

Manntech Articulated Mechatronic System

Manntech™ proudly presents its latest innovation – the Articulated Mechatronic System (AMS). This innovative design redefines Building Maintenance Units to seamlessly integrate with the complexities of modern building environments, exemplifying our commitment to sustainable innovation.

Innovative Features:

- ▶ **Enhanced Efficiency:** The AMS eliminates the slow movement of traditional elbow jib designs, improving efficiency. The BMU can be programmed to avoid certain facade sections at specific times (e.g. private meeting rooms).
- ▶ **Lightweight Design:** With fewer parts and reduced jib weight, the AMS is lighter than equivalent telescopic jibs. This minimises roof structure impact, accelerates installation, and reduces crane time and construction costs. This design also allows for easier transport, lower energy use, and less downtime for maintenance.
- ▶ **Convenient Replacement:** For replacement projects, parts can be adapted to fit into elevators, eliminating the need for cranes and reducing carbon emissions from heavy machinery and transport.
- ▶ **Improved Manoeuvrability:** Enhanced cradle manoeuvrability and the elimination of hard-to-access parts boost maintenance efficiency and productivity, minimising downtime. Its adaptability to complex buildings ensures smooth navigation and efficient cleaning, even in tight passageways and parking garages.
- ▶ **Remote Monitoring & Predictive Maintenance:** MyBMU allows building owners to track BMU usage, identify which windows were cleaned and when, and enable predictive maintenance, ensuring optimal performance and reducing unexpected downtime.



Enhanced Efficiency



Lightweight Design



Convenient Replacement



Improved Manoeuvrability



Remote Monitoring & Predictive Maintenance



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Sustainable Benefits:

- ▶ **Reduced Carbon Footprint:** The AMS achieves a significant 27% reduction in the BMU's carbon footprint over its lifecycle, equating to approximately 17 tons of CO₂e. This advancement supports a more sustainable future through several key improvements: a 49% decrease in emissions from raw materials and a 17% reduction in manufacturing emissions.
- ▶ **Eco-Friendly Commitment:** The AMS contributes to your sustainability goals by aligning with green building standards and certifications. Built to last up to 30 years, it ensures long-term reliability and reduces the need for frequent replacements.
- ▶ **Lower Operational Costs:** The AMS helps reduce overall operational costs through efficient and sustainable maintenance. It enhances building value and compliance with green certification requirements, aligning with corporate sustainability goals.



Why Choose AMS?

- ▶ **Sustainable Innovation:** Advanced sensors and intelligent drive synchronisation ensure precision and safety, reducing resource waste. The lightweight design minimises roof impact and installation emissions, promoting eco-friendly construction practices.
- ▶ **Versatility:** Manntech's latest facade access solutions offer simplicity and versatility for both new constructions and existing buildings, meeting the critical demand for BMUs that integrate effortlessly with complex structures, power supplies, and IT infrastructure. Manntech's AMS is not just a technological advancement—it's a step towards a greener future. Join us in building sustainable urban environments with innovative, eco-friendly facade access solutions.

Discover the future of building maintenance. Contact us to learn how AMS can elevate your sustainability efforts.

