

Fraser Shading Systems is pleased to introduce the MagnaTrack Motorized Screen System

MAGNATRACK

CANADIAN PATENT 3067799

Innovative in design and revolutionary for the industry, this fully-patented system utilizes **opposite-pole neodymium magnets** which are secured into both the track housing and inner track. These chrome-coated rare earth magnets have an estimated **400-year life expectancy**.

How does it work?

These specialized magnets are slightly separated, permitting the inner track to float inward during deployment. This allows the screen interlock to easily feed into the track without hang-up, jamming, or pull-out.

In addition, the magnetic pull also keeps the screen panel taught when the screen is deployed.

MagnaTrack is Leading the Industry in Durability:

The magnetic sidetrack rails are **virtually indestructible**, guaranteed to withstand winds up to **75 mph (120 kph)**.

(warranty limitations apply)

No wind sensor is required to use this system, and with the heaviest weight bar on the market, the screens can be deployed in winds of up to 25 mph (40 kph). (limitations apply)

The structurally-designed extruded aluminum roller bar resists rust and eliminates sagging fabric, while accommodating spans of up to **30 feet (9.1 m) wide** and **24 feet (7.3 m) tall**. (limitations apply)

We offer a limited lifetime warranty on the hardware as well - **no plastic retention guides are used** in any part of the MagnaTrack system, and collisions with furniture, pets, or people won't damage the hardware.

There is NO other system that has this Patented Technology or Performance...guaranteed.

MagnaTrack History and Evolution:

Since the introduction of the MagnaTrack in July of 2017, it has become the leading exterior motorized screen system in the world. Innovative in design and unmatched in performance, this patented technology is only available in Canada through Fraser Shading Systems or its authorized/approved dealers.

When the MagnaTrack was introduced in 2017, this technology had never before been used in any other motorized system. The response was overwhelming, and the **“Self-Correcting”** feature set the bar for the industry. Sales of the MagnaTrack grew at an astonishing rate of almost **275%** the first year. Call backs and service issues were minimized for our dealers and they could focus on new sales versus service calls.

Since the Magnetic Technology had never been truly tested, Progressive Screens found some minor flaws in the design and to show their commitment to continuing to be a leader in innovation they listened to our dealers, compiled their feedback and issues and made several improvements over the next 12 months.

October of 2018 saw the introduction of the **“Evolution” MagnaTrack System** where a significant reinvestment in the technology improved the MagnaTrack performance with evolutionary system enhancements including:

- closer magnet separation which increased the magnetic polarity by 30%;
- increased wall thickness on the track housing;
- reinforcements internally in the track housing;
- slightly wider profile; and
- stronger end retention to secure the inner track in the housing.

All of these improvements greatly enhanced the performance of the MagnaTrack system.

Further development of the MagnaTrack system into other uses and applications lead to one final improvement and in July of 2019 the **MagnaTrack “EDGE” system** was introduced. The EDGE system is the most current and effective system to date. The EDGE system has a defined curved edge on the inner sides of the track housing providing a finished aesthetic look and appearance. The EDGE in a recessed application provides a perfect cavity to caulk and trim of the installation application. The EDGE also provides better retention of the weight bar, so it retains inside the track housing.

The inner track was also redesigned with slightly increased retention legs to provide a more secure fit. This along with reducing the inner slot where the Keder slide into provides better retention on the Keder and inner track for high winds or impact.

With the current version of the MagnaTrack EDGE system in production and continual performance-enhancing improvements to the system, the MagnaTrack **Defender Storm System** was introduced in October of 2019. The Defender Storm System utilizes the same patented magnetic technology and MagnaTrack sidetrack. This one screen system offers multiple lines of defense and can be used for bugs, solar-protection, privacy and hurricane protection. The performance of the MagnaTrack system combined with the proprietary reinforcement channels and exclusive fabric that is a blend of high-tenacity PET and Aramid/Kevlar core yarns provides protection that exceeds the performance criteria required for Miami Dade County & State of Florida building codes as well as the Texas TDI.

The **(SAT) Self adjusting Technology** and magnetic fields reduce the initial inertia and dampen the impact of flying debris and wind load by almost 30%, while maintaining a uniform screen surface and appearance. Designed to protect your life and enhance your lifestyle.

A continuing commitment to constantly improve and to lead the industry in innovation has resulted in even more revolutionary enhancements including the following:

- Sound Dampening Device (SDD);
- Weight Bar Interlock (WBI);
- Weight Bar Retention Probe (WBR); and
- MagnaTrack Funnel (MTF)

MagnaTrack Uses the Highest Quality Motors:

The MagnaTrack system is available with (2) different motor options to best fit your needs and application: **Gaposa** and **Somfy**.

