



STRUCTURED PACKINGS & ENGINEERING PVT. LTD.

## Mass Transfer Solutions Providing Separation and Mixing Technology



### Equipment Design

- Distillation Column
- Pilot Plants
- Reactors
- Pressure Vessels
- Vessels /Storage Tanks
- Waste Heat recovery systems
- Industrial Piping Design
- Agitators
  - a) Top Entry with High efficiency axial flow impellers
  - b) Side Entry with fixed & swivel Angel
  - c) Mechanical Circulator
  - d) High Speed Disperser & Twin shaft Disperser
  - e) Static Mixer
- Heat Exchangers
  - a) Shell & Tube
  - b) Spiral Heat Exchanger
  - c) Panel Coils (Prime surface Heat Exchanger)
  - d) Plate Heat Exchangers

### Industries We Cater

- Petrochemicals
- Refineries
- Food & Beverages
- Sugar & Distilleries
- Pharmaceuticals
- Specialty Chemical
- Oil & Gas
- Fertilizers
- ETP, STP
- Paint & Adhesives

With an aim to offer best technology products with above advantages at competitive prices YOGI is committed to cater the needs of process industry.

### Typical Applications

- |                        |                         |                           |
|------------------------|-------------------------|---------------------------|
| ■ ACETONE              | ■ CYCLOHEXANE           | ■ N-METHYL PYRROLIDONE    |
| ■ METHANOL             | ■ TOLUENE               | ■ ISOPROPYL ETHER         |
| ■ ETHANOL              | ■ XYLENE                | ■ METHYL ETHYL KETONE     |
| ■ ISOPROPNOL           | ■ ACETONITRILE          | ■ METHYL ISOBUTYL KETONE  |
| ■ N-PROPANOL           | ■ TRIETHYL AMINE        | ■ METHYL TERT BUTYL ETHER |
| ■ BUTANOL              | ■ TETRAHYDROFURAN       | ■ CHLOROFLUROANILINE      |
| ■ ETHYL ACETATE        | ■ ETHOXYETHANOL         | ■ DIETHYLPHTHALATE        |
| ■ DIMETHYL FORMAMIDE   | ■ ORTHO DICHLOROBENZENE | ■ POTASSIUM BUTOXIDE      |
| ■ DIMETHYL SULFOXIDE   | ■ ACETIC ACID           | ■ SODIUM METHOXIDE        |
| ■ DIMETHYL ACETAMIDE   |                         | ■ ETHYL ACETATE           |
| ■ METHYLENE DICHLORIDE |                         | ■ N-OCTANOL and N-DECANOL |
| ■ CHLOROFORM           |                         | ■ CHLOROPHENOLS           |
| ■ ETHYLENE DICHLORIDE  |                         | ■ DICHLORONITROBENZENES   |
| ■ HEXANE               |                         | ■ DICHLOROBENZENES        |



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Yogi Structured Packagings & Engineering Private Limited,  
648/42, Adinath Nagar, Bhosari, Pune 39, Phone: Web: [www.excelpack.com](http://www.excelpack.com)

**We are** a leading Process equipments and **STRUCTURED PACKINGS** manufacturing company established in year 1992. We have supplied more than 2000 equipments across the globe & which are running satisfactory.

We have a great pleasure to introduce ourselves as one of the experienced Engineers in Design & Manufacturing of Process Equipments Specializing in distillation Technology and Structured Packings. We are also into manufacturing and supply of Equipments for various applications like Mixing, Separation, Heat Recovery, Storage & Reaction vessels, sugar and distillery Equipments With its strength in designing, **YOGI** caters to the wide spectrum of industry. Right from conceptual design of systems to execution with innovative solutions at every stage of project **YOGI** emphasizes on optimization of various parameters like energy, cost, and operative excellence. The customer centric approach gives us an edge where we pride ourselves on contributing value to our customers.

### Petrochemical

- Ammonia
- Acetic Acid
- Aromatics
- Olefins
- Styrene
- Ethylene Oxide and Derivatives
- Phenol and Derivations
- Diisocyanates (MDI/TDI)

### Refinery

- Lube Oil Distillation
- FCC Vacuum Towers
- Crude Oil Distillation
- Hydrotreating
- Fractional Distillation
- Coking and Visbreaking

### Chemicals

- Terephthalic Acid
- Flavor and Fragrances
- Purified Terephthalic Acid
- Oleochemicals
- Alcohols
- Biofuels and Biochemicals



# Excelpack<sup>TM</sup>



## YOGI STRUCTURED PACKINGS AND ENGINEERING PVT. LTD.

Makes among the finest structured packing and internals for distillation, absorption, stripping and other separation processes. Under the brand name of **Excelpack**

The packings are highly efficient and of international standards. the packing combines maximum efficiency with lowest pressure drop, thereby proving an ideal solution for many a separation problems. The packing can be provided in a range of materials, areas, diameters, to suit the process requirement. And above all they are available in extremely competitive prices!

