

The best of Europe for you!

**Bütler & Partner** /Bü.  
Process Equipment and Systems

# Process Solutions for Pharmaceutical Industry

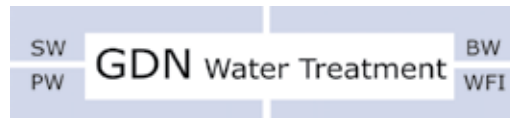


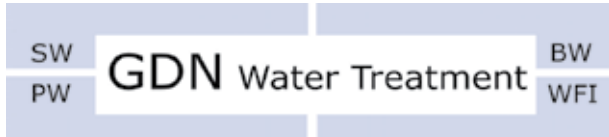
- Water treatment, water for injections and sterile steam
- Wet milling
- Emulsifying and foaming
- Shakers, incubator shakers
- Reactors and bioreactors
- Filling, closing, crimping
- Packaging, cartooning
- Filtering
- Vacuum systems: conveying, dosing, lifting
- Mixing, homogenizing
- Dry milling
- Product separation, centrifuging
- Spray dryers, fluid beds
- Sieving, classifying, filtering
- Ultrasonic systems

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# Our brands

**Bütler & Partner /Bü.**  
Process Equipment and Systems





**GDN s.r.l. / Italy is an expert in water treatment systems - from primary treatment of water from water supply, rivers and seas up to treatment systems for water for injections.**



#### **Range of equipment:**

- pure steam generators
- multiple effect systems
- steam mechanical compression systems
- ozone generators
- sand filters
- microfiltration cartridges
- softeners
- distilled water storage tanks
- sanitization and sterilization systems

#### **Applications:**

- water for injections
- water softening
- toxins removal
- protein purification and concentration
- depyrogenation
- microorganisms removal
- antibiotics
- enzymes and vitamins purification
- and other applications



# Size reduction, wet milling, dispersing



KINEMATICA AG / Switzerland counts as inventor and innovator in rotor/stator technology. For over 60 years Kinematica is the leader in following processes: dispersing, mixing, homogenizing, emulsifying, aeration/foaming, suspending. All Kinematica devices are equipped with quick coupling system and are easy to clean.



Range of Kinematica solutions for laboratories, pilot plants and production include:



- homogenizers POLYTRON, BIOTRONA
- dispersers MEGATRON
- micro mill POLYMIX
- reactors REACTRON
- blenders Microtron
- flow viscometers POLYVISC



## Applications:

- dispersing and disruption of tablets
- suspensions
- laxatives
- emulsions
- juices
- vaccines
- parenteral food
- antibiotics
- plant extracts
- creams
- ointments
- vitamins
- sample preparation for quality guarantee and control



# Reactors Complete production lines

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# ENOOP

ENOOP Ltd. / Slovenia provides the complete service package in designing and manufacturing up to installation and commissioning of stainless steel reactors and constructions for high quality pharmaceutical products production.

#### Range of equipment:

- reactors
- bioreactors
- fermenters
- storage vessels
- process vessels



#### Options:

- stirrers and scrapers
- homogenizers
- feeding and regulation devices
- valves and pipelines

#### Applications:

- emulsions
- suspensions
- creams
- lotions
- gels
- tooth paste
- ointments
- apozems
- sprays
- granules for vitamin additives
- and other applications



# Glass reactors



Soffieria Sestese s.r.l./Italy is a specialist in glass blowing of glass and quartz for the production of industrial equipment with great experience. Soffieria Sestese provides solutions starting with glass parts and ending with turnkey plants



The range of Soffieria Sestese's products includes:

- glass reactors, single and double jacketed
- glass reactor distillation plants
- glass vessels and covers
- couplings, pipes and fittings
- column parts
- heat exchangers
- nutsche filters
- glass spare parts for any old installations

Applications:

- distillation
- fermentation
- reaction
- extraction



## Kuhner shaker

KUHNER AG / Switzerland develops and manufactures shakers, precise and incubator shakers, as well as bioreactors for cell cultures for pharmaceutical and biotechnological laboratories.



Range of equipment:

- shakers
- incubator shakers
- shaken bioreactors

Applications:

- blood-coagulation factors
- hormones
- vaccines
- thrombolytic agents
- interferons
- additives
- other applications



# SYNOPAC

SYNERGY OF PACKAGING

Synopac AG / Switzerland develops and manufactures manual and semiautomatic filling and closing devices for liquid products. They can be used as separate blocks, as well as integrated into existing production lines. Synopac filling and capping devices totally correspond with the GMP rules and are suitable for laboratories and production.



#### Range of equipment:

- tabletop filling systems
- screwing devices
- crimping units
- labeling equipment
- capsule fillers

#### Applications:

- aerosols
- sprays
- injections
- nasal drops
- eye drops
- ointments
- creams
- and others



# Filling and capping



COMAS s.r.l. / Italy presents state-of-the-art filling and capping systems. For more than 40 years COMAS SRL has been designing and manufacturing automatic and semi-automatic blowing machines, filling and capping lines for pharmaceutical and cosmetic products according to GMP rules.



