



# Your secret ingredient for material handling success.

Refine your intralogistics recipe  
with AGVs and AMRs to bake  
in results.



# Efficient material handling **is served!**

In food and beverage production, the pressure's on. Like a gourmet chef, you must deliver excellence at scale, every time – and for you, that means serving up a seamless material handling process.

To boost production efficiency, address skills shortages, and operate successfully within tight margins, there's one ingredient that can transform a good serving into a 'show-stopping dish': the automation of your material transports with AGVs and AMRs.

**At BlueBotics, we understand you have a lot on your plate.**

So, while you're already serving quality – now is the time to refine that material handling recipe, and add in all the elements you need for confident scalability, balance, safety, and more.

'ANT driven' automated guided vehicles (AGVs) and autonomous mobile robots (AMRs) – meaning vehicles driven and managed by BlueBotics' market-leading ANT technology – are designed to help you do just that.

When ANT driven solutions are baked into your material handling, you can achieve:

- **Simplicity.** Control every element, with a vehicle fleet that operates on one central management platform – for smooth consistency.
- **Robustness.** Like a favorite family recipe, ANT driven solutions are refined; based on 24 years of autonomous navigation experience, and proven in the most demanding industrial settings.
- **Interoperability.** Changing needs? No problem. Just as a chef adapts a recipe to a specific diner's needs, with ANT you can deploy the exact custom fleet of interoperable vehicles you need, at every site, as required.

To cook up a true material handling treat, read on to explore how you can elevate your internal logistics with ANT.

Bon appetit!

*Raphael Verove*

Raphael Verove  
*Your ANT driven expert*

# Material handling excellence, baked in

What elements does a good material handling process need?

And how can your secret ingredient – ANT driven AGVs and AMRs – bring those flavors to life?

Let's explore how to bring out the best in your intralogistics.

Remember, you may already have many of these ingredients folded into your internal logistics mix. But, with ANT driven robotics, you'll have the adaptability to serve a truly successful dish – a solution that scales.

A winning material handling operation must:



## Maximize efficiency

Orders have deadlines. Trucks won't wait. And your products might also be perishable. AGVs solve this by ensuring your ingredients, packaging and finished goods are where they should be, on time, every time.



## Ensure simplicity

For a perfectly prepared and plated dish, effective kitchen management is everything. The same is true of material handling. If you're managing different brands of AGV and AMR, with different fleet managers, this can be a recipe for disaster. That's why Bluebotics' ANT driven vehicles (which are natively interoperable, and managed by a single fleet manager) are the answer.



## Be proven

To create consistent flavor time and time again, you need the highest quality ingredients from a trusted supplier. In material handling, this means automated vehicles that are proven to perform, repeatedly, in real-world operations. ANT driven vehicles are based on over 24 years of industrial experience, with 6,000+ systems already in operation at more than 2,000 installations around the globe.



## Be adaptable

Whether it's transporting pallets of finished goods, connecting conveyors, or bringing raw materials from a separate building, every business has unique requirements. This is why you need to find the perfect blend of spice for your automation program – maybe a splash of automated pallet trucks here, a pinch of override AMRs there. Today, there are more than 150 ANT driven vehicles available, most of which can be managed together in a single connected fleet.





### Overcome skills shortages

Finding and keeping the right material handling staff (such as forklift drivers) is difficult, so it's important not to waste the resources you currently have. When you've got high-quality staff, you don't just dice it for a pie! So, why not complete your internal transport tasks with automated vehicles, and use your existing employees to their full potential on more high-value tasks? This is how you truly serve up success.



