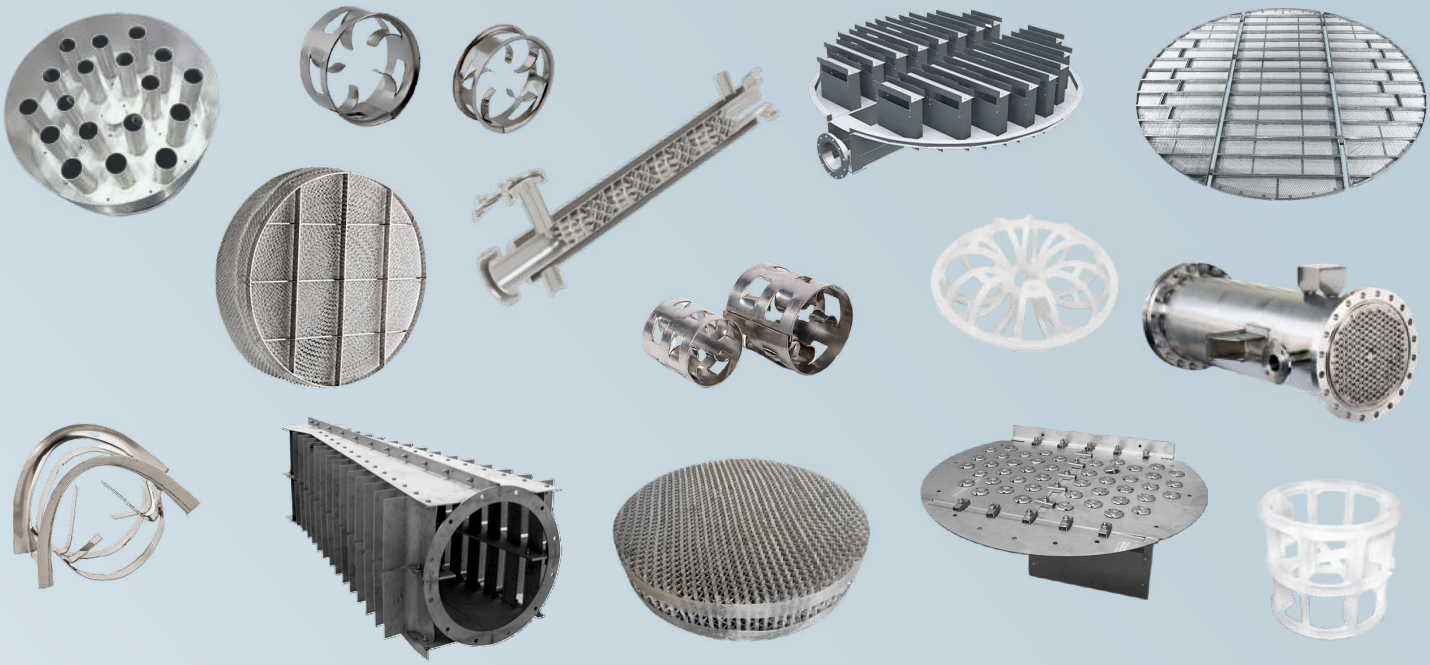
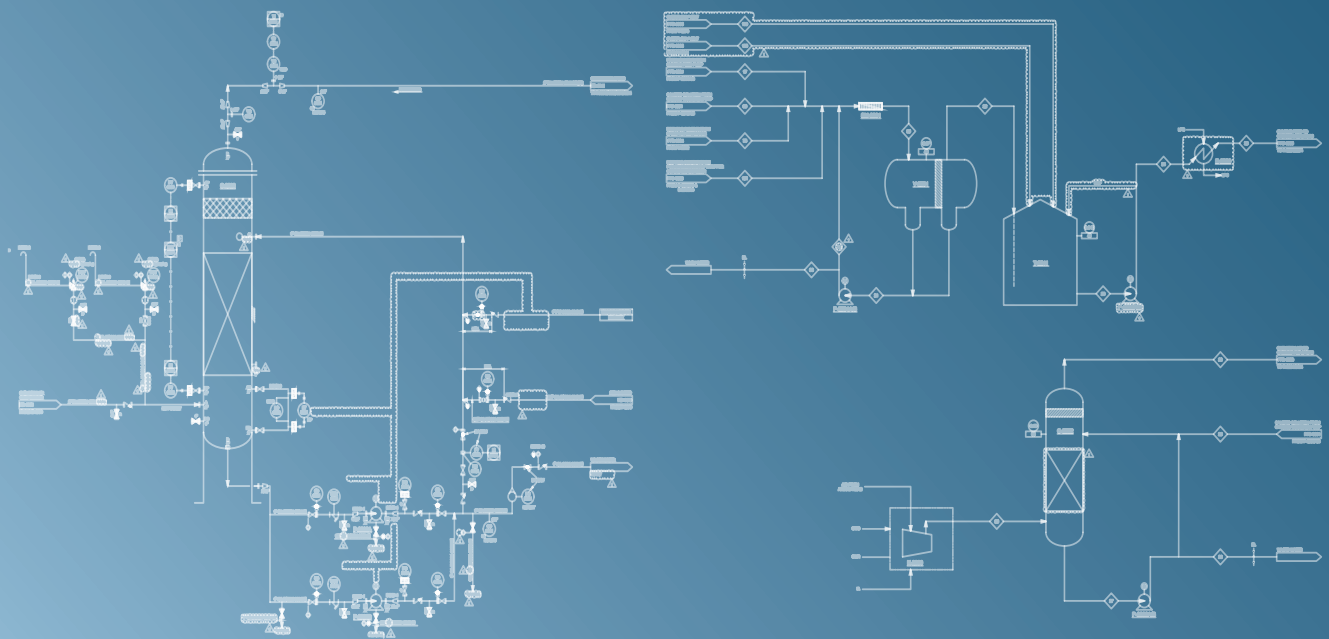
H&MT INTERNATIONAL