#### Range of equipment:

- automatic filling and capping machines
- semi-automatic filling and capping machines
- blowing machines

#### Applications:

- aerosols
- sprays
- injections
- nasal drops
- eye drops
- ointments
- creams
- medicines for oral use
- syringes
- test samples
- other applications





Bergami S.r.l. / Italy provides semi- and fully automatic packaging machines for pharmaceutical and cosmetic industries - from tubes filling, sachet and case packaging and cartoning up to palletizing.



#### Range of equipment:

- tube fillers
- vertical and horizontal cartoners
- wrap-around tray-packers with robotized product feeders



- overwrapping and bundling machines
- automatic case-packers, in top loading and side loading configuration
- palletizing systems
- complete packaging lines

#### Applications:

- tubes filling
- bottles packaging
- cartoning
- sachet packaging
- case packing
- wrapping
- wrap-around trays packing
- other applications



# Product separation Cenrifuges, dryers, micronizers

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Riera Nadeu S.A. / Spain is a specialist in product separation technologies. The series of centrifuges of all types and sizes is completed with jet-dryers and micronizers. Riera Nadeu provides also “turn-key” solutions and designs complete production lines.



Range of Riera Nadeu includes:

- vertical centrifuges
- horizontal centrifuges
- super-centrifuges
- decanting centrifuges
- turbo instant jet-dryers
- turbo-micronizers

Applications:

- antibiotics
- API
- oxalic acid
- salts
- fats
- fungicides
- vitamins
- saccharin



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European Spraydry Technologies / Great Britain is specializing in designing, manufacturing and installation of lab and industrial equipment for drying powders .



#### Range of equipment:

- spray dryers
- fluid beds, dryers and granulators
- evaporators

#### Applications:

- ceramics
- pesticides
- herbicides
- polymers
- washing agents
- pigments
- chromic acids
- resins
- bentonite clay
- silver oxide
- vitamins
- micronized
- lactose
- powder ingredients



## Size reduction Dry milling



Frewitt SA / Switzerland is an expert in dry milling. 60 years of experience allowed Frewitt to become one of the world leaders in production of mills for dry milling. Understanding high requirements to devices of this class Frewitt offers a wide range of equipment for size reduction and milling, including versions for clean rooms and ATEX zones.



#### Range of equipment:

- hammer mills
- conical mills
- rotoring sieve mills
- oscillating sieve mills
- crushers
- modular systems

#### Applications:

- milling of substances
- production of powders
- vitamins
- dietary supplements
- API
- ingredients for suspensions
- other applications that demand fine milling and
- homogeneous particles distribution





Russell Finex Ltd. / United Kingdom manufactures a wide range of process separation and filtration equipment for wet and dry materials. Russell Finex machines are designed to help customers to assure high quality of their products and improve productivity.



- Range of Russell Finex includes:
- vibrating sieves
  - screeners
  - liquid solid separators
  - self-cleaning filters
  - ultrasonic deblinding systems

- Applications:
- excipients
  - API
  - and other applications that demand preliminary
  - cleaning of solid and liquid ingredients



## Mixing, sieving, milling



Fuchs AG / Switzerland is a specialist in equipment for mixing and sieving of bulk materials.

### Equipment:

- drum blenders MIXOMAT
- sifters SIFTOMAT
- toothed disk mills GRANOMAT



### Applications:

- vitamins
- API
- powders
- and other applications that require sieving and mixing of ingredients

Fuchs equipment is designed and manufactured according to requirements of the customer.





**Bolz Intec GmbH / Germany** is a specialist in manufacturing of high quality stainless steel containers and respective accessories, such as special stirrers, trolleys, holders, etc. Containers are manufactured in full accordance with GMP requirements.



**Range of equipment:**

- stainless steel drums
- pressure vessels
- funnels
- cleaning systems
- agitator vessels
- batch vessels
- laboratory kits
- drum trolleys

**Applications:**

- safe storing
- reliable conveying
- mixing in combination with respective additional equipment





Co.Ra s.r.l. / Italy is a leading engineering company, specializing in manufacturing components for dosing and conveying systems for bulk solids. .



**Range of equipment:**

- different types of valves: sole and double valves, rotary and butterfly valves, etc.
- gaskets
- hoses
- dosing systems
- lifting systems
- clamps

**Applications:**

- dosing and conveying of pharmaceutical ingredients and finished pharmaceutical products in hard form.





Agierre s.a.s. /Italy is a leading engineering company, providing bulk solids handling solutions for the pharmaceutical, chemical and other industries.



**Range of equipment:**

- vacuum conveying
- lifting columns for drums, bins, big bags
- product transfer drum to bin, bin to bin, bin to drum or to successive process, i.e. milling, compacting, tablet pressing

**Applications:**

- dosing and conveying of pharmaceutical ingredients and finished pharmaceutical products in hard form.



