



Assembly Equipment Provider For Automotive Industry

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Tel (416) 663 7071

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Air Outlet Assembly Fixtures

Versatility of Air Outlets Assembly



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Air Outlet Assembly Fixtures at Collins and Aikman

Air Outlet assembly Fixture with Rotary Table



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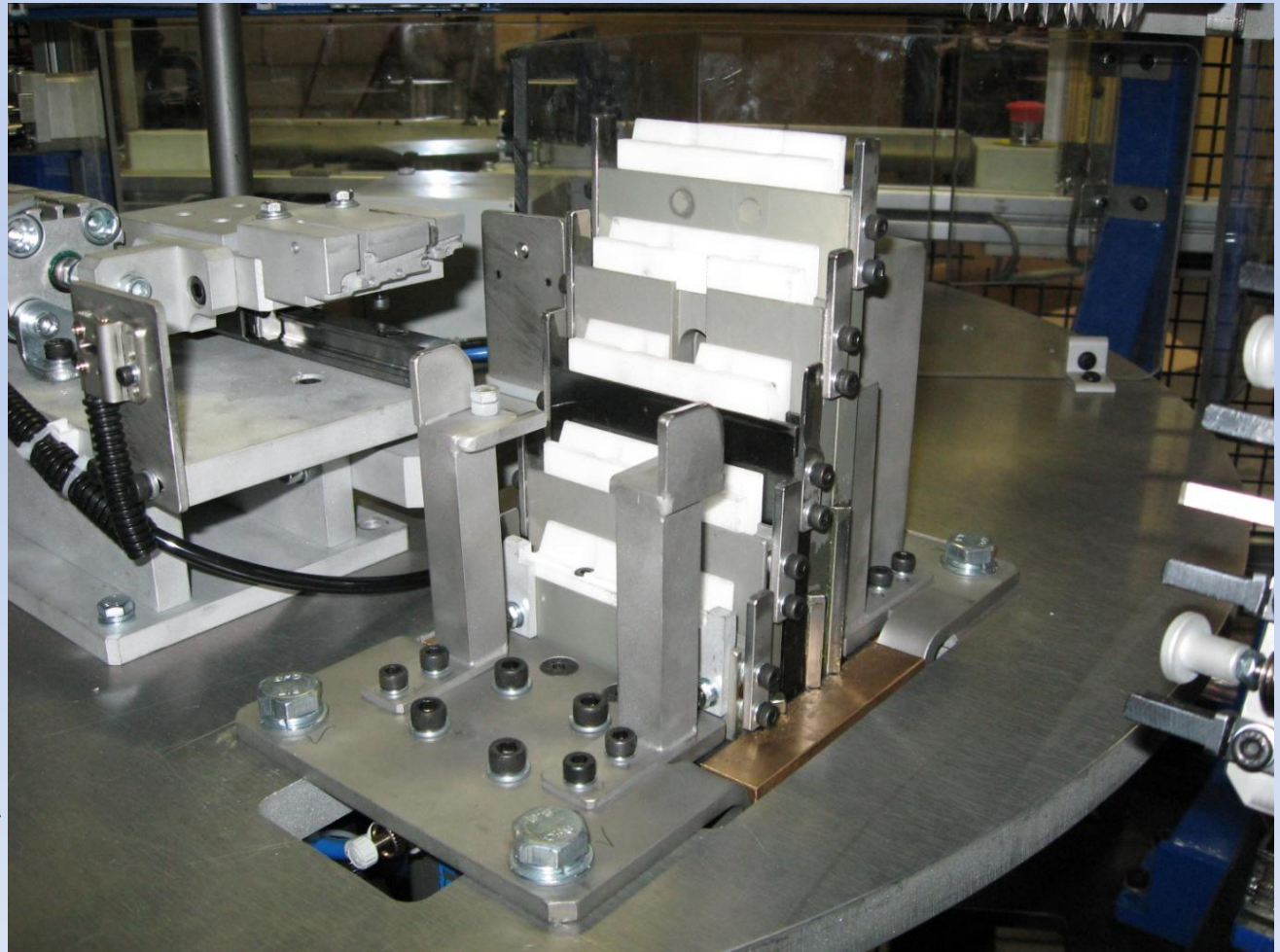
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Air Outlet Assembly Fixtures at Collins and Aikman

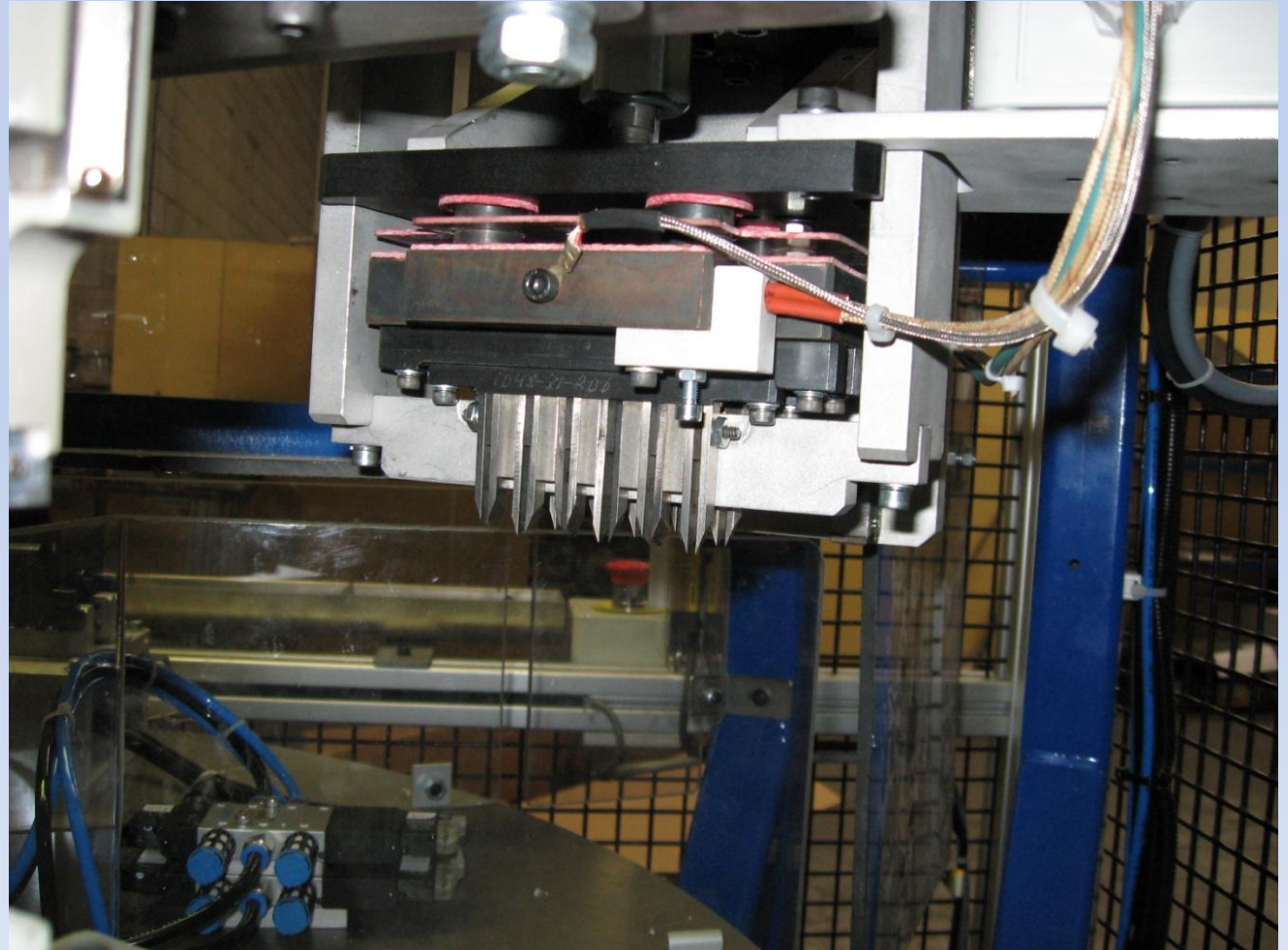
Nest with shifting blades for front louvers



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Air Outlet Assembly Fixtures at Collins and Aikman

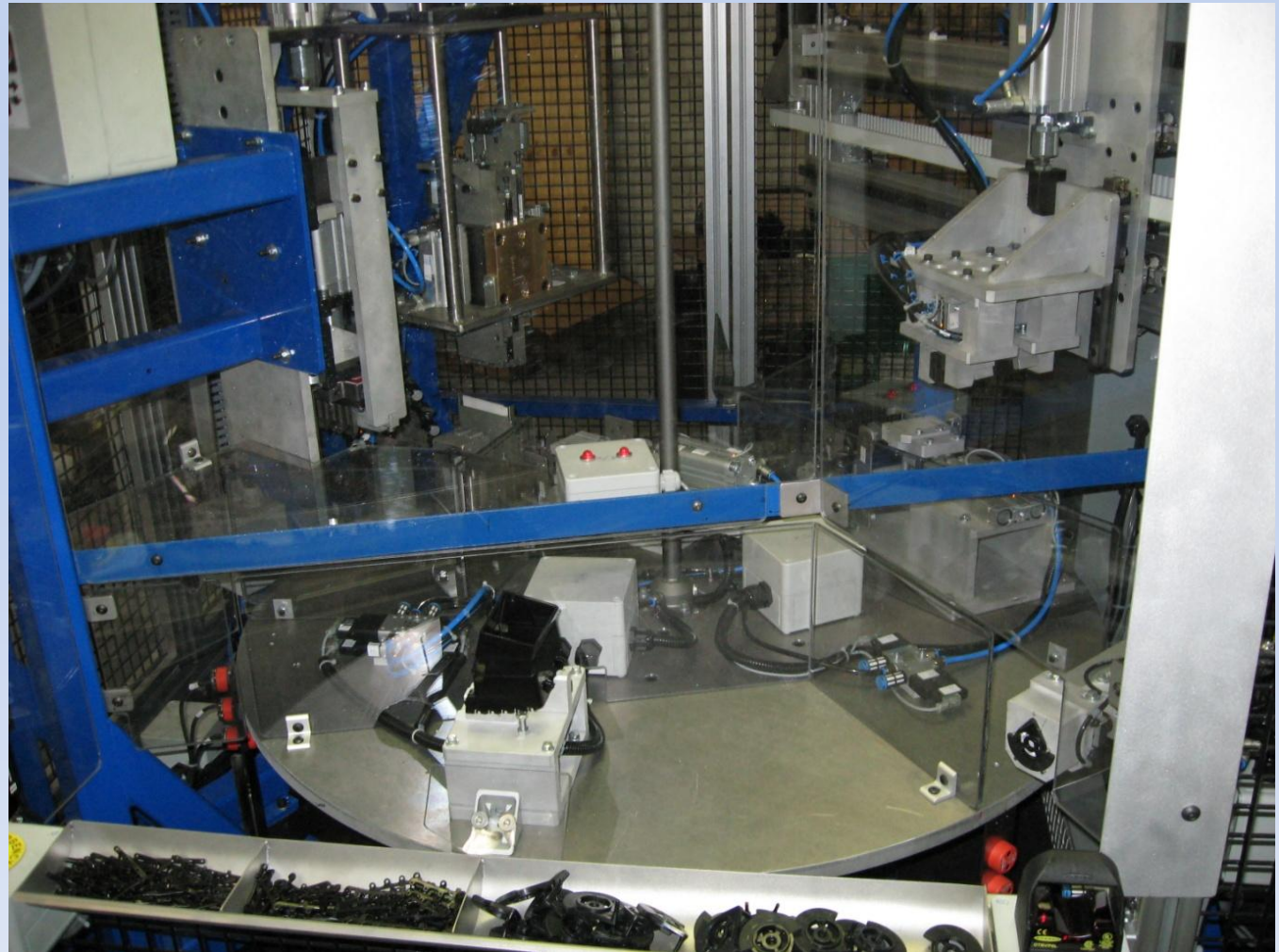
Front Louvers Degating Module



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Air Outlet Assembly Fixtures at Collins and Aikman

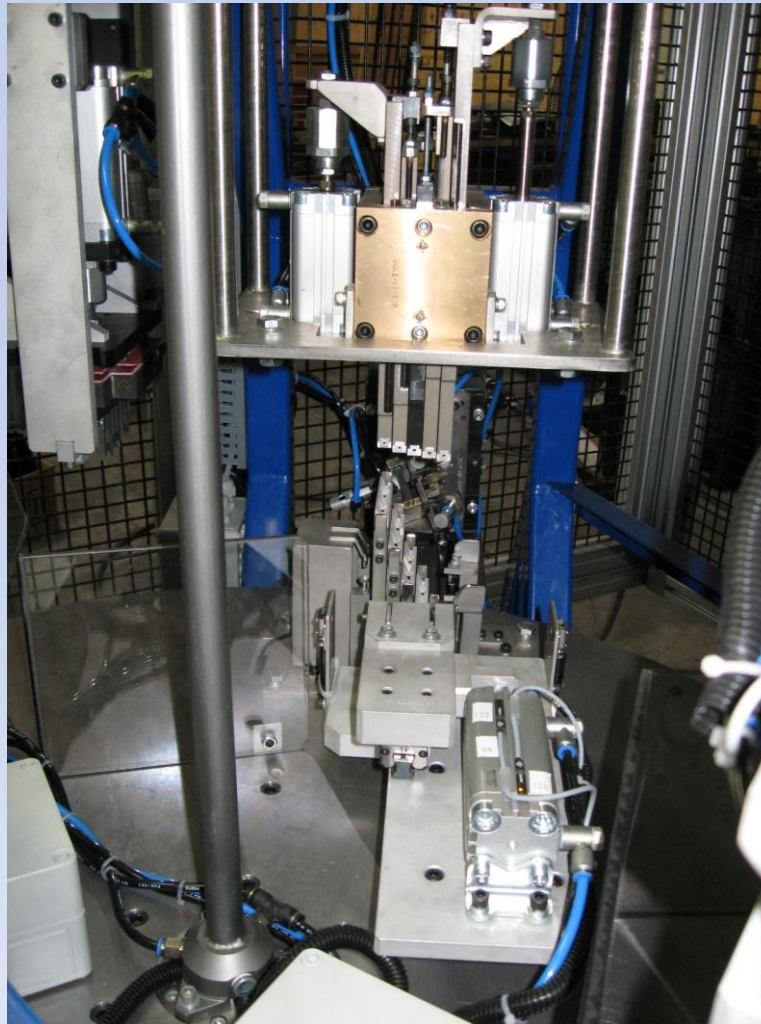
Air Outlet assembly Fixture with Rotary Table: Housing Nest