**Structured packing is available in various range of stainless steel, Copper and Other alloys**

### Available Materials

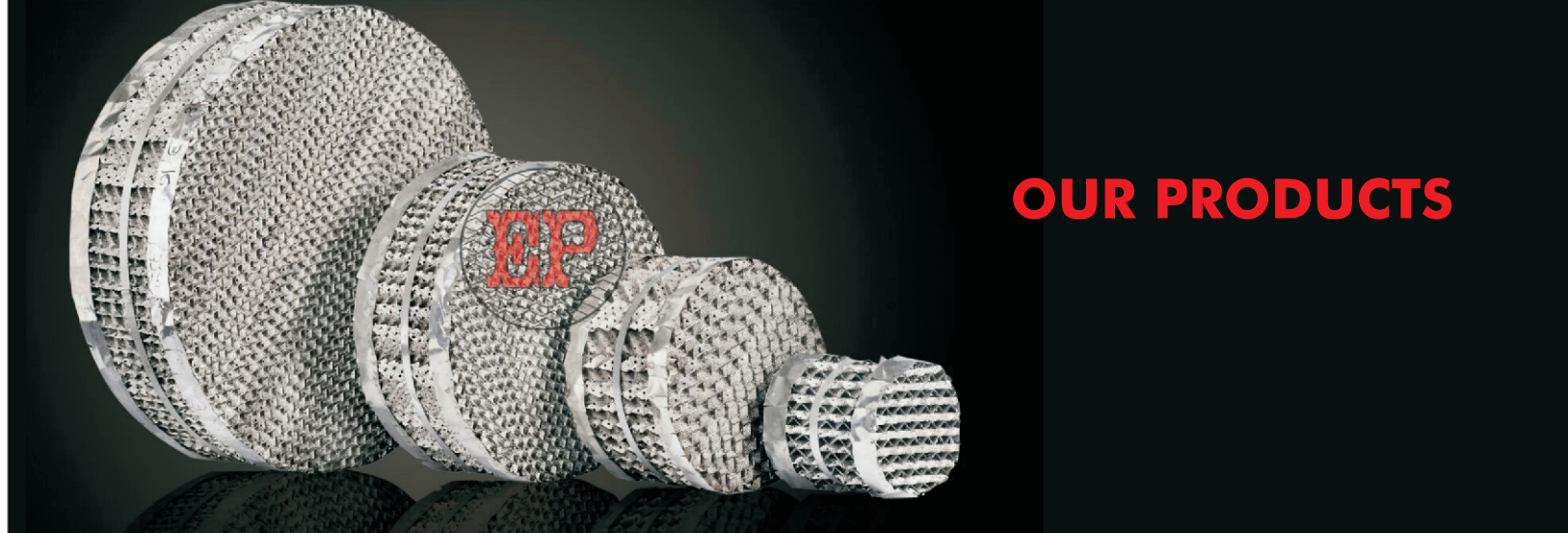
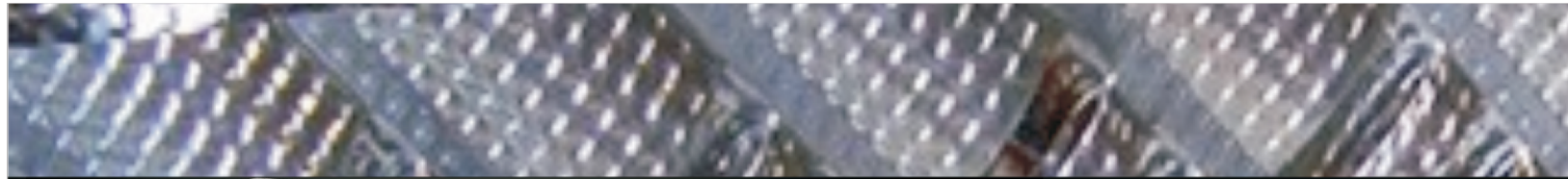
SS304, SS304L, SS316, SS316L, SS410, Special metals such as Monel Hestalloxy-C etc.

**EXCELPACK** have been made for column diameters ranging from 50 to 5000 mm! They can be manufactured for higher diameters as required.

