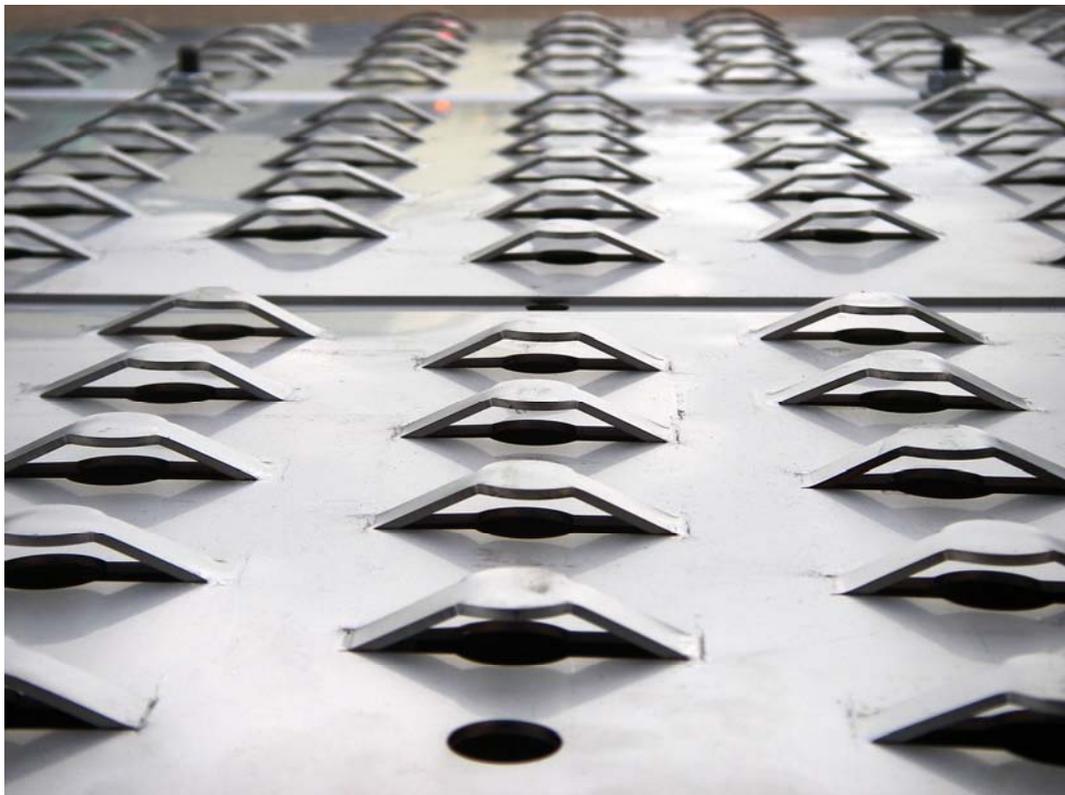


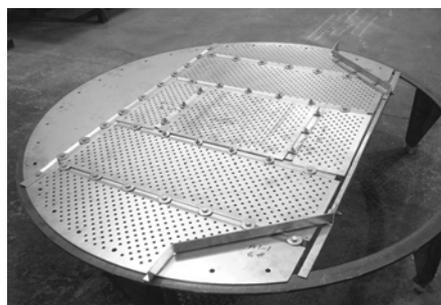
. trays Rus .



Whether you are designing a new column, revamping an existing column or just carrying out maintenance, whatever your requirement is for trays, we have the answer.

We design, manufacture and install all types of trays including, but not limited to, dual flow trays, baffle trays, disc and donut trays, sieve trays, valve trays, bubble or tunnel cap trays.

Let our considerable experience and expertise assist you in making and implementing the most appropriate solution, at minimum cost, not only to achieve the desired throughput but also to accommodate feed rate variations and minimise downtime.



Sieve Trays
1800mm Ø Dephosgenation Column

SIEVE Trays

Sieve trays are the basic type of fractionation tray, typically using 1/2" diameter holes with an open area between 5 to 15%.

They have a moderate pressure drop with average capacity & separation efficiency.

Sieve trays offer a key advantage of cost. However, flexibility is limited to 2 to 1 and in addition sieve trays are not suitable for fouling services.



Bubble Cap Trays, Slotted Type
1829mm Ø Vacuum Flash Tower

BUBBLE CAP Trays

Bubble cap trays are used in applications with very low liquid loading and requiring a very high flexibility (e.g. an operating range of 10 to 1) such as in batch distillations.

Bubble caps are either slotted type or un-slotted type, both in a full range of sizes (2"nb to 6"nb).

Bubble cap trays have a high pressure drop with low capacity & separation efficiency. They are not suitable for fouling services.

