

CASE STUDY

PLASTIC INDUSTRY – RESIN SISTEMA PLASTICS

Sistema Plastics built a brand new state of the art high quality plastics factory in a first world country to compete with third world prices. A-Ward Resin unloading system meant no warehousing set up or costs were required. The system reduced their labor, shipping and handling costs to the bare minimum.

Our challenge

Sistema Plastic challenged A-Ward to supply a complete container unloading system, including all platforms, stairs, container liner connection, rotatory transfer and blowing system. The new system had to enable Sistema to unload imported 20ft containers outside in all weather and guaranty the resin stays 100% dry. This container unloader was required to eliminate any specialized tipping trucks, specialized outside services or extra transport cost. The design also had to handle being loaded and unloaded with not only their container straddle crane but forklift and swing lift trailers.

What we did

A-Ward supplied a specialized 20ft Flat Top Frame container loader with set loading height allowing for all loader options. Remote controlled container locking, tilt and hold at any angle from 0 to 70 degrees to enhance resin gravity feed unloading managed with a safety sensor interlock control. The Container Unloader is fitted with a hydraulic rain deflection roof to keep the working area dry, an integrated rear linkage platform and rotary blower feeder that allows it to raise and lower while tilting, allowing a safe flat working area at all angle positions and make sure the maximum resin is feeding to the unrestricted rotatory blowing feeder. A-Ward also supplied container door safety braces and locks to protect the operator if the container door latch failed.

Outcomes

Sistema has dramatically reduced shipping and local transport costs by removing all specialized transport providers with their A-Ward container unloader. Having the complete set up working outside removed all extra warehouse building cost. Removing all labour and automatically unloading direct from one bulk container liner using the new A-Ward system has eliminated any possibility of the resin getting water or contaminate damaged. Sistema Plastic has truly built a world leading plastic manufacturing facility.

