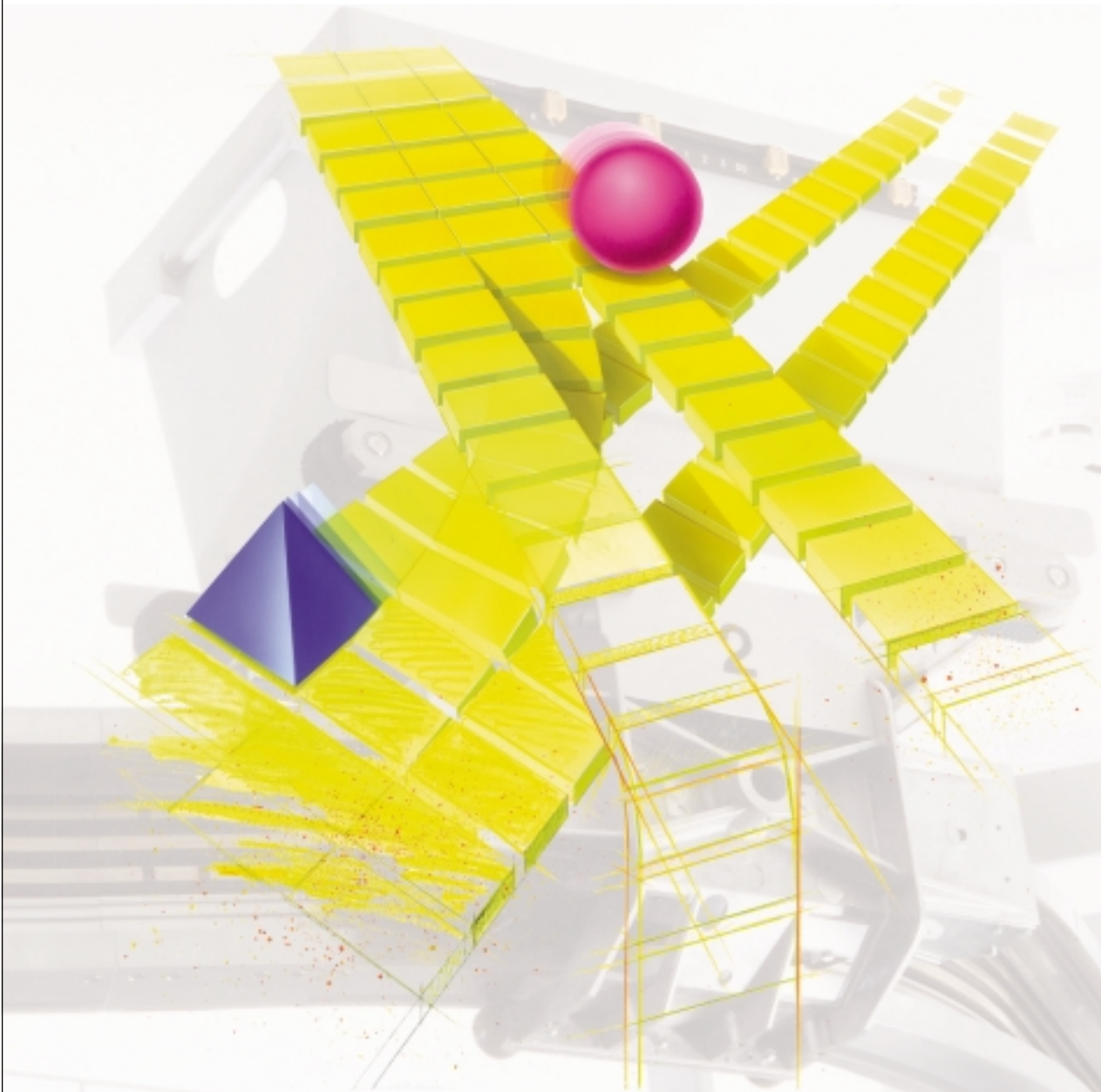


swisslog
TELELIFT



MULTICAR

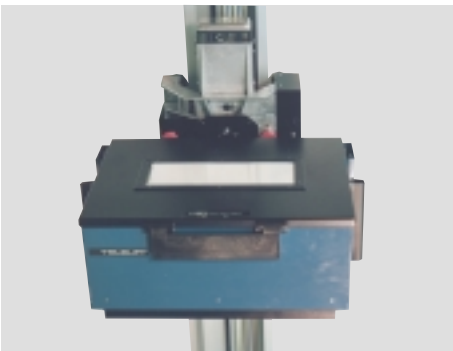
Various Applications - One System

The transportation system for low and medium loads



Swisslog Telelift

as manufacturer of light materials handling equipment, can optimise your material movement problems by conceiving the best ideas, design and planning from a wide range of conveying systems. In close liaison with the customer an efficient solution is found for each transportation task by selection from the considerable range of available systems. The scope ranges from a simple point-to-point connection to the integration of the most complex, networked, computer-controlled systems into a general logistical conveying concept.