FXV Valve Trays

The FXV valve is a stationary (fixed) valve pressed up from the tray deck and is supplied in 4 different sizes with varying lifts:

Double-Mini size	FXV20	
Mini size	FXV30	(shown on the front page)
Standard size	FXV60	(shown here)
Large size	FXV110	

Compared to sieve trays, the FXV valve trays give:

- higher capacity
- greater flexibility with a normal operating range of 3 to 1
- increased mechanical strength
- longer service life
- higher efficiency (due to distinct trapezoidal shape giving plug flow)



FXV60 Valve Trays
1100mm Ø MCB Elimination Column

FXV valves are excellent for fouling services e.g. for columns within a HF Alkylation Unit.

GARNISSAGES - INTERNES & PLATEAUX DE COLONNES

STD Valve Trays

The STD valve is an industry standard movable valve.

The valve is made in one piece with 3 legs and is normally supplied with dimples to limit the contact with the tray deck to 3 points when shut.

These valves are used for general applications except where there is a risk of fouling.

Alternate rows of light valves (1.5mm thick) and heavy valves (2.0mm thick) are used to maximise turndown. Typical operating range is 4 to 1.

Very light valves (1.2mm thick) are used to minimise the (dry) pressure drop.



STD Valve Trays
2700mm Ø MCB Elimination Column



RMV60 Valve Trays
1450mm Ø MeOH Dryer Column

RMV Valve Trays

The RMV valves are rectangular shape movable valves used for general and special applications.

Two sizes are used to suit the column diameter:

RMV60 small diameter columns
RMV120 large diameter columns

The rectangular shape offers the following advantages:

maximum open area for high vapour load services
variable open area to suit vapour flow
higher efficiency due to plug flow

NCD Valve Trays

The NCD valve is a 2 piece valve, where a 4-legged hold down cage (securely attached to the tray deck) contains a movable valve disc.

These valves are used for general applications like the STD valve but with the following advantages:

- longer lasting in service
- less risk of sticking shut or open
- suitable for fouling services
- Increased flexibility due to less liquid weeping

Alternate rows of light (1.5mm thick) and heavy (2.0mm thick) discs can be used to maximise turndown.



LCD Valve Trays
2273mm Ø Tifane Elimination Column

LCD Valve Trays

These are NCD valves with a very light disc (1.2mm thick) to reduce (dry) pressure drop.

VCD Valve Trays

These are NCD valves with a very light disc (1.2mm thick) plus a venturi hole to minimise (dry) pressure drop.

PROPRIETRAY Trays

Examples include:

- Disc & Donut Trays
- Ripple Trays
- Uniflux (Tunnel Cap) Trays
- Thormann Trays



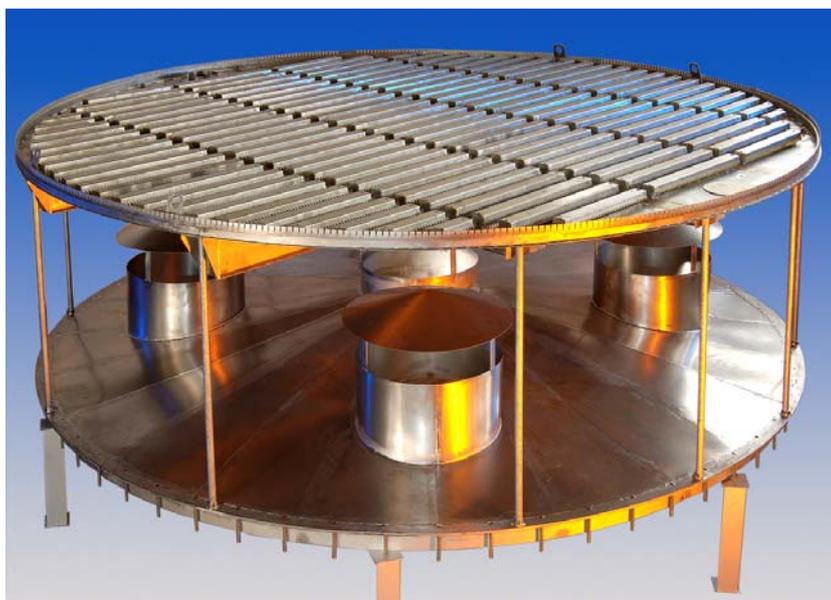
Disc and Donut Trays - Bundle Construction
2600mm Diameter Deaerator Tower



Uniflux (Tunnel Cap) Trays, 3658mm Diameter Rerun Main Column



Ripple Trays
5791mm Diameter Ethylene Quench Tower / Primary Fractionator



Montz Thormann Titanium Tray + collector tray
3600 mm Diameter / HCl Scrubber