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# ПРЕССЫ ТАБЛЕТОЧНЫЕ CONSIGMA Технические характеристики



# Compact Feeder (CF) Test Rig

The ConsiGma® CF test rig is a standalone module that allows you to characterize the feeding behavior of your products during the early stages of R&D.

Feeding and dosing the individual powders of a formulation is one of the critical unit operations in a continuous manufacturing process. Therefore, the ability to characterize the feeding behavior of your materials at an early stage is key.

The ConsiGma® CF test rig is a standalone module that enables you to check feeding behaviors at throughputs between 0.025 and 60.00 kg/h (depending on the product).

Regardless of the final purpose (fully integrated continuous line or individual unit operation), this unit is targeted at all companies who have an interest in integrating a continuous feeding step into their operations.

## Cleaning

From simple cleaning options to systems for high containment applications, GEA offers a comprehensive range of cost-effective technologies for our ConsiGma® 4.0 modules.

Working together, we can help you to select the most appropriate solution for your plant or line. Discover more in our “Cleaning Solutions for ConsiGma® 4.0” brochure. There’s a better way to meet your specific requirements.

## Scope

- GEA Compact Feeder
- Top-up system

## Applications

- Offline testing of powder to determine optimal feeder set up

## Main Benefits

- Development efficiency
- Minimize powder use

## Standard Configuration

- Powder hopper
- Top-up valve
- Compact feeder

## Available Options

- Different gear boxes (3) and feeding screws
- Weigh scale to measure output of feeder
- Options to optimize powder feeding

# Direct Compression with Linear Blending (DC-LB) Lines

ConsiGma® DC-LB Lines integrate continuous dosing, dry blending using linear blenders and tablet compression into one efficient continuous production system.

A highly integrated solution for continuous dosing, linear blending and direct compression, the ConsiGma® DC-LB lines offer all the advantages of continuous manufacturing: supply chain agility, small footprint, controlled blending and compression and improved quality.

Available in 2 standard sizes, depending on the desired throughput (from 1 to 130 kg/h or 20,000 to 180,000 tablets/h to be verified by testing), the systems can be customized with a number of options to suit customer needs.

The Conductor 4.0 software ensures seamless control of the entire process and provides full reporting and track & trace.

Mainly targeted towards high-value products (low dose API), orphan drugs and new chemical entities, and particularly suited for challenging recipes that require two-stage blending or more dispersive blending, the systems can be equipped with cleaning and containment features to handle highly potent formulations (depending on API concentration, up to OEB5 or even 6).

## Scope

- Up to 6 GEA LiW feeders
- 2 Linear blenders (70 or 120 mm)
- MODUL P / S, NexGen Press®

## Applications

- Products that require 2 stage blending
- Products sensitive to segregation
- NCE, Orphan Drug, CDMO

## Main Benefits

- Highly efficient blending
- Faster time to market
- Small footprint

## Standard Configuration

- Up to 6 loss-in-weight feeders with automatic top-up systems
- 2 configurable linear blenders
- GEA compression system

## Available Options

- PAT tools
- Hot swap parts for fast changeover
- Material handling system including containment features
- Containment upgrade
- GEA Coater

## Cleaning

From simple cleaning options to systems for high containment applications, GEA offers a comprehensive range of cost-effective technologies for our ConsiGma® 4.0 modules.

Working together, we can help you to select the most appropriate solution for your plant or line. Discover more in our “Cleaning Solutions for ConsiGma® 4.0” brochure. There’s a better way to meet your specific requirements.

# Granulation & Compression (GC) Lines

ConsiGma® GC Lines integrate continuous wet granulation, fluid bed drying and tablet compression into one efficient continuous production system.

Highly integrated solutions for continuous wet granulation, drying and tablet compression, the ConsiGma® GC lines offer all the advantages of continuous manufacturing: supply chain agility, small footprint, controlled granulation and improved quality.

Available in 3 standard sizes, depending on the desired throughput (from 5 to 120 kg/h or 20,000 to 180,000 tablets/h to be verified by testing), the systems can be customized with a number of options to suit customer needs.

The Conductor 4.0 software ensures seamless control of the entire process and provides full reporting and track & trace.

Mainly targeted towards high value products (low dose API), orphan drugs and new chemical entities, the systems can be equipped with cleaning and containment features to handle highly potent formulations.

## Cleaning

From simple cleaning options to systems for high containment applications, GEA offers a comprehensive range of cost-effective technologies for our ConsiGma® 4.0 modules. Working together, we can help you to select the most appropriate solution for your plant or line. Discover more in our “Cleaning Solutions for ConsiGma® 4.0” brochure. There’s a better way to meet your specific requirements.