The **Gaposa (TOD) Triple Obstacle Detection** motor protects people, pets and furniture from injury and/or damage. Gaposa motors are fully programmable, with a **600-foot outdoor range and a 75-foot indoor range** via remote control. Alternately, MagnaTrack systems can be controlled by your smartphone via the optional WiFi interface (**RollUP**) and are compatible with most home automation systems using (**LinkIT**).

Remote options for Gaposa include both hand-held and wall-mount remotes in 1-Ch, 5-Ch options and a 90-Ch hand-held.

The Somfy motors offer obstacle detection as well. The (**SOD) Single Obstacle Detection** feature will retract the system if it hits an object or encounters high wind pressure under deployment. The system will stop deployment if either of these issues occur and retract approximately 12" to 18" (36.4 cm to 45.7 cm) and shut down the motor to avoid rewrapping or disengagement of the screen material. Alternately, MagnaTrack systems can be controlled by your smartphone via the optional WiFi interface (**MyLink**) and are compatible with most home automation systems using (**RS232**).

Remote options for Somfy include both hand-held and wall-mount remotes in 1-Ch, 5-Ch options and a 16-Ch hand-held.

The MagnaTrack Difference:

The MagnaTrack Motorized Screen System, combined with the Keder interlock, is specifically designed and engineered with (**SCI) Self Correcting Intelligence** that mitigates the majority of service issues inherent to zipper/track systems currently available.

The (**SAT) Self Adjusting Technology** component of the system triumphs over the ineffectiveness of the current fixed-track (permanently secured by fasteners) method by allowing the screen to expand while under wind pressure, which separates the magnets. After the pressure subsides, the force of magnetic attraction re-tensions the material for an aesthetically tight-looking screen – **MagnaTrack will also self-adjust during install as well as daily deployment.**

This state-of-the-art approach also allows for expansion and contraction of the screen/shade material when temperatures are cooler, even in cases where a screen/vinyl window insert combination is present.

As a result, MagnaTrack is less prone to the typical sagging or "hour-glassing" that is a common complaint of clients in the motorized industry. When the system is not used for extended periods of time, and then deployed in cooler or cold temperatures, **all zipper systems potentially can have issues when being rolled down, leading to major service issues and service calls.**

MagnaTrack also has several other proprietary features including the **(SLA) Self Leveling Adjusters** on the roller system that allow you to level the weight bar at the housing if ordered with an uneven cut on the bottom (bias) or the hood is mounted slightly off level.

MagnaTrack is the only system that can overcome the contraction/shrinkage of fabric and clear vinyl - without pulling out, dislodging, or hanging up - the magnets will adjust to avoid these issues.

MagnaTrack can be used in the following applications:

- in new construction as a recessed system;
- as a retrofit to existing residential applications;
- for commercial applications such as restaurants and hotels; and
- in the Defender Storm protection system.

Since all of these applications provide all the features and benefits of the MagnaTrack system, all options provide Fraser Shading and our distributors a major competitive edge.

Competitive Advantage:

Competitors' systems use...

- an adjustable angle, with the main track secured to the angle or brackets.

MagnaTrack is an all-in-one contained side-track system designed for all mounting applications, with greater aesthetic appeal and a finished look.

- a fixed u-channel housing with a snap-in track, or they have fasteners that allow the track to be adjusted during install. But once the tension or fasteners are attached, it becomes a FIXED track system that can only be manually adjusted – when not in use.

MagnaTrack self-adjusts on its own, in any application, even when mounted to uneven surfaces.

- a floating plastic insert track that only moves 1/8" to 1/4" (3.1 mm to 6.4 mm) and only at the top. These other systems don't have any expansion features in the tracks. In windy conditions, especially during deployment of the screen, the screen or zipper can hang up, dislodge from the track, or rewrap. There is no type of retraction or tensioning system other than resistance from foam or fins.

MagnaTrack allows up to 1/2" (12.7 mm) movement inwards and a powerful retraction by magnetic force to keep the screen taught and beautiful in appearance.

MagnaTrack is the only self-correcting system available

If for any reason the side interlock gets dislodged from the track, simply raise the screen above the point of pull-out, and then lower the screen again – *and it will refeed on its own.*

NO OTHER SYSTEM CAN DO THIS

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