

KORSCH

# STYL'ONE

## Evo

VERSATILE  
COMPACTION  
SIMULATOR

# STYL'ONE Evo

## The Most Advanced Compaction Simulator

The STYL'ONE Evo is the global reference compaction simulator, designed for formulation development, scale-up, and production support. It is capable of producing any tablet format, from single- to multi-layer and tablet-in-tablet configurations.

Its innovative drive technology delivers high punch velocity and acceleration, enabling precise replication of any existing production rotary press or roller compactor on the market, supporting the development of robust and optimized formulations.



### Versatility

Equipped with a wide range of accessories and software modules, the system supports virtually any product development requirement. It enables a comprehensive understanding of powder tableting behavior through integrated data acquisition and analysis capabilities. Advanced features include a heated die, an automatic external lubrication system, and a GMP production software module with a good/bad tablet sorting chute.

Beyond the supply of state-of-the-art machinery, KORSCH's global Innovation Center network of scientists and process experts provides continuous training and consultancy to help you maximize the performance and value of your equipment.



# FLEXIBLE COMPRESSION PROFILES

## Innovative Drive Technology



Thanks to its powerful drive system and advanced instrumentation, the STYL'ONE Evo precisely controls punch displacement, enabling the execution of a wide range of compression cycles, including V-shape and extended dwell-time, as well as roller compactor and rotary press profiles.

Each process parameter - such as upper punch insertion depth, dosage height, and compression speed - is independently defined within a recipe via an intuitive software interface.



Extended dwell-time & V-shape



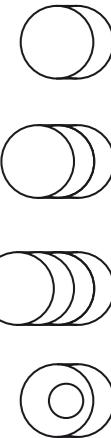
Pre- & main compression



Simulation of all rotary presses & roller compactors



Custom profiles: e.g. ejection under stress



# POWERFUL DATA ACQUISITION SYSTEM

## Invaluable Data Collection



The STYL'ONE Evo is equipped with a powerful data acquisition system capable of recording multiple signals for both upper and lower punches, including pre- and main compression forces and displacement. High frequency acquisition allows the capture of very short events, such as ejection and take-off. In addition, the instrumented die records maximum and residual die wall pressures, enhancing formulation understanding.

External devices such as tablet testers or scales can be connected to automatically collect additional data - including hardness, weight, and dimensions - supporting comprehensive reports and graphical analysis.

# EFFICIENT DATA ANALYSIS

## Decisions Based on Data



Data generated by the STYL'ONE Evo is computed and analyzed using proprietary, user-friendly software that simplifies and streamlines data analysis and interpretation.

A comprehensive range of USP<1062> graphs - including manufacturability, tabletability, compressibility, and compactibility - enables straightforward comparison of different products and processes. More in-depth analysis through customized plots allows detailed evaluation of parameters such as compaction energy, porosity, ejection stress, elastic recovery, and more (e.g. Heckel analysis).

Both raw and processed data can be exported to customer local networks or cloud environments for modeling purposes and remain easily accessible for remote review via a viewer license.



Product & process parameters



Pre- & main compression force and displacement



Ejection, take-off force & die wall pressure



Fast design of experiment (DoE) execution



Invaluable information with minimal material quantity



In-depth material & formulation understanding



Viewer license for remote data analysis

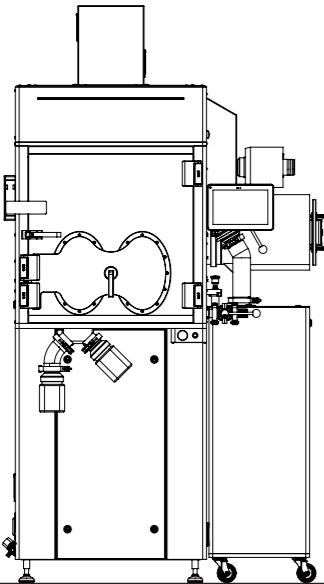


R&D reporting and GMP batch report

# CONTAINMENT EXECUTIONS

## Maximized Operator Safety with OEB 3/4/5 Solutions

For applications requiring enhanced operator safety, the STYL'ONE Evo is available in DryCon® and WipCon® containment executions. These configurations feature negative pressure monitoring, interlocked doors, customizable transfer ports such as pass-through boxes, rapid transfer port, or continuous liner, along with formal SMEPAC testing for containment level certification.

