

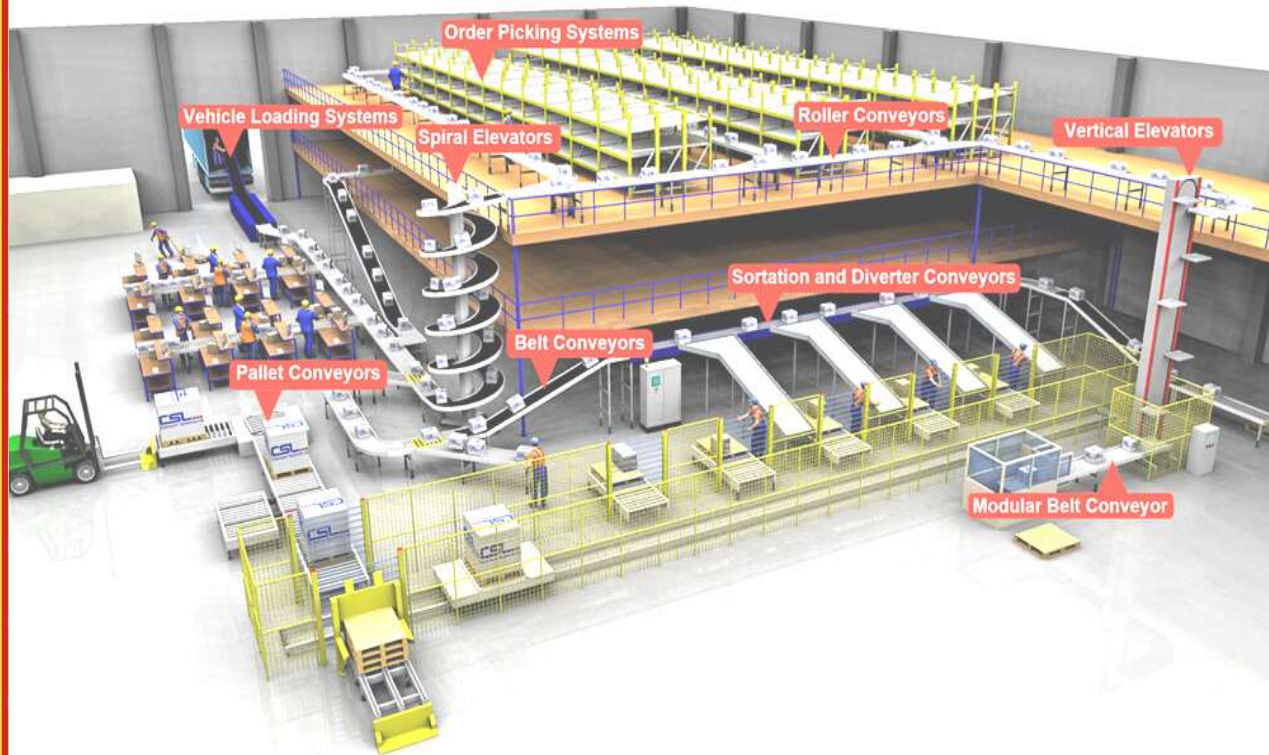


MAKIMATECH



MAKI GROUP JAPAN

BUSINESS PROFILE



**YOUR Material Handling
Industrial Automation
Intralogistics
SOLUTION PROVIDER**



perfect combination of tensile strength and flexibility; character of moral integrity, modesty and loyalty

Design

Development

Systems
Integration

Production
& Service

Market



AN INTRODUCTION

From humble beginnings as a repair and maintenance company for textile and agriculture machines; Maki Kogyosho was founded by Mr. Masao Maki in 1922. This was followed in 1946 by the establishment of a manufacturing plant for textile and agriculture machines.

In 1961 Maki Kogyosho was restructured and incorporated as Maki Kogyo Co., Ltd. Maki Kogyo Co., Ltd. was renamed Maki Tech Co., Ltd, Japan in 1987. By now we were fulfilling demands from mining, agriculture and industrial sectors. This was immediately followed by our involvement in materials handling equipment, factory automation and system integration.

Maki Tech Co., Ltd. set up its first overseas joint venture in 1989 with Modern Handling Equipment Pte. Ltd, Singapore. Together they established MakiTech Manufacturing Sdn. Bhd. and MakiTech Engineering Sdn. Bhd. in Malaysia.

