

# TRAK-FREE<sup>™</sup> CARRIAGE SYSTEM

The **TRAK-FREE<sup>™</sup> Carriage System** was developed to provide customers with the most efficient, space-saving, and cost-effective mobile grow solutions for their unique needs. Working alongside our partners, our engineers accepted this challenge and created a system that eliminates the multiple floor-mounted track configuration. Our Mobile Vertical Grow Rack Systems are now the preferred choice for preeminent indoor growers!

## INCREASE EFFICIENCY

The revolutionary advancement of our patent-pending TRAK-FREE<sup>™</sup> Carriage System is the **single guide rail** along the back of the system. By eliminating multiple tracks in the walkway, we reduce the cost for materials and installation, while leaving the entire floor open to move carts and ladders in the grow room, clean debris, and mitigate additional GMP impediments created by tracks on the floor.





## FEATURES & BENEFITS

- ▶ Cost and time savings on materials and installation.
- ▶ Increases efficiencies of standard operating procedures and safety measures.
- ▶ More accessibility for a more thorough cleaning.
- ▶ Easier to move other necessary equipment like carts, racks, and ladders around grow room.
- ▶ Reduces potential floor impediments.
- ▶ Only minor anchoring means safe installation on radiant-heat floors.
- ▶ Seismic compliant options.



## SPECIFICATIONS

- ▶ Mechanical-Assist Carriage System with locking 3-prong handle for heavier loads like grow rooms.
- ▶ Maximum carriage length: up to 56 feet long. (Longer systems require engineering approval.)
- ▶ Maximum shelving height: up to 18 feet high. (Taller systems require engineering approval.)
- ▶ Maximum 8' section load: 2,000 lbs./maximum 56' long carriage load: 14,000 lbs.
- ▶ In-Track Anti-Tip is included.
- ▶ Must be mechanical assist if over 8' long or narrower than 36". Exceptions require engineering approval.
- ▶ Dual drive option available - guide track will be to one end of the carriage (customer determines which end).
- ▶ Applicable shelving types: Bulk Rack, Rivet Style Shelving, and Wire Shelving.



## ROOM REQUIREMENTS

- ▶ Floor must be smooth and free of pits, cracks, and other defects that will interfere with the free flow movement of the wheels.
- ▶ Floor level to within ¼" over 10' in any direction; max variance of the entire carriage room ( $\pm 1/2$ "). Variations to this require engineering approval.
- ▶ Concrete Flatness: FF=25 and FL=20 (for contractor use).
- ▶ To ensure and maintain proper carriage alignment, the TRAK-FREE™ carriages should only be moved one at a time, using the 3-prong handle.





# FREQUENTLY ASKED QUESTIONS

## **What makes the TRAK-FREE™ system different?**

We removed all but one track to make it easier to move rolling carts, stools, ladders, and lifts in the mobile aisles. This also makes cleaning up spills/leaks much easier with a squeegee.

## **How well does it roll?**

The TRAK-FREE™ system rolls virtually the same as our tracked system, due to the bowling ball-like urethane we use for the wheels. We also still use one guide track per carriage to ensure proper lateral movement.

## **How much weight can it hold?**

The TRAK-FREE™ system can hold up to 2,000 lbs per section/bay of shelving. Generally, 4'x8' or 4'x4'.

## **How much more does it cost?**

It doesn't. Customers will actually see an overall cost reduction when comparing the TRAK-FREE™ system to our tracked system. This is due to labor savings during install and removing almost all of the costly stainless steel track. There are also long-term savings due to the ease of cleaning and the increased efficiencies of the TRAK-FREE™ system.

## **I'm in a high seismic area. Can I use these?**

Absolutely. When seismic documents are required for submittal, Pipp can design a system from the ground up to meet site specific conditions and codes. To start, we have developed and modified an anti-tip solution commonly used in seismic areas. I.T.A.T. (In-Track Anti-Tip) is a new track extrusion that mitigates risk of a shelving unit tipping. We include one per system as a default, but will include more as required.