The reliability and profitability

of MULTICAR are based on Swisslog Telelift's decades of experience in the field of rail-bound conveyor systems. Swisslog Telelift offers the complete solution, from the mechanics to the electronic control, from the development, design, planning, and installation, through to the comprehensive after sales service.



payload, horizontal track only	60 kg
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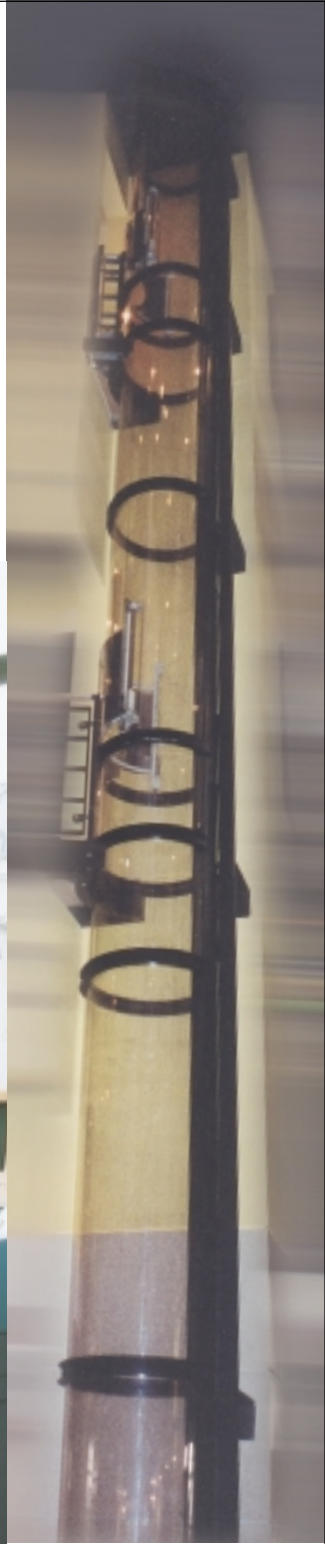
payload, up to 45° slope	50 kg
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payload, vertical track section	30 kg
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speed, horizontal	max. 0,8 m/s
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speed, vertical	0,4 m/s
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(actual performance data is subject to changes depending on the application)



The exemplary flexibility

and the first-class transport performance of the systems are based on the concept of individual, independently driven and controlled vehicles. Each vehicle has its own drive motor (24 VDC). Power transmission is achieved by means of a friction wheel and, where necessary, also by formlocking through a rack-and-pinion drive. Vehicle design with wheels made of Polyurethane allows smooth and quiet operation.

Load lifting members,

specially adapted for the particular application, are a common exception to the rule. The standard means of transportation is by open or closed containers simply placed on, or firmly mounted to the chassis. The standard chassis is also suitable without modification, for mounting a pivoted loadcarrying bracket.

Active superstructures such as roller conveyors, allow automatic load handling.

This versatility and flexibility

turns MULTICAR into the premier conveyor system for a wide range of applications.

