



PALLETIZED CLEANING SYSTEM WITH INTEGRATED MACHINING CELL

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Machining cell is fully flexible for a variety of gear cases. Tapping operation shown above.



PROGECO[®]
Integrated Cleaning Solutions

PALLETIZED CLEANING SYSTEM WITH INTEGRATED MACHINING CELL

MODEL # ICW 24 × 12-E-4W-2R-BO-SS-80C-LMC

Scope

Customer	Tier 1 supplier of automotive parts
Workpiece	Aluminum Gear cases (up to 8 different models)
Application	Precision cleaning & light machining prior to leak testing
Production	80 parts per hour
Cleanliness	Visually free of chips & coolant
Dryness	100% drying at ambient temperature ($\pm 1^{\circ}\text{C}$)

Features

Benefits

Palletized part handling	Allows for precision locating of gear cases as well as multi-part flexibility
Rotary nozzle wash manifold	Ensures all part surfaces are cleaned of chips & coolant
Reciprocating blow-off	Allows for multi-pass air knife drying
Large access doors	Permits unrestricted maintenance of interior systems
Duplex bag filters installed on rinse stage with warning lights	Signals operator to change filter bags without stopping the machine
Integrated cooling tunnel	Minimizes space requirements and allows for removal of dry parts at ambient temperature
Over/under power & free conveyors	Minimizes floor space requirements
Automatic storage and retrieval system	Supplies part specific pallets on demand
Integrated light machining cell	Performs machining operations according to the part model not possible during core machining operations. Minimizes handling
Precision unloading station	Allows for robotic part transfer from pallet to leak testing
Allen Bradley SLC 5/05 & ControlLogix on Ethernet network	Provides communication between cleaning & machining modules combined with state of the art servo motor controls