ADAPTIVE MANUFACTURING

PAR's patented approach to produce critical components with exacting tolerances in a challenging and uncertain manufacturing environment.

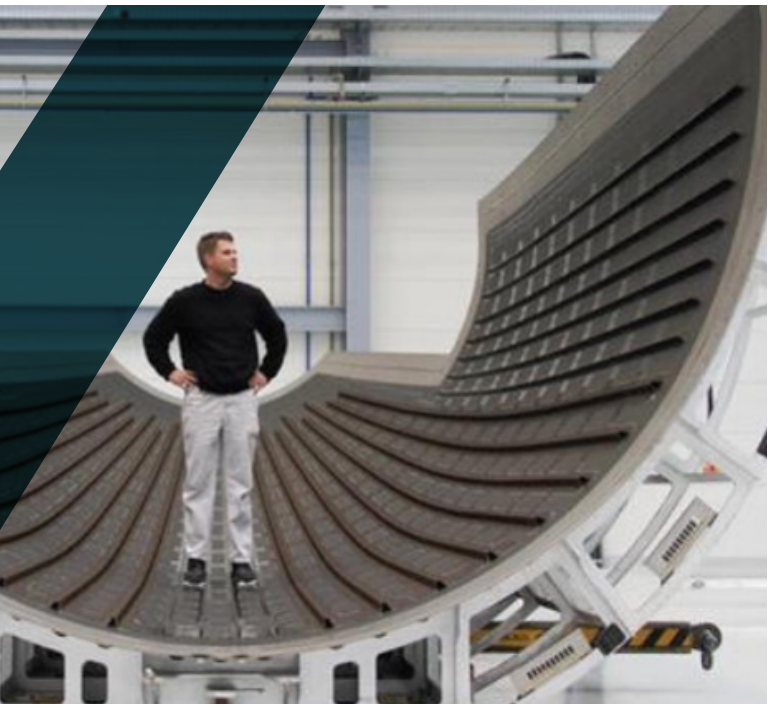
CHALLENGES THAT CAN BENEFIT FROM ADAPTIVE MANUFACTURING

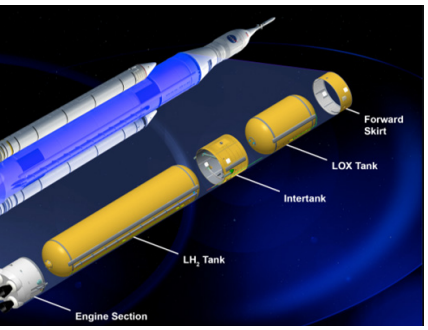
If you produce high value products that require tight tolerances, yet exhibit significant uncertainty of location and size of contour, PAR's Adaptive Manufacturing can provide an optimal solution.

Part Identifiers of an Adaptive Manufacturing Approach:

- Critical Components
- Significant Vested Value
- Exacting Tolerances
- Every Part is Unique
- Uncertain or Challenging Manufacturing Environment
    - Assembly Variation
    - Contour Deviation
    - Feature uncertainty

PAR SYSTEMS





INDUSTRIES SERVED

- General Industrial, Structures and Bridges
- Research, prototyping & development
- Transportation
- Medical Device
- Aerospace
- Automotive
- Space

TECHNICAL INFORMATION

Processes

- Cutting & trimming
- Cleaning
- Inspection
- Drilling
- Additive materials
- Material removal
- Part machining
- Sealant and adhesive applications

Applications

- Part fixturing & tooling
- Metallic parts
- Composite parts

Core Capabilities

- Scan/measure parts and assemblies to determine as-built condition
- Adjust tool paths to match actual part/assembly
- Active seam tracking
- Accommodates contour uncertainty
- Accounts for assembly manufacturing tolerances
- Automatic calibration
- Advanced part verification

Value

- Improves production efficiency
- Multi-functional systems
- Can reduce or eliminate need for dedicated part fixtures
- Cost savings resulting from shortened cycle times
- Can improve production safety and quality conditions
- Challenging tolerances can be achieved, despite uncertainty
- Production of more consistent products
- Reduces need for re-work

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