M10 PROCESS EQUIPMENT

ENVIRONMENTAL SERVICES

PRODUCTS, SERVICES, ENGINEERING & DESIGN.

Mass transfer equipment and custom engineered solutions for VOC stripping, scrubbing, absorption and gas cooling applications.

YOUR TRUSTED PARTNER FOR MASS TRANSFER

INTRODUCTION

INTRODUCTION TO M10

M10 Process Equipment, Inc. has decades of experience in designing mass transfer equipment and assisting in the design and troubleshooting of packed and trayed columns all over the world. When we decided to start M10 we realized there was a gap in our industry as it pertained to the types of packing and mass transfer equipment offered. One vendor would have a packing or tray type ideal for certain conditions, while another competitor's products performed better under others.

So we decided to develop our own products as well as offer the best products currently available, giving us the most complete product offering to satisfy nearly any process conditions. Located in the Greater Houston, TX area, M10 has an expansive manufacturing and storage facility where we manufacture and store all our packings. To assure the quality and timely fulfillment of our orders, we perform our own in-house injection molding.

WHERE WE AIM TO LEAD

01	02	03	04
SERVICE	QUALITY	ENGINEERING	PRODUCT OFFERINGS

APPLICATIONS SERVED

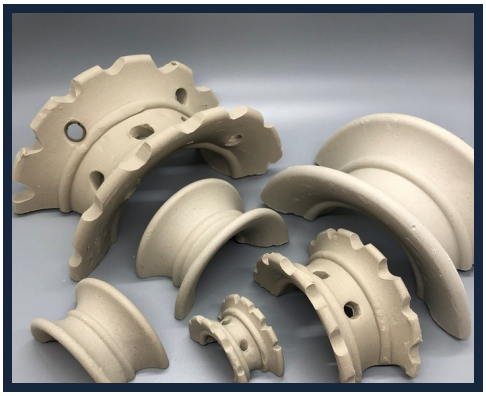
ENVIRONMENTAL APPLICATIONS

- VOC stripping
- Ammonia stripping and scrubbing
- Odor control scrubbing
- Flue gas scrubbing
- HCl absorption and scrubbing
- Acid gas scrubbing
- Direct contact gas cooling
- Hydrogen sulfide (H_2S) degas

ENGINEERING

ENGINEERING SERVICES

- Packed bed ratings — pressure drop, flooding, holdup
- Tower sizing — diameter and packed bed height
- Chemical consumption calculations
- Mass transfer evaluation and optimization
- Internals design
- Column troubleshooting



PRODUCT DATA

TOWER PACKING FOR THE ENVIRONMENTAL INDUSTRY

Other sizes and shapes are available. Contact your M10 salesperson for more information.

XT XFLOW · PLASTIC RANDOM PACKING

PACKING TYPE	NOMINAL SIZE	SURFACE AREA	VOID FRACTION	WEIGHT (PP)
	in	ft^2/ft^3	%	lb/ft^3
XT XFlow 90	3.5″	23.2	96	2.1
XT XFlow 50	2″	27.4	94	2.87
XT XFlow 38	1.5″	38.1	94	4.97
XT XFlow 25	1″	65	92	4.9
XT XFlow 15	5/8″	95.2	91	4.97

Available materials: PP, PPH, PE, PVDF, CPVC, ECTFE, ETFE, PFA, PPS and others

XT BALL · PLASTIC RANDOM PACKING

PACKING TYPE	NOMINAL SIZE	SURFACE AREA	VOID FRACTION	WEIGHT (PP)
	in	ft^2/ft^3	%	lb/ft^3
XT Ball 90	3.5″	38	95	3.3
XT Ball 50	2″	48	92	4.2
XT Ball 25	1″	85	90	6.2

Available materials: PP, PPH, PE, PVDF, CPVC, ECTFE, ETFE, PFA, PPS and others

XT STAR · PLASTIC RANDOM PACKING

PACKING TYPE	NOMINAL SIZE	SURFACE AREA	VOID FRACTION	WEIGHT (PP)
	in	ft^2/ft^3	%	lb/ft^3
XT Star	2″	27.4	95	3.2

Available materials: PP, PPH, PE, PVDF, CPVC, ECTFE, ETFE, PFA, PPS and others

XT SADDLE · METAL RANDOM PACKING

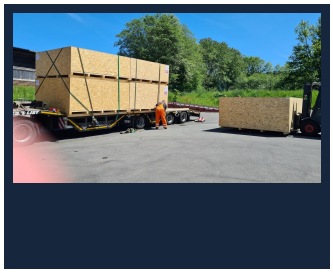
PACKING TYPE	NOMINAL SIZE	SURFACE AREA	VOID FRACTION
	in	ft^2/ft^3	%
XT Saddle 70	3.5″	19	98
XT Saddle 60	2.5″	25	98
XT Saddle 50	2″	31	97
XT Saddle 40	1.5″	46	96
XT Saddle 25	1″	69	97
XT Saddle 15	5/8″	93	97

