SLIP ROBOTICS | NISSAN

# HOW NISSAN MADE MATERIAL FLOW FAST AND PREDICTABLE

**Imagine reducing your truck loading and unloading times from 45 minutes to just 5.**

Nissan operates high-velocity manufacturing environments where material must move from warehouse to line without delay or disruption. At its Mississippi facility, dock operations play a critical role in maintaining production flow, ensuring parts arrive exactly when needed to support continuous manufacturing.

By introducing autonomous loading at the dock, Nissan created a faster, more predictable connection between inbound logistics and the production line. Material moves consistently, trailers turn quickly, and dock activity no longer dictates production tempo—allowing teams to focus on output instead of logistics friction.







## KEY RESULTS

### 9X Faster Loading & Unloading

Consistent, faster speed unblocked the dock & unlocked new material flows

### 50% Less Product Moves

Fewer overall product touches resulted in less forklift traffic around the dock

### Zero Forklifts in Trailers

Enhanced safety at the dock and optimized labor utilization

## CHALLENGE

Nissan's dock operations relied on manual loading and unloading processes that were time-intensive and difficult to scale. Trailers often spent extended periods at the dock, increasing driver dwell time and introducing variability into inbound logistics.

With high expectations around schedule adherence and material flow, long load and unload cycles created friction that impacted both transportation efficiency and dock utilization.

## SOLUTION

Nissan deployed 9 SlipBots to automate trailer loading and unloading across multiple facilities. Freight is staged directly onto SlipBots at the dock, allowing robots to autonomously enter and exit trailers without forklifts or manual handling inside the trailer. SlipBots compressed trailer turn times from 45 minutes to just 5 minutes, dramatically reducing dwell time and keeping inbound and outbound flows predictable.

## BENEFITS

- **Flexibility:** SlipBots enable operations to change flows any given time on any day
- **Rapid ROI:** The investment in SlipBots paid off in less than a year.
- **Ease of Use:** Deployment & training in days enabled immediate use week one
- **Hassle-Free Operations:** Maintenance & ongoing updates are included in RaaS model





**SlipBots made our loading process much easier. We reduced offloading time from 45 minutes to 5, which saves us both time and money every day.**

Supply Chain Manager