



Ceramic Structured Packing | Tower Packing

State-of-the-art structured packing performance in acid resistant ceramic

MACH's Ceramic Structured Packing has a unique corrugated geometric design that allows for exceptional radial distributions of both liquid and vapor. This tower packing offers solutions to challenges associated with high-operating costs and/or restricted-capacity processing towers. Its corrugated ceramic sheets are vertically oriented to help eliminate resistance to fluid flow, allowing for smoother, more uniform distribution. Compared to other plastic, metal, or ceramic random packings, Ceramic Structured Packing has proven to reduce energy costs, have a longer service life, and have almost half the pressure drop.

S.No.	Packing Type	Surface Area (m ² /m ³)	Bulk Density (kg/m ³)	Void Space (%)
1	125Y	125	318	85
2	208Y	208	478	79
3	320Y	320	560	77
Standard Block Dimensions		308 x 308 x 308 mm (+/- 6 mm)		

Standard Features:

- Available in X(60°) and Y(45°) configuration
- Excellent radial distribution of liquid & vapor
- Lower pressure drop and higher capacity
- Longer service life compared to random packing
- Improved drying efficiency
- Reduced operating costs
- Optimized pressure drop & high capacity

Applications:

- Chlorine production processes
- Regenerative thermal oxidizing (RTO)
- Regenerative catalytic oxidizing (RCO)

Typical Physical Data:

- Water Absorption: 0.1%
- Porosity: 0.2%
- Acid Solubility: 1.0%
- Specific Gravity: 2.3

Typical Chemical Data Weight (%):

- Alumina Al₂O₃: 24-25%
- Silica SiO₂: 62-64%
- Iron Oxide Fe₂O₃: 0.3-0.6%
- Titanium Oxide TiO₂: <0.1%
- Other: Trace

For Rental or Purchase Inquiries:

MACH Engineering, LLC

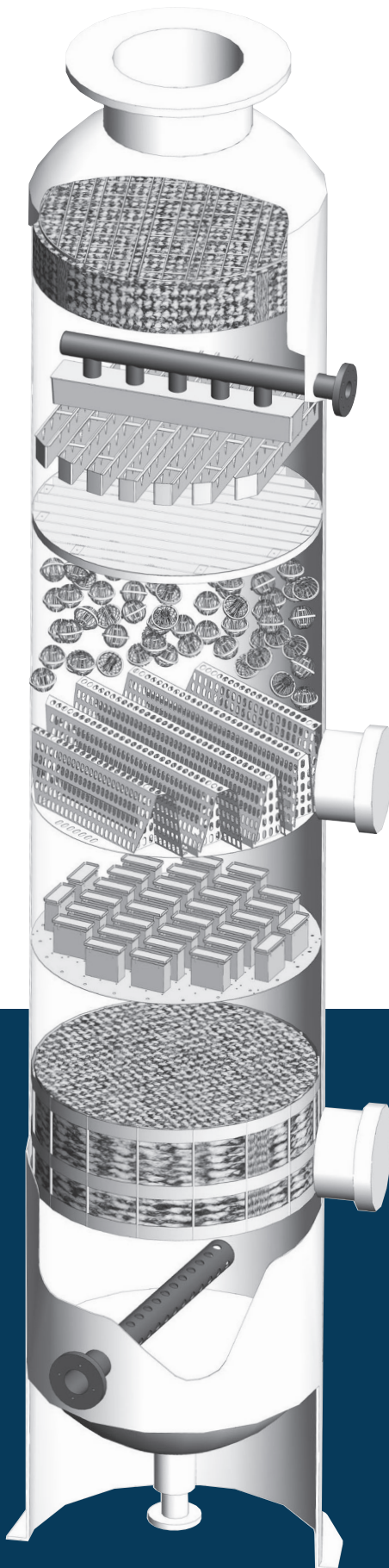
15750 Tuckerton Road, Houston, Texas 77095

(281) 550-3232 | sales@machengineering.com

<https://www.machengineering.com/>

SPECIALIZED IN DESIGN AND MANUFACTURING AIR & WATER POLLUTION CONTROL EQUIPMENT

Tower Packing, Column Internals, Custom Wet Scrubbers,
Rental Scrubbers & Engineering Support



Tower Internals

Available in Metal, Plastics, Ceramic and FRP (Fiberglass)



PACKING SUPPORT



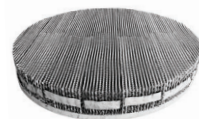
LIQUID REDISTRIBUTOR



MIST ELIMINATOR

Tower Packing

Available in Metal, Plastics, and Ceramics



STRUCTURED SUPPORT



PLASTIC PACKING



CERAMIC PACKING

Custom Fabrication

We design and fabricate custom equipment to meet your specific needs. MACH has the capability to fabricate utilizing various metals and plastic materials such as stainless steel, aluminum, hastelloy, inconel, polypropylene, fiberglass, PVDF, CPVC, and others.



Consulting and Installation Services

For customers looking for assistance in developing a plan, MACH can help customers develop an action plan for a new project or troubleshooting an existing system. Our team of engineers can also provide experienced supervision of your installation to ensure proper installation procedures are followed.



Engineering Design

MACH performs rigorous mass and energy balance calculations for a wide range of industrial steady state processes with HETP calculations. Moreover, with the aid of Aspen Plus, we can optimize your current process in the plant, troubleshoot or debottleneck, and revamp your plant to increase productivity.