Flexible track layout, small requirements



MULTICAR is a further development

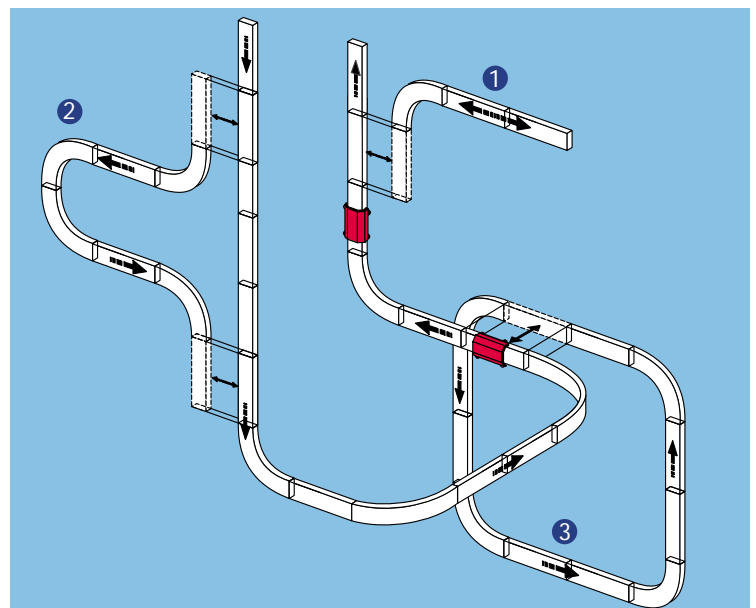
of the successful, world-wide renown, Swisslog Telelift rail-bound conveyor systems. This system is again designed on the principle of building blocks, the main components comprising track profile, switches, power supplies and transport vehicles. The track layout is extremely flexible. Small profile radii together with the ability for vertical transport allow quick and easy track installation in new, as well as existing buildings. The MULTICAR system uses 24 VDC driving voltage. No specific touch protection is required on the conductor rails because of this safe low voltage.

MULTICAR generates the space required,

by being installed in the various "nooks and crannies" so far unused. As a conveyor system that does not necessarily cover any floor space, the track is normally installed under the ceiling to keep aisles and valuable shop floor space clear. Vertically linking several storeys is now as simple as horizontal transport. The building block principle with its various switch types allows easy adaptation to every given task. Safety is never neglected and fire sections are maintained by the integration of automatic fire doors.

Examples for station layout:

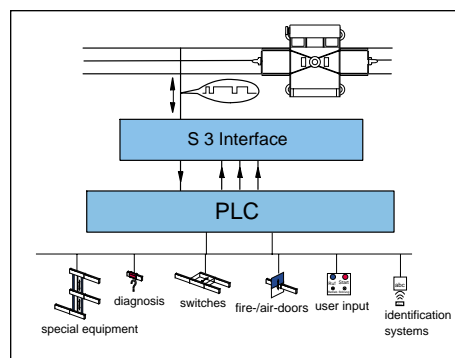
- ① re-entry station
(last in - first out)
- ② pass-through station
(first in - first out)
- ③ looping station
(first in - first out)





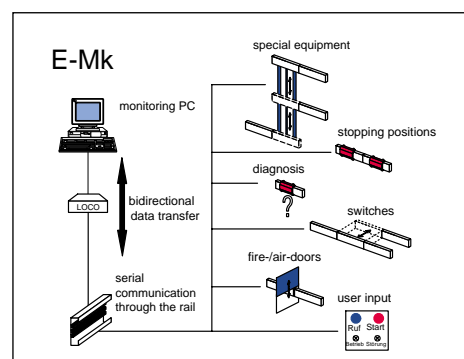
Storage

is put on the right track, in the literal sense of the word. "Optimised just-in-time" delivery to the production line allows a reduction of materials held in the assembly area. By applying an interface system control, each MULTICAR not only carries load but also production data. State-of-the-art microprocessor intelligence can be integrated into each vehicle.



Effective transport performance through intelligent control

MULTICAR installations are open for standard PLC as well as for E-Mk systems, a control especially designed by Swisslog Telego for the requirements of rail-bound conveyor systems. In both cases a maximised transport efficiency stands against a minimised installation expenditure.



Swisslog Offering

Logistics Consulting
System Design and Realisation
Information Technology

Transport Systems

Storage Systems

Handling Systems

Customer Support

Modernisation



Comprehensive Supply Chain Solutions

Logistics Consulting

- Consultancy and workshops
- Strategy definition
- Location and site studies
- Feasibility studies
- Benchmarking
- Operational analysis

System Design and Realisation

- Data analysis
- Concept and detailed planning
- Engineering and specifications
- Simulation
- System integration
- Project management

Information Technology

- Host interface consultancy
- IT und logistics consultancy
- Warehouse management software
- Material flow control software
- Device control systems
- Forklift supervisory systems



Transport Systems

- Automated guided vehicles (AGVs)
- Pallet conveyors
- Unit load conveyors
- Electric monorails
- Power & Free
- Goods lifts
- Pneumatic tube systems

Storage Systems

- Automated high-bay warehouses
- Automated bin and tote stores
- Refrigerated and freezer stores
- Automated buffer stores
- Automatic stacker cranes