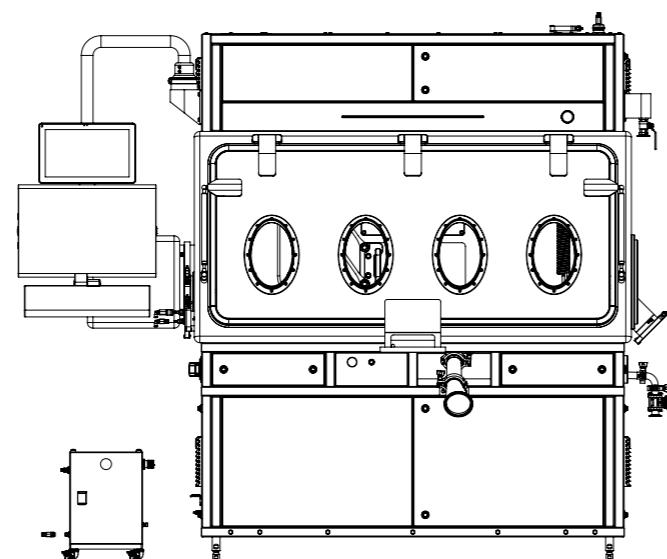


### DryCon® Execution

- OEB 3/4 containment level
- Connectable to a vacuum system
- Dry containment
- Small footprint

### WipCon® Execution

- OEB 4/5 containment level
- Wash-in-Place containment
- Integration in an isolator
- Cleaning recipe with integrated vacuum cleaner and spraying system
- Large space to integrate a tablet tester or scale



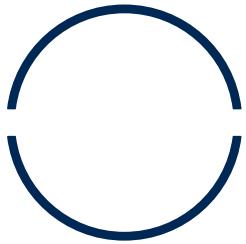
## Technical Data STYL'ONE Evo

### Description

Punch Station	1	
Tablet Format	Single-layer, multi-layer, mini-tablets, core rod	
Tool Type	EU / TSM B - D and non-standard	
Die Type	BBS, BB, B, D and non-standard	
Feeding Mode	Manual, gravity, paddle, high capacity hopper	
Max. Production Output	tabs./h	1,800
Max. Tablet Diameter	mm	16 (B), 25 (D) (contact us for larger formats)
Max. Die Filling Height	mm	21 (B), 23 (D), 40
Upper Punch Insertion Depth	mm	2 - 12
Max. Precompression Force	kN	50 (up to 120 optional)
Max. Main Compression Force	kN	50 (up to 120 optional)
Load Application		Upper and/or lower punch
Compression Mode		Force or displacement driven
Punch Velocity (per punch)	mm/s	490
Powder Bed Reduction	m/s	~1
Punch Acceleration (per punch)	mm/s <sup>2</sup>	25,000
Dwell Time	ms	2 - 3,000
Power Supply Voltage		400 V 3-Phase 50/60 Hz / 480 V 3-Phase 50/60 Hz
Power	kW	7,000 nominal / 2,000 in operation
Electric Protection	A	32 (type C)
Fault Current Protection / Leakage current	mA	300 (type Asi)
Compressed Air	Bars L/min (nominal)	6 10
Flow Required For Aspiration	m <sub>3</sub> /h	10 - 30
Weight	kg	1,075

### Technical modifications reserved

KORSCH tablet presses and compaction simulators meet all fundamental requirements of the Machinery, ATEX, EMC, and Ecodesign Directives, as well as current GMP and FDA regulations. KORSCH tablet presses and compaction simulators are delivered with CE marking and comply with the requirements of 21 CFR Part 11. Peripheral equipment belonging to the machine also complies with these regulations. The technical specifications included in this document represent optimal parameters and are dependent on product quality and machine settings. The maximum compression force varies in relation to tablet/punch size, and output; the maximum output in relation to material, tablet/punch size, and compression force. The average electrical power consumption depends on the production parameters.



KORSCH

## Focused on Tablets, Driven by Innovation

Specialization makes the difference: For over 100 years, we have focused on what we love and do best: tabletting!

Experience is key: Thousands of successfully completed projects form the foundation of the largest and most innovative product portfolio in the industry.

We offer the perfect solution and expertise for a wide range of requirements: from special presses for R&D, to rotary presses for scale-up operations and medium batch production, all the way to high-performance presses for 24/7 operation.

Our tablet presses are successfully in use worldwide every day, supported by a global team of specialists in service, process optimization, and sales.

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