montrac® SMART SOLUTIONS FOR INTRALOGISTICS 4.0

The montrac® monorail system from montratec helps you manage internal product transports and assembly processes more intelligently, more quickly, and more efficiently than ever before. By using a minitran with high accuracy and high utilization, the integrated transport system reduces the reaction times of high-volume production processes between robots and workspaces more flexibly than ever before. It can also boost the automation of complete production lines, from production planning to assembly to operator feeding. montrac® is far superior to conventional transport solutions using conveyor belts.

Prominent companies from the automotive, plastics, consumer goods, optics, food, medical and pharmaceutical industries, as well as other sectors, are maximising their material throughput and minimising cycle times with montrac®. montrac® therefore makes a vital contribution to helping you take advantage of the tremendous opportunities offered by Industry 4.0. With smart solutions for Intralogistics 4.0.

montrac® CLEANROOM SHUTTLE MSH4 CR

Certified cleanliness for cleanrooms certified by the Fraunhofer Institute

The montrac® Cleanroom Shuttle MSH4 CR opens up completely new ways for companies to link their production processes in cleanrooms. For example, for the production of pharmaceutical components, medical products, as well as purely internally powered components, the shuttle is the perfect transport and process solution for cleanrooms.

The Fraunhofer Institute has thoroughly tested the montrac® Cleanroom Shuttle in its competence centre for clean and microproduction. The measurements were conducted in an ISO class 1 cleanroom. The verdict: Minimal particle emissions make it perfect for transport solutions in cleanrooms.

YOUR ADVANTAGES AT A GLANCE

- Minimal particle emission: Rubberised drive and support rollers, optimized for minimal abrasion, with selective contact areas on the monorail. Non-contact instead of mechanical stopping.
- High energy efficiency: Power consumption of the single-axis shuttle just 0.1 A (standstill), and only 0.7 A at 30 m/min.
- Flexible capacity: Throughput can be easily scaled with the number of shuttles.
- 100% antistatic system: montrac® meets guidelines in accordance with EN61000-6-2:2005 and is ideally suited for applications in the electronics, semiconductor, pharmaceutical and medical industries.

montrac® CLEANROOM SHUTTLE MSH4 CR (SINGLE-AXIS VERSION)

- Air purity class in accordance with ISO 14644-1: ISO 7
- Tested parameters: Speed 30 m/min, payload: 14.6 kg

montrac® CLEANROOM SHUTTLE MSH4 CR (TWO-AXIS VERSION)

- Air purity class in accordance with ISO 14644-1: ISO 5
- Tested parameters: Speed 30 m/min, payload: 21.7 kg

CERTIFIED BY THE FRAUNHOFER INSTITUTE

The Fraunhofer Institute has thoroughly tested the montrac® Cleanroom Shuttle in its competence centre for clean and microproduction. The measurements were conducted in an ISO class 1 cleanroom. The shuttle effortlessly carries critical components and medical products. The shuttle is the perfect transport and process solution for cleanrooms.

montrac® also raises the bar in terms of availability: Thanks to the modular system and its scalability, you can very easily react to unexpected events without suffering downtimes.

TECHNICAL DATA

- Maximum payload: 30 kg
- Speed: 30 m/min
- Acceleration time without payload: 3 s
- Acceleration time with max. payload: 3.5 s
- Supply voltage: 24V DC
- Power consumption at 30/min: 0.7 A
- Sound pressure level: < 65 db
- Surroundings (temperature/humidity): 10°C - 40°C at 5% - 85%
monratec
GLOBAL PRESENCE

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