The NIPPER is a compact AGV for unmanned internal pallet transportation.

Fully safe, the Nipper works in spaces where people are active. The answer to the many pallet movements in your business process. Automation of human trafficking reduces labour costs and reduces damage. After installation and training, you are independently able to program the Nipper. Customize routes, add Nippers, and easily change existing commands with intelligent software.

Enjoy flexibility and control over your own automation process. The Nipper uses structures and contours in his work environment as a reference for localization. This means that no infrastructure is required. No inductive wires, magnets or reflectors. If positioning is of importance, the Nipper increases the accuracy of +/- 1cm to +/- 1mm by placing simple reflectors.

Intelligent software communicates over wifi with the Nipper. After a command is taken, the Nipper performs this independently. The battery management system provides a charging time of only 10 minutes, after which the Nipper operates 8 hours full-time. The Nipper has a speed of 2 km per hour, (optional 4 km / h) and lifting is done electro-hydraulically.

More information about the Nipper? Contact us at info@f3design.nl or look at our website!

- Safe in manned spaces
- Most compact pallet AGV
- Self-programming
- Navigation without infrastructure
- 10 minutes loading = 8 hours operation
- Automatic loading process
- Communication over Wi-Fi
Technical specifications

Weight: 120kg
Load capacity: 1000kg
Safety: Laser scanner with integrated security zones
Navigation: Freely programmable based on structures and contours in the work environment
Driving speed: 2km/h standard (optional 4km/h)
Management: On board battery management system (BMS)
Charging station: Fully automatic loading without manual operation
Charging time: 10 minutes
Battery: Voltage: 24V
Chemistry: LiFePO4
Battery capacity: 50Ah
Turn circle: The Nipper turns around its own axis
Certification: CE marking