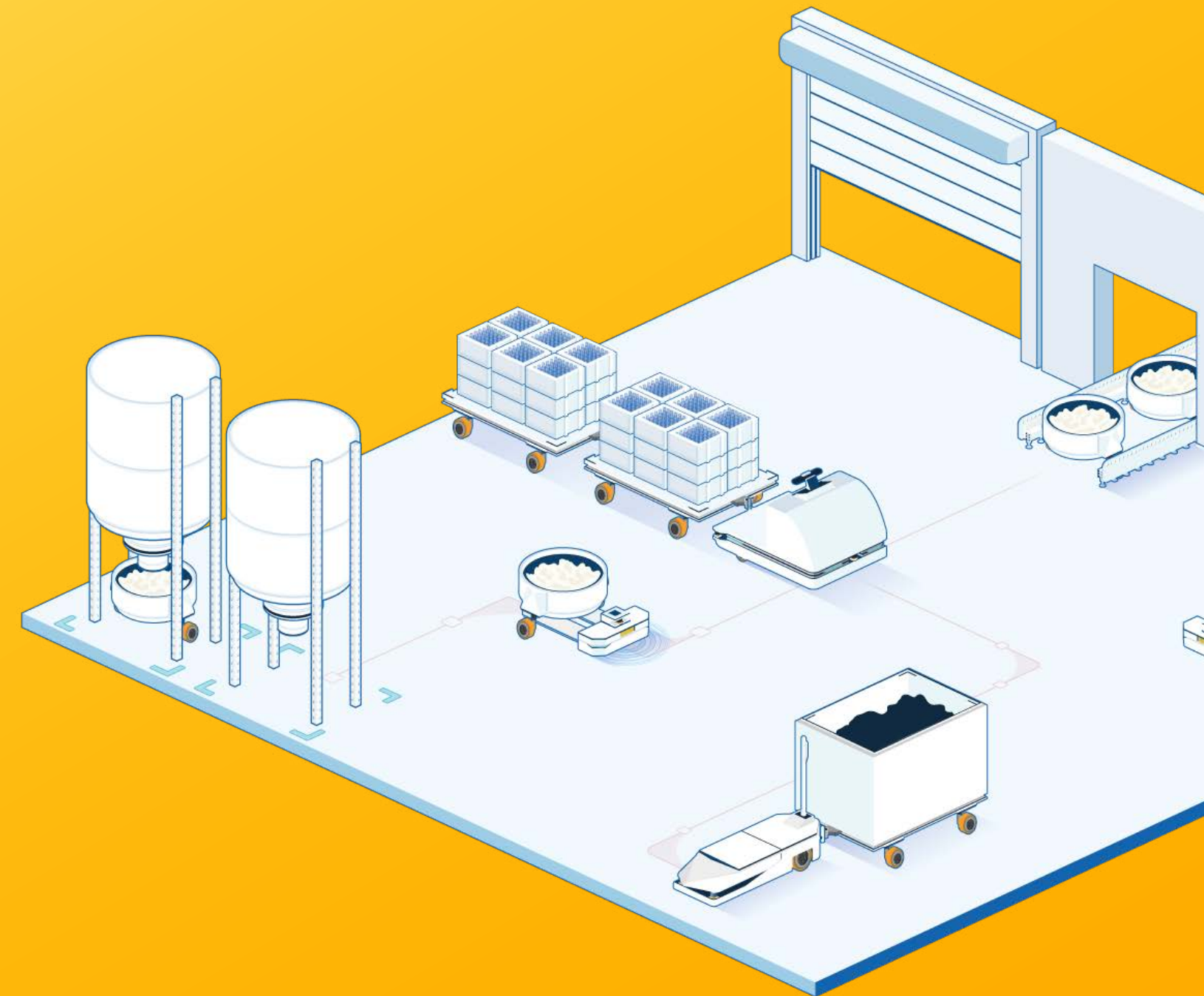
### Boost productivity

Imagine you're preparing the perfect meal, but your sous chef falls and breaks your serving platter on the busiest day of the year; this could mean your goose is cooked! Now, imagine a world where illness, holidays and motivation don't matter, and your productivity remains always at 100%. This trusted reliability is exactly what you get when you opt for ANT driven AGVs and AMRs.



### Embed food safety & hygiene

For perfect, repeatable dishes you need smooth, seamless processes – and no surprises. The same goes for your material handling. If temperature-sensitive loads are dropped in the wrong area, or food debris accumulates unnoticed, this can result in food safety hazards, and surprises you don't need. The key ingredients required then are AGVs and AMRs plus our powerful ANT server fleet management platform – to provide the perfectly precise tracking of each vehicle's load, helping you to ensure food, ingredients, and your environment stay safe & hygienic.





# ANT driven AGVs and AMRs: Serve up efficiency again, and again... and again.

Proven, robust and adaptable, BlueBotics' ANT navigation software drives more than 150 models of AGV and AMR. Managed centrally, with ANT server fleet manager, ANT driven automated vehicles work together seamlessly – so you can create and scale the exact interoperable fleet your operations require.

Like a favorite recipe, we've served up excellence across even the most demanding industrial settings.

Make ANT your founding material handling flavor and succeed, with:

## A proven solution

- 24+ years' real industry experience
- 6,000+ AGVs and AMRs in operation
- 150+ models of ANT driven AGV/AMR

## Interoperability – for true versatility

- 100+ interoperable vehicles, 1 ANT server fleet manager
- VDA 5050 compatibility for further flexibility
- API integration with WMS/MES/ERP

## Robustness

- Accurate to  $\pm 1$  cm /  $\pm 1^\circ$  both indoors and outdoors
- Unaffected by environmental changes

## Simplicity

- 'Map once' natural feature navigation, for repeatable performance, every time
- Minimal infrastructure changes required
- Quick to install and modify vehicle fleets





# Onion optimization: Taking the next step in process automation with AGVs

After more than half a century in business, TOP The Onion Group took the next step in its automation program by equipping its flagship facility in The Netherlands with three Rhino counterbalanced AGVs. These automated guided vehicles have taken on heavy, repetitive work and run up to 200 missions a day alongside human colleagues.

The AGVs work a loop in the outbound halls. They pick up loads from the output conveyors of one of nine palletizers, depositing these pallets in one of several outbound staging lanes, ready to be loaded manually onto trucks, before finally heading back to their charging stations.

In effect, the AGVs take on the grunt work of moving pallets from palletizer to docking lanes, creating a buffer of orders arranged for optimal loading. This dull, repetitive work is perfectly suited to mobile robots.

## Results

- No more mixed-up orders due to human error
- Less damage to conveyors and goods
- On-site installation of Rhino AGVs took just three days
- ANT server's built-in Simulation tool allowed the TOP team to work with a digital twin of the space – to plot the best routes, without impacting real-world operations
- Since the installation of TOP's AGVs in 2021, 2022 and 2023, the system has been running continuously, with no major changes required to the process
- The AGVs keep a constant pace, while a person would be more likely to make mistakes under pressure
- The TOP team plans to expand their automated vehicle fleet further in the coming year



# Let's identify your own recipe for success

Ready to bring out that ANT driven flavor and make automation with AGVs and AMRs a reality?

We're here to help you identify your perfect material handling recipe.

**Together, we can help you:**

- Scale production
- Remain efficient and agile
- Maximize productivity
- Combat skills shortages
- Ensure food safety & hygiene

Ready to progress with the secret ingredient of ANT driven AGVs and AMRs, but still have questions? Our experts are ready to help.