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Air Outlet Assembly Fixtures at Collins and Aikman

Air Outlet assembly Fixture with Rotary Table: Front Louvers
Shifting Nest and Clamp



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Air Outlet Assembly Fixtures at Collins and Aikman

Air Outlet assembly Fixture with Rotary Table: Front Louvers
Shifting Nest and Clamp, Link Nest



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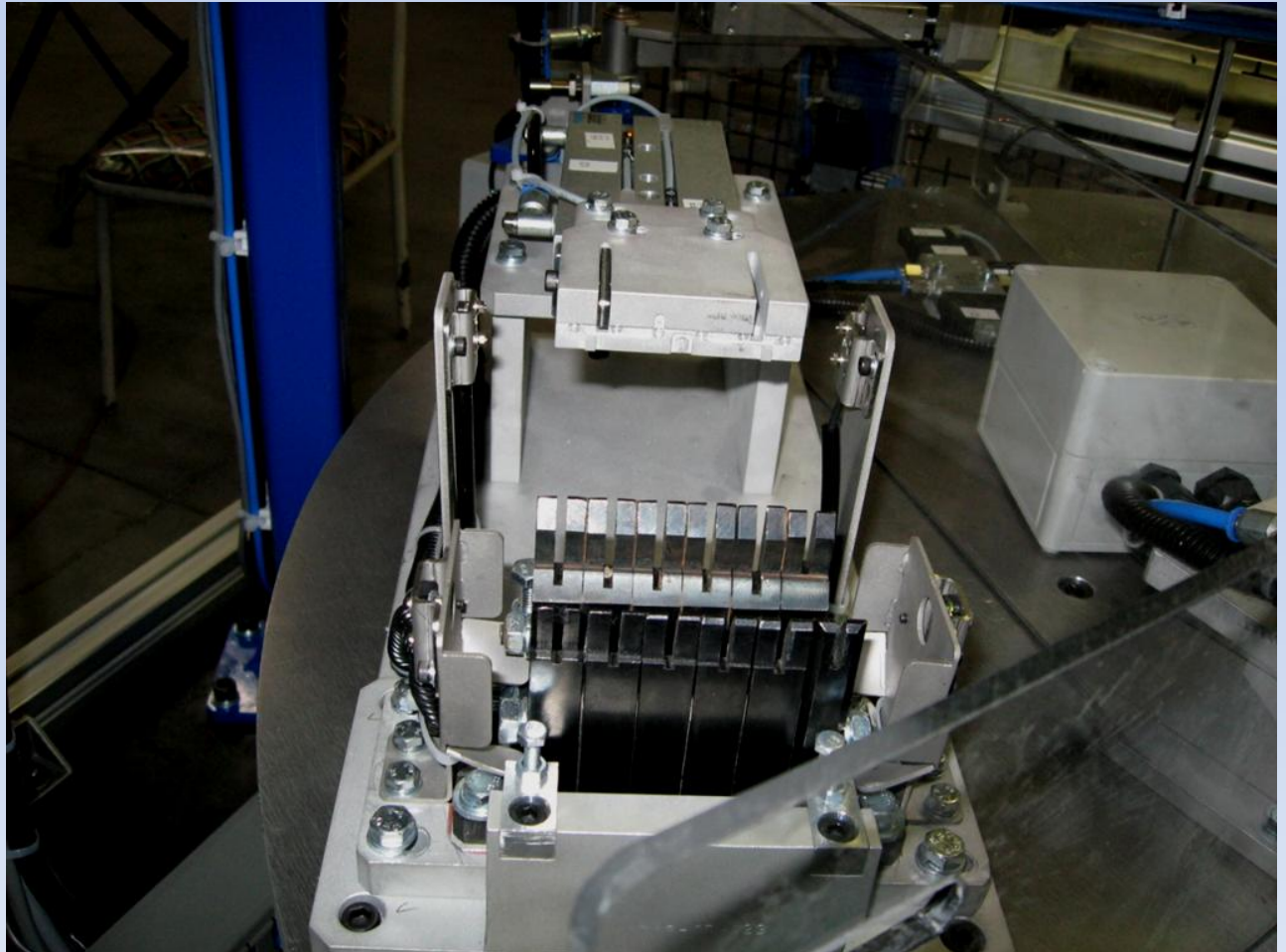
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Air Outlet Assembly Fixtures at Collins and Aikman

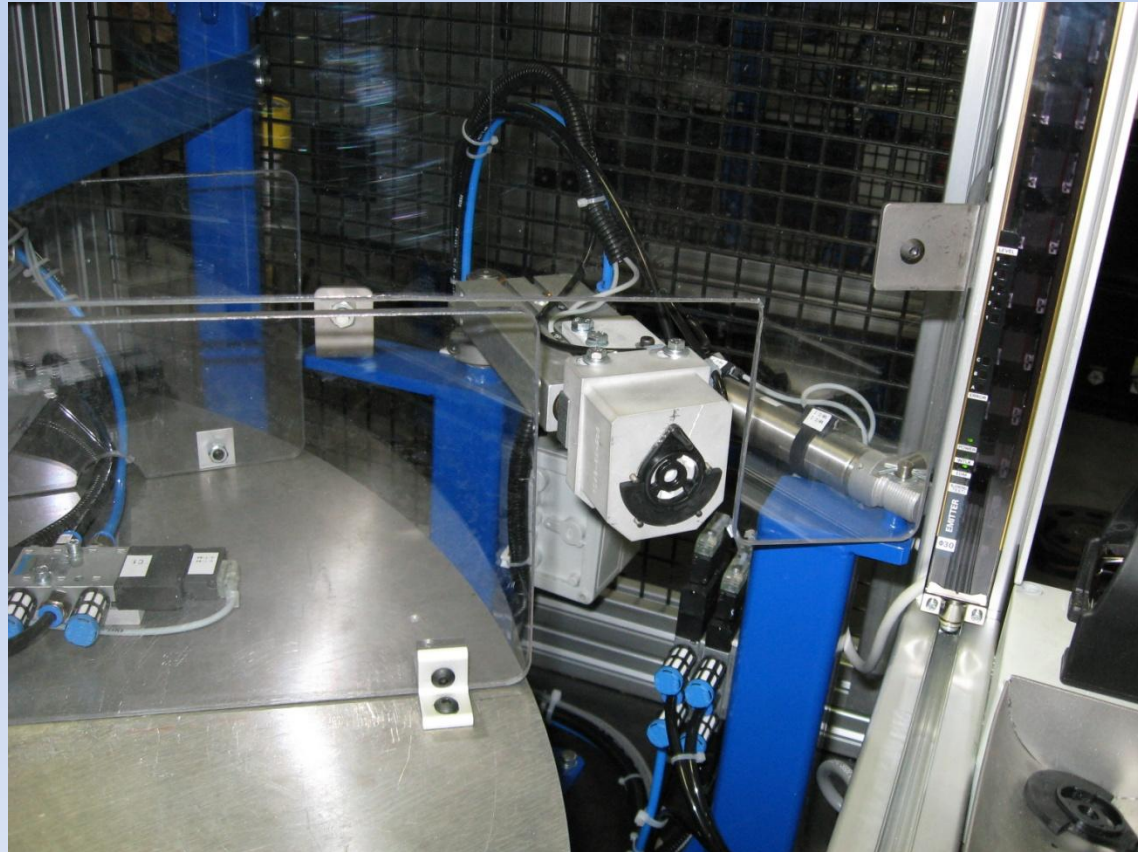
Air Outlet assembly Fixture with Rotary Table: Front Louvers
Shifting Nest and Link Nest



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Air Outlet Assembly Fixtures at Collins and Aikman

Air Outlet Assembly Fixture with Rotary Table: Thumbwheel
Assembly Pivot Module



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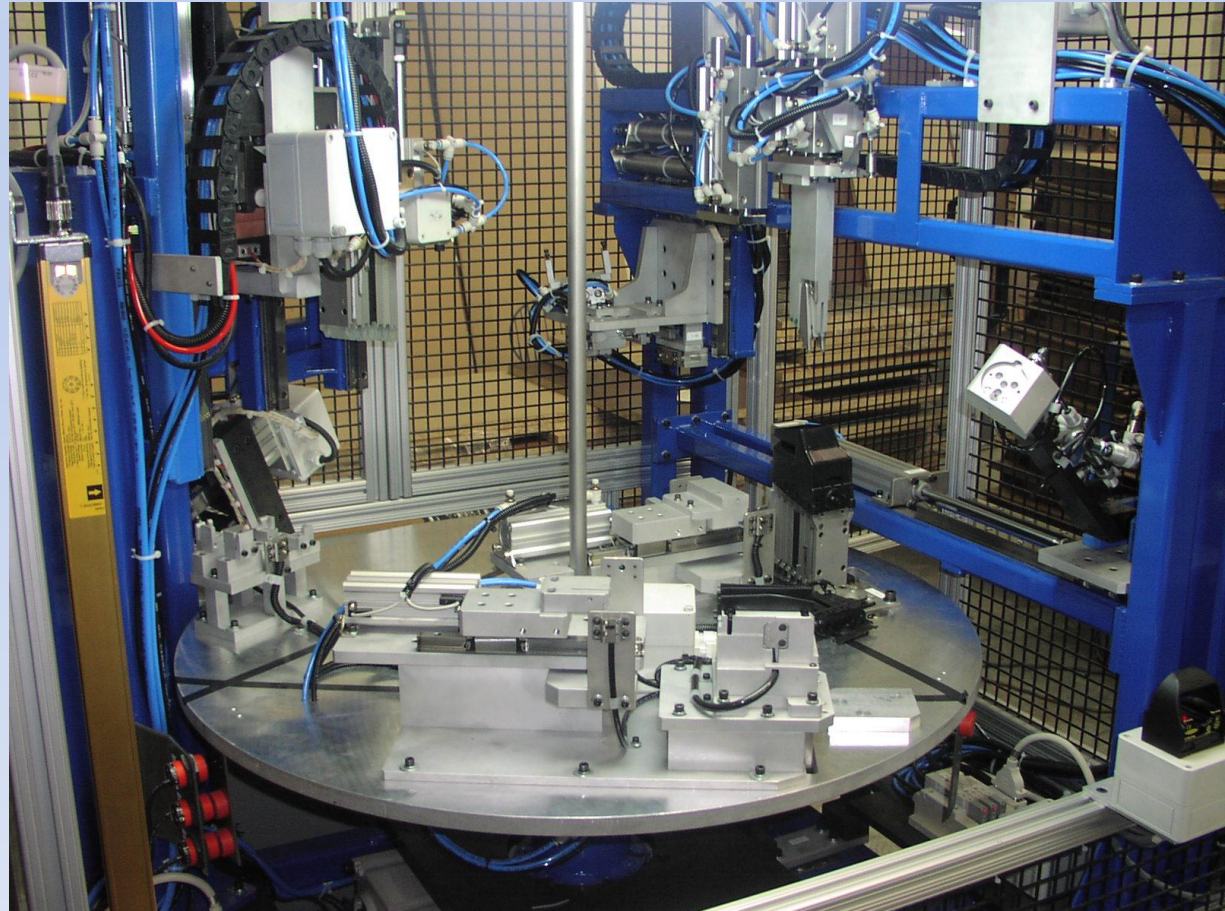
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Air Outlet Assembly Fixtures at Collins and Aikman

Air Outlet Assembly Fixture with Rotary Table: Pneumatic
Snapping Manipulator and Shifting Front Louvers Nest



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Air Outlet Assembly Fixtures at Collins and Aikman

Air Outlet Assembly Fixture with Rotary Table:
Degating Module and Shifting Front Louvers Nest



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Air Outlet Assembly Fixtures

Air Outlet Assembly Fixture with Two Rotary Tables and Transferring Manipulator



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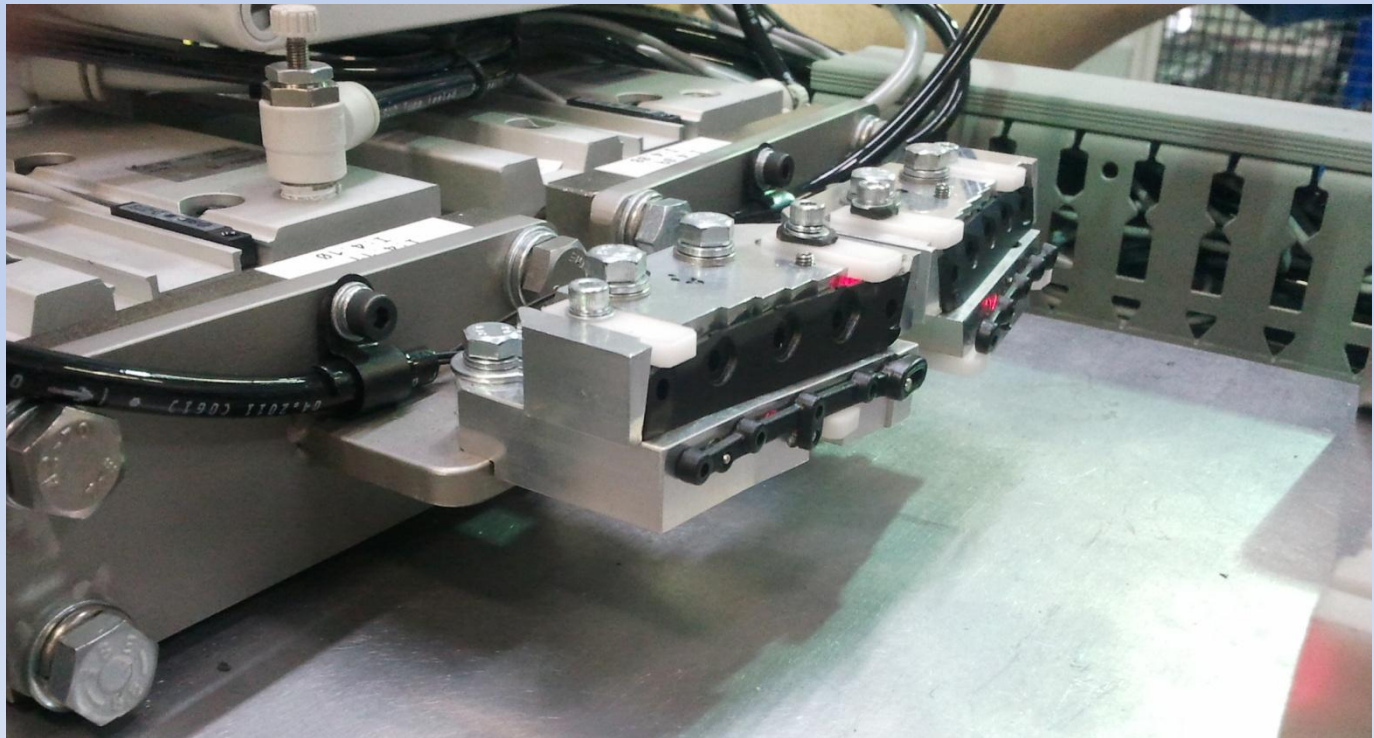
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Air Outlet Assembly Fixtures