Available materials: 304SS, 316SS, Duplex 2205, CS, Nickel, Alloy 20, C276 and others

OS SADDLE · CERAMIC RANDOM PACKING

PACKING TYPE	NOMINAL SIZE	SURFACE AREA	VOID FRACTION	WEIGHT (PP)
	in	ft^2/ft^3	%	lb/ft^3
OS Saddle 75	3″	28	84	34
OS Saddle 50	2″	43	83	36
OS Saddle 25	1″	76	82	37
XT 7H	3.5″	35	81	30

IN PRODUCTION



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COLUMN INTERNALS

TOWER INTERNALS OFFERING FOR ENVIRONMENTAL APPLICATIONS

SPRAY TYPE DISTRIBUTOR

- Low cost
- Resistant to fouling
- Low turndown ratio
- Maldistribution is possible
- Good for all column diameters
- Available in most all materials

TROUGH TYPE DISTRIBUTOR

- Low to high cost
- Most flexible distributor
- High turndown ratio
- Low pressure drop
- Good diameters > 4 ft
- Available in most all materials

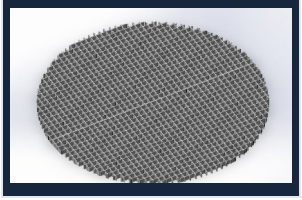
PAN TYPE DISTRIBUTOR

- Moderate costs
- Can be flanged if needed
- High turndown ratio
- Higher pressure drop
- Good diameters < 4 ft
- Available in most all materials

MULTIBEAM GAS INJECTION TOWER PACKING SUPPORT PLATE

- Moderate costs
- Material: plastic and metal
- Mechanically very strong
- Low pressure drop
- Good for all column diameters
- Foul resistant

FLAT GRATING INJECTION TOWER PACKING SUPPORT PLATE



- Low costs
- Material: plastic and metal
- Low turndown ratio
- High pressure drop
- Good for all column diameters
- Mechanically very weak

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ENGINEERING

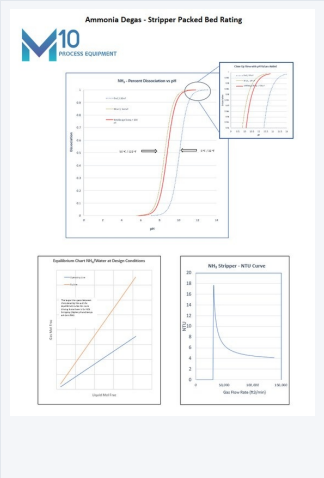
ENGINEERING SERVICES

M10 Process Equipment, Inc. is proud to offer engineering services to our customers when needed. Our engineers have assisted thousands of customers with tower design, process optimization and troubleshooting assistance. Please contact your M10 Sales Representative to find out what M10 can do for you and your process.

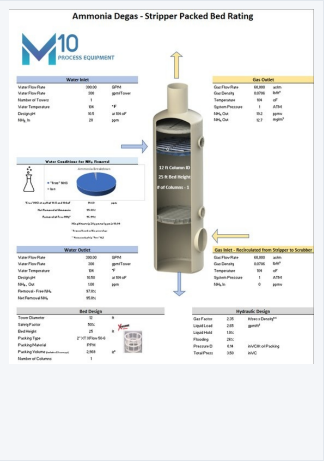
SERVICES OFFERED

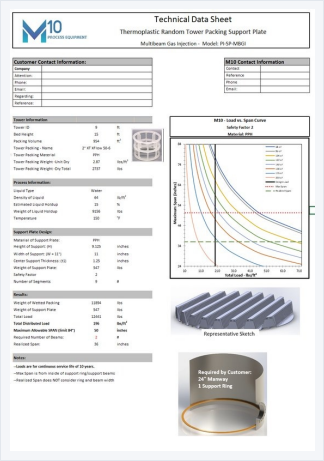
- Packed bed ratings — pressure drop, flooding, holdup
- Tower design — column sizing, tower diameter, bed height, nozzle placement
- Internals design — liquid distributors, support plates, feed pipes and others
- Column and process troubleshooting
- Onsite installation services for internals, trays and packing

PACKED BED RATING EXAMPLE



INTERNALS DATA SHEETS EXAMPLE





OUR FACILITY

LOGISTICS

PACKAGING & SHIPPING

Product ships in boxed cartons, bulk bags, palletized loads or containers with full engineering documentation, direct from our Montgomery, Texas facility.

10 FT³ BOXES

80 FT³ BAGS

160 FT³ BAGS

3.53 FT³ BAGS

80 FT³ BAGS — FLATBED

160 FT³ BAGS — FLATBED

COATED INTERNALS

3.53 FT³ BAGS — CONTAINER

CONTACT INFORMATION

M10 PROCESS EQUIPMENT

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OUR FACILITY

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