

**MOLENAAR**



**MATERIALS HANDLING**

Product Catalogue



## MOLENAAR Materials Handling

Molenaar has engineered palletizing and de-palletizing systems for more than 50 years. Our philosophy is to follow the container throughout the packaging process with innovations driven by the diverse requirements of global markets. Chiefly, integrating with our technology partners requires reliable materials handling solutions. That is why we manufacture flexible conveyor designs for pallet-to-pallet product transportation to ensure we connect the dots dependably.

Our standard AGILE range of Materials Handling equipment, namely Compact, Prime and Plus, operate in medium to high-speed lines.

# **AGILE** COMPACT

## CONVENTIONAL

Our AGILE COMPACT range is our familiar, robust high-end equipment scaled for the craft brewers, wineries and similar industries. This system is engineered for dependable uptime, being easy to commission and operate.

The de-palletizer features a compact footprint, which leverages the experience we have in creating de-palletizing systems to meet a wider range of speed requirements. It uses traditional sweep technology scaled from our dependable AGILE PRIME range. The solution also benefits from our conveying systems that have proved operationally effective and reliable. They work in unison with accumulation that is designed to promote unencumbered efficiency throughout the line.

Craft producers benefit from our trademark reliability, robust industry experience and preferential value-to-cost proposition.

Industry	Operating Modes	Type	Container Type	Layers Per Minute
Beverage   Food	Semi-Automatic	Layer	Cans	1



# DE-PALLETIZING

For the wine and craft beer industry





We have been innovating dependable materials handling for practical and pragmatic solutions that get the job done right for more than 50 years. Our standalone and complete lines have dependably delivered exceptional results for the rigorous needs of this market with simple to use and easy to maintain systems. The limited spares inventory requirements also reduce overheads and complexities for simpler, cleaner operations.

Our AGILE PRIME range includes Conventional, Magnetic and Robotic.

## DE-PALLETIZING & PALLETIZING

## CONVENTIONAL

AGILE PRIME Conventional uses traditional technology for palletizing and de-palletizing. The range leverages a standard design that promotes reliable service from tried and tested equipment. Molenaar developed deep skills and capable machines, engineered for proven reliability even when handling lightweight cans at various speeds. We complement the equipment with technical support that benefits from direct integration with our engineering design and factory fabrication specialists to provide world-class after-sales support.

Industry	Operating Modes	Type	Container Type	Layers Per Minute
Food   Beverage   Non-Food	Automatic	Layer	Metal   Glass   Plastic	2

## MAGNETIC

AGILE PRIME Magnetic leverages our experience in meeting the needs of the conventional technology market. Careful, sustained innovation throughout the development cycle has enabled us to create capable solutions that require limited interventions. We swiftly and accurately move layers of steel cans and glass jars with steel lids from the pallet into the production line. Our engineers have applied their experience in the use of rare earth magnets supplied by GoudSmit. These magnetic heads operate independently, uninterrupted even in the event of unstable electricity. The system is suitable to handle a range of steel cans including round, square and oval containers.

Industry	Operating Modes	Type	Container Type	Layers Per Minute
Food   Beverage   Non-Food	Automatic	Magnetic	Steel Containers   Glass containers with steel lids	2

## ROBOTIC

AGILE PRIME Robotic uses market leading robotic systems to provide sophisticated equipment that is exceptionally simple to operate. It withstands the rigours of the real-world and our interfaces are designed to minimise operator intervention. The system amplifies operational flexibility and delivers dependable speed and efficiency with up to 6 axes of control. We design and integrate our gripper systems to operate with minimal maintenance providing a low total cost of ownership. Our solutions support a variety of pack sizes and pack patterns, delivering the same reliability associated with HG Molenaar.

Industry	Operating Modes	Type	Container Type	Layers Per Minute
Food   Beverage   Non-Food	Automatic	Robotic	Metal   Glass   Plastic	Various*

\*Application Specific



HG Molenaar has supplied high-speed materials handling systems across the food and beverage industries globally. AGILE PLUS confirms our strong position in this market, allowing Molenaar to assist our customers with high volume requirements.



**DE-PALLETIZING &  
PALLETIZING**



## CONVENTIONAL

The operational efficiency of AGILE PLUS Conventional high-speed lines, delivers advanced capabilities to ensure smooth uninterrupted service that continuously provides optimum performance. Our automatic pallet handling design is a standard feature that augments the speed and cost competitiveness of the design while being modular, and providing flexible options to maximise efficiencies.

Industry	Operating Modes	Type	Container Type	Layers Per Minute
Food   Beverage   Non-Food	Automatic	Layer	Metal   Glass   Plastic	4+



## MAGNETIC

Clients of our AGILE PLUS Magnetic system benefit from our strong engineering background, ensuring that the high-speed magnetic system handles both empty and full containers. The advanced engineering in our system secures positive pickup, and the uniquely rapid acting pneumatic mechanism ensures smooth, accurate release to place a container. The palletiser's swift and dependable operation allows optimal product throughput reducing downtime. Molenaar's exceptional service assures your equipment is maintained to a very high standard, thereby ensuring that we can add value to your overall operational efficiency.

Industry	Operating Modes	Type	Container Type	Layers Per Minute
Food   Beverage   Non-Food	Automatic	Magnetic	Steel Containers   Glass containers with steel lids	4+

# CONVEYOR Systems

## Connecting the Dots

Conveying systems crucially connect effective accumulation, single filling and bulk handling to maintain overall line efficiency. Consequently, we pay attention to a number of essential aspects in this complex activity.

As part of our product line we offer conveying systems from product conveying and case handling to fully automated pallet conveying systems.

These conveyors are the crucial element that underscores a highly effective, optimised and efficient line. We partner with a technology leader that enables us to use pneumatically-activated roller belt technology in conveying applications where required.

The conveyers are designed, manufactured and installed based on best practices that meet all the necessary regulations. In addition, our conveyor solutions are reliable and robust in very demanding environments, retaining corrosion-resistant surfaces and promoting cleaning and inspection, with excellent safety practices.





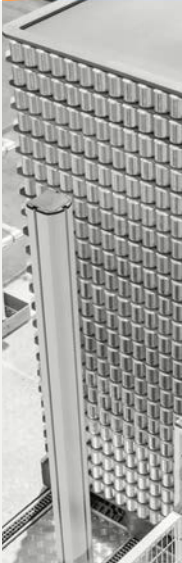




Follow the **CONTAINER**

Complete Line Integration

De-Palletizing



Bottle Unscrambling



Filling



Capping



Seaming



Thermal Processing



# PROJECT Management

From inception to sign-off, projects undertaken are managed and monitored by our Project Management Team. Battery limits are clearly defined throughout, and the customer is kept abreast of developments and progress assuring certainty on where responsibilities begin and end.

The Project Team relies on the expertise and direct support from our Engineering Department. HG Molenaar boasts a highly competent team consisting of Draughtsmen, Plant and System Engineers and Controller Programmers.

Project management **unites** all Molenaar activities to create a **single interface** for our customers.





**Product Inspection**



**Sleeving**



**Labelling**



**End-of-Line Packaging**



**Palletizing**



**Lead Team**  
Project Management

**“Think Service Excellence”**

**MOLENAAR**



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