### Scope

- Wet granulation / segmented fluid bed
- Granule conditioning unit (GCU)
- MODUL P / S, NexGen Press®
- Tablet coater (Single or Twin)

### Applications

- NCE
- Orphan drugs
- Blockbusters
- High concentration of poorly flowable API

### Main Benefits

- Miniaturized and intensified granulation
- No Scale up from R&D to GD 25/500
- No work in progress

### Standard Configuration

- 1 loss-in-weight feeder for formulation pre-mix
- Twin-screw granulator
- Segmented fluid bed dryer
- Granule conditioning unit
- GEA compression system

### Available Options

- Dosing and blending unit for preparing the formulation pre-mix
- Melt granulation set-up
- Solvent capable
- PSR
- PAT tools
- Cleaning upgrade
- Containment upgrade
- Material handling system including containment features
- TC coater modules

# Tablet Coating (TC) Modules

ConsiGma® TC modules are all-in-one solutions, capable of R&D, clinical and full-scale production using the same system. They can be used in both batch and continuous production, either as stand-alone, in bin-2-bin systems, or linked to any up-or downstream process.

The ConsiGma® TC modules are based on the GEA high-performance tablet coating technology that gently and accurately deposits controlled amounts of coating materials onto tablet cores — even if they are hygroscopic or friable.

Highly agile and available in 4 standard set-ups, the ConsiGma® TC can coat any amount of tablets between 1.5 kg and 500 kg within a 8 hour shift (up to 1000 kg for a twin-coater system). Nominal throughputs (from 15 kg/h up to 60 kg/h, to be verified by testing) are flexible due to the interchangeable coating wheels, and the systems can be customized with a number of options to suit the customer's needs.

They are suitable for applying aesthetic, enteric or API coating in a very accurate way and are ideal for pharmaceutical companies who wish to benefit from a higher process control and resulting higher quality of the product.

The Conductor 4.0 software ensures seamless control of the entire process, full reporting and tracking of OOS. Material genealogy can be integrated into the controls. Handshaking with up- or downstream equipment can also be offered.

## Scope

- Loading from specially designed tablet feeder
- Single or twin coater
- 160 / 320mm wheel

## Applications

- Aesthetic coatings
- Enteric coatings
- API coatings

## Main Benefits

- Improved coating quality
- Less coating solution required
- Small footprint
- No scale up

## Standard Configuration

- 1 or 2 coater wheels
- 2 sizes of wheel available

## Available Options

- Feeding from:
  - Specially designed tablet feeder
  - Fully integrated ConsiGma® CM line
  - Standalone tablet press
  - Fully integrated with new GEA press
  - Handshake with existing or customer selected press
- I C
- Manual
- Solvent capable
- Wash offline
- PAT Probe
- Tablet waxing unit

## Cleaning

From simple cleaning options to systems for high containment applications, GEA offers a comprehensive range of cost-effective technologies for our ConsiGma® 4.0 modules. Working together, we can help you to select the most appropriate solution for your plant or line. Discover more in our "Cleaning Solutions for ConsiGma® 4.0" brochure. There's a better way to meet your specific requirements.

# Dosing and Blending (DB-RB) Modules

ConsiGma® DB-RB modules offer standalone continuous dosing and blending operations, using a ribbon blender in continuous or mini-batch mode.

Designed to achieve optimal blending results, the ConsiGma® DB modules facilitate the testing of dosing and blending operations and can be integrated with any continuous up- or downstream process.

Depending on its configuration and the formulation, the system can achieve throughputs of 1 to 400 kg/h.

The Conductor 4.0 software ensures seamless control of the entire process and full reporting. Tracking of OOS and material genealogy can be integrated into the controls. Handshaking with up- or downstream equipment can also be offered.

ConsiGma® DB modules can be implemented in a wide variety of situations, including the following:

- Dosing and blending of external phase additions
  - (lubricant) together with a pre-blend
- Dosing and blending of multiple (up to four) components of flowable powder materials
  - As an R&D module to investigate the dosing and blending process for NCE, orphan drugs or low-dose APIs
  - As a dosing and blending unit combined with other continuous up- or downstream processes for both low dose and high throughput products, depending on the configuration.

The modules are suitable for ethical, CDMO, generic, nutraceutical or CMO operations.

## Scope

- 2 feeder table options
- Ribbon blender
- Interface with customer equipment

## Applications

- Easily blended formulations
- Shear sensitive powders
- Granule & external phase blending

## Main Benefits

- Blending up to 400kg/h
- Lower investment into CM with existing tablet press

## Standard Configuration

- 2 to 4 loss-in-weight feeders
- 2 possible sizes of ribbon blender

## Available Options

- Choice of feeder (GEA or qualified third-party supplier)
- Continuous flow or mini-batch blending capability
- Blend uniformity measurement with Lighthouse Probe®
- Customer selected tablet press (GEA or other – control interface to be clarified)
- OOS rejection
- Material genealogy
- Integration with roller compactor

## Cleaning

From simple cleaning options to systems for high containment applications, GEA offers a comprehensive range of cost-effective technologies for our ConsiGma® 4.0 modules. Working together, we can help you to select the most appropriate solution for your plant or line. Discover more in our “Cleaning Solutions for ConsiGma® 4.0” brochure. There’s a better way to meet your specific requirements.

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