Handling Systems

- Robotics
- Automated order picking
- Manual order picking
- Single- and multi-stage picking
- Sorter systems
- Goods-to-man solutions
- Man-to-goods solutions

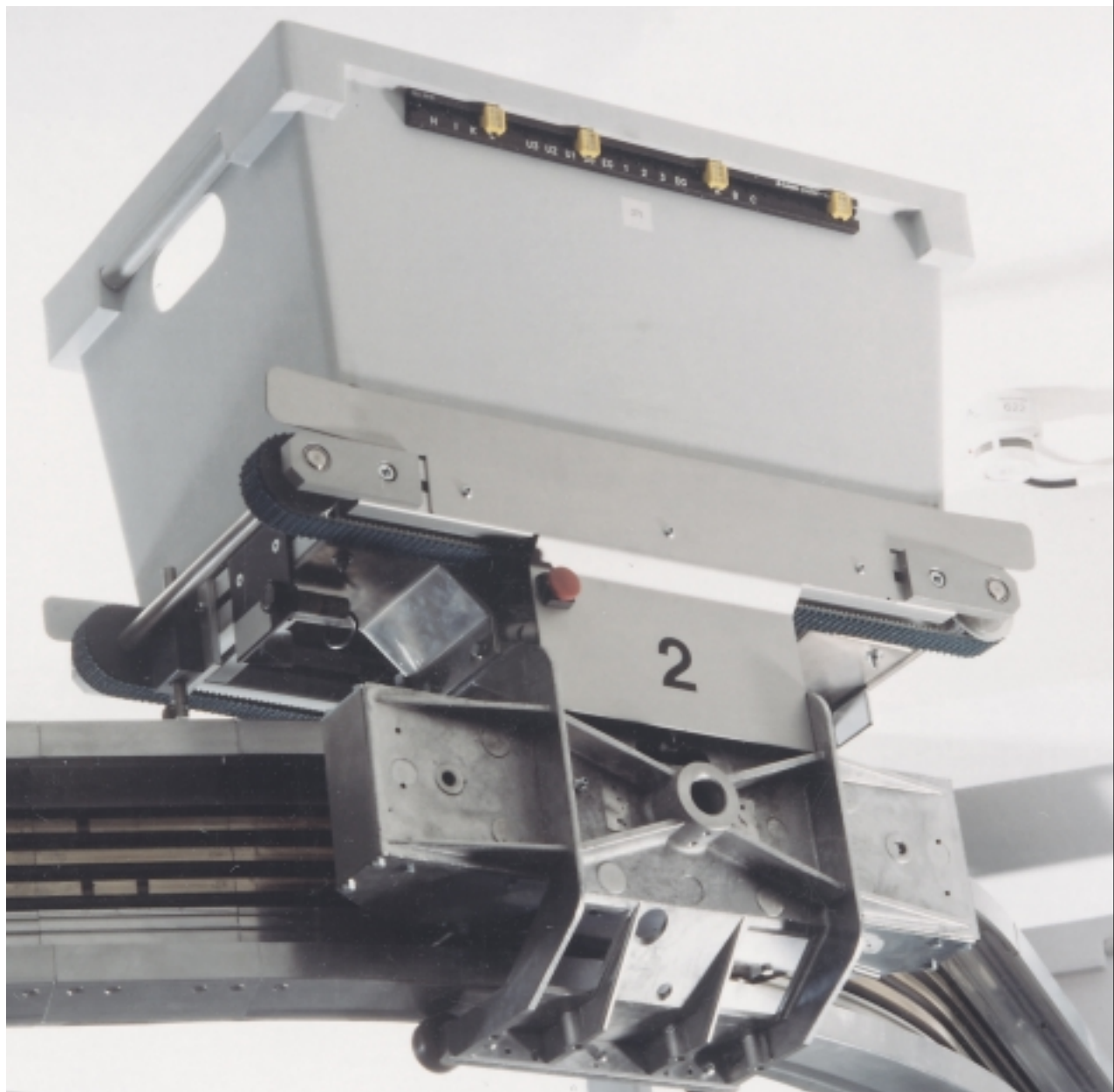
Customer Support

- Preventive maintenance
- 24 hour hotline
- Corrective support on site
- Remote software support
- Full technical operation
- Training of staff
- Spare parts management
- Continuous consultancy

Modernisation

- Analysis of existing systems
- Consultancy and realisation
- Software upgrades
- Minimal disruption of operations

logical motion



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