

INTRA-LOGISTICS SYSTEM INTEGRATORS



INNOVATIVE IDEAS
FLEXIBLE SYSTEMS
SOUND TECHNOLOGY

COMPANY PROFILE



COMPANY DETAILS

STORAGE MANAGEMENT SYSTEMS (PTY) LTD

Head Office

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South Africa

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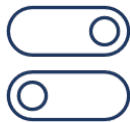
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Solutions Design
& Engineering



Material Handling
Systems



Client Lifecycle
Management



Automation

VISION

We aim to be known as the leading Intra-logistics System & Technology provider, which adheres to world class standards. We provide flexible, modular integrated solutions. We want our clients to experience outstanding service, excellence, and satisfaction.

INTRA-LOGISTICS SYSTEM INTEGRATORS

MISSION

We are an innovative technology focused partner for our clients, committed to continuously deliver highest value.

Our business is automated storage, material handling and sortation for manufacturing, warehousing, and distribution in the global market. We are passionate innovators, tenacious in our execution, and strive towards sustainable growth in revenue and profitability.

OUTSOURCE YOUR RESPONSIBILITY

Storage Management Systems has all the resources necessary to offer turnkey contracts, completely inclusive of project management options.

SERVICES OFFERED

Expertise is available to analyse existing operations and propose system design options to meet immediate, short and long-term demands. We are therefore able to offer the following services and custom solutions:

- ¿ Feasibility studies
- ¿ Conceptual design
- ¿ Simulation modelling
- ¿ Software design
- ¿ Material handling equipment design
- ¿ Detailed proposals
- ¿ Manufacturing
- ¿ Installation
- ¿ Commissioning
- ¿ Operational training
- ¿ Technical & service support



