

The appeal of  
construction:  
A single supplier  
for all the technology  
of dry premixes.



*From raw materials to finished product:  
m-tec provides you with everything from A to Z.*

**m-tec**<sup>®</sup>  
Technology for better building



For decades mortar has been produced on site, mixing sand and cement in small mixers or even by hand. This work is however time-consuming and the result often not satisfactory because of the inconstant quality obtained.

For over 30 years m-tec has been synonymous with the development and production of innovative solutions for the manufacturing, logistics and working of modern construction materials. m-tec has improved, accelerated and economized building processes everywhere.



Mixing, transport and application – Key points of m-tecs product line-up

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Technology for better building



Raw material analysis



Fine-tuning the formula

**Better  
Faster  
More efficient**

**m-tec builds  
the future**

As part of the Saint-Gobain Group, one of the worlds leading firms in the production and sales of innovative construction materials, the m-tec has approximately 400 employees. The m-tec has branches in Spain, The Czech Republic and China. Sales offices, representatives and salespersons may be found in nearly every industrialised nation of the world. Thanks to m-tecs know-how and commitment to the field of dry pre-mixes, m-tec has earned a leading position on the market.

The m-tec provides a unique combination of services from the following three sectors:

- Technology Centre (TC)
- Plant Technology (PE)
- Construction Site Technology (SE)

From the analysis of raw materials and the fine-tuning of the mixes (TC) to the design and manufacture of appropriate machinery for working the materials on the construction site (SE) and even the planning and realisation of entire plants for dry pre-mixes (PE): m-tec clients always receive the best specialised consultation and equipment.

**Our services:**

- market research
- raw material analysis
- fine-tuning of product formulae
- quality control systems
- mixing technology and plant design
- packaging technology
- conveying equipment
- mixing pumps
- mixers
- pumps
- silos and respective transport systems
- client training
- marketing strategies
- general assistance and maintenance



*Production of Building materials*



*Transport*



*Application*



## > m-tec Technology Centre

The m-tec Technology Centre is available with practical advice and expertise to make your entry into the dry premix market as easy as possible.

The Centre offers various services related to the development of the product:

Services range from the analysis of raw materials and advice on the choice of materials, to training in product development. We also offer assistance and training on the subject of quality control systems as well as providing information for an informed choice of laboratory equipment.

Our Technology Centre offers our clients advice on how to handle and work the premixes on site.

- **Market research**  
Documentation of quality standards for every nation
- **Consultancy on the choice of raw materials**  
Analysis of raw materials for perfect product characteristics
- **Product development**  
Optimisation of raw materials for high quality products
- **Optimisation of formulae**  
Selected products for automatic processing
- **Laboratory instruments**  
Consultancy and provision of equipment
- **Quality control**  
QS system building
- **Applicator training**  
Boosting productivity and quality standards
- **Marketing and sales training**  
Preparation of efficiency and economisation calculations

*Raw materials for success stories.*



Raw material production



Product composition formulae



Plant design



## > m-tec plant technology

The plant technology division provides fully or semi automatic mixing plants for the large scale production of dry premixes at advantageous prices. Besides measuring, weighing and mixing systems, m-tec also offers solutions for sand preparation and for packaging and loading of the dry premix products. To round-off our product pallet we offer specialized control systems as well as after sales services and assistance.

### Mixing systems

m-tec mixing systems are suitable for continuous and batch production. m-tecs mixing systems can be used for dry or humid materials sized from powder to large grain)

### Small mixing plants

- compact structure and simple construction
- for capacities of 1 – 10 t/hr
- ideal for construction materials, covering materials, ceramics, chemicals

### In-line mixing plants

- reduced height and reduced foundation loading
- for capacities up to 100 t/hr

### Tower mixing plants

- occupies a minimal surface space
- reduced costs thanks to the energetically economical flow of material
- for capacities up to 200 t/hr

### Component systems

#### Measuring, Weighing, Mixing, Conveying

m-tec also provides single components of mixing plants, for example: Scales, mixers, cellular wheel sluices, screw conveyors, and air cushioned conveyor belts.

### Control systems

m-tec control systems for preparation, measuring, weighing, and mixing guarantee high precision and reproducibility of the process whilst also providing an operator friendly interface.

### Service

Our comprehensive service range provides our clients with complete and competent technical support for their mixing plants. This guarantees optimal operation of components, command systems or even whole plants.

We also provide the necessary know-how to modify existing plants or to directly support of the construction of new plants.



Measuring, Weighing, Mixing – made by m-tec!



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## > m-tec site equipment

m-tec site equipment division provides mobile silos and flexible transport systems for an efficient on site delivery of dry premixes. Pneumatic conveying systems, plaster applicators, continuous mixers, mortar pumps and small silo systems complement our range. m-tec provides a complete range of machinery for fast and precise work with dry premixes.

m-tec also provides site equipment service packages specifically tailored to guarantee our clients maximum flexibility and capacity.



*m-tec site equipment*

### The range includes:

- conveying systems
- mixing pumps
- silo mixing pumps
- mixers
- pumps
- systems
- silos
- silo supports and positioning frames
- electrical power generators



### Patented mixing system

m-tec has revolutionized the way construction materials are mixed. The technical highlight of the new method is the transfer of material between the dosing and mixing areas. Water is no longer sprayed onto the dry mix as was standard. The material is measured using our patented system and then immersed in a water bath and mixed. The result is perfectly mixed construction material and the maximum possible effect of the additives.

This ensures first class processing of the building materials.





## > m-tec applications

Whether its mortar, plaster for interiors or exteriors, white or coloured, adhesives and filler for insulating systems, gypsum and finishing plasters, self levelling floor screeds with a calcium sulphate or cement base, reinforcing mortars or paste products....



m-tecs' processing technologies are fine-tuned to each type of product. Whilst planning in our laboratories or changing formulae on site, special consideration is paid to any influencing characteristics of markets or regions. Specialists at our training center provide the necessary know-how for dry mix technology

We continually develop our products further for and with our customers.

Some chemical products for the construction trade carry out complex functions. In the field of special mechanical applications for chemical compounds m-tec is developing the use of binders like cement, lime, gypsum and clay as well as mixing systems for polymer modified mortars, levelling compounds, mineral injections and sealing slurries. More and more technical solutions are offered for processing organic products such as glues or coating systems with the objective of reducing the physical work load on site to a minimum.

Whether its tunnel construction, railway, road building, bridge or hydraulic engineering, modern engineering calls for the use of cutting edge technology and high quality construction materials. Wherever there are demands for construction materials with particular qualities and high health and safety standards, m-tec offers mechanical solutions that mix correctly and pump transport and inject consistently.



*A complete programme for complete service - pumps by m-tec*



**m-tec**<sup>®</sup>  
Technology for better building

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