Standard Features

(Common to both 1465 and 1865)

- Four-bar closed reel pickup with crowder shields
- Hydraulically operated rear gate
- Adjustable drive line with shear bolt overload protection
- Front PTO breakaway pedestal
- Dual twine wrapping mechanism less the actuating means
- Bale size indicator
- Self-contained hydraulic density control system
- Adjustable bale discharge ramps
- 3-ply textured upper belts
- Adjustable shuttle stops
- Crop hold down for pickup
- Fenders
- Bale counter

Gehl reserves the right to make changes in specifications shown herein or add improvements at any time without notice or obligation. Some shields have been removed for illustration purposes only.

Model 1865

Power	50 hp minimum 540 or 1000 rpm available
Height	9'1" (2769)
Length	14'6" (4420)
Width	8' (2438)
Pickup Width	6' (1829)
Weight (Approximate)	4450 lb. (2021 kg)
Drawbar Tongue Weight	850 lb. (386 kg)
Bale Diameter (Full Size)	6' (1829)
Bale Weight (Nominal)	2000 lb. plus (908 kg)
Bale Width	5'1" (1549)
Tire Options	11 L x 14, 6-ply 31 x 13.5 x 15, 6-ply

[Specifications shown in feet and inches (millimeters) unless specified otherwise]

Optional Equipment

- Auto-Electric twine wrapping system
- Hydraulic cylinder and hose kit for hydraulic twine wrap system
- Electric actuator, control box and wiring for electric twine wrap system
- Dual hydraulic kit
- 1000 rpm conversion kit
- Crowder wheels

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