Air Outlet Assembly Fixture : Front Louvers Combined Shim
and Link Nest



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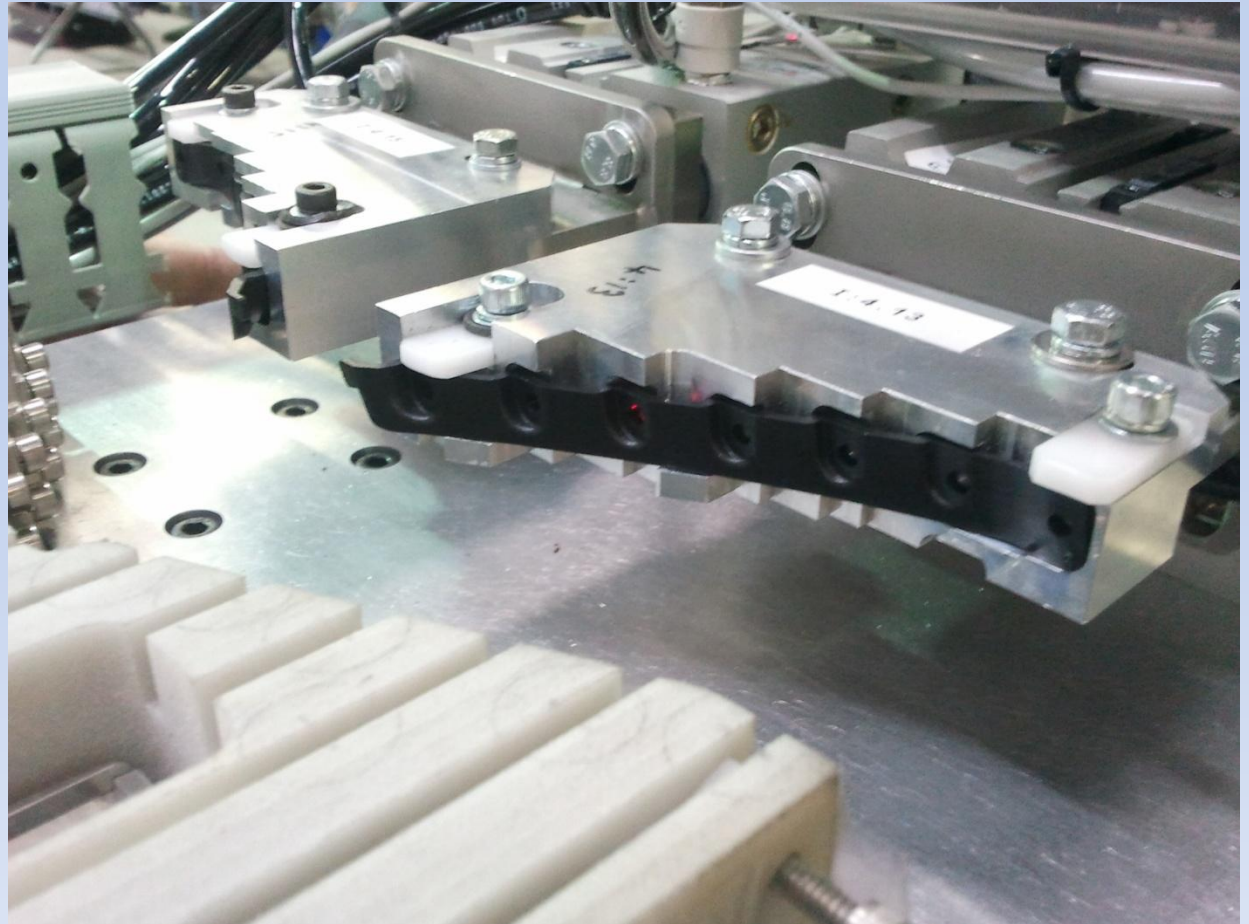
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Air Outlet Assembly Fixtures

Air Outlet Assembly Fixture : Front Louvers Link Nest



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Air Outlet Assembly Fixtures

Air Outlet Assembly Fixture : Front Louvers Control Knob
Gripper



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Air Outlet Assembly Fixtures

Air Outlet Assembly Fixture: Front Louvers Set Assembly
with Direct Robotic Loading of Louvers from Mold



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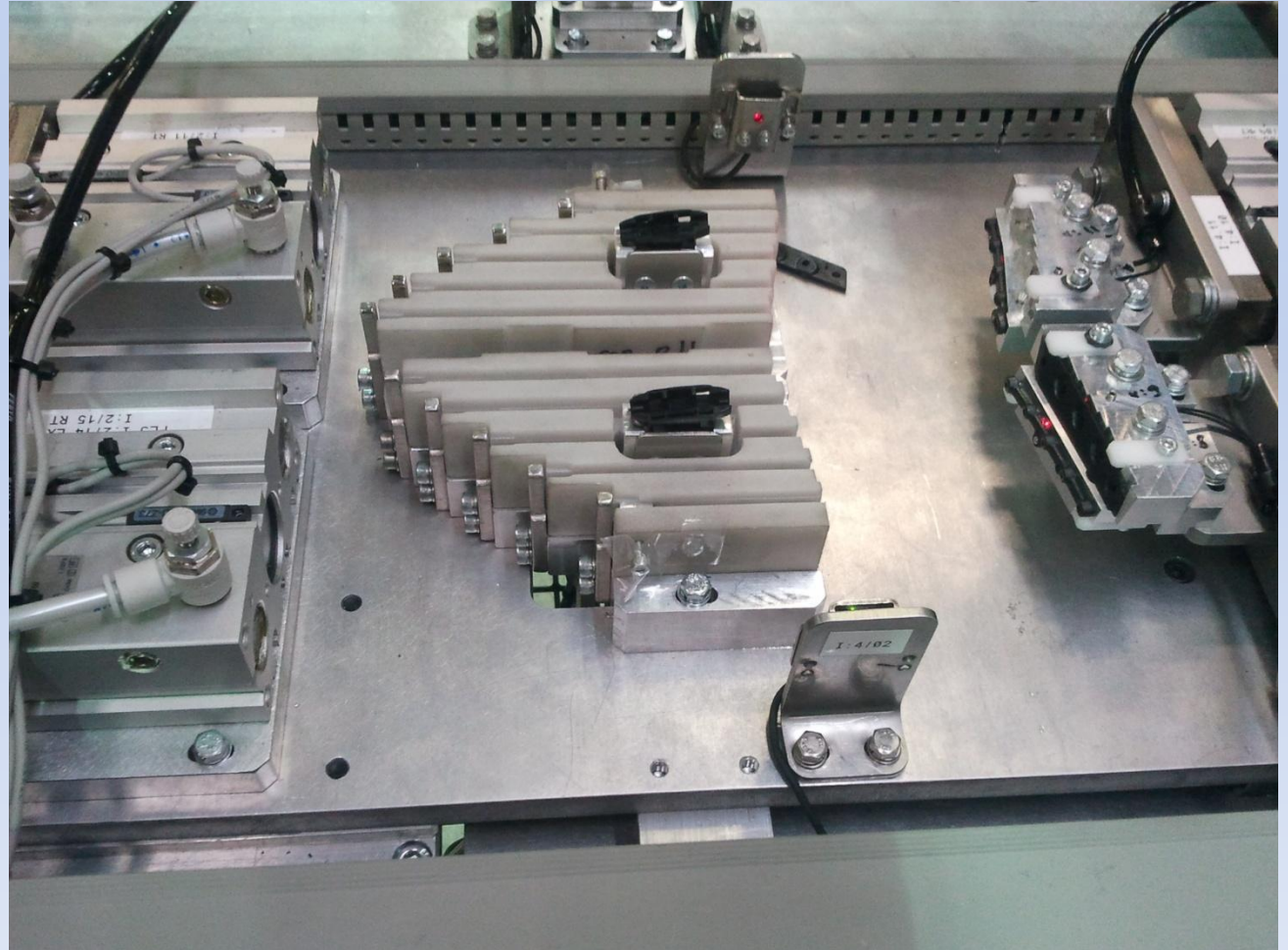
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Air Outlet Assembly Fixtures

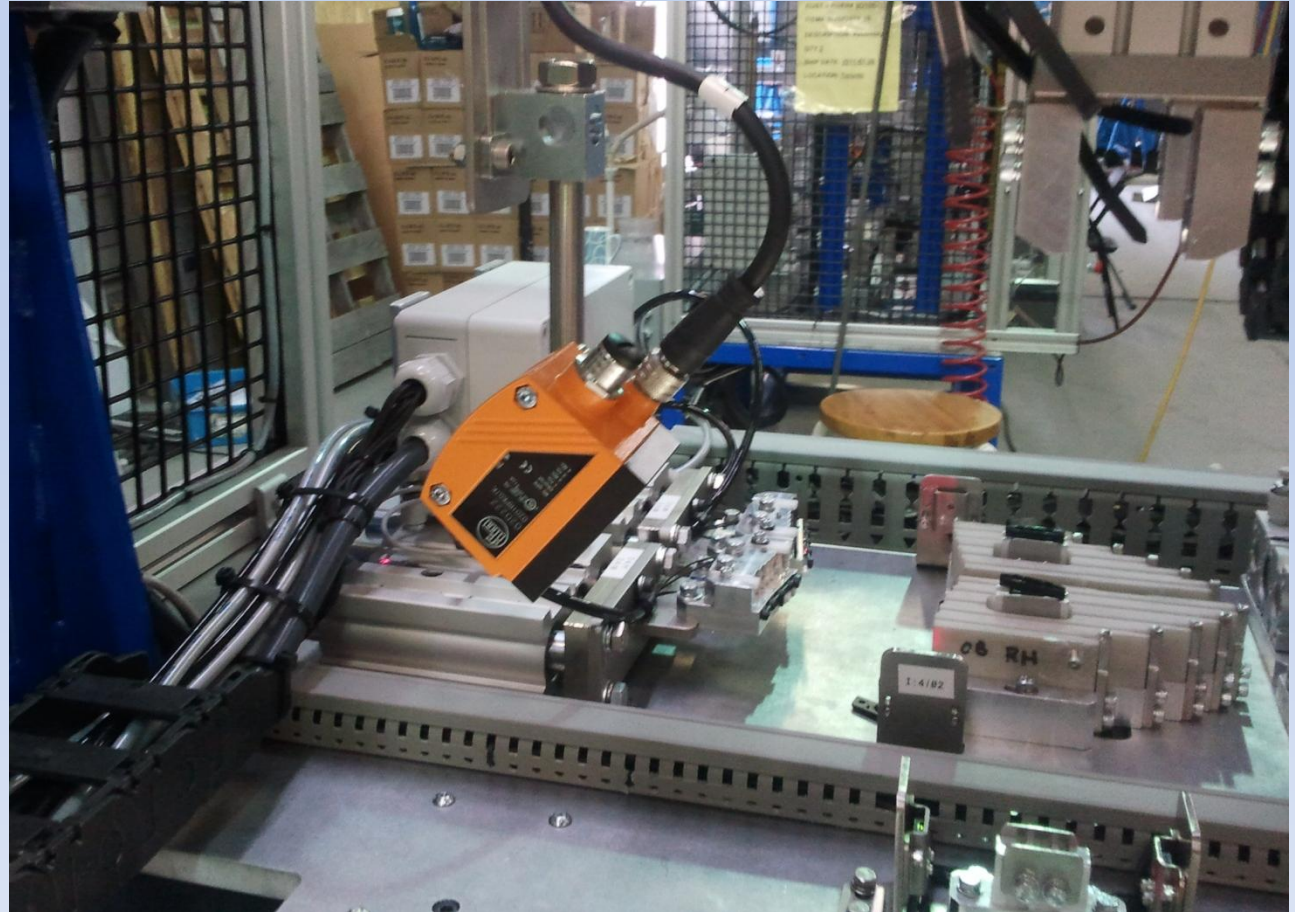
Front Louvers Set Assembly with Direct Robotic Loading of Louvers
from Mold: Front Louvers, Knobs, Links and Shims Nests



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Air Outlet Assembly Fixtures at Ultra Mfg

Front Louvers Set Assembly with Direct Robotic Loading of
Louvers from Mold: Vision System for Pocka-Youke



