



Metal Saddles | Tower Packing

Suitable for high-capacity and high-performance applications

First designed in the 1970s, Metal Saddle Rings combine the high void fraction and the well-distributed surface area of the pall ring with the low aerodynamic drag of the saddle shape. Additionally, metal saddle rings provide a more open shape and improved liquid spread. Our product has a unique external geometry with a variety of fingers, arches, and other features that prevent entangling while also providing a large surface area to promote gas/liquid contact. MACH Engineering's Metal Saddle Rings are comparable to IMTP® and RMSR®.

Nominal Size (in)	0.6 (15mm)	1 (25mm)	1.5 (40mm)	2 (50mm)	2.4 (60mm)	2.75 (70mm)
Void Fraction (%)	96.7	96.6	97.4	97.9	98.2	98.7
Geometric Surface Area (ft ₂ /ft ₃)	83.8	60.6	46	29.6	25.6	18.6
Weight-PP (lb/ft ³)	16.5	16.6	12.7	10.6	9	6.6

Standard Features:

- Lower pressure drops that reduce foaming and energy consumption
- High efficiency and enhanced performance
- Optimal strength-to-weight ratio
- Minimal drag and hold-up
- High operation elasticity
- Large flux
- Superior surface utilization

Materials Available:

- 304 SS, 316 SS, 304L SS, 316L SS, Carbon steel, Aluminum, Copper

Applications:

- Sour water stripping
- Acid gas removal
- Atmospheric and high-pressure distillation
- Methane and ethane removal
- Used in degassing, vacuum distillation towers, chemical fertilizer industry, and environmental protection
- Applied to decarbonation and desulfurization systems, ethyl benzene separation, isooctane, and toluene systems

For Rental or Purchase Inquiries:

MACH Engineering, LLC

15750 Tuckerton Road, Houston, Texas 77095

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

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