
PRODUCT PORTFOLIO
WEIGH IT RIGHT
ColorService®
DOSING TECHNOLOGIES
Designed & Manufactured in Italy

INDEX-


03
CS-BATCHTRAIN
04
CS-INSTANT
05
CS-CALIBRO
06
CS-GRAVITAS
07
CS-DLV
08
CS-MES

OVERVIEW

WHO WE ARE

Established in 1987, Color Service is an **Italian company**, leader in the development and manufacturing of **Automatic Dosing Systems** for powder and liquid products.

1987 Fabrizio Toschi founded Color Service based in Lugo (VI)

1996 Transfer to the current headquarters in Dueville (VI)

2007 First dosing system sold for the cosmetics industry

2009 First dosing system sold for the rubber industry

2011 First dosing system sold for the tyre industry

2021 Expansion of the Dueville headquarters with 4.500 m2

35+ YEARS OF EXPERIENCE

4 PRODUCTION FACILITIES

150+ EMPLOYEES

6 INTERNATIONAL SERVICE CENTERS

24/7 HELPDESK

500+ ATEX PROOF SYSTEMS INSTALLED

1000+ CUSTOMERS

2500 INSTALLED SYSTEMS

10000+ MATERIAL DATA


ColorService®
Designed & Manufactured in Italy

CS-ICON

ECONOMIC AND COMPACT SOLUTION IDEAL FOR MANY COMPONENTS

The inline module and design of **CS-ICON** guarantee a unique solution to dose many minor and macro components in powder form.
It boasts a **modular construction**, allowing for easy expansion and customization based on the specific needs of the customer.
This adaptability ensures that the dispenser can accommodate different requirements and future growth.
Strategic choices of material design elements according to production field guarantees **highest quality** and **performance**.

CS-ICON CYCLE PRODUCTION

1

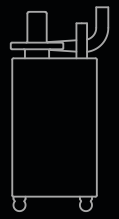
STORAGE

The raw materials are loaded into **storage hoppers** with dedicated capacity according with single daily consumption. To ensure quality and traceability the validation of loading is made by raw material code scanning. The storage can be filled from boxes, drums, sack or from Big Bag directly: by vacuum or gravity from top.
Color Service can provide modules made from various materials according to market demand or usage requirements. This flexibility in material selection could be beneficial for adapting products to different environments or applications.