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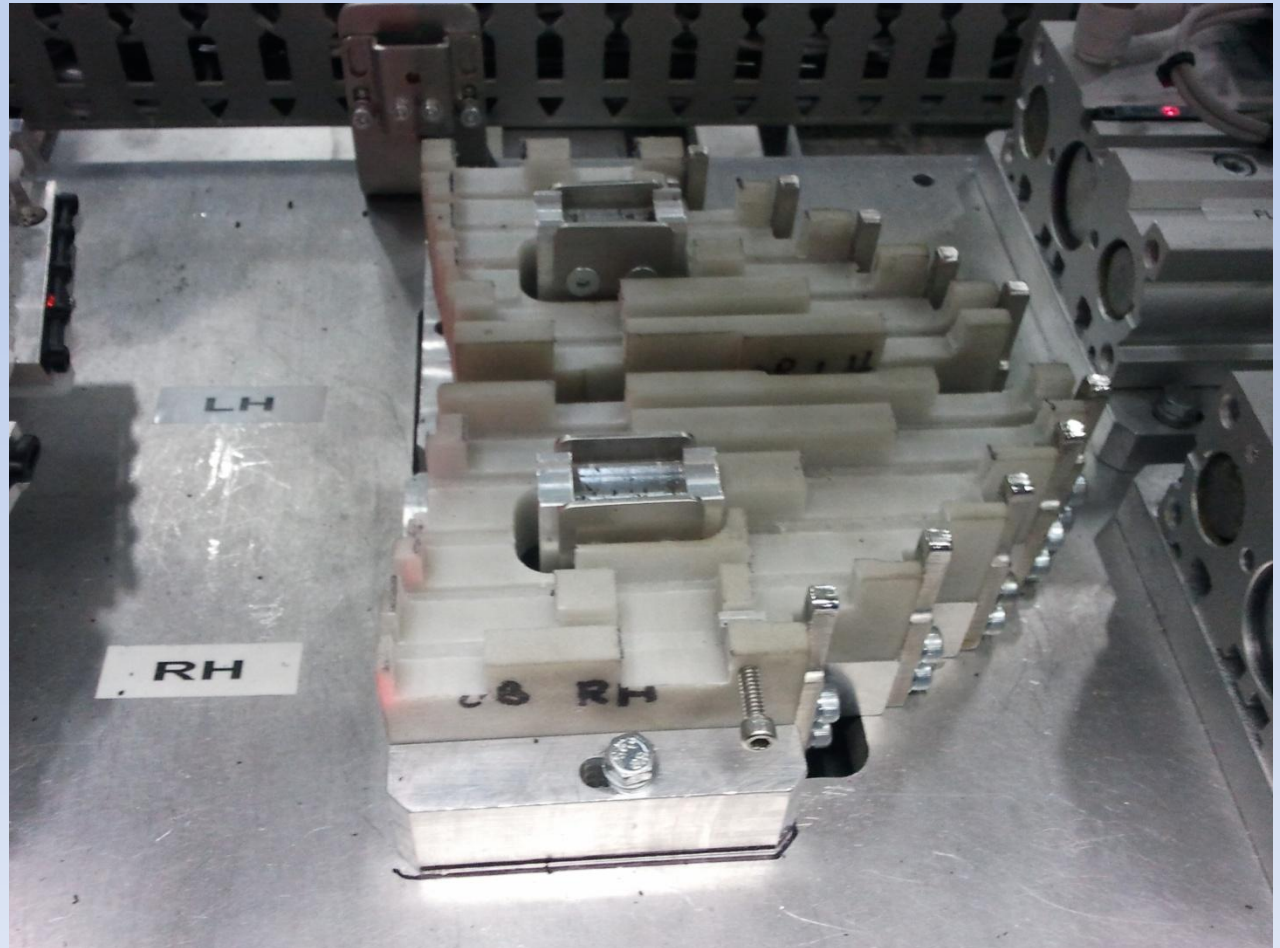
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Air Outlet Assembly Fixtures

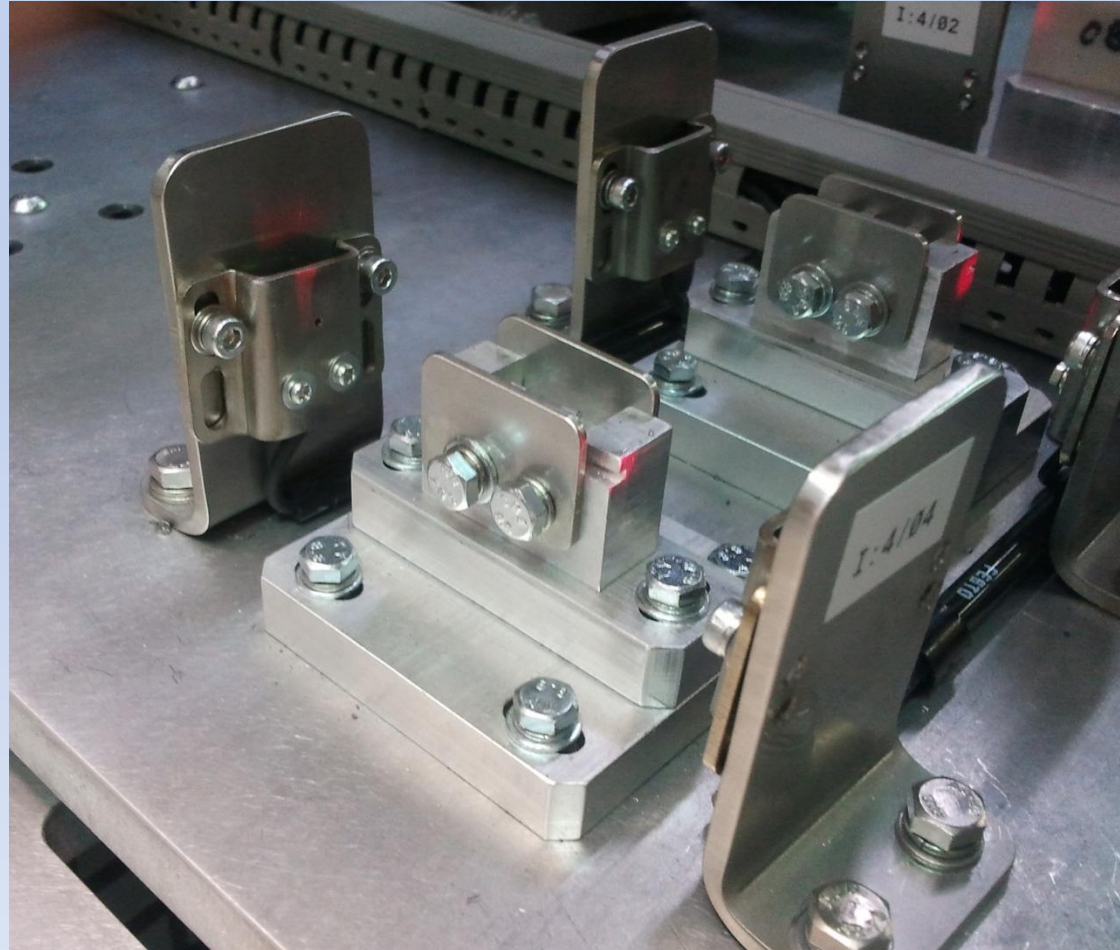
Front Louvers Set Assembly with Direct Robotic Loading of Louvers from Mold: Front Louvers Nests for direct loading



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Air Outlet Assembly Fixtures

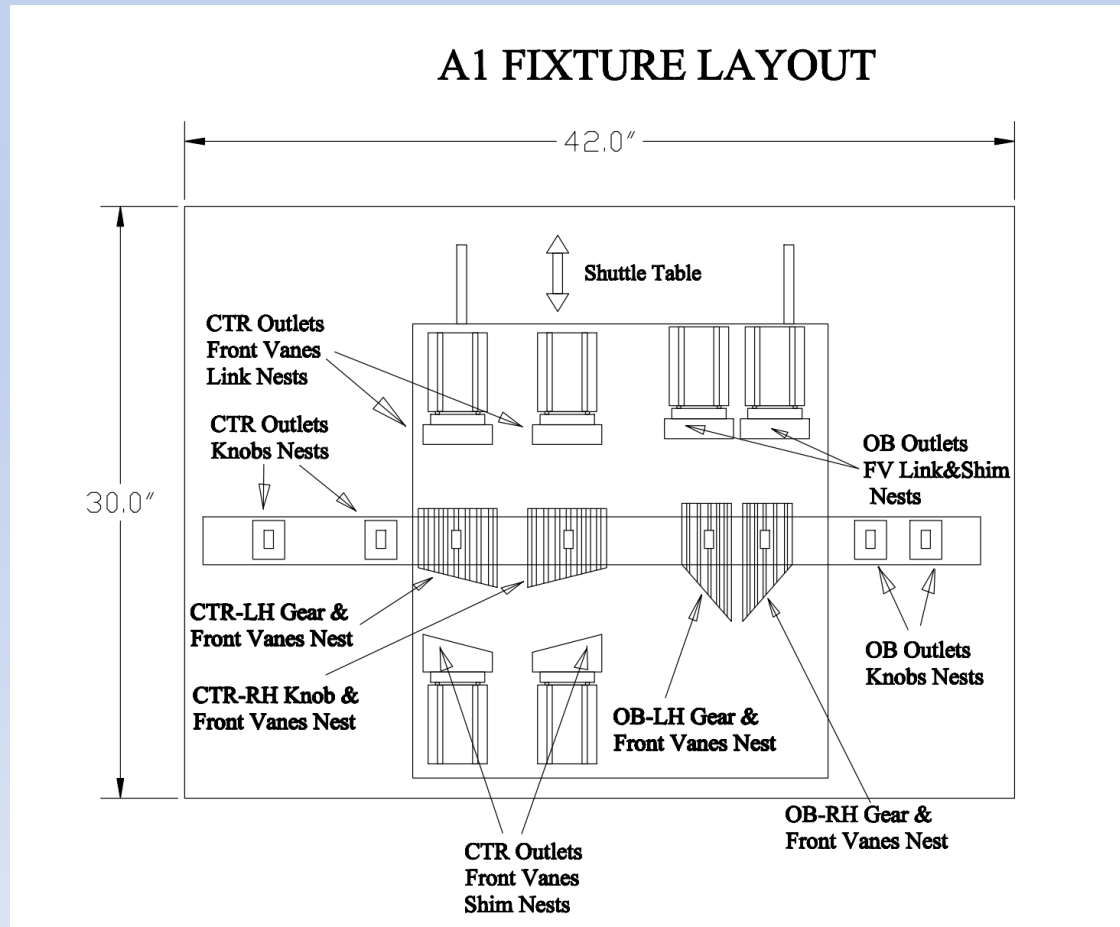
Front Louvers Set Assembly with Direct Robotic Loading of Louvers from Mold: Gear Nests



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Air Outlet Assembly Fixtures

Front Louvers Set Assembly with Direct Robotic Loading of Louvers from Mold: Flexible Layout for CNTR and OB outlets



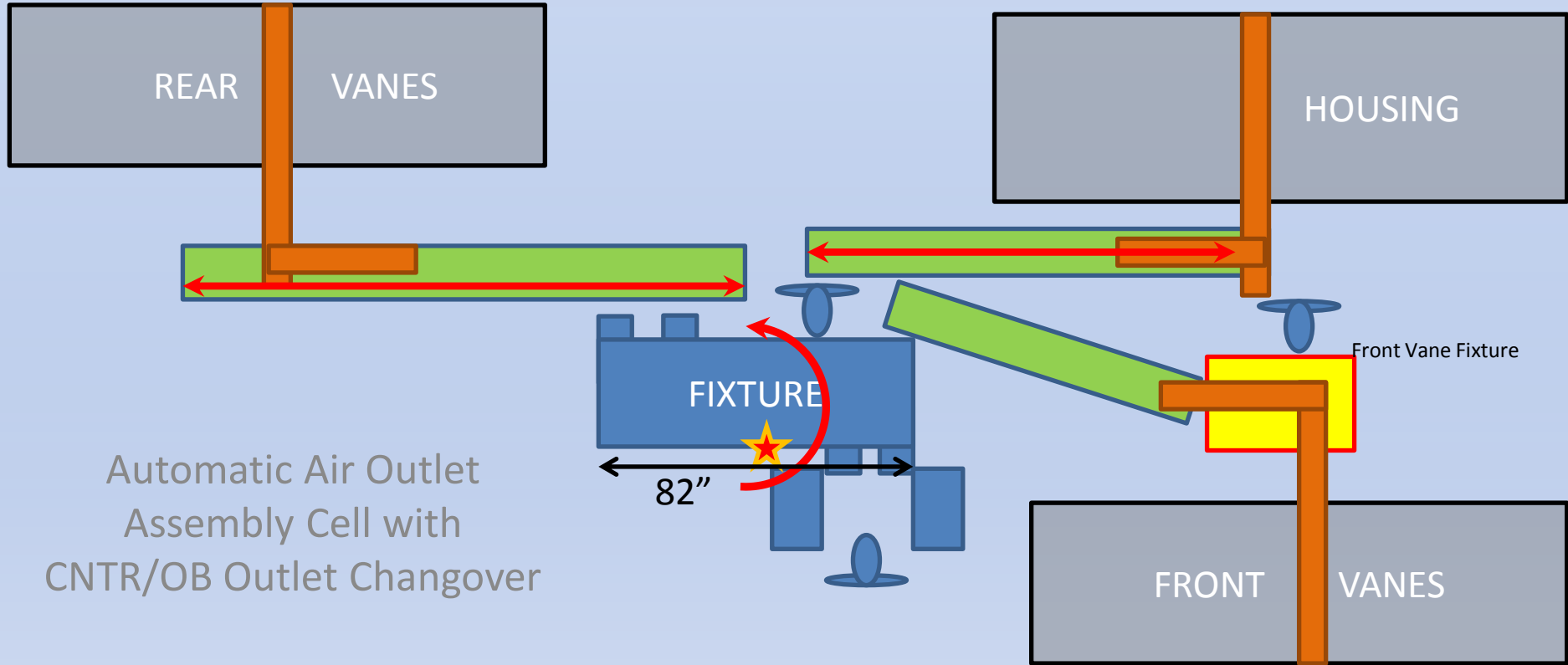
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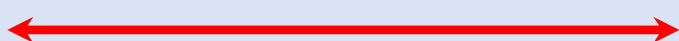
Air Outlet Assembly Fixtures



Automatic Air Outlet
Assembly Cell with
CNTR/OB Outlet Changover

 Over head Power connection via a disconnect (to be disconnected before rotation).

Indicates the fixture to be rotated 180' at changeover

 Indicates Conveyor can be moved back & Forth on a track & Locked.