HEAT & MASS TRANSFER SOLUTIONS

"Innovating Solutions, Engineering Future"





Random Packing

HMT-RR (Raschig Ring)

HMT-RR is the first generation random packing. These are the oldest, cheapest, and previously most widely used packings. The height of the ring is equal to its diameter. The rings are cut from pipes, but in case of metal they are also rolled from metal strips. These are available in various MOCs – Metal, Plastic, Carbon and Ceramic.

Nominal Size	Surface Area m^2/m^3	Void Space %	Packing Factor F
25 mm	200	91.9	137
38 mm	127	94.9	82
50 mm	100	95.1	57

HMT-PR (Pall Ring)

HMT-PR is the second generation random packings. These were developed by cutting windows in the Raschig rings and bending the window tongues inward. This opened up the ring, lowered its friction, and improved packing area distribution, wetting, and distribution of liquid. Pall rings have higher capacity and efficiency and lower pressure drop. Pall rings are available in metal, plastic and ceramic material.

Nominal Size	Surface Area m^2/m^3	Void Space %	Packing Factor F
16 mm	345	93.4	71
25 mm	209	94.2	48
38 mm	136	95.6	28
50 mm	100	95.6	20
75 mm	70	95.6	18
90 mm	65	96.5	16

Random Packing

HMT-HP Rings (Hy-Pak)

Similar to Pall ring, HMT-HP has more internal tongues in an effort to improve the spread of surface area. The result claimed efficiency improvement was traded off for greater capacity by making the ring slightly larger than the equivalent Pall ring. Compared to the Pall Ring, HMT-HP has been shown to give better capacity at an equivalent efficiency. HMT-HP is available in metal only.

Nominal Size	Surface Area m^2/m^3	Void Space %	Packing Factor F
30 mm	179	96	43
45 mm	125	96.4	26
60 mm	98	97	18
90 mm	85	97.5	15

HMT-CR (CMR)

HMT-CR is third generation packings. These rings are similar to the Pall ring, but have an aspect ratio (height to diameter ratio) of 1:3, compared to 1:1 in the Pall ring. The lower aspect ratio orients the particles with their open side facing the vapor flow, thus reducing friction, and exposing more surfaces to mass transfer. HMT-CR is available in metal, plastic and ceramics.