2

DOSING

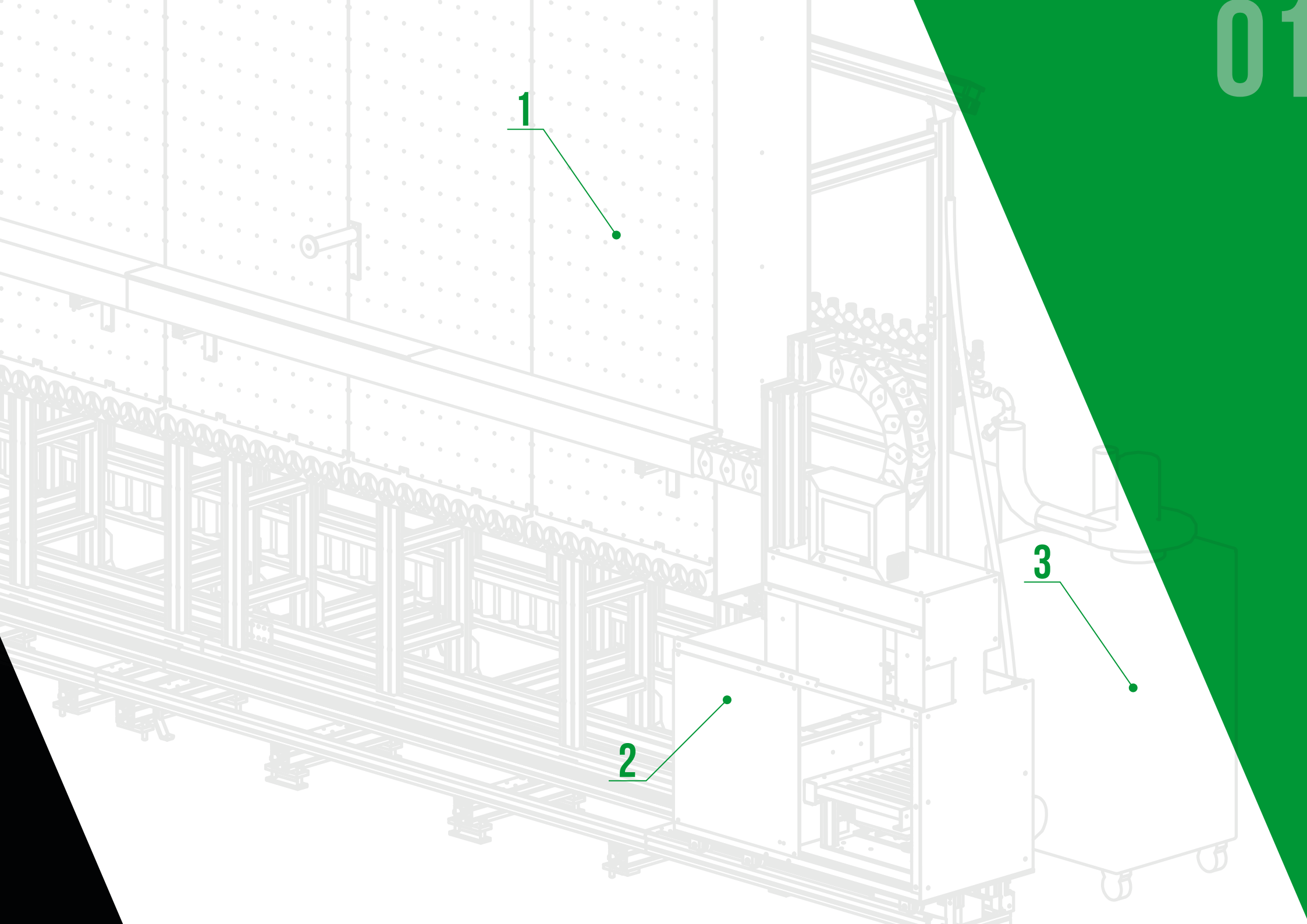
Every single hopper or Big-Bag emptying is equipped with dedicated dispensing devices. One **scale trolley** stops automatically in every hopper according to recipe to manage, following the dosing sequences with minimum dust emissions.