### Advantages

- \* Lower pressure drop  
Lower reboiler temperatures,  
lower steam pressure
- \* Lower liquid holdup -  
Faster startup,  
rapid draining,  
ideal for heat sensitive liquids
- \* Very high stages  
per meter Shorter columns,  
lower reflux ratios,  
less steam consumption

- ∞∞∞ The packings are suitable for high-pressure as well as vacuum processes.
- ∞∞∞ All packings are provided with a complete set of efficient internals i.e. distributors, collectors, redistributors and packing support plates. Furthermore, our personnel supervise proper installation of packings and internals to obtain maximum efficiency.
- ∞∞∞ EXCELPACK can be used for distillation, absorption stripping and other separation processes.
- ∞∞∞ High efficiency of these packing ensures a shorter column and compact plant Furthermore low pressure drop means that the packings are ideal for applications such as high-boiling isomer separations.
- ∞∞∞ We can provide packings and internals as per your column specifications, or do the process design and suggest height and diameter to suit your requirements. We can undertake.
- ∞∞∞ supply of entire plants on a turnkey basis.
- ∞∞∞ We also repair and upgrade old packing



## OUR PRODUCTS

Structured packing in sheet metal  
125, 250, 350, 500, 750 m<sup>2</sup>/m<sup>3</sup>



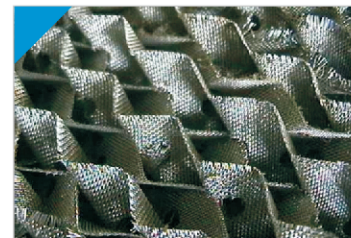
Random packing



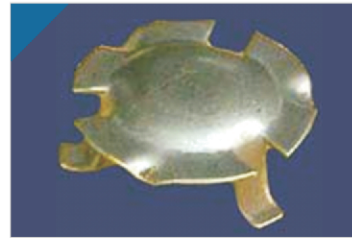
Wire Gauze packing  
BX, BY, CY



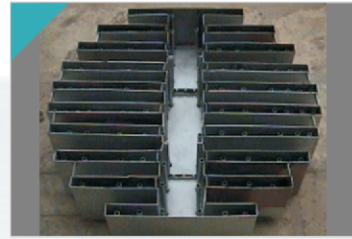
Lab packing



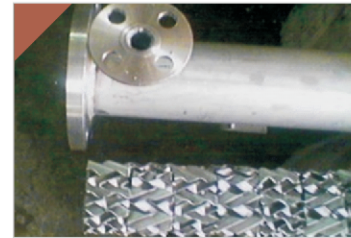
Tray columns and internals Tray column are used the feed to be distilled contains solids



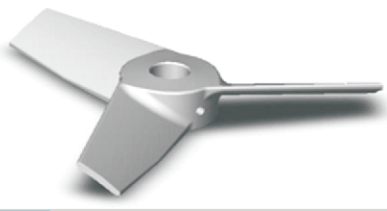

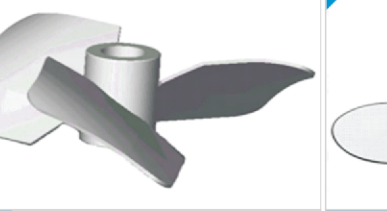



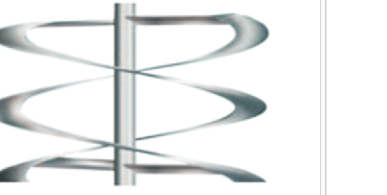

Column internals (supports plate/ distributor, and collector)