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Air Outlet Assembly Fixtures

Air Outlet assembly Fixture with Direct Rear Vanes loading from Mold



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Air Outlet Assembly Fixtures

Air Outlet assembly Fixture with Direct Rear Vanes loading
from Mold: Front Louvers Mold Robot Gripper



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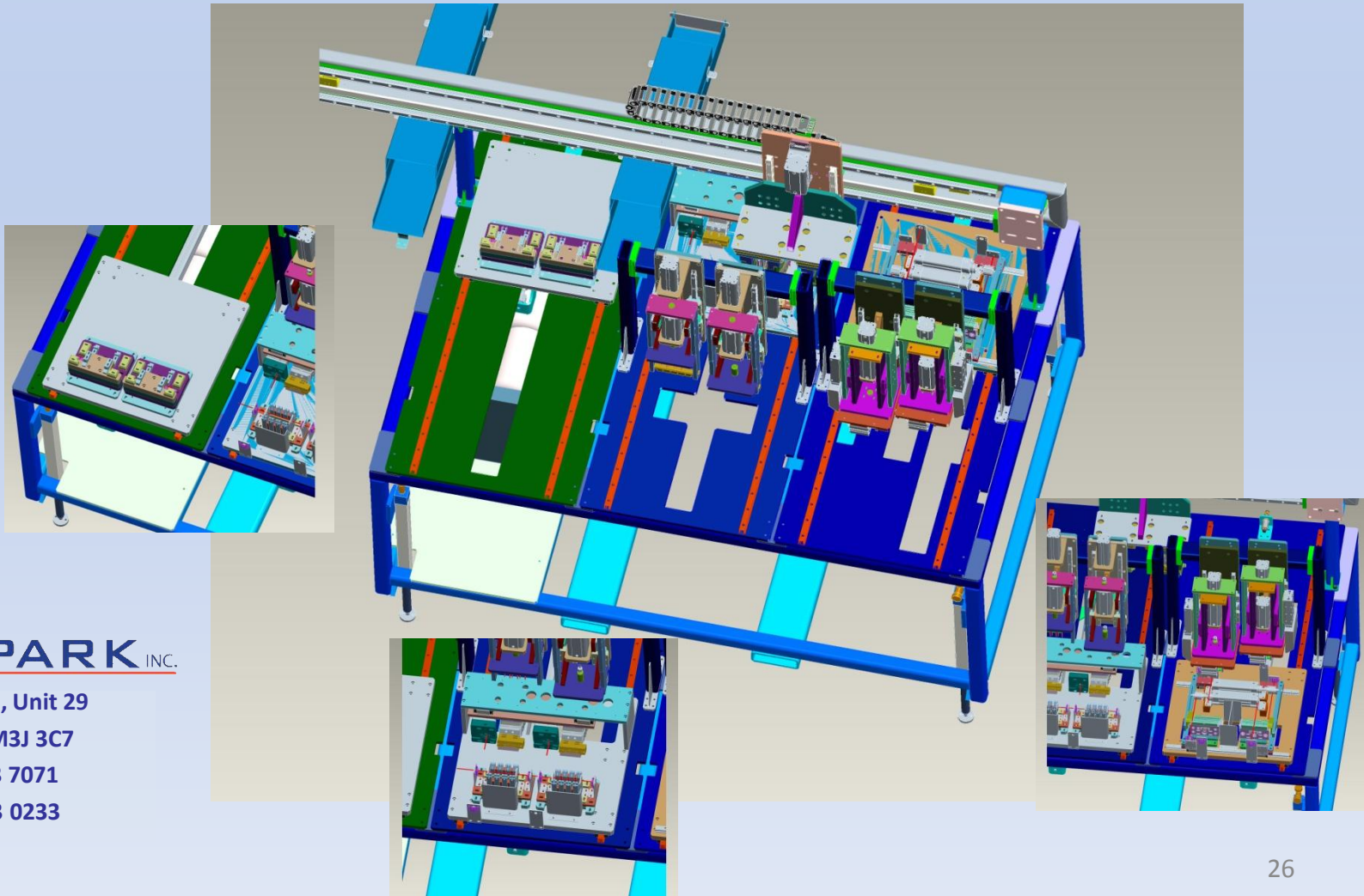
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Air Outlet Assembly Fixtures

Air Outlet Assembly Fixture: Linear Servo Manipulator with Three Shuttle Tables



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Air Outlet Assembly Fixtures

Air Outlet Assembly Fixture: Linear Servo Manipulator with Three Shuttle Tables



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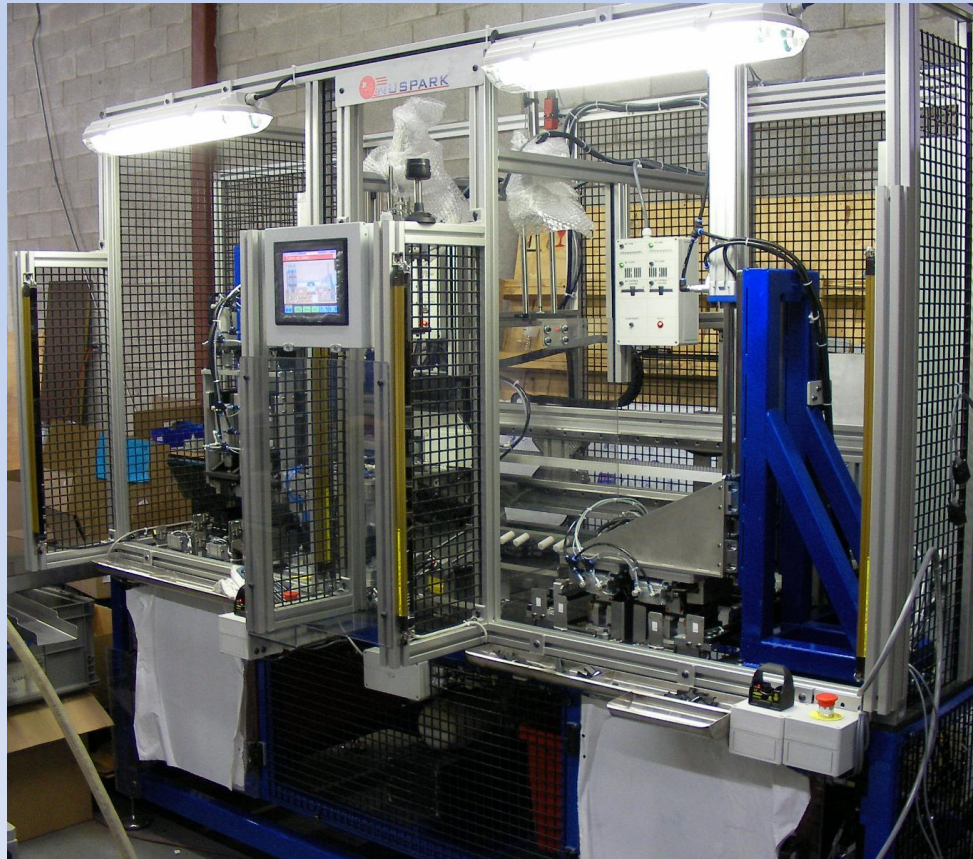
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Air Outlet Assembly Fixtures

Air Outlet assembly Fixture: Linear Servo Manipulator and Two Loading Stations



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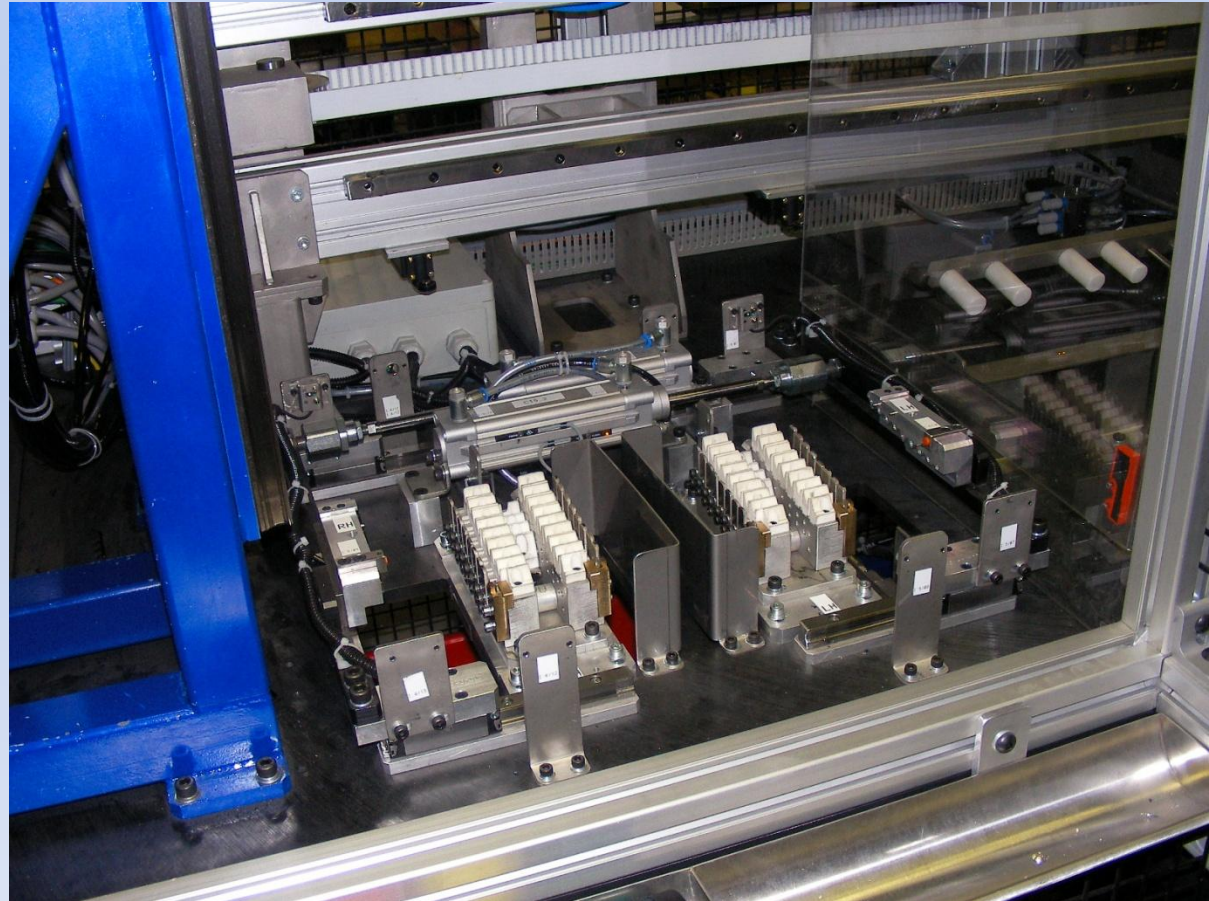
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Air Outlet Assembly Fixtures

Air Outlet assembly Fixture: Linear Servo Manipulator and Two Loading Stations – Front Louvers Station



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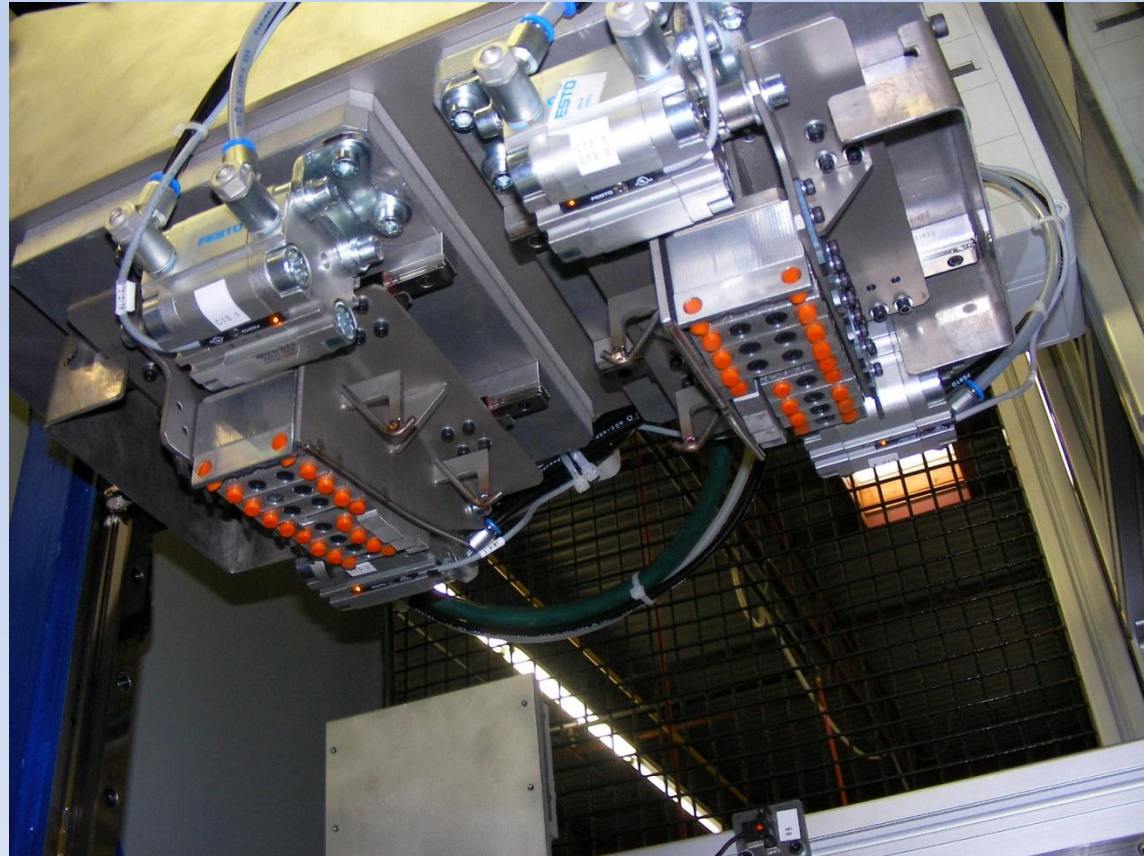
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Air Outlet Assembly Fixtures at Ultra Mfg

Air Outlet assembly Fixture: Linear Servo Manipulator and
Two Loading Stations – Front Louvers Clamp