Our Focus have always been on the design, fabrication, installation and commissioning of a wide range of materials handling and automation systems. With our rich history and experience in systems repair and maintenance, in 1995 we introduced “System Maintenance, Repair and Shifting Services” enabling customers to maximize productivity with minimum interruption to their day to day operation.

MakiTech Corporation Sdn. Bhd. was established in 1997 to be the sales and marketing arm for the MakiTech Group of Companies. Since our inception, we have moved beyond the domestic market, venturing overseas to better serve both existing and new customers with regional facilities.

By 2000, we succeeded in establishing our presence in the industry as the preferred and trusted partner and provider of standard and custom-design systems.

As part of our commitment to offer competitively priced solutions and value added products to our customers, Foshan MakiTech Co., Ltd. China was established in 2005. This strategy has significantly increased our flexibility in meeting our customer’s stringent budget concerns, products requirements and needs.

Our passion for cutting edge solutions and applications have led us to form partnership with world class leaders in Materials Handling, Industrial Automation and Intralogistics, creating complete solutions to make our customers more productive and successful.

We continuously seek new ways to improve our processes and technologies which translate into faster turn-around and delivery of services and products, ensuring quality and reliability while providing competitive pricing to our customers.

We understand the importance of trust and dependability, the ability to deliver on time. With our extensive resources and broad experience, we are confident of meeting the most stringent requirements placed by our customers. No matter what your product or application may be, we believe we have the experience and solutions to meet the challenge.

Customer Satisfaction - an integral part of our business philosophy.

CONVEYOR SYSTEM

1) Driven Roller & Chain Series



Chain Wire Mesh

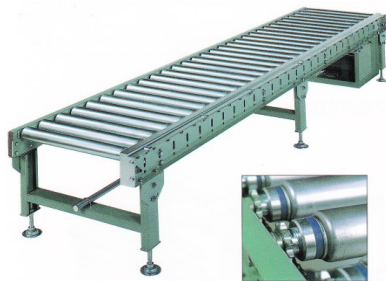


Drive Roller



Driven Chain

2) Accumulation Roller Series <minimum / zero pressure>



Clutch Roller



Polycord Roller



Fly Belt Roller

3) Power Roller Conveyor <motorized roller>



Polyvee Roller



Accordion Roller



V-Grove Roller

4) Belt Series



PVC Belt



TRT Belt



Flat Modular Belt

CONVEYOR SYSTEM

5) Gravity Roller Series



Free Roller



Accordion Roller



Spiral Roller

6) System



Ball Transfer Table



Pallet Dispenser



Turn Table



Modula



Knap

MATERIAL HANDLING EQUIPMENT



Boltless Shelving



Stacktainer



Mesh Pallet



Box Cargo



Mobile Loading Ramp



Hand Trolley



Hand Pallet Truck



Manual Stacker



Table Lifter



Dock Leveler

EXTRACT OF PROJECTS



Medication Dispensary Systems



Oil & Gas Process Systems



Filling Process Systems



Treatment Process Systems



Manufacturing Process Systems



Transfer Process Systems



Multilevel Distribution Systems



Packing Process Systems



Robotics Palletizing Systems



Selective Racking Systems



Warehouse Distribution Systems



Warehouse Distribution Systems

Quick Die & Mold Change System

Quick Die & Mould Change System : customized design to cater for difference application and usage



Quick Die / Mold Changing System for Injection Machine

M Q M C

Injection Machine 850 tonnes
Mould Load Capacity : 15 tonnes.
Feature : Double moulds mount
Operation : Track / Rail



Quick Die / Mold Changing System for Sheet Metal Press

M Q M C

Stamping Machine : 200 tonnes
Die Load Capacity : 3 tonnes
Feature : Double Dies mount
(Vertical travel die deck)
Operation : Control Cable