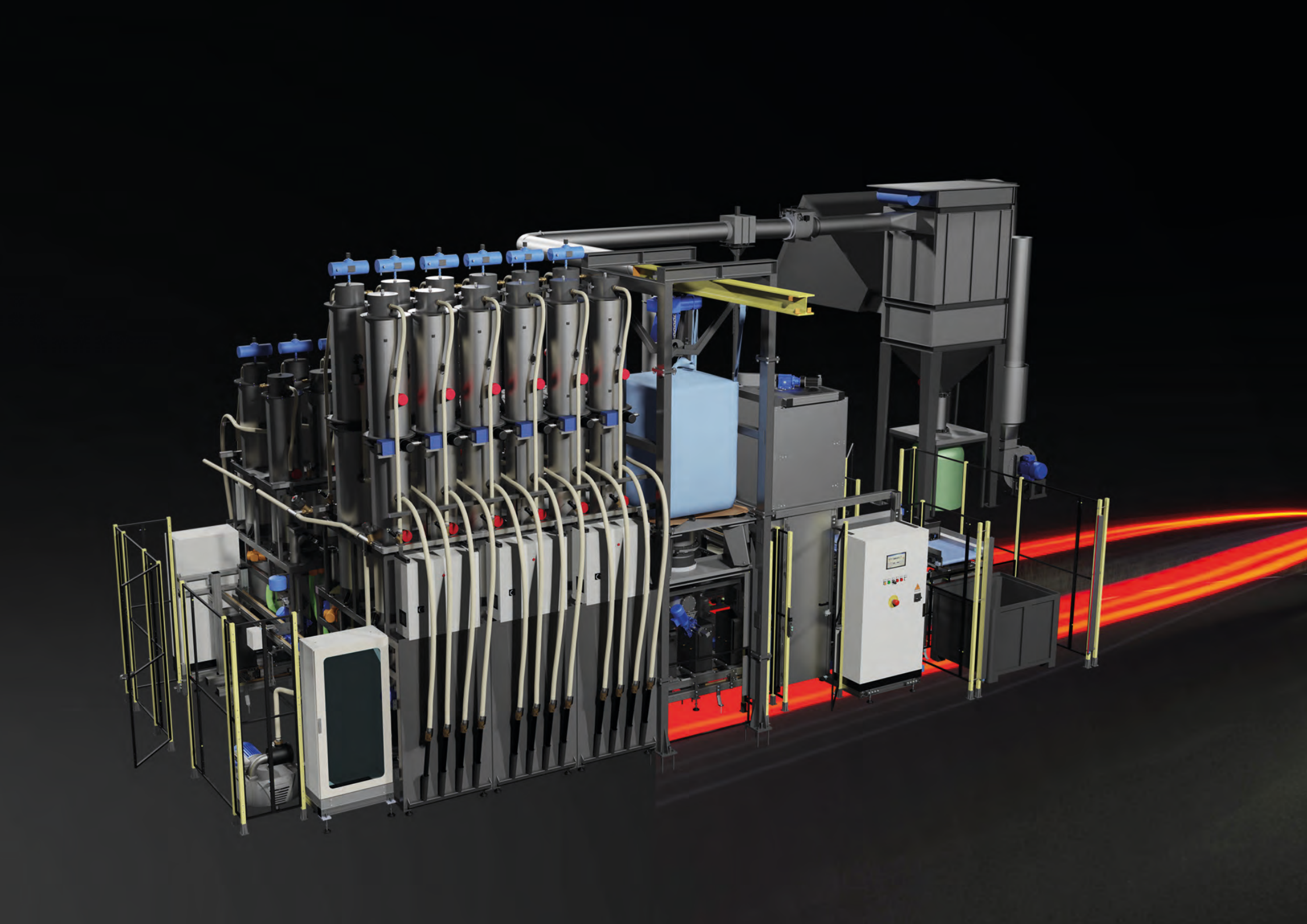


3

DUST COLLECTION

Designing **aspiration hoods** and **dedusting systems** for dosing applications requires a deep understanding of the materials being handled, the dosing process, and the specific requirements of the operation. Designing dust collectors to meet relevant regulatory standards and industry guidelines is essential for ensuring workplace safety and environmental compliance. Compliance considerations may include emissions limits, ventilation requirements, and hazardous material handling protocols.


1
2
3

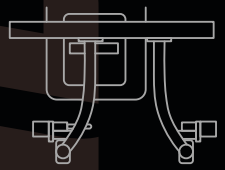


CS-TURBO

FAST AND ACCURATE MULTI DOSING AUTOMATION

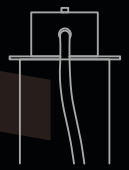
CS-TURBO machine is the ideal solution when batch formula requires handling of **multiple number of ingredients** in the shortest possible time. One scale per material allows to achieve a throughput of 120 batches per hour dosing components from few grams up to several hundred kilograms is the result of more than 35 years of experience into dosing field.
Simultaneous weighing of components is a strategy used to optimize processes where multiple components need to be weighed and combined to create a final product. By weighing these components at the same time, you can potentially **save time** and **improve** overall **process efficiency**.
Safety, ergonomics, and traceability are guaranteed thanks to a bagging unit that from a roll of plastic forms bags in a completely automatic way.

CS-TURBO CYCLE PRODUCTION



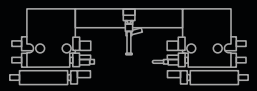
1 System prints an **identification label** in the **bag** with all information required so all raw materials can be traced back. Formed bags are inserted into buckets on a loop circuit automatically, to receive the weighment according with scheduled production.

2 The **multidosing system** is the result of dosing strategy that optimizes maximum throughput while maintaining accuracy.
By leveraging knowledge of material behavior and selecting appropriate dosing feeders, anti-clogging systems, and weighing devices tailored to the specific challenges posed by cohesive, non-free-flowing, or irregularly shaped materials, we can design a dosing installation that delivers reliable performance while maintaining accuracy and repeatability.



