

# montratec

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# montrac®

SHUTTLE SYSTEMS

# INTRALOGISTIC SYSTEM

## SMART SOLUTIONS FOR INTRALOGISTICS 4.0

The montrac® monorail system by montratec enables intelligent, fast, and efficient internal transport and assembly processes. It flexibly links robots and workspaces and supports automation from single-item to high-volume production, outperforming traditional conveyor systems.

Leading companies across automotive, plastics, consumer goods, optics, food, medical, and pharmaceutical industries use montrac® to increase material throughput and reduce cycle times.

As a smart Intralogistics 4.0 solution, montrac® connects all process steps seamlessly, optimizing production flow and overall efficiency. It offers full control over conveyor functions like speed, heating, and turning, and ensures product traceability via shuttle IDs.

Manufacturing and assembly can take place directly on the shuttle, streamlining operations and saving time. Rather than isolated components, montrac® delivers a comprehensive, space-saving system solution tailored to complex production needs.



## montrac® – MODULAR BUILDING BLOCK SYSTEM FOR MAXIMUM FLEXIBILITY

The montratec® system is designed as a modular building block principle, offering maximum flexibility and scalability. Individual components such as rails, curves, switches, shuttles, and work stations can be freely combined and expanded to meet specific production needs.

This modularity allows montratec® to be easily integrated into existing facilities or configured for entirely new applications. Modifications or expansions can be implemented quickly and cost-effectively, without interrupting ongoing operations. The result is a future-proof solution that grows with your requirements – from small batch production to fully automated high-volume manufacturing.



# SHUTTLE MODELS

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## W020

- Strong axles with powerful 100 W drive
- Distance sensor for collision detection
- Control with Standard interface I/O-Link
- New workpiece carrier design



<b>Max. payload</b>	20 kg
<b>Max. speed</b>	up to 55m/min
<b>Number of axes</b>	1
<b>Lengths (workpiece carrier plate)</b>	300 mm, 400 mm and 550 mm



# SHUTTLE MODELS

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## W040

- Strong axles with powerful 100 W drive
- Distance sensor for collision detection
- Control with Standard interface I/O-Link
- New workpiece carrier design

<b>Max. payload</b>	40 kg
<b>Max. speed</b>	up to 55m/min
<b>Number of axles</b>	2
<b>Lengths (workpiece carrier plate)</b>	550 mm



## W070

- Strong axles with powerful 100 W drive
- Distance sensor for collision detection
- Control with Standard interface I/O-Link
- New workpiece carrier design



<b>Max. payload</b>	70 kg
<b>Max. speed</b>	up to 55m/min
<b>Number of axles</b>	2
<b>Lengths (workpiece carrier plate)</b>	550 mm



# SHUTTLE MODELS

## W020CR

- Strong axles with powerful 100 W drive
- Distance sensor for collision detection
- Control with Standard interface I/O-Link
- New workpiece carrier design
- Cleanroom compatibility

<b>Max. payload</b>	20 kg
<b>Max. speed</b>	up to 55m/min
<b>Number of axles</b>	1
<b>ISO class</b>	up to ISO 5 (Air Cleanliness Classes according to ISO 14644-1)
<b>Lengths (workpiece carrier plate)</b>	300 mm, 400 mm and 550 mm





## W040CR

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- Distance sensor for collision detection
- Control with Standard interface I/O-Link
- New workpiece carrier design
- Cleanroom compatibility

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# SHUTTLE MODELS

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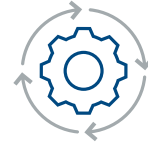


# HOW YOU BENEFIT FROM montrac®



## OPTIMUM RELIABILITY

The modular design of the montrac® system ensures the maximum level of reliability for the system as a whole. If a shuttle malfunctions, it can be replaced immediately without having to stop the entire system.



## ADVANCED PROCESS AUTOMATION

Offers full control over conveyor movement, including speed, heating, and turning, ensuring precise and consistent operations.



## MAXIMUM FLEXIBILITY

montrac® fits perfectly into any space and also allows transportation around tight bends and over multiple floors.



## ENHANCED TRACEABILITY

Each shuttle's unique ID enables precise tracking throughout the production process, ensuring high standards of quality control and compliance.



## STRAIGHTFORWARD SYSTEM DESIGN

montrac® monorails and TraLinks make assembly fast and simple. Thanks to Smart Logistic Technology, overriding control is no longer required. The shuttles independently know precisely where to take their products.



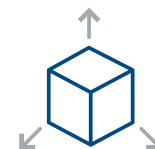
## DIRECT MANUFACTURING ON SHUTTLES

Enables manufacturing and assembly directly on the shuttle, eliminating the need for additional handling and reducing production time.



## STRAIGHTFORWARD SYSTEM DESIGN

Optimised your processes down to the last second and still losing costly production time? Thanks to the on-board power supply on its shuttles, montrac® enables you to test or process your workpieces during transport. Travel time consequently becomes production time.



## TAILORED INTRALOGISTICS SOLUTIONS

Customized solutions designed to meet specific customer requirements, enhancing effectiveness and efficiency in the manufacturing process.

# HOW YOU BENEFIT FROM montrac®



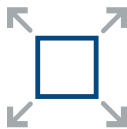
## AVAILABILITY AND LOW MAINTENANCE

High system availability and minimal maintenance requirements reduce downtime and operating costs, enhancing productivity and efficiency.



## EFFICIENT AND RELIABLE PRODUCT TRANSPORT

Handles up to 70Kg per shuttle, operates at a top speed of 55 m/min, and ensures shock-free transportation, protecting product integrity and increasing productivity.



## MAXIMIZING MANUFACTURING SPACE

Space-efficient monorail system operates on a single track, ideal for crowded production halls, with options for ceiling or elevated installation to enhance production flow.



## UNIQUE POWER SUPPLY EFFICIENCY AND PRODUCTIVE TRAVEL TIME

Optimized energy consumption and transforming travel time into productive time, reducing CO2 emissions and improving cycle times.



## CLEANROOM, ESD, AND EMV COMPLIANCE

Designed to meet ISO Class cleanroom specifications, continuous grounding to prevent ESD, and compliance with EMV standards, ensuring safe and efficient handling of delicate products.



## MODULAR DESIGN

Flexible and scalable components allow quick adaptation to new requirements, preventing overinvestment, and ensuring ease of maintenance and independent operation.