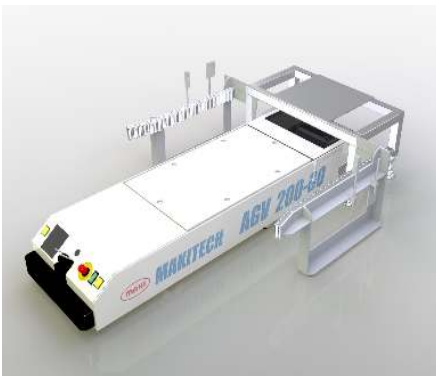


Quick Die / Mold Changing System for Hot Forging

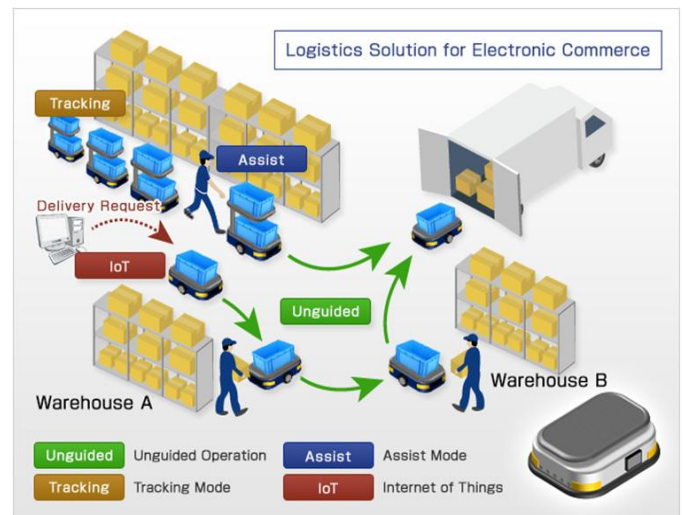
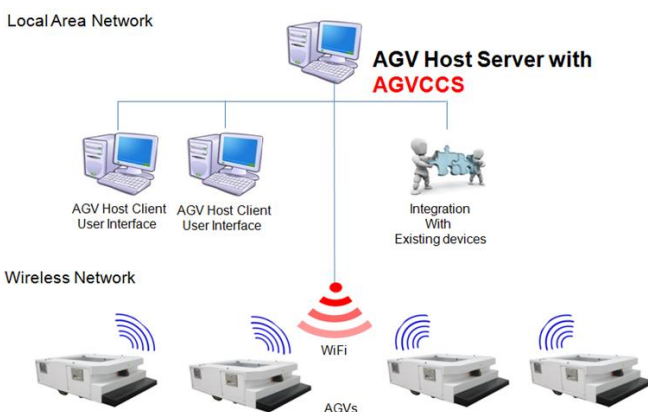
M Q M C

Hot Forging Machine
Mould Load Capacity : 20 tonnes
Feature : Turn-Table Orientation
Operation : Control Cable

Automated Guided Vehicle (AGV) System



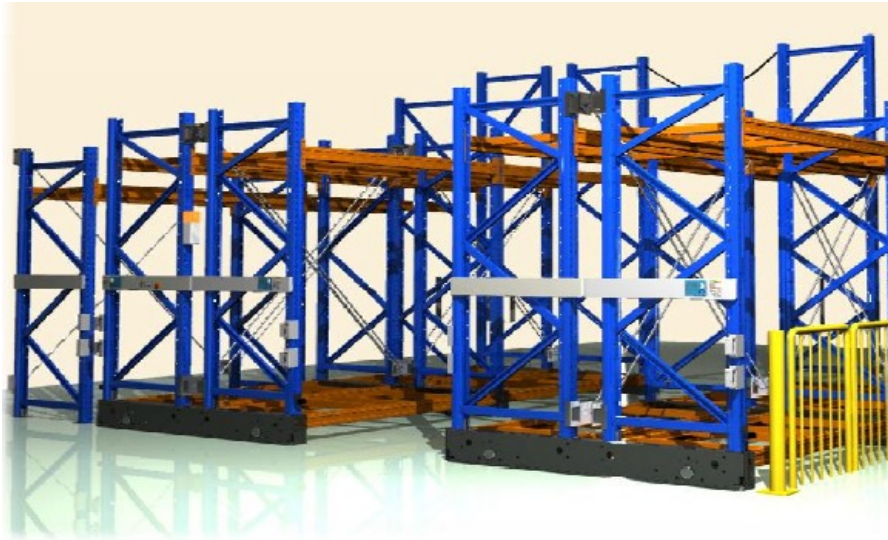
AGV Capacity : 500kgs / 1000kgs



SHELVING & RACKING SYSTEM

Aisle Saver System

1) Aisle Saver Pallet (ASP)

