



Small-Scale Modularization,

the Whys and

the Benefits

By Russell Hillenburg



Modular Plant Solutions

MPS is a global engineering firm specializing in process modularization and project implementation.

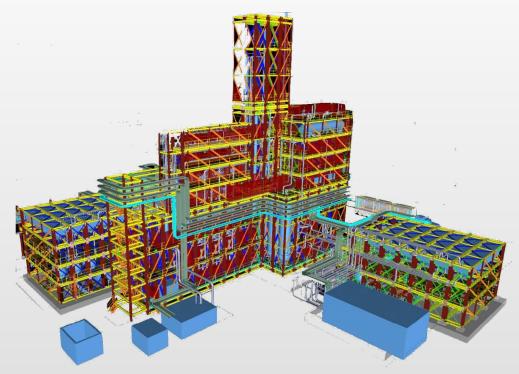
Domestic and International Experience

- Development
- Design
- Procurement
- Fabrication
- Start-up
- Operations
- Maintenance







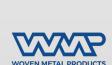


Woven Metal Products

Tower & Reactor Process Internal Specialists

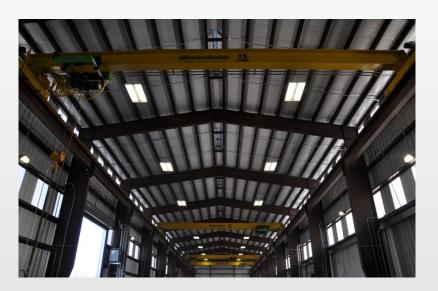
- More than 50 years of experience in fabrication,
 100+ employees
- Facility sits on 82 acres in Alvin,TX
- Serves local, domestic and international clients
- ISO 9001 certified, all work done per ASME Sect. IX









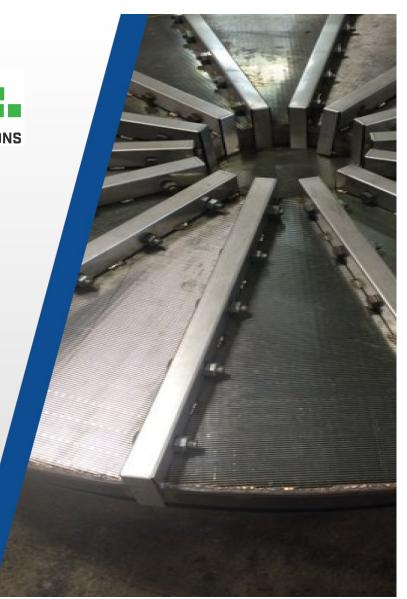








- Reliable Quality
- Partnership Attitude
- Attention To Detail



What is Small Scale Modularization?

Modularization Myths

- It's always more expensive
- The project will take longer
- The footprint will be larger
- Project is less flexible
- Too large to transport









Modularization Myths Answered

- It's always more expensive
 - Costs are known and predictable up front
- The project will take longer
 - Able to work the project concurrently
- The footprint will be larger
 - Work multiple parts of the site in closer proximity
- Project is less flexible
 - Equal or better due to the timing of decisions

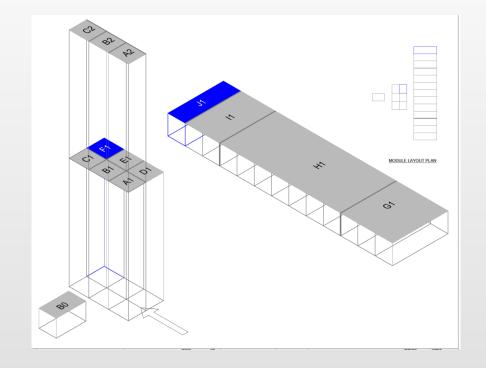






Keys to Small Scale Success

- Start with the size constraints in mind
 - Transportability often to remote locations
 - Cost analysis from manufacturing to the site



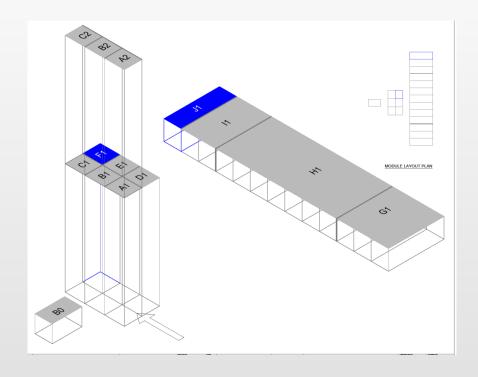






Keys to Small Scale Success

 Simplify all possibilities and lock in design parameters early with a solid basis of design



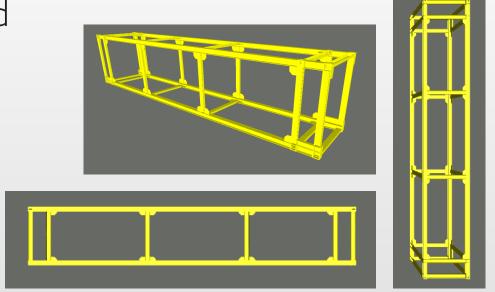






Keys to Small Scale Success

- Integrate the Module Size and mechanical design with process design
 - Start early with mechanical constraints





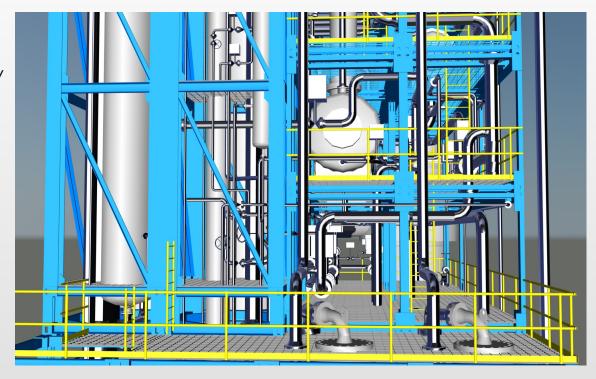






Modularization Essential in Small Scale

- Construction crews working in close proximity
- Advantages to repeatability
- Smaller projects so less room for schedule and financial error



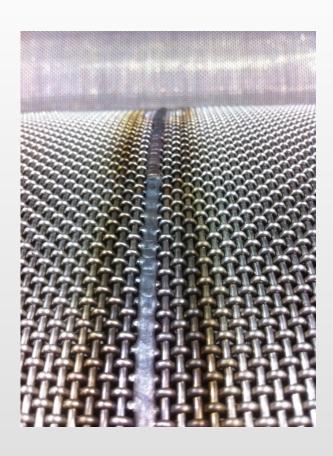


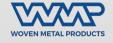




Modularization Essential in Small Scale

- QUALITY
- CONSISTENCY













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Thank You