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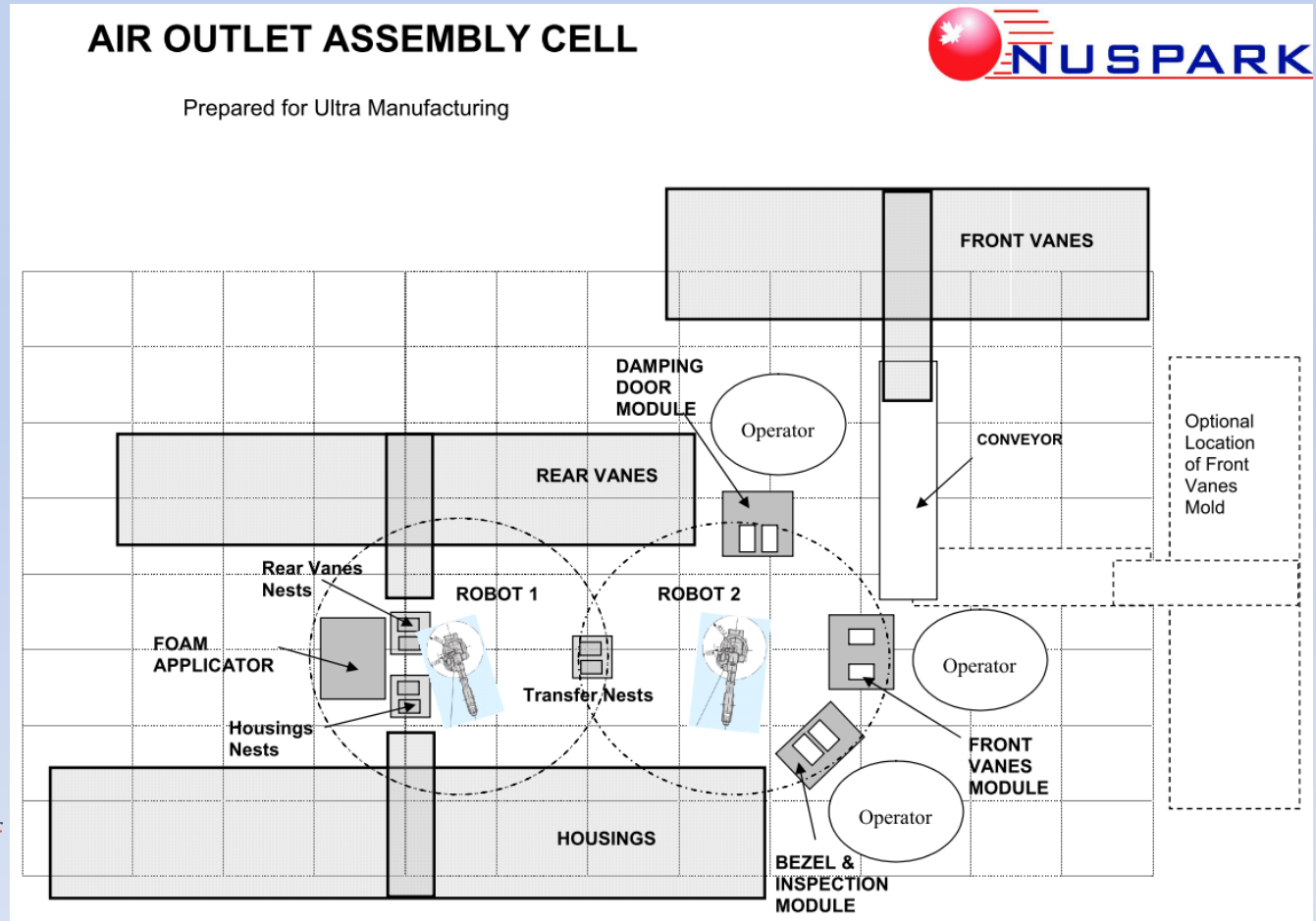
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Air Outlet Assembly Fixtures

Air Outlet Assembly Cell: Modular Concept



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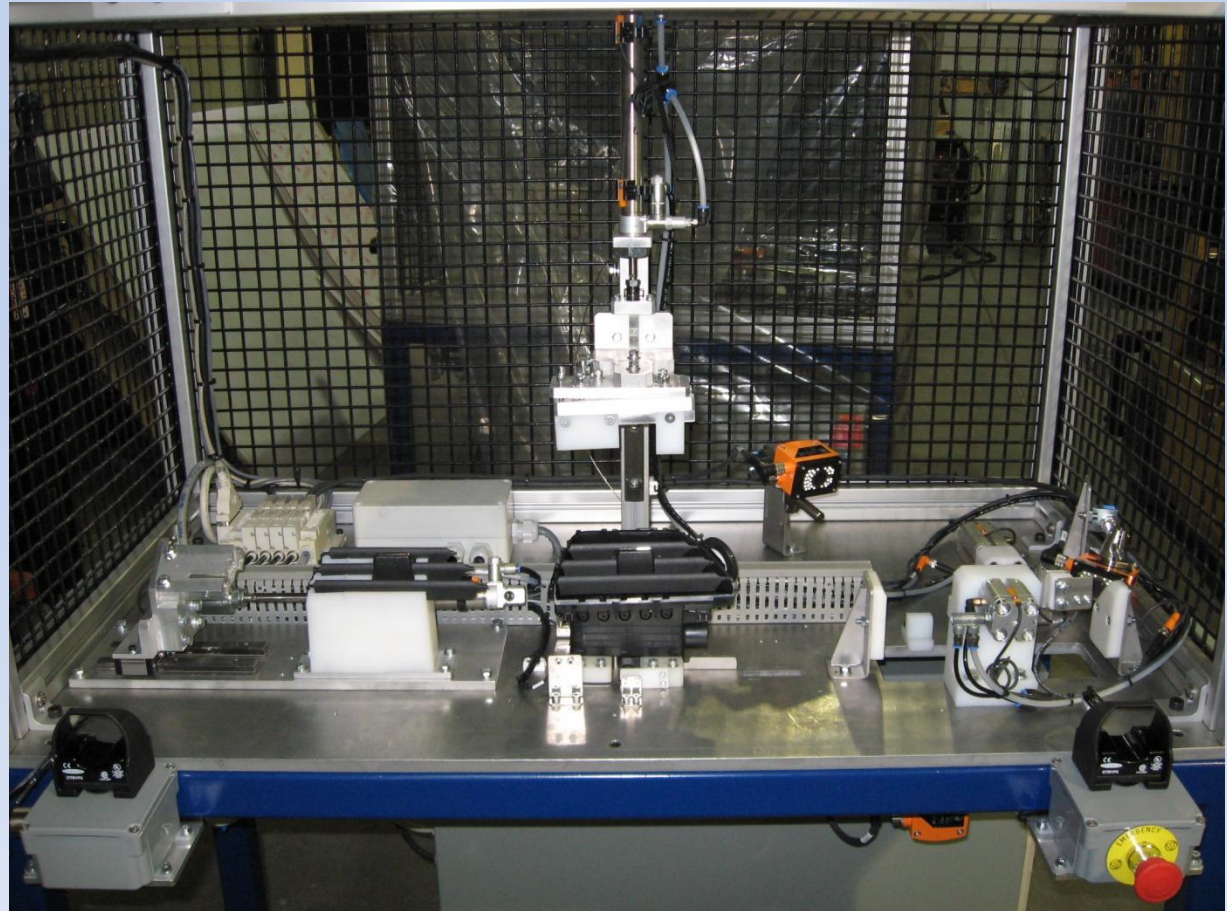
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Air Outlet Assembly Fixtures

Air Outlet Semi-automatic Assembly Fixture: : Vision System
for full pocka-yoke



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Air Outlet Assembly Fixtures at JVIS

Air Outlet Assembly Robotic Cell: Console Doubled Outlet



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Air Outlet Assembly Fixtures at JVIS

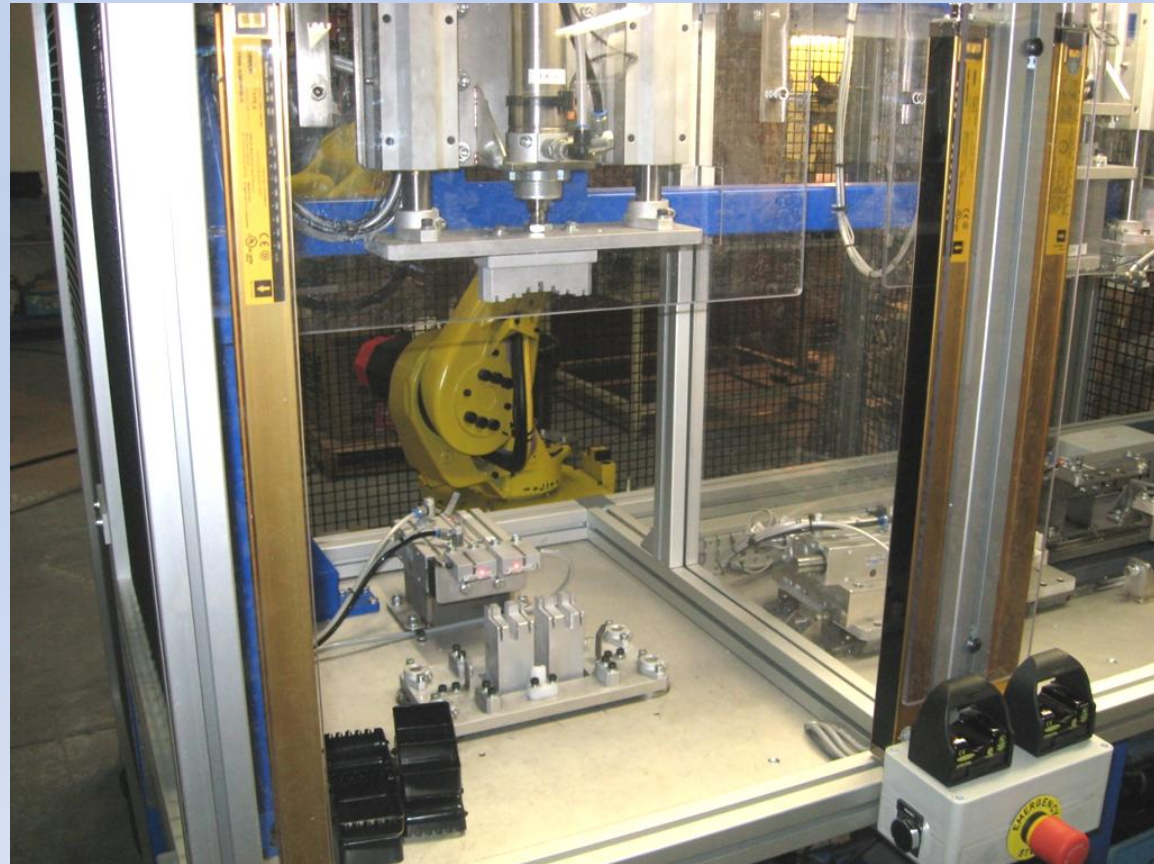
Air Outlet Assembly Robotic Cell: Console Doubled Outlet –
Front Louvers Shifted Nests



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Air Outlet Assembly Fixtures at JVIS

Air Outlet Assembly Robotic Cell: Console Doubled Outlet –
Rear Vanes Station



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Air Outlet Assembly Fixtures at JVIS

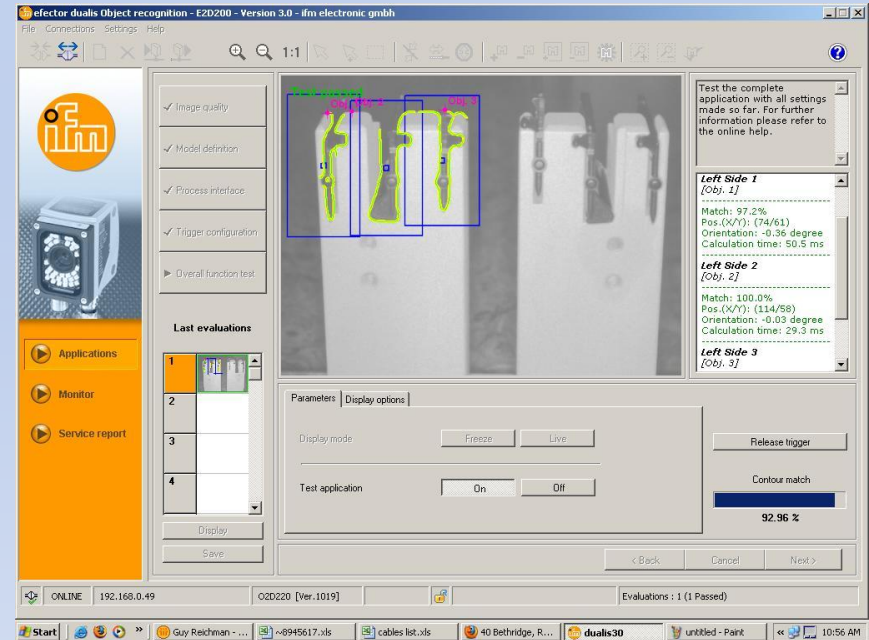
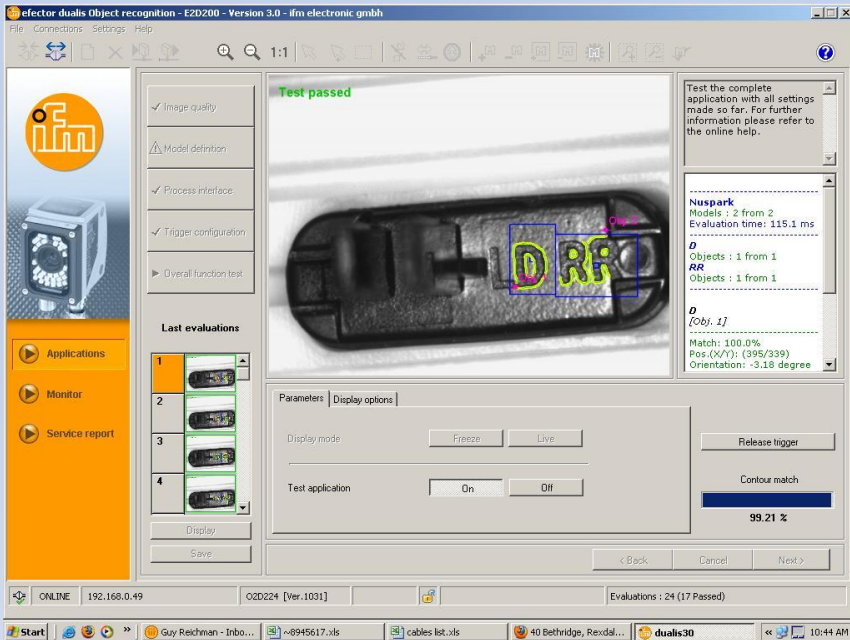
Air Outlet Assembly Robotic Cell: Console Doubled Outlet –
Snapping Robot with Visual System for pocka-youke



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Air Outlet Assembly Fixtures at JVIS