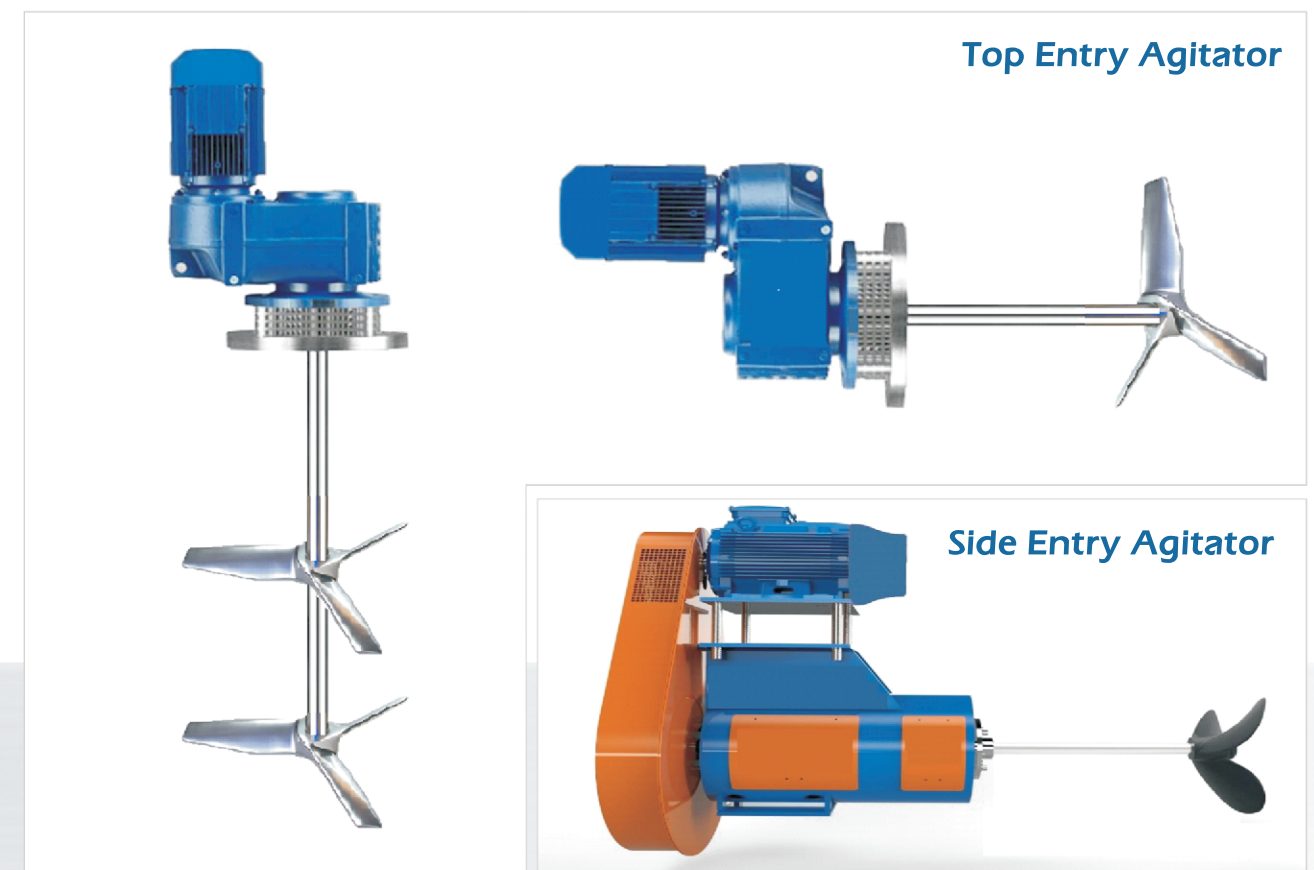
Static Mixers



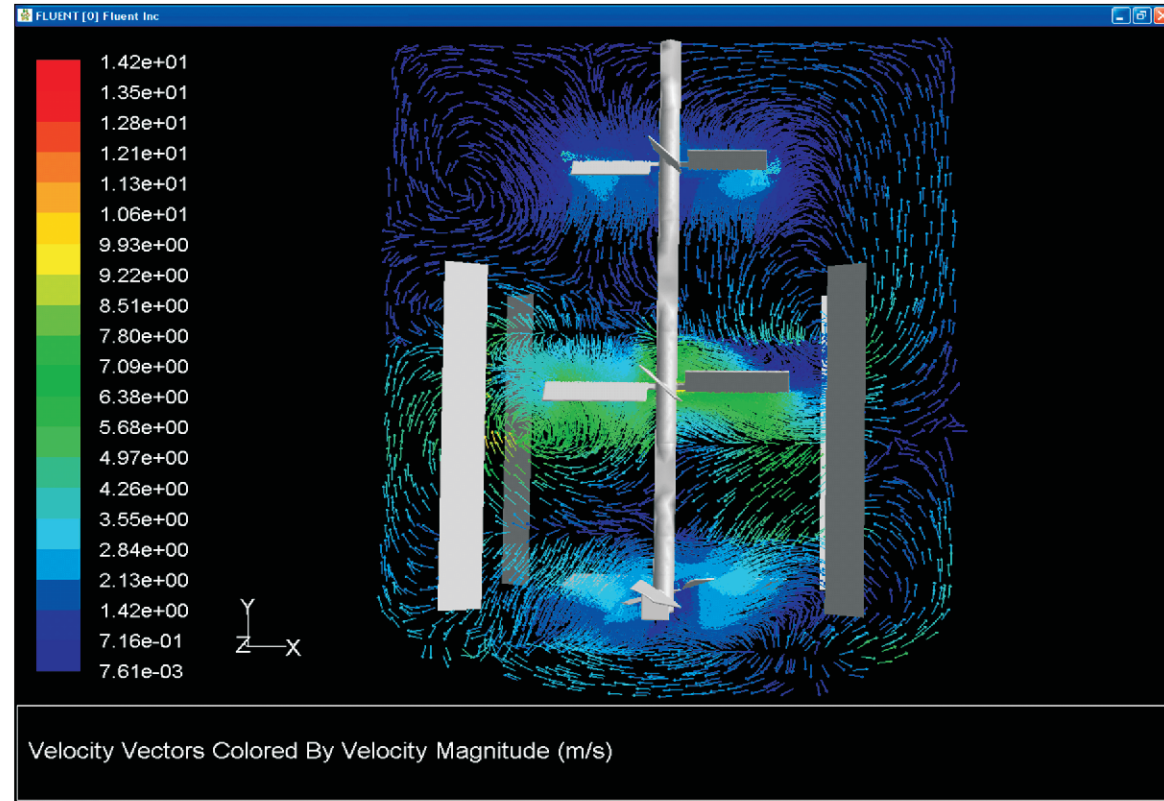
## Impeller Spectrum

<p>Hydrofoil Impeller</p> 	<p>Pitched Blade Turbine</p> 	<p>Wide blade Hydrofoil</p> 	<p>Three blade propeller</p> 
<p>Rushton Turbine</p> 	<p>UDIF Impeller</p> 	<p>Helical ribbon</p> 	<p>Anchor Impeller</p> 

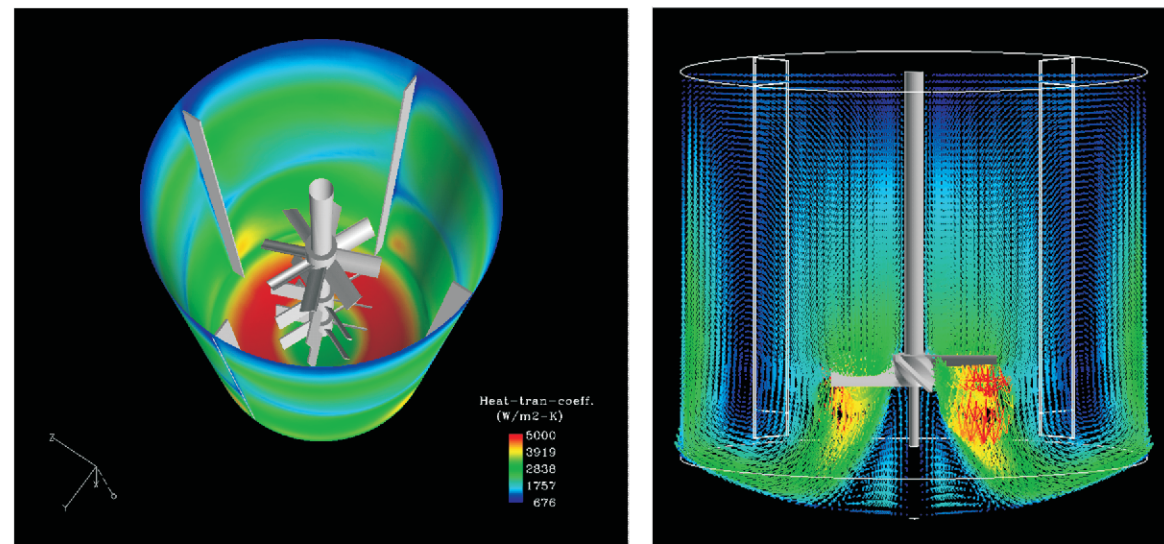
## Agitators



## Cfd View In Vessel With Agitator :-



## Cfd Analysis Results :-



- In brief, YOGI has the following distinct advantages to offer its clients:
- State of the Art Design
  - Minimum Cost of Ownership
  - Mechanical Reliability
  - Lower Lead Times
  - Unique design to minimize the maintenance

## Comprehensive Engineering And Technology Services

**YOGI** Process Solutions is established in Year 1992 with a team of more than 25 Years of individual experience in Process Equipment's, we believe that in any design there is always a thin line between over design and under design. Understanding the same is very important. Our Philosophy is to remain above to this thin line. This is possible only after detail understanding of customer's requirements. We understand the customer's requirements and interpret the same in our design, so that the Design becomes economical, easy to install and maintain. Capital cost & working costs both matter a lot for customers. We use appropriate automation and integrate system in such a way that both costs are balanced and does not cause burden either in short term or long term. We have come up with cost of ownership approach while helping our clients select the most appropriate design and equipment for their processes.

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## Major Associations...