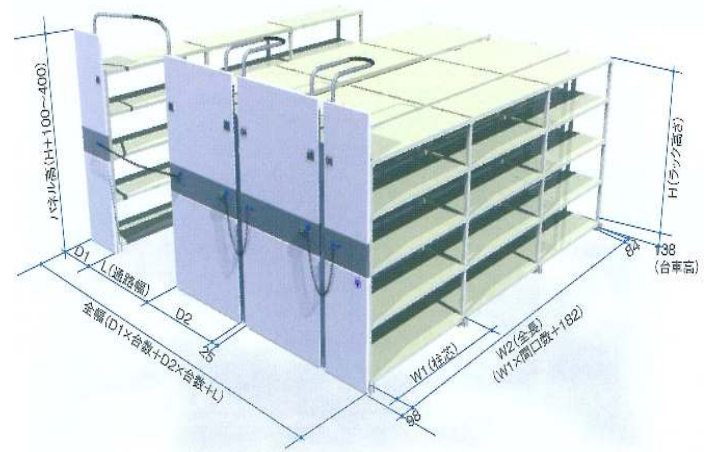


AISLE SAVER SPEC

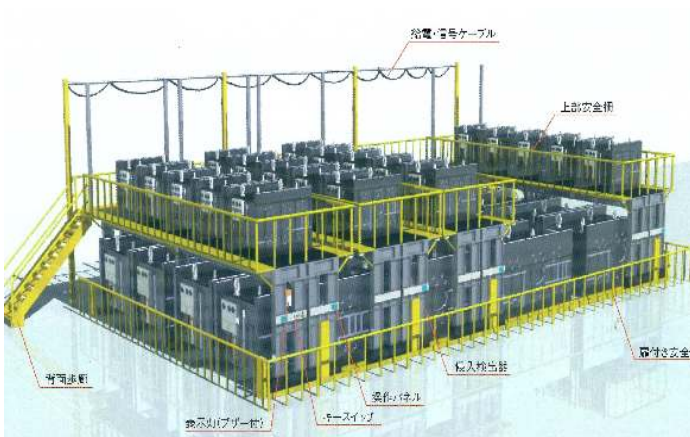
- RACK**
- 2500W*1000D*2500H With two stages
- ELECTRIC TROLLEY**
- Two wheels, Two frontage, Two truck



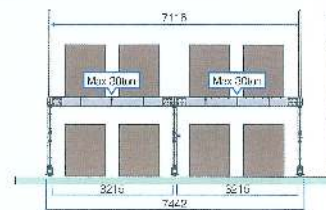
2) Aisle Saver Cage (ASC)



3) Aisle Saver Load (ASL)



正面図



側面図



Selective Racking & Mezzanine Floor



ACCESSORIES



* Picture for illustration only*



ACF is superior to other solutions

	Force control	Bead spring	ACF
Compensation of tolerance / abrasion	✓	○	✓
Process quality control	✓	✗	✓
Starting up time	✓	✗	✓
Programming effort at change of work piece	○	✗	✓
Passive safety (Robustness)	✗	✓	✓
System cost	✗	○	✓

Our ACF technology instantly automates jobs with a high demand for sensitivity and flexibility. It Guarantees extremely short cycle times and radial economic ROI, even with delicate applications. The ACF automates problematic handcraft and guarantee high standards of quality. It controls every robot. This even makes retrofitting unbelievably easy and persuasive.

Surface Treatment:

Sand, strip, burrs, polish, clean, laminate, remove

All Materials:

Steel, aluminium, titanium, magnesium, carbon, plastic, wood, ceramic, coconut fibers..

Contact – sensitive handling:

Assemble, tape. Pack, insert, stacking, join, test, handling,....and many more



Active Contact Flange

- Defined force
 - Position tolerance
 - Contact information
- Robot**
- Provides speed
 - Provides accuracy



Constant force...