## **Will TRAK-FREE™ affect my facility design?**

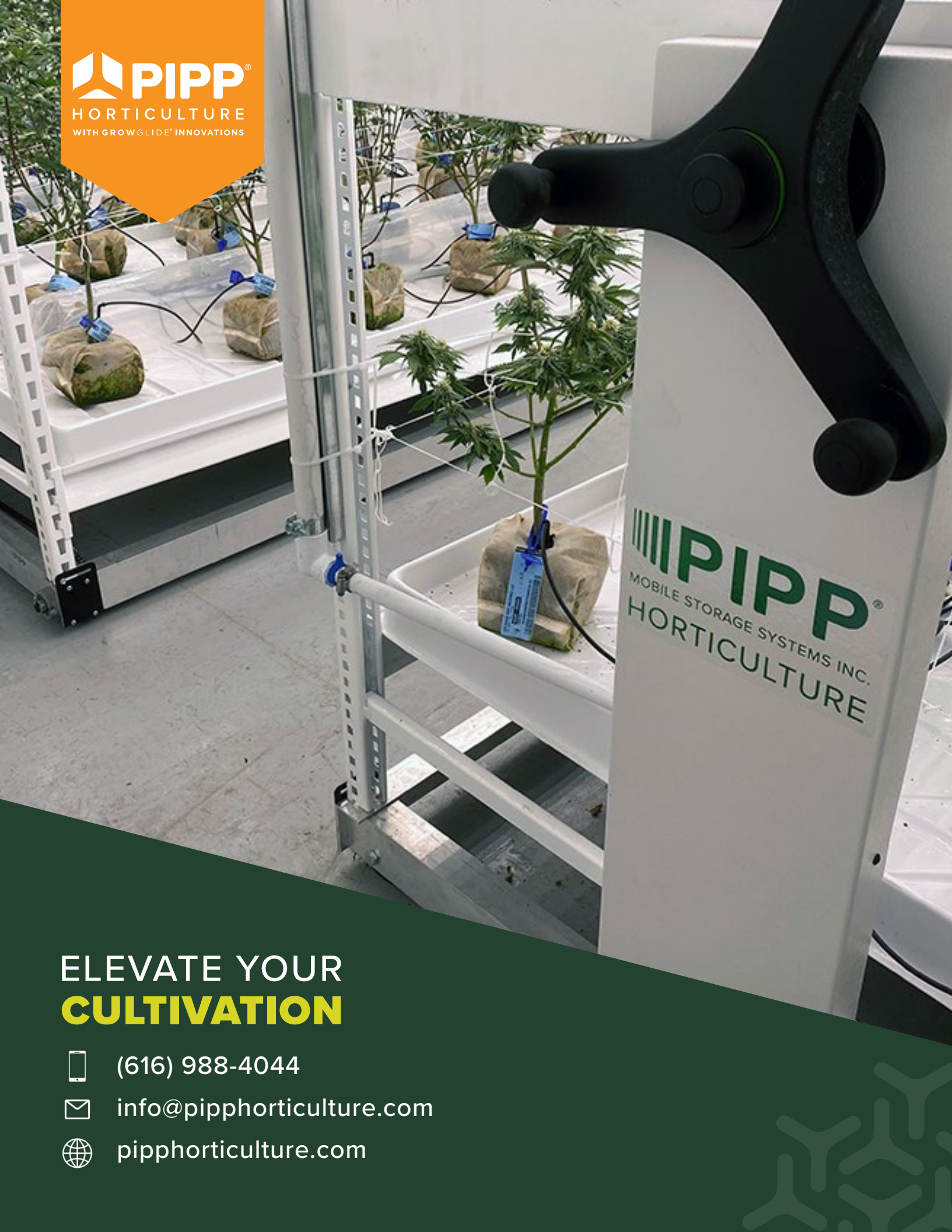
Ideally, yes. We have different requirements when installing TRAK-FREE™ that contractors will need to be aware of.

- Floor level to within ¼" over 10' in any direction; max variance of the entire carriage room ( $\pm 1/2$ "). Variations to this require engineering approval.
- If trench drains are used, they and any feathering/lead-in will need to be a minimum of 24" from our guide track or wheel channels (under each upright).

## **I already have a tracked system installed. Can I change my system to a TRAK-FREE™ system easily?**

Unfortunately, no. Changing from tracked to TRAK-FREE™ is not practical and would require a full tear down and rebuild with trays, racking, rack-mounted accessories, carriages, and tracks. We are happy to evaluate and quote this conversion if needed.





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