TIMELINE

1983

Lasch Cranes
(Pty) Ltd

Primary business - Design
& manufacture of
overhead cranes &
systems

1989

Kardex Systems
(Pty) Ltd

Material Handling
Systems

2000

Storage Management
Systems (Pty) Ltd

Turn-key Intra-logistics System
Integration Solutions provider

Automation, Materials Handling &
Process Control Development

2010

Spacemaker
Systems, Inc. - USA

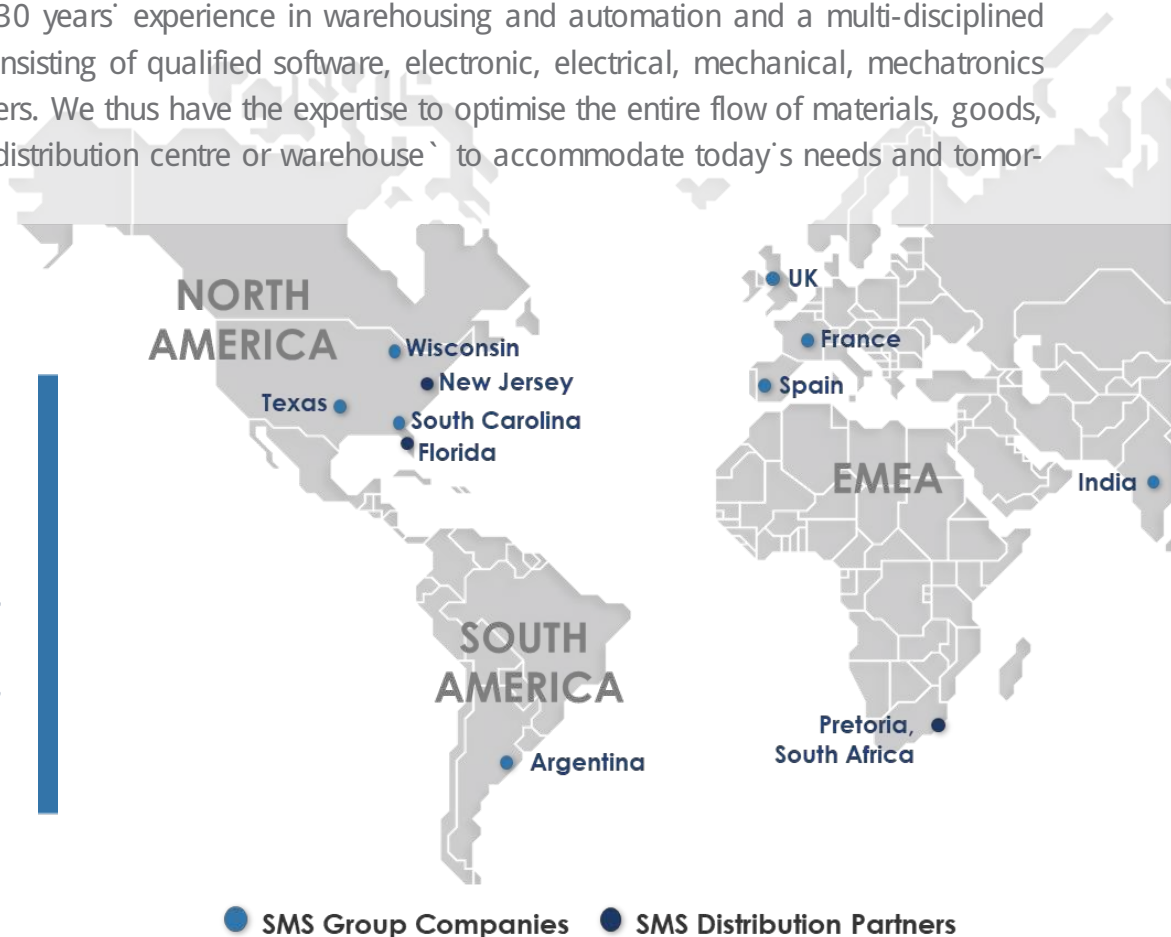
Affiliate of SMS

Marketing SMS solutions in
USA

OUR EXPERTISE

We have more than 30 years' experience in warehousing and automation and a multi-disciplined engineering team, consisting of qualified software, electronic, electrical, mechanical, mechatronics and industrial engineers. We thus have the expertise to optimise the entire flow of materials, goods, stock and parts of a distribution centre or warehouse to accommodate today's needs and tomorrow's growth.

Multiple
Distribution
Partners
500+ Clients
Globally



PARTNERSHIPS

VANRIET
MATERIAL HANDLING SYSTEMS

MHS

HANEL

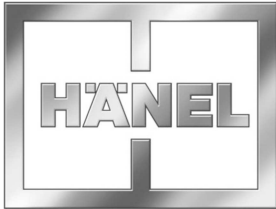
cassio
AUTOMATIC MATERIAL HANDLING

arracking

TW
LIVING LOGISTICS

STRATEGIC PARTNERSHIPS

With technology advancing at an unbelievable rate it is important to remain technologically proficient whilst also being cost effective. Thus, to achieve this goal, Storage Management Systems (Pty) Ltd have nurtured relationships internationally. We are constantly striving to be better than our competition and thus we firmly support creative, intelligent and economic systems, processes and products.



**Exclusive
Distributor
20+ years**

**High density vertical
storage solutions**



The Hanel organization, based in Germany, has grown into a world leader in automated goods storage and retrieval systems using the vertical carousel and lift concept. The Hanel brand has always been synonymous with innovation and never more so than today. Using proprietary computer-controlled inventory handling, Hanel leads the way in high density vertical storage in the international market place.

Hanel have shown their continuous commitment to continually meet the changing demands of the industry. This has made Hanel the world's number one vertical carousel and lift manufacturer. Throughout the world, Hanel has installed more vertical carousels and lifts than all other competing suppliers.

With more than 60 years of experience in designing and developing industrial automation equipment, Hanel produces systems with unequalled reliability, quality and technology.

It is in the light of the aforementioned that Storage Management Systems, specializing in the business of automated storage and retrieval systems, have acquired the sole distributive rights within Southern Africa for the complete range of Hanel products. We use their vast experience and compelling product range to complement our existing range of highly effective storage equipment. This gives us an exclusive edge over our competitors, allowing us to provide a widely-supported solution that they would have to engineer from first principles.



For over 65 years, VanRiet Material Handling Systems has focused on the design, integration, installation and maintenance of the best automated transport and sorting solutions. The business began as a family business and turned into a global systems integrator. VanRiet currently boasts over 2 000 realized projects, 200 employees and 4 global locations.

As a fast-growing company in a fast-changing market, their key constants are infinite flexibility and superior quality. Dynamism is their nature, delivering their game. VanRiet boast extensive experience and a strong focus on research and development. This has resulted in a unique, innovative, self-developed product portfolio.

VanRiet's preference for teamwork and a deeply engrained desire to realize the customer's goals, has supported them in the realization of many unique projects over the years. This is why we at Storage Management Systems have nurtured a durable relationship with such a strong partner.

VanRiet's intelligent material handling equipment is ideal for the courier express parcel market, the tire industry, e-Commerce and third-party logistics companies.



Our exclusive distribution agreement with one of the biggest racking and mobile base manufacturers in Spain, have ensured that we offer the best product and service to all existing and future clients.

The quality of the product AR Racking and Storage Management Systems offer to its customers, is based on the various quality control checks carried out in the quality management system in the different phases of the production and commercialization process of the structural steel product.

