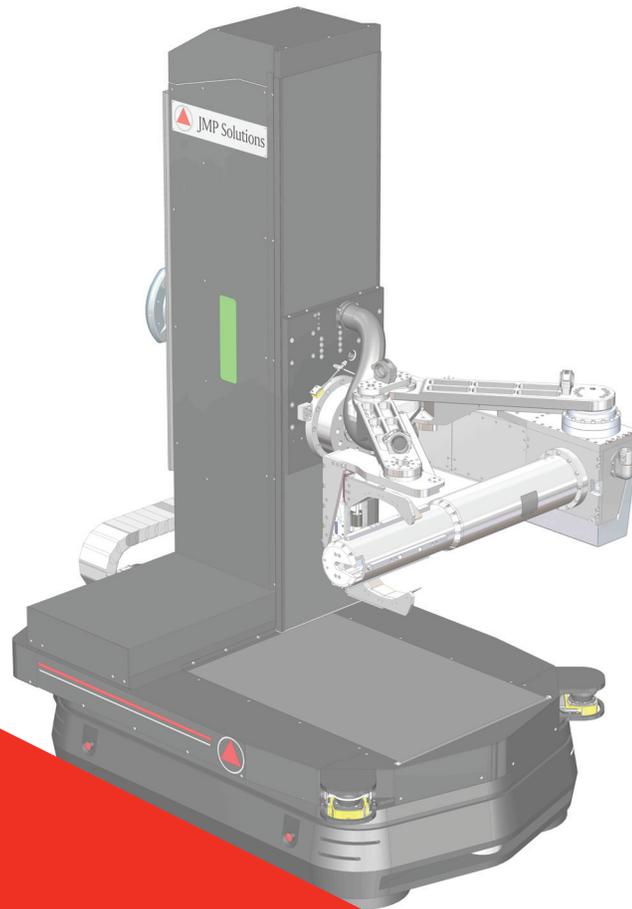




JMP Solutions

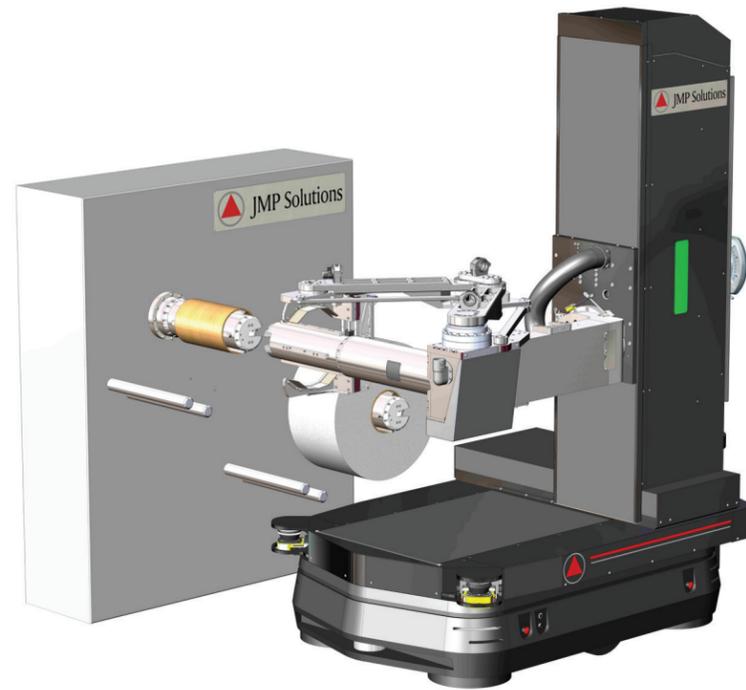
Industrial Technology Partner to the Fortune 1000



Wind / Unwind Robotic Spool Tending

Automated Robotic Bulk Material Movement

Mobile Robotic Spool Tending



INTEGRATED AUTONOMOUS VEHICLE ROBOTIC SOLUTIONS

AGV and AMR technologies are emerging as powerful drivers of manufacturing and material movement efficiency and competitive advantage but their benefits truly shine when they are applied as fully integrated solutions incorporating complementary technologies. A natural fit with these autonomous vehicles are automated robotic appliances mounted on the vehicles, working in synergy to accomplish repetitive, ergonomically difficult and non-value added tasks across a diverse scope of processes.

One such application involves the loading, unloading and movement of bulk material spools for use in the manufacturing of various industrial and consumer products. These raw material spools represent a payload of upwards of 500lbs and measure up to 60" in diameter by 32" wide which commonly need to be loaded onto elevated mandrels elevated 24" - 76" off the ground. This process represents an extremely stressful and potentially dangerous ergonomic process for human labor resources.

JMP's roll handling AGV/SDV solution is a game changer for manufacturers who handle large rolls of media including paper, textile, wire/cable, and hose. JMP's system completely automates the transportation of raw materials from the warehouse to the production line as well as directly loading and unloading rolls, spools, or reels from the mandrels/spindles of processing equipment without human interaction. This solution is completely scalable to support as many separate load and unload positions within a manufacturing facility with a fully automated smart fleet management software and communication system and a fleet of roll handling AGV/SDV's to dispatch. Human operators can safely continue to work in the vicinity of JMP's roll handling solution thanks to a total of five Category 3 safety scanners and strategic layout planning. This solution eliminates labor, forklift traffic, and the risk of starving or blocking processing equipment due to human error.



FLEXIBLE APPLICATIONS

Automated material handling of large rolls, spools, or reels of product such as paper, textiles, wire/cable, and hose. Applicable to virtually any corresponding processing equipment such as unwinders, sheet/hose/cable feeders, or roll production lines.



PROCESS SAFETY

Safely eliminates ergonomic challenges associated with heavy bulk roll payloads while defining traffic patterns and reducing forklift traffic. Solution uses onboard Category 3 safety devices and third-party safety validation process for every deployment.



TOTAL COST OF OWNERSHIP

Long term cost savings are achieved through displacement of labor for material movement tasks. This solution also reduced maintenance cost of traditional handling equipment while maximizing run-time and throughput by keeping machines fed consistently.



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