

The Julius Montz Company

An innovative enterprise with a long tradition

Today's very modern industrial enterprise with agencies and licensees world-wide has grown from a small copper-smith's shop at the beginning of this century.

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Entrance to the
Montz Building



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Trend-setting research and continuous improvements to the existing range of services offered is what has distinguished the Julius Montz Company over decades as a creative and innovative enterprise.

Today, the company is regarded as one of the leading specialists in the field of thermal fractionating technology offering a wide range of services and products.

In 1911, when the Julius Montz Company was founded in Hilden as a copper-smith's shop, nobody could foresee what the future would bring. But the emphasis of our development was already clear: the chemicals industry on the Rhine and Wupper as well as the coking plants on the Ruhr already numbered among our most important customers. Apparatus and vessels were manufactured for them. Over the years, the co-operation with the chemicals industry became closer and more intensive.



In the fifties, this led to an intensified specialisation in the field of distillation technology. The Julius Montz company became an expert and innovative specialist in this field with its own developments and patents. In order to improve the economic competitiveness, the Julius Montz company affiliated with F.A. Neuman from Eschweiler as a wholly owned subsidiary in 1972. Constant improvements to existing technologies and apparatus led to a steady improvement in and extension of the range of products. This primarily included the development of special equipment for distillation technology, creating the basis of today's product program. This includes tunnel trays, Thormann®- system trays, cross flow trays Type KSG, spring columns and structured packings as well as columns and apparatus made of high quality materials such as Hastelloy, titanium and stainless steel. These very efficient Montz products aroused increasing interest on

the global market. The resulting orientation towards export led to a co-operation with international partners and licenses for Montz products in Brazil, Japan and the USA. In the eighties, the product range was expanded by a new and important field: the engineering services for process and plant technology could be extended through the introduction of state-of-the-art computer hardware and appropriate software. Thus, one can now expect not only excellent products but also expert and all-round engineering services from Julius Montz. Which is why the Julius Montz company has become a leader in its field. It has a comprehensive and efficient range of products and services, carries out intensive research into the development of products of international interest and, thanks to its creative and individual range of services, it will always be a competent and innovative partner for you, our customer.

Engineering Services

Competent service in the field of plant engineering

Apart from excellent product developments, the Julius Montz Company can also offer complete engineering services for distillation plants, thus ensuring an exact planning and a comprehensive and professional execution. There now follows a brief summary of the services offered and the fields of application for Montz engineering.

Fields of application:

Oil and gas industry

- liquid-liquid extraction to remove methanol from fuel additives
- columns to dry natural gas
- atmospheric and vacuum columns to fractionate crude oils

Air separation

Structured packings and distributing systems for columns designed to extract oxygen, nitrogen and argon from air.

Synthetic fibres

Glycol and methanol recovery from extraction water and nylon-6 chips

Coking plants

Ammonia strippers and de-acidification plants

Food industry

- rectifying plants for mashes
- fractionating columns for fruit juices
- de-alcoholising of beer and wine products

▶
Distillation columns
for oxo-alcohols



Our engineering services:

Basic Engineering

- balancing
- process simulation with HYSIM, ASPEN and HDX
- dimensioning of columns, falling film evaporators, heat exchangers, piping, pumps, control technology
- flow charts (CAD)

Detail Engineering

- design, shop drawings, space assignment plans, piping layouts
- calculations of strength
- structural calculations

Execution

- procurement
- Quality assurance
- manufacture of columns, column internals and falling film evaporators

Assembly

- planning
- supervision
- execution

Revamping

- replacing trays and random packings in existing columns with Montz packings
- planning and execution of modification works

Montz plant engineering

- plants and plant components for thermal fractionating technology
- fractionating columns for isocyanates (TDI, MDI, MDA) in the chemical industry
- fractionating columns and falling film evaporator plants for fatty acids and alcohols
- rectifying plants for the purification of bisphenols
- columns to concentrate aliphatic alcohols.

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Rectifying plant for
butanol amines



Addresses and Services

This list shows you where you can find our range of products and services and our world-wide agencies and representations:

Range of products offered by Montz:

apparatus, plants, engineering: rectification (pressure and vacuum), distillation, absorption, extraction, falling film evaporators, heat exchangers

Column internals:

- Structured packings:
 - B1 packing
 - BSH high performance packing
 - A3 wire mesh packing
 - C1 PTFE packing
 - MULTIPAK®
- Liquid distributor systems
- Mass transfer trays:
 - Cross-flow trays type KSG
 - Montz tunnel trays
 - Montz Thormann® trays
- Sieve and bubble cap trays
- Reflux splitters

Materials:

stainless steel, carbon steel, aluminium, copper, nickel, Hastelloy, titanium, tantalum, zirconium, etc.

Assembly and installations:

- industrial installations
- revamps
- repairs
- annealing of apparatus

Inspections and technical codes:

TÜV, Lloyd`s, Stoomwezen, ANCC, Service des Mines, AIB-Vinçotte, ASME ...

Representations and Agencies

Belgium:

- Bureau Technique De Jonghe
Bloemendal 18
B – 1650 Beersel
Phone 02/3 80 59 18
Fax 02/3 80 63 87

Brazil:

- Nebrasco S.A.
AV. PAVAO 214 CEP 04516
Sao Paulo
Phone 0 11/542 6511
Fax 0 11/542 6511

France:

- TECHIM
5, rue du Bailliage – BP 471
F-78004 Versailles Cedex
Phone 01/39 50 03 57
Fax 01/39 49 91 99

Great Britain:

- ETA Process Plant Ltd.
The Levels, Brereton, Rugeley
Staffs. WS15 1RD
Phone 0188/9 57 65 01
Fax 0188/9 57 98 56

Switzerland:

- KÜNZI Engineering AG
Hauptstraße 169
CH-4416 Bubendorf-Basel
Phone 061/9 31 10 00
Fax 061/9 31 30 11

Licensees

Brazil:

- CONFAB Industrial S.A.
RUA DR. GONZAGA S/NO
BAIRRO MOREIRA CESAR
12.440-200
PINDAMONHANGABA
Phone 0 12/241 1182
Fax 0 12/240 2200

Japan:

- NISSHO IWAI
Machinery System Corp.
5-8 Imabashi
2-chome Chou-ku
Osaka 541
Japan
Phone 0 66/209 3341
Fax 0 66/209 3671

USA:

- ACS Industries, LP
Separations Technology Division
14211 Industry Road
Houston, TX 77053
Phone 713/434 0934
Fax 713/433 6134
email: acsind@acsindustries.com