...in any position

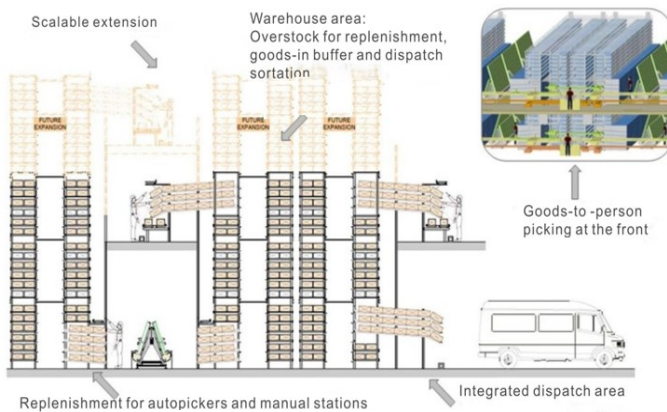
KNAPP → Making complexity SIMPLE

~ The Faces of Intralogistics

Extract Product Portfolio



Warehouse System



Low Complexity Warehouse



SDA 2007 A-Frame



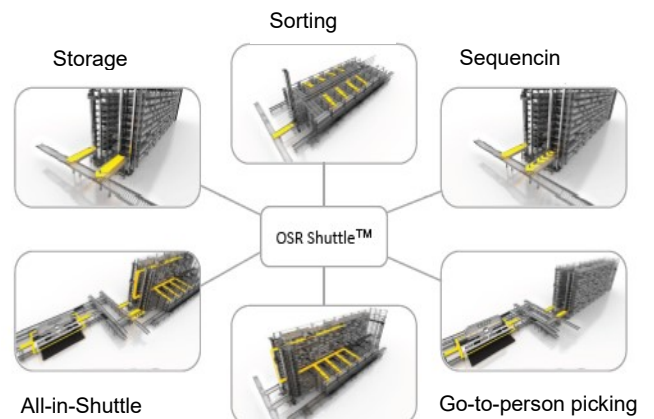
Workstation



KiSoft Vision central Belt

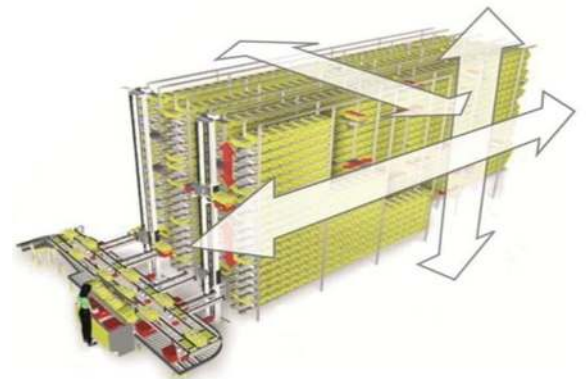


Open Shuttles



Overstock / Replenishment

OSR Shuttle



Scalable System



Scalable System – Scalable Investment



Robo-pick



OSR Shuttle

MODULA STORAGE SYSTEM

More Modula, More Space Saving



You can improve your warehouse one step at the time. The MODULA Sintes1 VLM is able to be integrated as a part of a large multiple unit system and be implemented over several stage to best suit your needs.

Several MODULA Sintes1 unit are to be managed by only one operator. Through the user friendly Copilot operator interface productivity is able to be improved by managing multiple unit systems for either picking or replenishment operations by synchronizing operations to achieve maximum efficiency.



1 External delivery dual tray: increased productivity with the Continuous Picking feature



2 Sliding Console (option): ergonomic and productive support to the operator for intensive storing and retrieving operations



Local Projects :-



Regional Projects :-



MAKITECH

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Member of MAKI GROUP JAPAN

Malaysia & Associates.

MakiTech Corporation Sdn. Bhd.

MakiTech Sdn. Bhd.

Tham Resources Sdn. Bhd. (Malaysia)

Maki-Sutee. Co., Ltd. (Thailand)

Japan.

Maki Tech Co., Ltd.

Maki Tech Service Co., Ltd.

Maki Suncome Co., Ltd.

Wellness Shimanto Co., Ltd.

Chikara – Mochi Hanpo Co., Ltd.

Oversea & Associates.

Makitech Vietnam Co.Ltd

Maki Tech Co., Ltd. (Taiwan)

China.

Wuxi Maki Machinery Co., Ltd.

Wuxi Maki Logistics Equipment Co., Ltd.

Wuxi Maki – Zhenyong Conveyor Co., Ltd.

Danyang Maki Lifetech Co., Ltd.

Fuzhou Maki Manufacture & Trading Co., Ltd.

Foshan MakiTech Co.,Ltd.

Broadwatch Shanghai Co., Ltd.

YOUR BUSSINESS SOLUTIONS PARTNER

We reserve the absolute right to remodel and change the specifications without notice due the continuous upgrade developments done on our products. All dimensions, data and drawings show in this catalogue are for reference only.