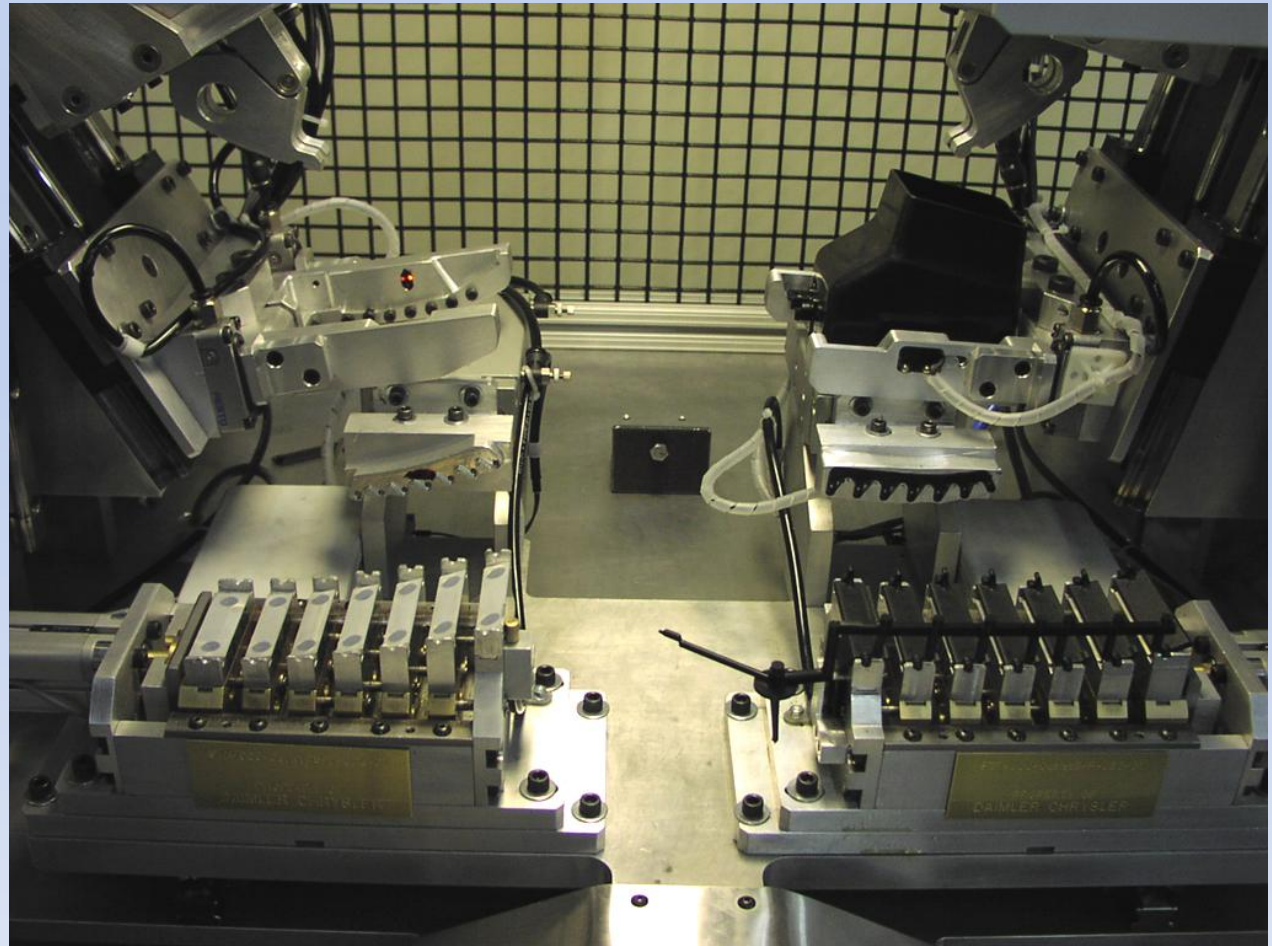
Vision System for Fork and Rear Vanes pocka -youcke



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Air Outlet Assembly Fixtures at PMP

2-Up Format



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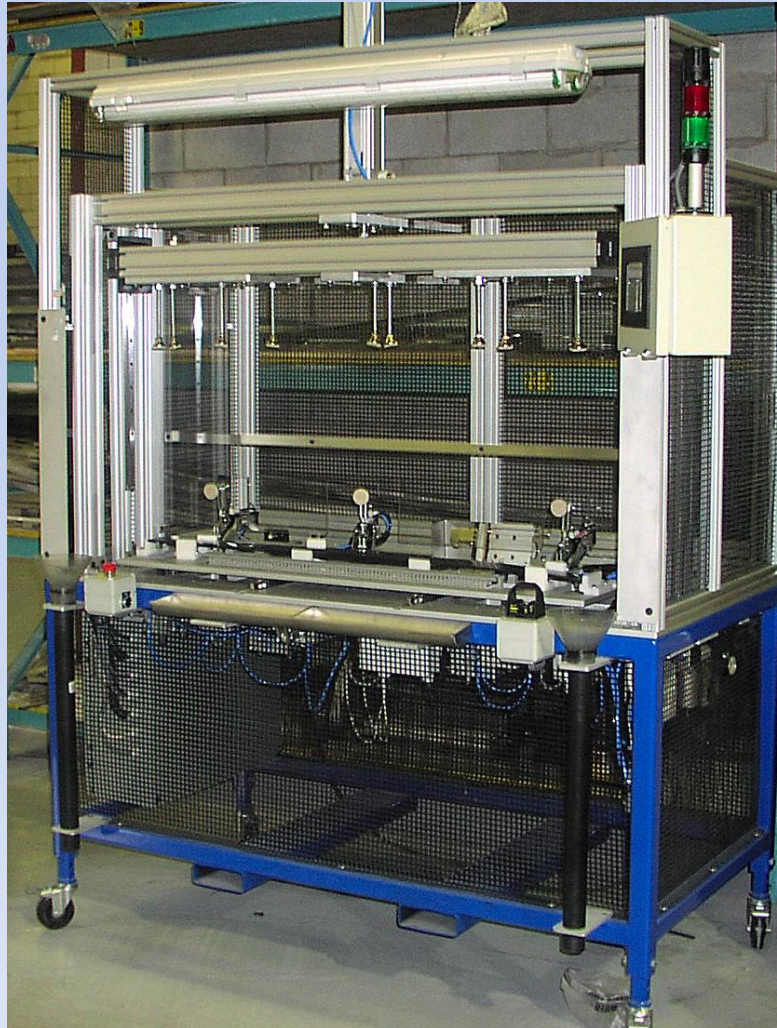
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Clip Assembly and Degating Fixture

Two Positions Shuttle Table, Metal Clip



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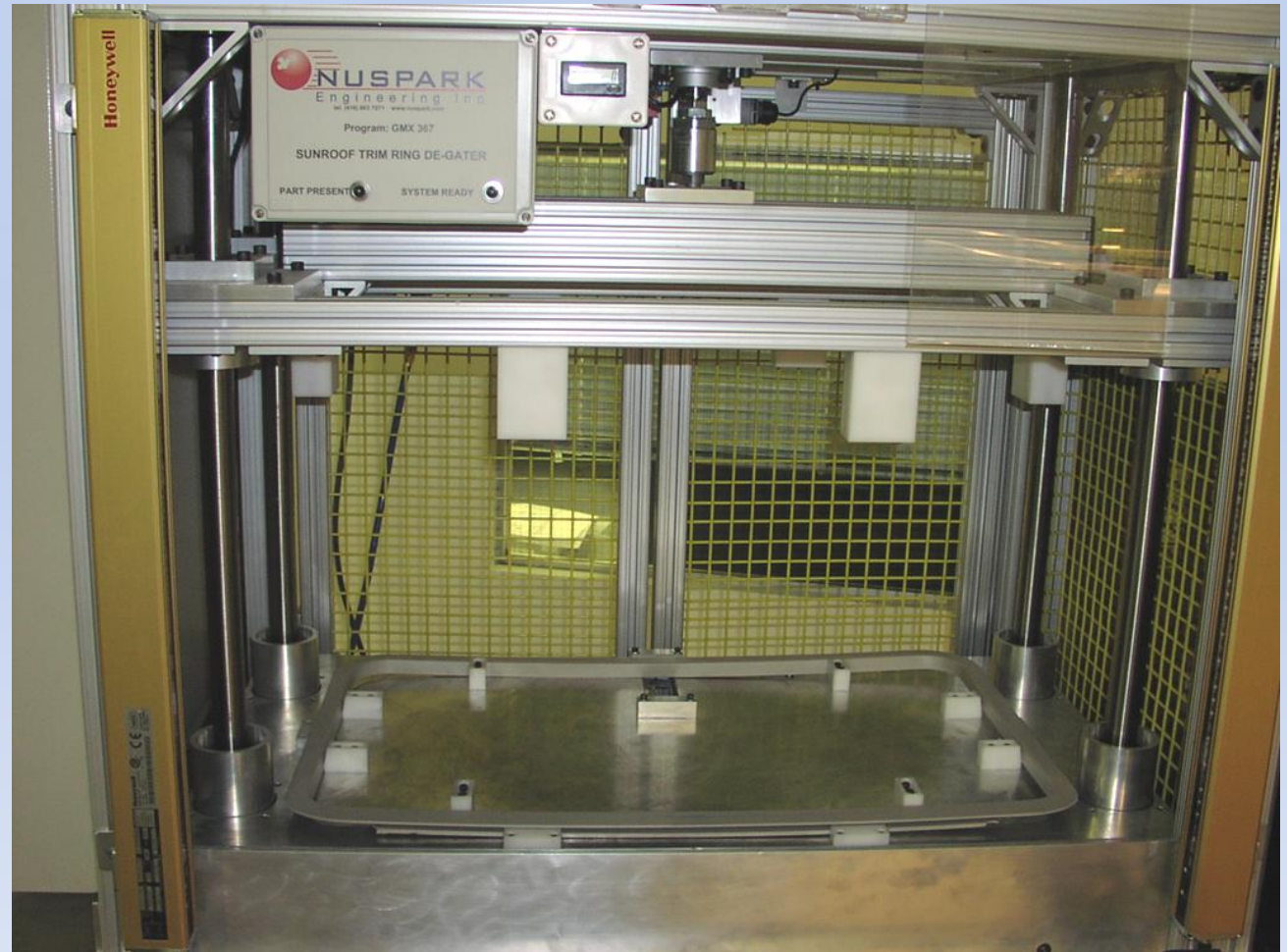
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Degating Fixture at Collins and Aikman

Sunroof Trim Ring



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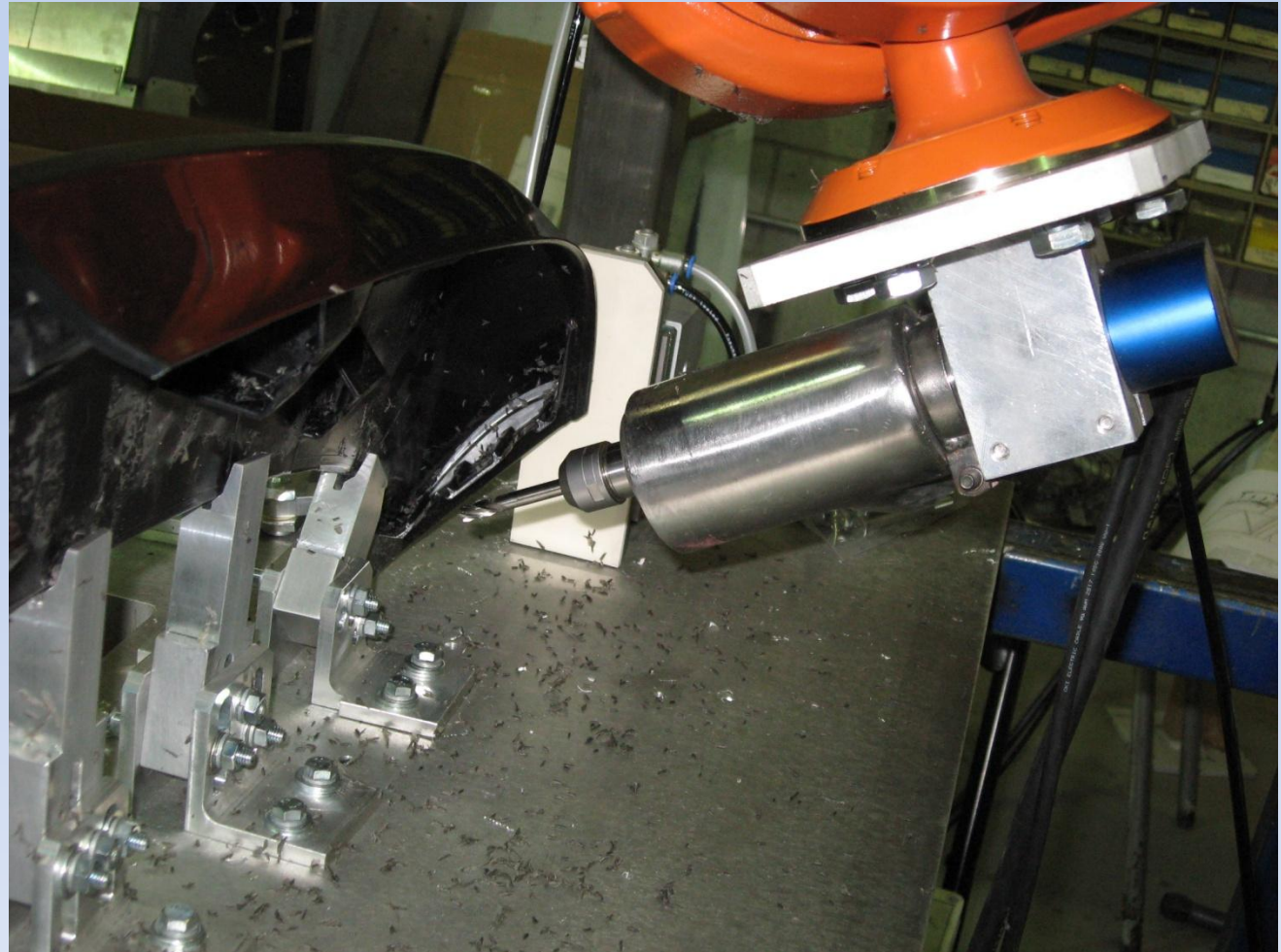
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Robotic Equinox Spoiler Degating Cell at ABC

