

# GENI-Hive

The technological platform for applications requiring complex handling functions



## The solution to leverage efficiency in processing your material flow

- High throughput and system uptime
- Top flexibility
- Modularity and scalability
- Redundancy and easy maintenance

# The ultimate high-performance handler bringing your automation to the next level in inbound and outbound operation.

Fives arranges the GENI-Hive technology in **multiple configurations to suit different functional needs**, such as items alignment, merging, sorting, rotation, singulation and more.

## HIGH THROUGHPUT AND SYSTEM UPTIME

The GENI-Hive uses an **accurate software control** that enables a small gap between items, leading to a high-throughput rate.

The **GENI-Hive is the only available technology with totally independent wheel units** in terms of speed, acceleration and direction resulting in utmost system uptime.

## MODULARITY AND SCALABILITY

Modularity is a distinctive feature of the GENI-Hive technology: **all wheels are identical and can be placed or swapped as per what needed**.

It gives Fives the ability to design a scalable solution that successfully copes even with limited available footprint.

## TOP FLEXIBILITY

A small pitch between wheels and wheels modularity are the key factors enabling a high degree of flexibility in solution design.

Implementation of GENI-Hive technology leads to a solution that allows **handling of different items regardless their dimension, shape and nature**.

## REDUNDANCY AND EASY MAINTENANCE

The software control, the core part of GENI-Hive technology, keeps the machinery running with even some wheels not working guaranteeing a **fault-tolerant system**.

Each wheel is plug & play, making possible for low skilled technicians to **quickly and easily replace the unit**.

### SINGULATION CONFIGURATION

The application automatically transforms an incoming bulk flow into a single line of items, increasing the overall operational efficiency of the inbound shift.

High-density of wheels units handles the extremely packed incoming flow reaching a predictable singulation quality in any operational scenario.

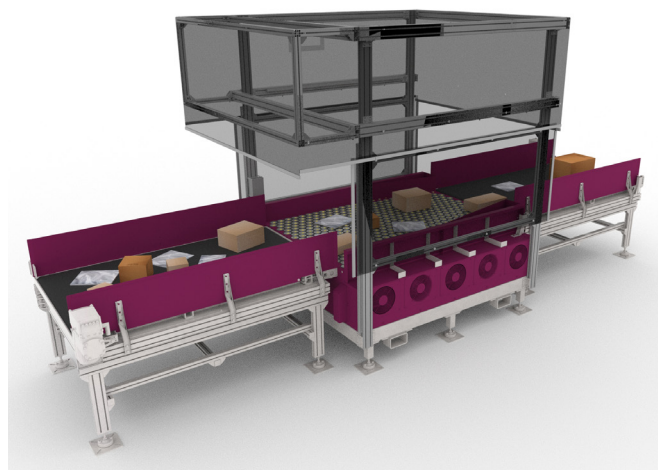
#### Technical features

Min items size (LxWxH)	100 x 100 x 1 mm
Item weight	1 kg per each wheel
Availability	up to 99.9%
Sensor	Camera driven control

### CROSSER FLOW CONFIGURATION

The application rearranges a multiple flow of items at the same time, performing merging from multiple inputs and sorting towards multiple outputs.

The shape barrier, the main control sensor, shortens software control reaction time, maximizing the throughput performances.



Example of singulation configuration

*The information provided in this document reflects precise designed specifications. Please contact us for customized requests.*

## CONTACT

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