Our knowledge of quality steel led us to ARESTANT, S.A. (Spain). Storage Management Systems' extensive experience in the field, provides the necessary foreknowledge to choose the best grade steel for each system and AR Racking provides a vast range of products to choose from.

All the commercialized racking products, part of the range, are controlled on reception, construction and commission. This is done to verify the quality and features that affect the functionality of each individual element.



QUALITY CONTROL



As a proud member of the Chartered Logistics & Transport, we offer all products to the highest quality standards with integrated quality control instigated at all points of the supply chain to ensure the optimum end result for our clients.

Standards applying to some of our products:

- X ISO 9.001 (for quality management in products and services)
- X ISO 14.001 (for environment management in products and services)
- X OSHAS 18.001 (the internationally recognised British standard for occupational health and safety)

Racking and structural designs we supply, are compliant with the following standards:

- X EN 15512 (detailing the design principles for steel static storage systems)
- X EN 15620 (detailing the tolerances, deformations and clearances for steel static storage systems)
- X EN 15635 (detailing the application and maintenance of steel static storage systems)



To be competitive within the international market it is imperative that our Pallet Mole® material handling equipment meets certain required standards for automated machinery and robotic equipment.

- X UL 1740 (detailing the UL safety standard for industrial robots and robotic equipment)
- X EMC Directive: 89/336/EEC Directive of Electromagnetic Compatibility
- X SABS IEC 61326-1:(2007) SABS Electrical equipment requirements for electromagnetic compatibility
- X SABS CISPR22: 2008 SABS Electrical equipment requirements for components that emit electrical noise
- X IEC 61000-3-2 (2014) IEC Limits for harmonic current emissions (equipment input \neq 16A)
- X IEC 61000-3-3 (2013) IEC Limitations on voltage changes, fluctuations and flicker in public low-voltage systems (equipment input \neq 16A not subject to a conditional connection)
- X IEC 61000-4-2 (2008) IEC Electrostatic discharge immunity test
- X IEC 61000-4-3 (2006) IEC Radiated, radio frequency, electromagnetic field immunity test
- X IEC 61000-4-4 (2012) IEC Electrical fast transient/burst immunity test
- X IEC 61000-4-5 (2014) IEC Surge immunity test
- X IEC 61000-4-6 (2013) IEC Immunity to conducted disturbances, induced by radio frequency fields
- X IEC 61000-4-11 (2005) IEC Voltage dips, short interruptions and voltage variations immunity tests



KEY PROJECT OBJECTIVE

SMS aims to improve your profitability and competitive edge by creating innovative solutions that not only optimise, but also integrate and automate the logistical flow of both materials and information within a distribution centre or warehouse.

In contrast to new buildings which effectively only serves as a shell for housing operations, without adding additional value, SMS provides a solution which is a capital investment in equipment and systems, thus increasing Operational-; as well as Tax efficiency.



"What really drove the decision was how fast we could effectively load the system and offload to the truck with a limited number of operators. With a 25" deep, 40" wide Pallet Moleu system only feet from the bottling line and the loading dock, we are extremely confident that we'll reach our goal of twenty minutes per truck load in Kansas City."

Bernie Zarda
Senior Vice President Chain Supply
Premium Waters

"I am impressed with your technicians who has been simply outstanding. Absolute assets to SMS by the way they communicate."

Lisa Gleaves, Logistics Manager
DSV Healthcare

"The reliability of the Pallet Moleu is a hundred times better than similar equipment we have used before. On the maintenance side, we save about 30-40% in comparison to the competitor equipment utilised before."

Mr Raath
Nampak Logistics

"The benefit that we are getting is an improvement of 30% increased capacity in relation to standard warehousing."

Mr Padiyachy
Director Key Accounts - Value City

OUR FOCUS

Focused on innovations leading the
future of warehouse automation

A leader in high density automated pallet storage and retrieval systems

SO LUTIO NS that adapts as your business changes?

OMNI-MOLE
AS/RS



PALLET MOLE
SHUTTLE



SORTATION
SYSTEM



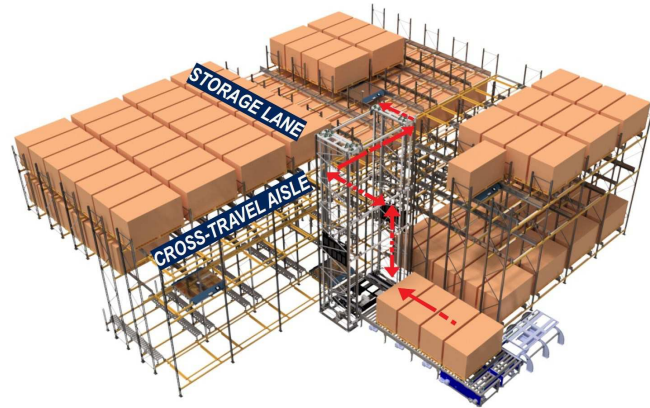
HIGHEST OUTPUT
LOWEST possible
INVESTMENT
whilst retaining FLEXIBIL-

