

SPIRO MOVING FLOORS HANDLE LARGE VOLUMES OF BULK MATERIALS

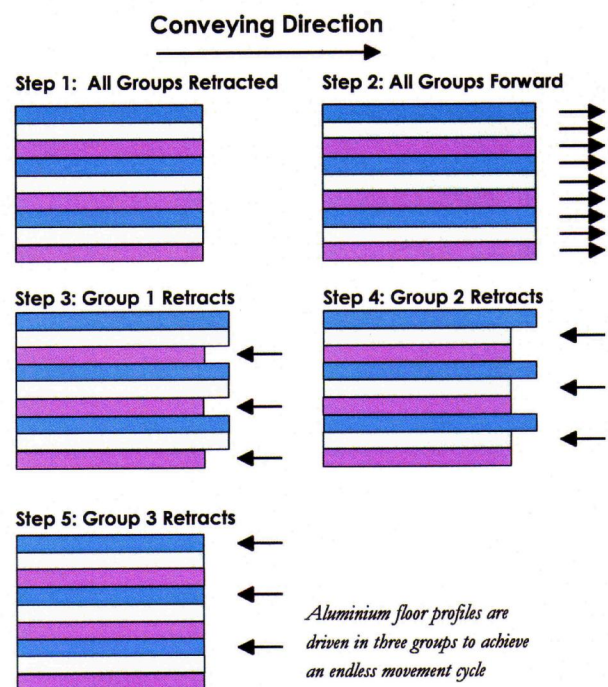
Renby is proud to offer the technologically advanced Spiro Conveyor Floors (also known as moving or walking floors).

Spiro Conveyor Floors feature hydraulically driven hardened aluminium floor profiles which move in a constant cycle to transport their load in either direction at variable speeds (see over for details). They are available in three configurations to suit different operating requirements:

- *Truck or trailer floors* for applications where discharge rates must be controlled and/or where headroom is restricted.
- *Static conveyor floors* for use in applications such as waste processing plants, where they can be integrated with self-discharging bunkers and dump platforms and used to control the flow of material to picking points.
- *Lightweight lorry floors* where a quick and light installation is required, or where faster discharge rates are needed.



How the Spiro Conveyor Floor Works



The principle behind the success of the Spiro Conveyor Floor is the difference in friction between the floor itself and the load which it is carrying. A five-step endless movement cycle conveys the load by moving three groups of eight floor profiles, as follows:

- *Step 1* - All three groups have been retracted under the load.
- *Step 2* - All three groups move forward simultaneously conveying the load 15cms forward.
- *Step 3* - Group 1 of the floor profiles retracts 15cms at high speed under the load which remains stationary.
- *Step 4* - Group 2 is similarly retracted while the load remains stationary.
- *Step 5* - Finally, Group 3 is retracted under the load which remains stationary and the cycle returns to Step 1.

Mobile and Static Conveyor Floors



The Spiro Conveyor Floor employs a three-cylinder hydraulically-driven aluminium floor profile system to convey loads with equal effectiveness in both of the following applications:

- ÿ Fitted as a static floor in a bulk materials reception area.
- ÿ Mounted on the floor of a truck or trailer



In static installations, the Spiro Conveyor Floor can be connected up in any desired length or width because it is a modular system.

In truck-mounted installations, the Spiro Conveyor floor is bespoke manufactured to achieve an exact fit on any truck or trailer bed.

The Spiro Conveyor Floor is most often used in applications where bulky material needs to be transported and processed, including paper, tyres, municipal waste and garden waste.

When combined with the Schrage Rohrketten-system GmbH Tube Chain Conveyor, a very effective raw materials reception and handling system results. Renby is the only company to offer this.

Benefits

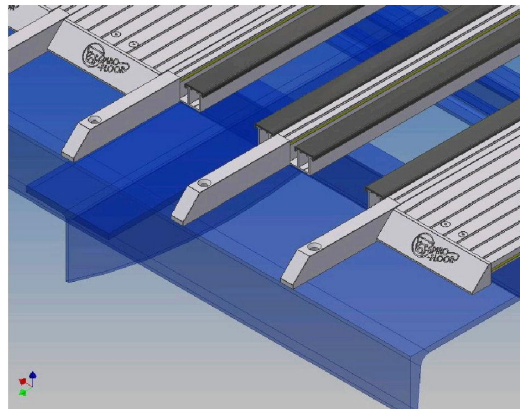
The major benefits of the Spiro Conveyor floors are as follows:

- ÿ Loads can be discharged at a variable measured rate.
- ÿ Double-handling of loads is eliminated.
- ÿ Endless movement cycle means optimum material flow is achieved.
- ÿ Advanced technology and materials deliver excellent reliability.
- ÿ Hardened aluminium used to combine light weight and durability.
- ÿ Simple but effective design reduces maintenance to a minimum.
- ÿ Ideal for bulk materials handlers, including paper, tyres, sawdust, cereals, waste, peat and compost.

New Two Cylinder Spiro Conveyor Floor

This innovative new conveying floor was created in response to customers' needs for a lightweight more compact unit for increased payloads. It uses only two hydraulic cylinders to drive the floor, instead of the usual three, and yields the following benefits:

- ÿ Light weight construction of floor allows for greater payload.
- ÿ Simple but effective 2 cylinder concept keeps price low.
- ÿ Fast and easy to mount which slashes the fitting costs.
- ÿ Much lower number of welds required hence faster installation time.
- ÿ Reduced cycles give faster load discharge rate.
- ÿ Lower number of components hence higher reliability.



Combination of movable and static panels delivers same load moving results as the fully movable 3 cylinder floor