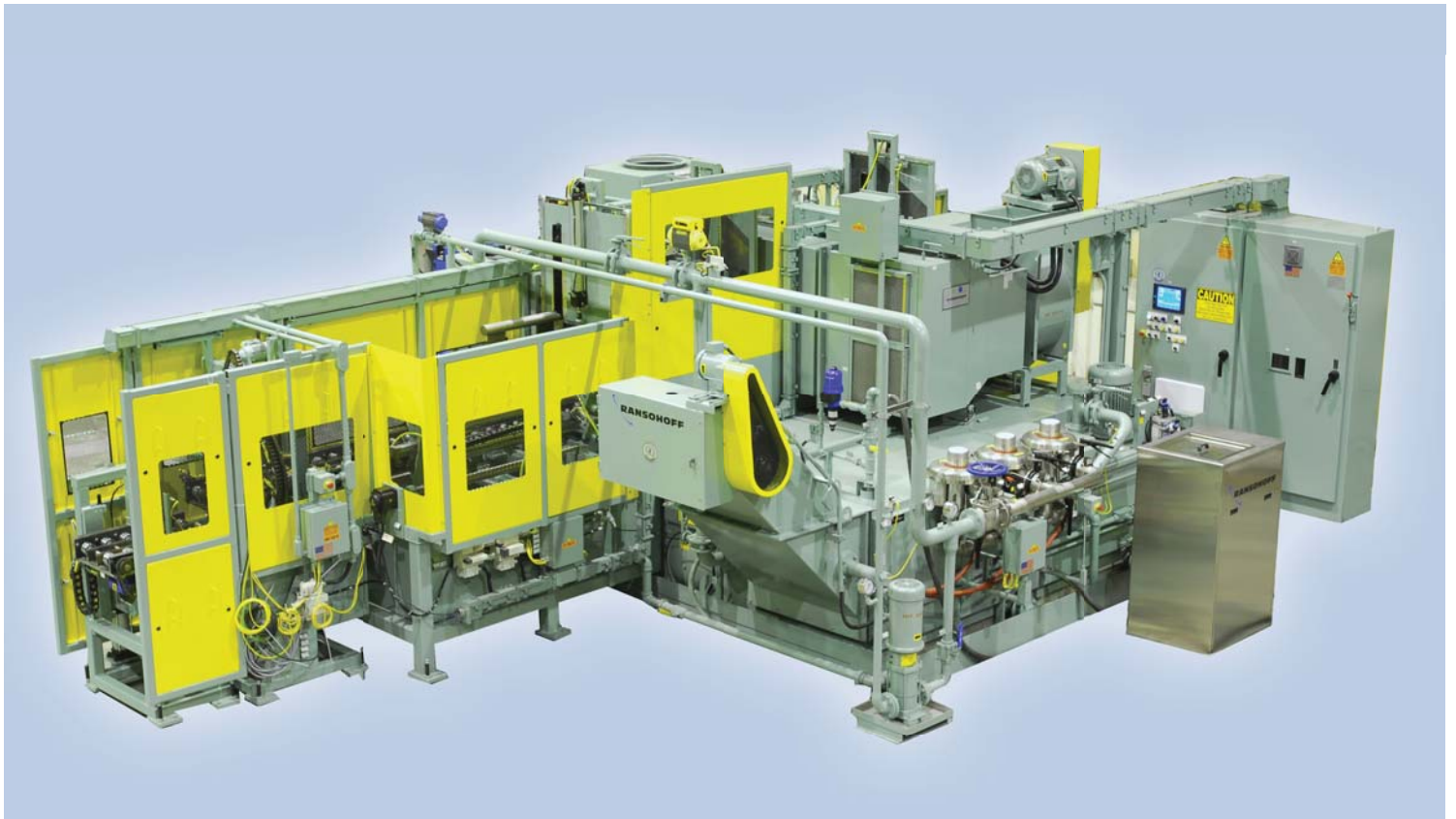
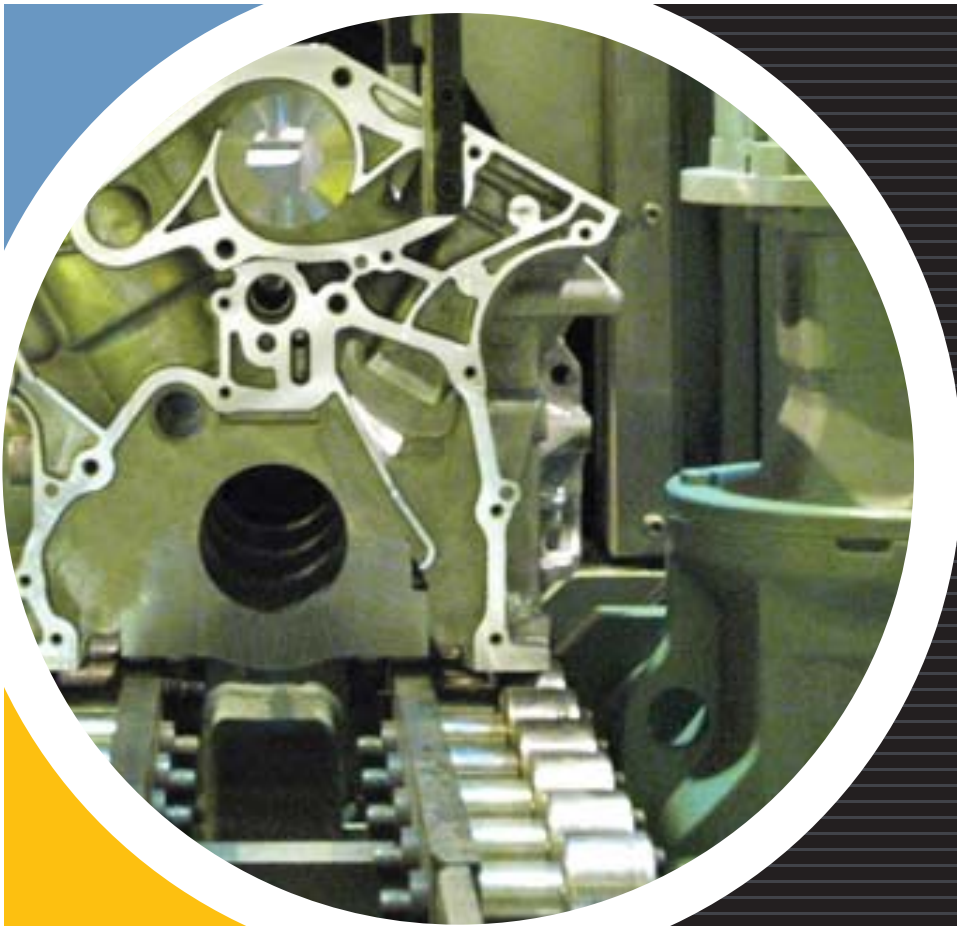


Cleaning Technologies Group



AUTOMATED BLOCK WASHER



GASOLINE ENGINE BLOCK

Cleaning Technologies Group

AUTOMATED BLOCK WASHER

GASOLINE ENGINE BLOCK

The Challenge:

Contamination: Machining Chips and Coolant

Cleaning Expectations: 5mg max weight- Oil Passages / 10 mg max weight- Water Passages

Drying Expectations: 100% Dry

Part Acceptance Method: Std. Millipore Procedure

Production: 1 Part / 33 Seconds

Loading / Unloading: Automatic

Preceding / Succeeding Ops: Machining / Assembly

Footprint Constraints: As Small As Possible

The Solution:

Equipment: Custom Conveyor System

Sequence: Wash & Dry

Cleaning Mechansims: Immersion, Rotation, & Spray

Drying Mechansim: High Volume, Heated Air & Rotation

Features: Load / Unload Part Rollover Automation with Elevators, ProSep Oil Removal System,
Chemical Injection System, Chip Dragout Conveyor & Zero Gravity Filtration

Actual Footprint: 32' long x 17' wide



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