

 FLEXQUBE®

CASE / SIEMENS



Siemens got started with automation.



When it comes to automation in a manufacturing environment, consistency and robustness are a must. The automation needs to be reliable to turn up and deliver every time, and with the eQart this is assured. Siemens was able to implement a solution that can be depended on every single transport.

The eQart also comes without the frustrations of typical automation implementations. The eQarts needed no extra IT infrastructure, and the implementation was completed in a minimal amount of time.

CHALLENGE

This particular Siemens manufactures several different products and recently received several new products to manufacture. These new products needed new processes and new methods of transportation. The previous transportation methods led to movements of the materials to different stations by operators via pallet jack, forklift, or manual pushcart. On top of this, Siemens wanted to keep gearbox technicians at their workstations, eliminating the task of transporting the materials between workstations.



ACHIEVEMENT

FlexQube licensed dealers McGee Storage & Handling, based in Atlanta, introduced the FlexQube team to the Siemens managers. Following this first introduction, FlexQube & McGee were able to present the eQart product to the Siemens team to solve the challenges they were facing. Discussions began about how the eQart could be best used within these processes, what the ROI would be, and the benefits to the system over other solutions.

Initial designs were drawn of the eQarts best suited to this project, and virtual testing of the routes completed. Currently, there are two eQarts within the facility, completing several types of transport and removing human interaction throughout the process entirely, leading to 100% automated transports and a short ROI.



2

eQart
Designs.

1000

kg Load
Capacity.

6-9

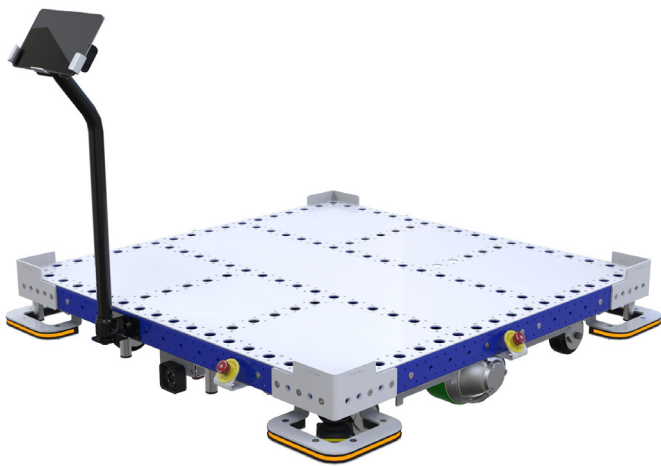
Months
ROI.

100%

Automated
Transports.

SOLUTION

In the end, Siemens needed to opt for two different eQart designs along with a roller transfer station. One was a standard flat deck pallet eQart used for the movement of parts loaded via forklift and then automatically transported throughout the facility. The second eQart was designed with rollers on top, which used gravity to transition the pallets from the eQart to the roller transfer station. A shooter mechanism completed the transfer which mechanically unloaded the pallet from the eQart and transitioned the pallet automatically.



Pallet eQart

1260 x 1260mm / 50 x 50 in

Q-100-3421



Roller eQart

1260 x 1050 mm / 50 x 41 in

Q-100-4345



MODULAR &
HEAVY-DUTY



EASY
IMPLEMENTATION



NO IT
INFRASTRUCTURE
REQUIRED

One of the most significant benefits that Siemens could take away from implementing the eQart products into their facility was that they got started. They were able to map out the project, assess their needs, and implement an automation project, which was fully automated. Automation is a journey that will never stop, so taking the first steps can be the most difficult and the most daunting.

Still, now those complex steps are over for Siemens.



"We got started with a future factory.

We have automation now in our factory, and now we can build on it; we can bring in more robots we can be created and innovative with how we can use this different technology in our factory."

– Kim Howe, Logistics Manager at Siemens Mobility in Georgia, USA