Nominal Size	Surface Area m^2/m^3	Void Space %	Packing Factor F
#1	251	96.4	40
#1.5	202	96.4	29
#2	145	97	22
#2.5	123	97	17
#3	103	97	14
#4	76	98.5	10
#5	43	98.9	8

Random Packing

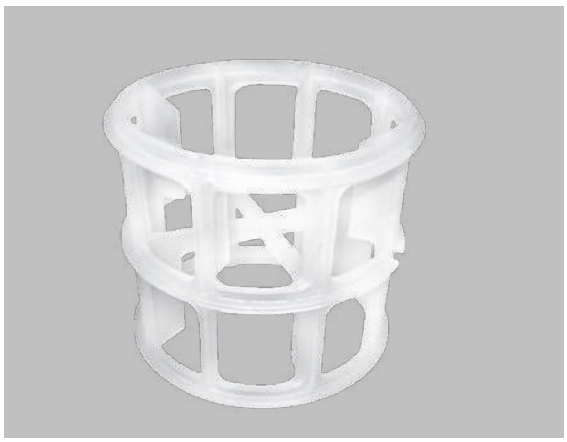
HMT-IR (IMTP)

HMT-IR is third generation packings. It combines the high void fraction and the well distributed surface area of the Pall Ring with the low aerodynamic drag of the saddle shape. Compared to the Pall Ring, it provides a more open shape and improved liquid spread, while incorporating adequate mechanical strength and entanglement resistance. HMT-IR is available in metals only.

Nominal Size	Surface Area m^2/m^3	Void Space %	Packing Factor F
HMT-IR-15	290	94.7	51
HMT-IR-25	230	96.7	41
HMT-IR-40	150	97.3	24
HMT-IR-50	98	97.3	18
HMT-IR-60	59	98.1	12

HMT-HF Rings (Hiflow Rings)

The HMT-HF Rings are high performance tower packings. The strong lattice type provides high mechanical stability together with a very high void fraction. High capacity of gas and liquid flow rates, extremely low pressure drop, very low wall flow and low sensitivity to pollution and fouling characterize the HF Rings. If HF Rings replace conventional tower packing, then the flow rates in existing columns can be considerably increased or the energy consumption can be significantly reduced.
Materials: PP, PPH, HDPE, PVC, C-PVC, PVDF, PFA, others on request.



Nominal Size	Surface Area m^2/m^3	Void Space %
15 mm	313	91
25 mm	214	91
38 mm	150	94
50 mm	110	94

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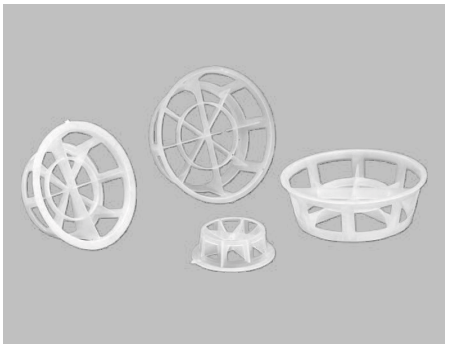
Random Packing

HMT-CMR (Cascade Mini Rings)

HMT-CMR are small cylinders with a series of internal braces. HMT-CMR packing features a low aspect ratio, where the cylinder's diameter is approximately three times the height. This low profile ensures a more even flow and better gas and liquid contact.



Nominal Size	Surface Area m^2/m^3	Void Space %	Packing Factor F
# 1 A	200	95	30
# 2 A	150	96	18
# 3 A	74	97	12

HMT-SIS (Super Intallox Saddles)

The HMT-SIS is an improved version of plain saddles packing that provides better liquid distribution, low liquid hold up, high capacity and improved efficiency for mass transfer.

Nominal Size	Surface Area m^2/m^3	Void Space %	Packing Factor F
25 mm	210	90	33
50 mm	110	93	21
75 mm	89	94	16

HMT-Telpak (Tellerette)

HMT-Telpak are a high efficiency plastic tower packing designed for use in wet scrubbers, cooling towers, mist eliminators, absorption columns and gas strippers. They provide a surface area equal to many other packings but with much greater liquid surface availability.

Nominal Size	Surface Area m^2/m^3	Void Space %
S	180	89
M	127	89
L	102	90

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