



Fit R-300 Drive Unit

The compact, effective solution
to clean dairy barn alleys



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Meet your needs with the perfect fit

Every dairy farm has a unique layout, which means a customized manure management system is essential. The Fit R-300 is a flexible, custom-made solution. It can adapt to your operation and provides easy, effective alley cleaning.

A GEA-exclusive solution, the Fit R-300 drive unit is for barn alleys up to 300 feet long and where sand bedding is not used.

The Fit R-300 was developed to provide a compact drive unit that can fit in various locations around the barn. A cost-effective, cow-friendly manure management solution, it is suitable for new facilities or retrofit installations looking to upgrade to an automated freestall cleaning system. The Fit R-300 is a cable/rope drive unit that offers excellent performance, longevity and is easy to monitor and maintain.

- Because it is compact with drive unit wheels that can be configured as desired – in-line, 90° corner (left or right) or 360° – the Fit R-300 can be installed in more places in the barn for optimal floor space use and more efficient traffic patterns.
- The close-coupled, dual-motor design (0.75 HP each) allows for an auto-tensioning feature on the Combi-rope to ensure hassle-free operation and long-term reliability.
- The drive unit's Combi-rope offers all the advantages of both steel cable and nylon rope in one.
- All current scraper models and accessories can be used with the Fit R-300 drive unit. Control panel options are similar to other alley cleaning systems. The programming and user interface are the same across the IVRpro and IVRpro Max@ccess.



The Fit R-300 offers you the flexibility you need and can be installed in a left or right corner (90°), in line or in a 360° configuration.

The Fit R-300 auto-tensioning feature reduces maintenance time.

The rocking motion of the Fit R-300 acts as an automatic cable tensioning. The drive unit maintains a balance between the tension exerted on the Combi-rope and the pulling force required to move the scraper circuit. When both pulleys are rotating clockwise the pulling force is applied on the right pulley. When the Combi-rope on the left-side has slack, the left pulley lifts up rocking the frame to maintain proper tension in the Combi-rope. This also applies to the right pulley when rotating counter clockwise.

- The moving frame of the Fit R-300 drive unit has a total stroke of 26 inches (660 mm), which allows for a cable/rope extension of approximately 52 inches (1321 mm).

The auto-tensioning feature of the Fit R-300 saves maintenance time while maintaining proper cable tension.

The Combi-rope has the advantages of both steel cable and nylon rope in one.

Made of an inner braided stainless steel core with smaller cables interwoven within a nylon sleeve, the Combi-rope is more durable and more comfortable for the cows.

- The outer nylon sleeve is soft and cow-friendly.
- The stainless steel inner cable of the Combi-rope has less stretch and is resistant to bending, which is key to ensuring proper operation within the Fit R-300 pulley system.
- The Combi-rope is required for the portion of the circuit that runs through the drive unit. Its maximum length is 325 feet (100 m). The remaining portion of the circuit can be fitted with any other type of cable or rope currently offered by GEA.
- The Combi-rope has a diameter of 0.551 inches (14 mm).
- It is suitable for installations with or without a guiding groove.



The Fit R-300 drive unit moves upward one side after the other, along the two guide pillars, until it reaches the end of its stroke.



The Combi-rope is made of an inner braided stainless steel core with smaller cables interwoven within a nylon sleeve.



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GEA North America

GEA Farm Technologies Canada Inc.
4591 boul. St-Joseph
Drummondville, Qc, Canada J2A 0C6
Tel +1 819 477 7444
Fax +1 819 477 5565

GEA Farm Technologies, Inc.
1880 Country Farm Drive
Naperville, IL 60563 USA
Tel +1 800 563 4685
Fax +1 819 477 0486

www.gea.com