## Three-Tec T

THREE-TEC GmbH / Switzerland is a specialist in developing, and manufacturing of fine dosing equipment and mini-extruders for the pharmaceutical industry.



### Range of equipment:

- mini extruders 5 - 32 mm
- flat -tray feeders
- gravimetric single and twin feeders
- volumetric single and twin feeders

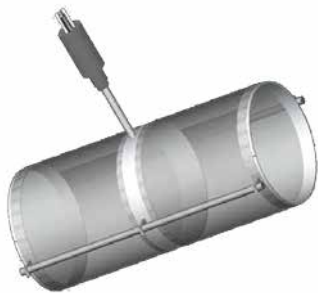
### Applications:

- highly accurate dosing and feeding of flowing powders, flakes, pellets, granulates and agglomerates





ARTECH AG / Switzerland is specializing in the production of ultrasonic systems, designed for the ultrasonic excitation of complex structures, as sieving decks, feeding trays and cutting tools. They can be used for sieving, charging, conveying and feeding bulk material and powders.



#### Range of equipment:

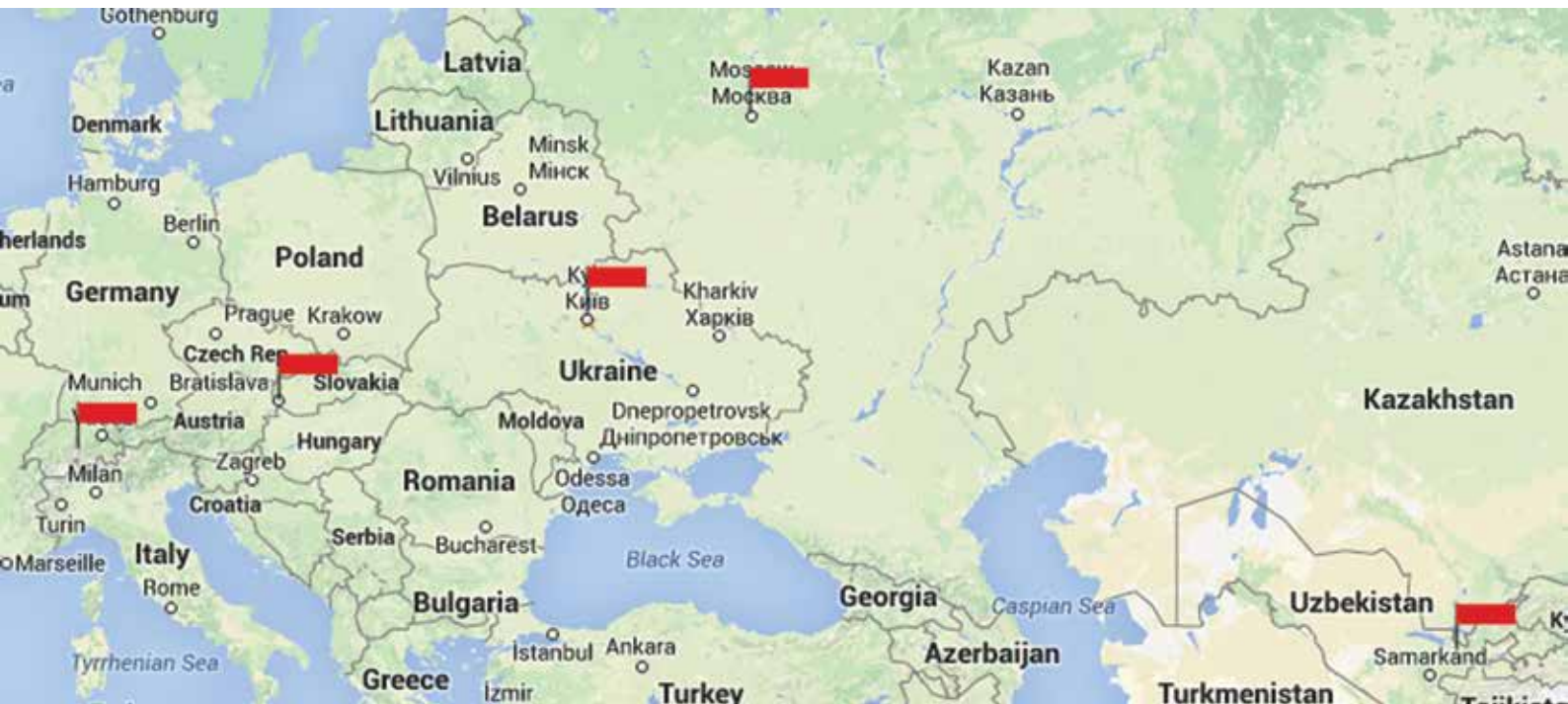
- components for different ultrasonic applications
- as cutting, sieving, feeding and charging
- generators
- converters
- sieves
- ultrasonic knives
- accessoires

#### Applications:

- sieving powders
- ultrasonic cutting
- feeding bulk materials
- and other applications



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