

Application: Cleaning Plastic Dunnage		Date: 7/22/21
Serial number: 1009-0321	Machine model: Aquamaster CB-1400D	
Machine type: Conveyorized Belt		Industry: Dunnage/Container

Customer summary:	Global supplier of automobiles and other engine products
Item to clean:	Plastic pallets, varying sizes
Contamination:	Dirt, dust, chips, and oils
Cleanliness requirement:	Visually clean, 500 mg total mass
Dryness requirement:	Mostly dry
Production rate:	30 pallets per hour
Process parameters:	Wash, ambient blowoff

Customer background:

The customer is a global supplier of automobiles, power equipment, engines, marine equipment, and more. There are twelve manufacturing plant locations in the United States alone.

Challenge:

The customer needed a washing system to clean various sizes of plastic pallets which are used in their manufacturing processes, so that clean components would not be re-contaminated. The pallets were soiled with dirt, dust, chips, and oils, and needed to exit visually clean and with a cleanliness specification for particle mass.

Solution:

Alliance provided an Aquamaster CB-1400D, a belt-style parts cleaning system designed for tall-profile dunnage and pallets. This washer includes a wash and ambient blowoff zone, plus a dual mist collector system, micro-filtration chamber with contamination sensor, product shutdown timer sensors for the load and unload ends, a chemical injection system for the wash solution, and a 4" wide belt-type oil skimmer to remove floating oils. On each side of the conveyor, product guides help guide the tall pallets through the wash system.

Cleaning Method:

Aqueous cleaning was ideal for this application because the parts are large in profile and require general spraying to remove the contaminants.



Aquamaster CB-1400D



Interior of machine



Unload end with blowoff