OMNI-MOLE[®]

AUTOMATED STORAGE
AND RETRIEVAL SYSTEM
(AS/RS)



- Configurable to any building
- Maximizes space utilization
- Simplified technology
- Ultra-flexible throughput capability
- Highly reliable
- Easy to maintain
- High parallel redundancy



Our Omni-Mole[®] system is a bi-directional, cart-based, high-density, deep lane storage, palletised load, lift & run system, which provides flexible throughput together with ultimate scalability.

WAREHOUSE EXECUTION SOFTWARE (WES)

TRACK-IT

Inventory Management System

CONTROL-IT

Warehouse Control System

MAP-IT

Resource Traffic Management

PALLET MOLE[®]

SEMI-AUTOMATED
SHUTTLE SYSTEM

45+ site installations
in USA with
700+ units sold



22
YEARS

- Maximize warehouse capacity / High floor utilization
- More cost effective than other high density storage systems
- Time saving / Faster operation
- Planning flexibility
- Low maintenance
- Less product & structure damage

The Pallet Mole[®] maximizes the use of floor area and warehouse capacity. Enables 'aisle free' racking to provide a much higher density of storage than drive in racking, double deep storage and conventional VNA storage while allowing for flexible throughput capacity.



HC SORTER

SLIDINGSHOE
SORTATION SYSTEM

Slidingshoe sorters are versatile sorting solutions which differentiate from other solutions by the high diversity of sortable products. Large variations in size and weight are no problem for this sorter.

- A modular design for simple integration within an existing system
- Support in both design & installation phase
- Easy to connect with overarching control system
- Local support & maintenance
- Available with or without controls



SIMPLE FLEXIBLE EFFICIENT SCALABLE



SOLUTIONS

STORAGE

DYNAMIC

- ✕ PALLET MOLE⁺
- ✕ OMNI-MOLE⁺ AS/RS
- ✕ VERTICAL LIFT MODULES
- ✕ HANEL LEAN-LIFT
- ✕ HANEL ROTOMAT
- ✕ MINI-LOAD SYSTEM
- ✕ STORAGE & RETRIEVAL CRANES
- ✕ ONE LEVEL SHUTTLE
- ✕ MULTI-LEVEL SHUTTLES

STATIC

- ✕ ALL PURPOSE RACKING (APR)
- ✕ DRIVE-IN RACKING
- ✕ MOBILE BASE SYSTEMS
- ✕ LIFE STORAGE SYSTEMS
- ✕ PALLET FLOW
- ✕ CARTON FLOW
- ✕ MULTI-TIER SYSTEMS
- ✕ LONG SPAN RACKING
- ✕ MEZZANINE
- ✕ CANTILEVER RACKING
- ✕ PUSH-BACK RACKING
- ✕ INDUSTRIAL SHELVING
- ✕ RACK CLAD BUILDING

SOFTWARE & CONTROL

- ✕ CONTROL-IT⁺ (WCS)
- ✕ TRACK-IT⁺ (IMS)
- ✕ MAP-IT⁺ (TMS)
- ✕ RF TRACK & TRACE
- ✕ RF SCANNING SOLUTIONS
- ✕ SWAD
- ✕ STATIC ONLY
- ✕ INLINE ONLY

MATERIAL HANDLING

- ✕ PALLET CONVEYOR TECHNOLOGY
- ✕ TRAY & CARTON CONVEYOR TECHNOLOGY
- ✕ SORTATION SYSTEMS
- ✕ HC SORTER
- ✕ IQ-GRID
- ✕ VERTICAL GOODS LIFT
- ✕ AUTOMATED GUIDED VEHICLE/CONVEYOR

VALUE ADDED SERVICES

- ✕ ANALYSIS
- ✕ FEASIBILITY STUDIES
- ✕ CONCEPTUAL DESIGN
- ✕ SIMULATION MODELLING
- ✕ SOFTWARE DESIGN
- ✕ EQUIPMENT DESIGN
- ✕ DETAILED PROPOSALS
- ✕ MANUFACTURE
- ✕ PROJECT MANAGEMENT
- ✕ INSTALLATIONS
- ✕ COMMISSIONING
- ✕ OPERATIONAL TRAINING
- ✕ TECHNICAL SUPPORT & SERVICE



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