Electrical Router, Inline with Mold



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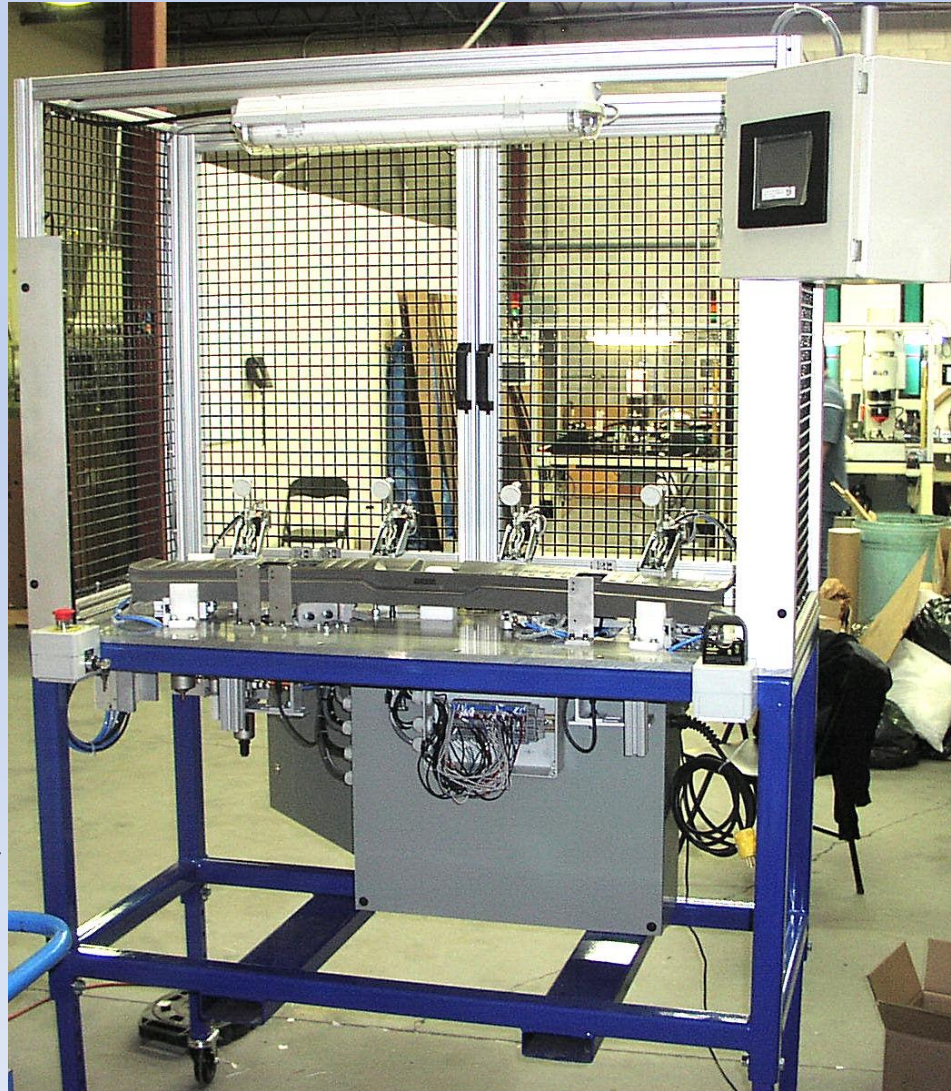
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Clip Assembly Fixture at Kumi (Honda)

Plastic Clips



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Tapping Fixture at Multimatic (Magna)

Automatic Nut Gun



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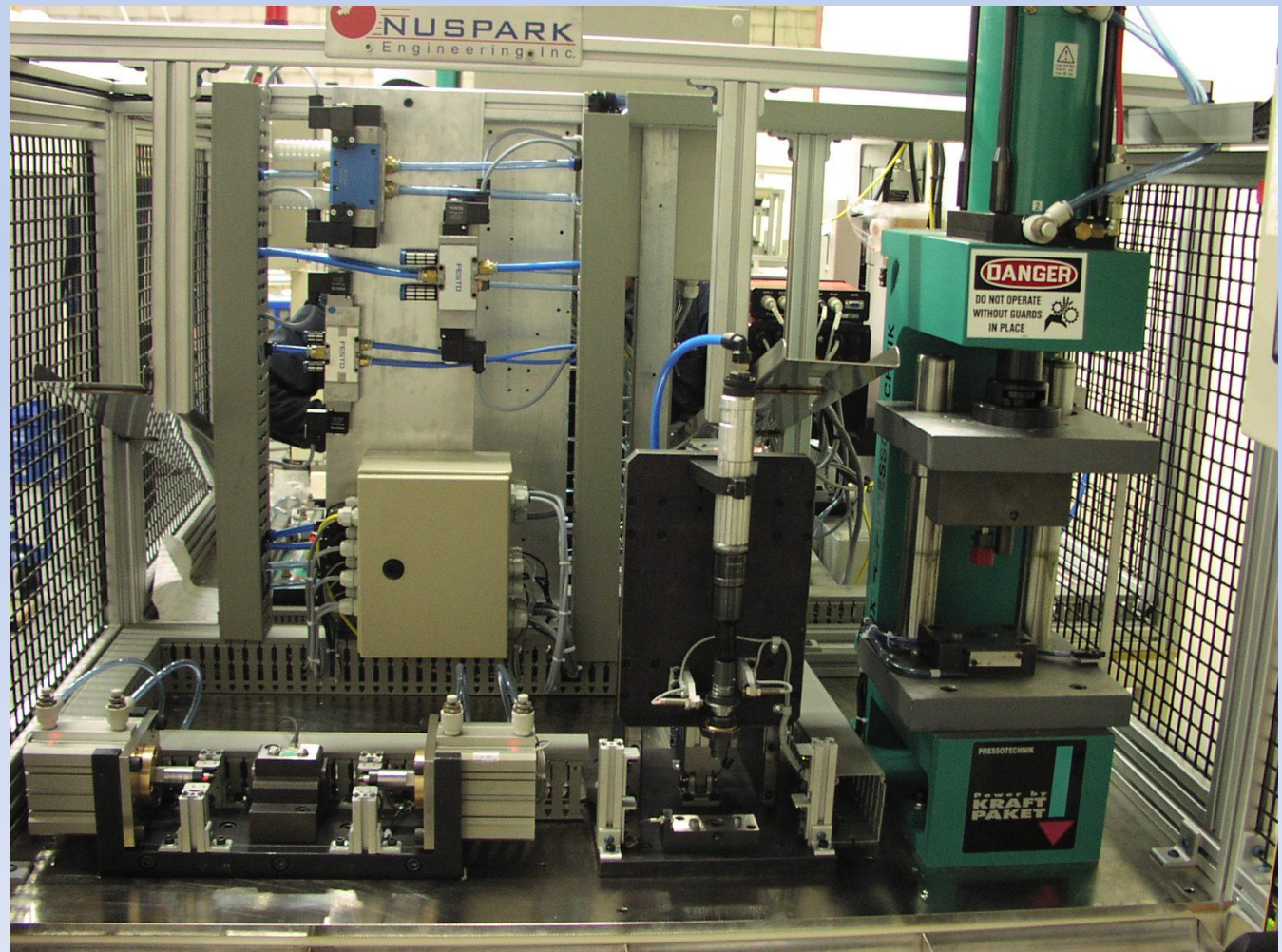
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Riveting Fixture at Anton Mfg.

Door Hinge



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Staking Fixture at Multimatic (Magna)



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Ultrasonic Welding Fixture at PMP



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Ultrasonic Welding Fixture at ABC

Two Position Shuttle Table, 18 Horns,
Degating



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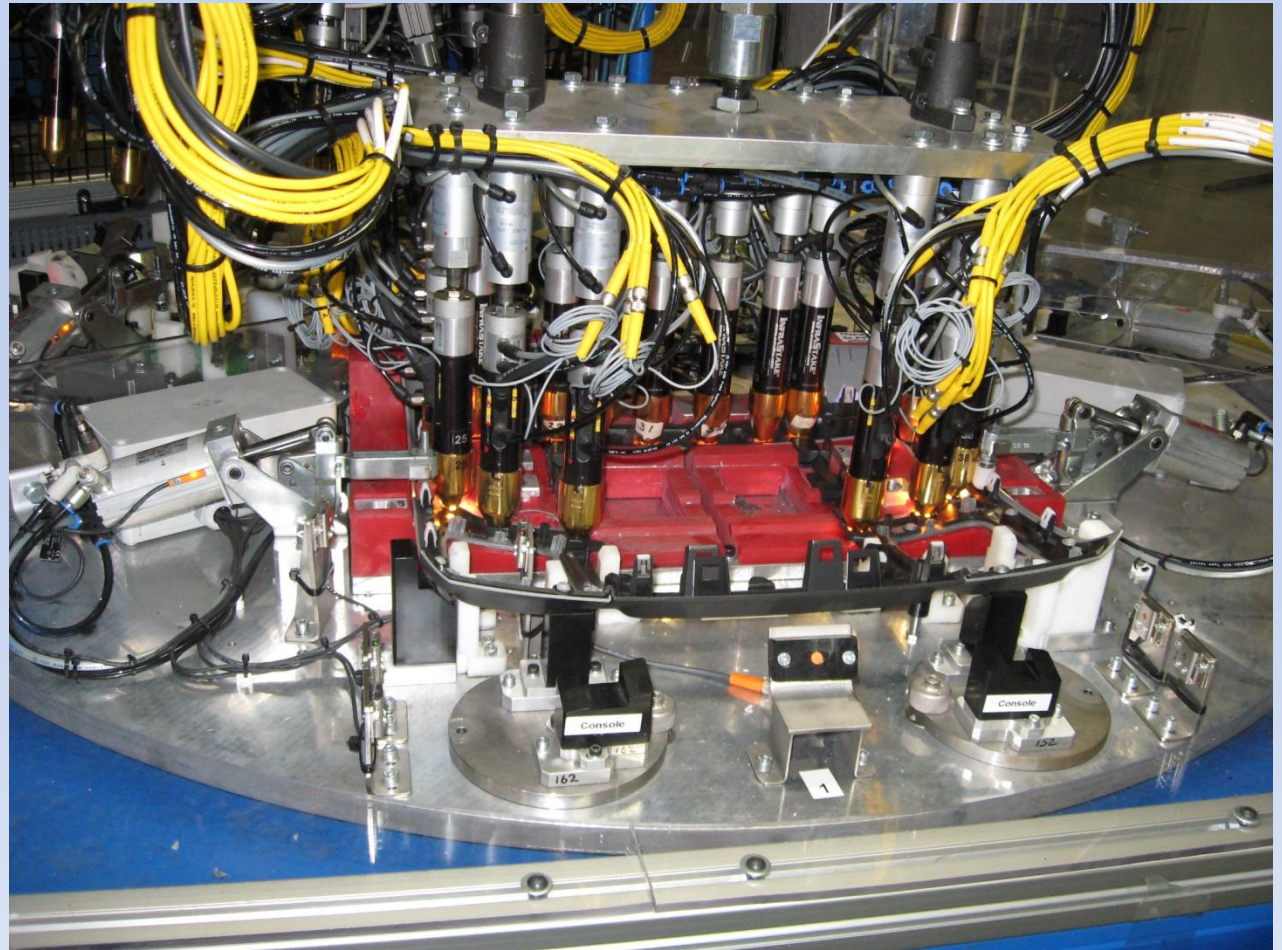
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Infrared Welding Fixture

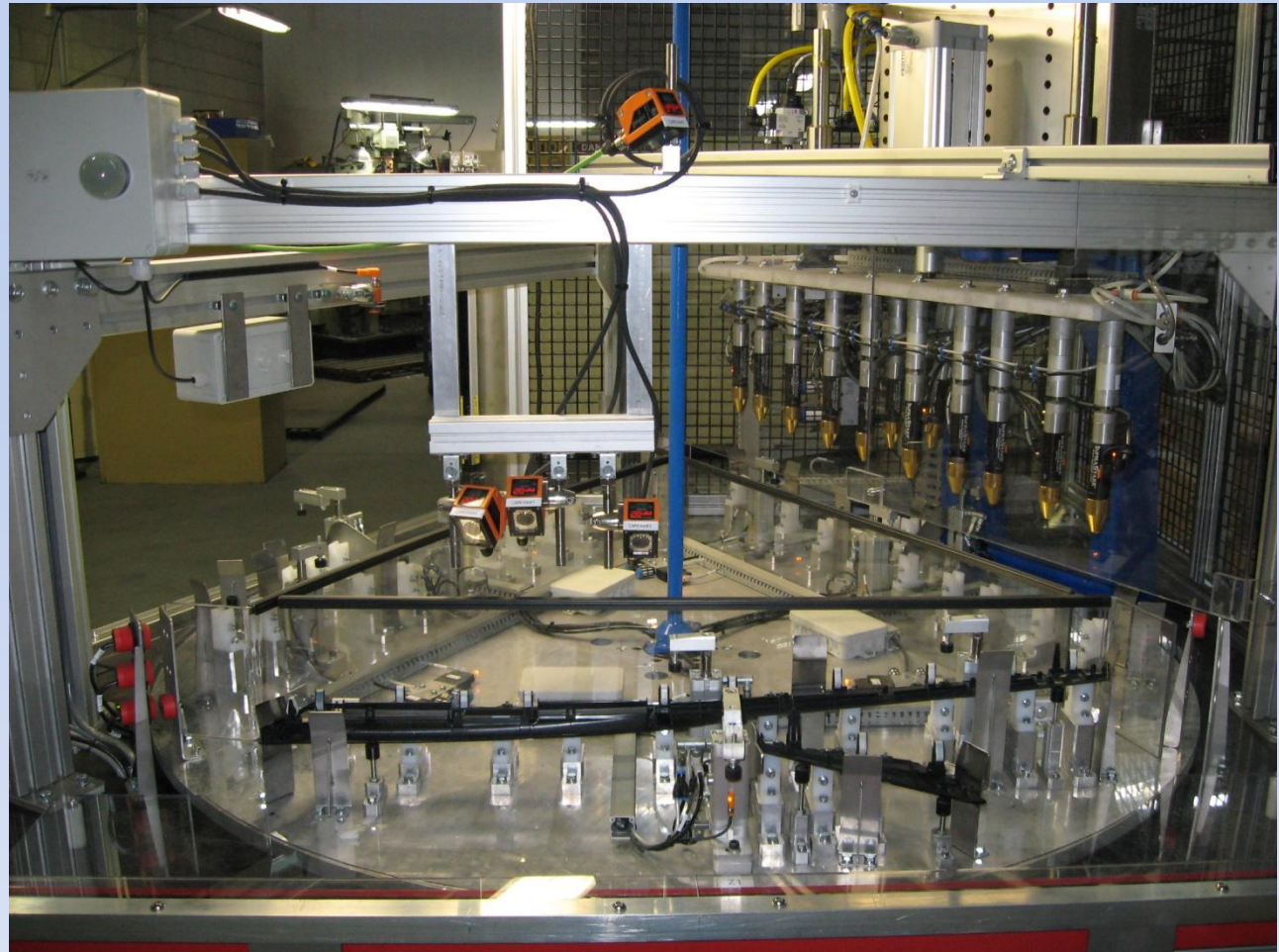
Three Position Rotary Table, Two Welding stations,
Changeover



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Infrared Welding Fixture

Three Position Rotary Table, Vision system



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