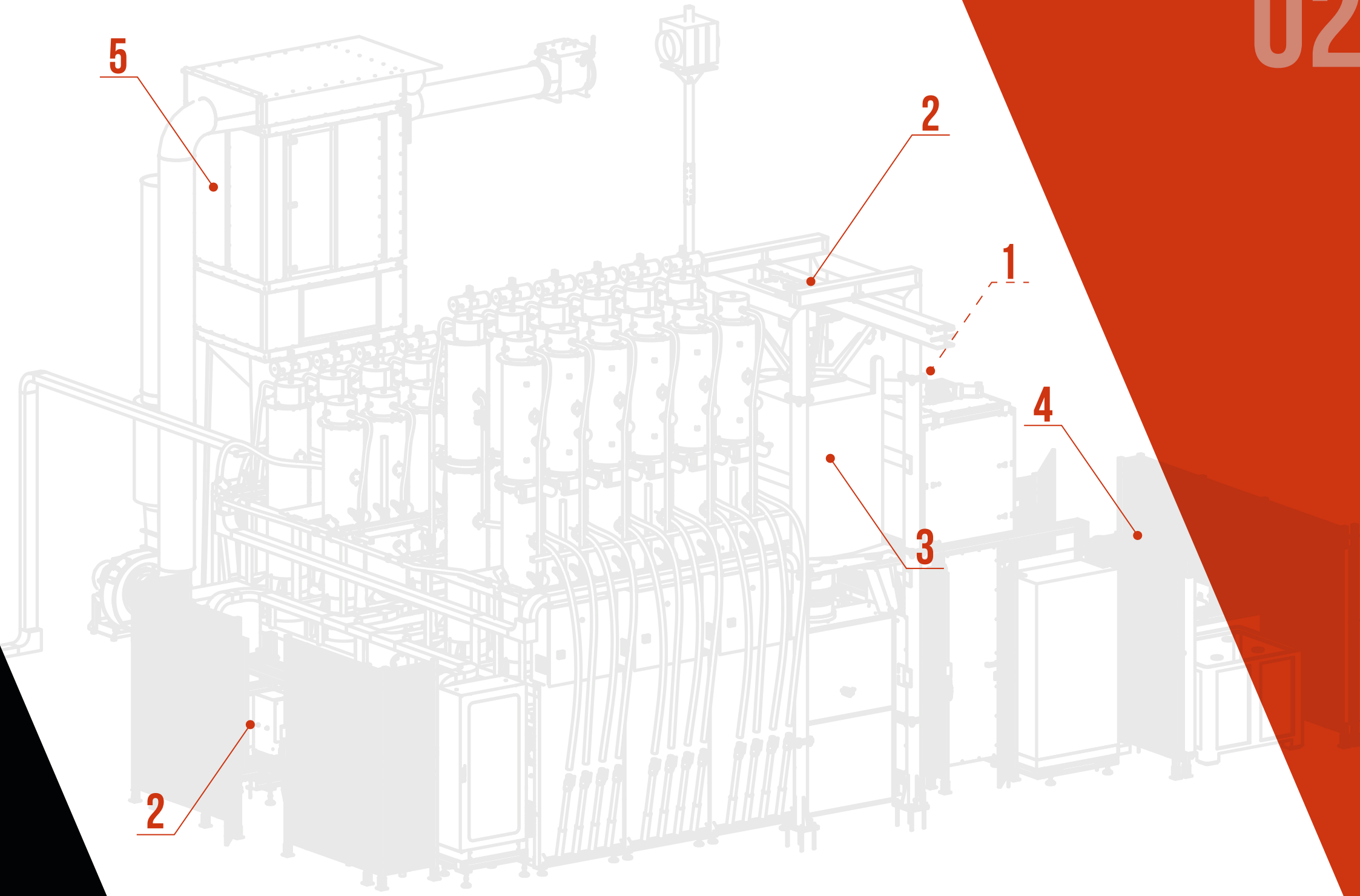
3 **Silos** and **Hoppers** are used for storing solids such as grains, powders, and granular materials. They are available in cylindrical shapes and in different sizes depending on the specific requirements of the material being stored.
Large consumption material can be stored in defined silos or directly emptying the **Big-Bags**.

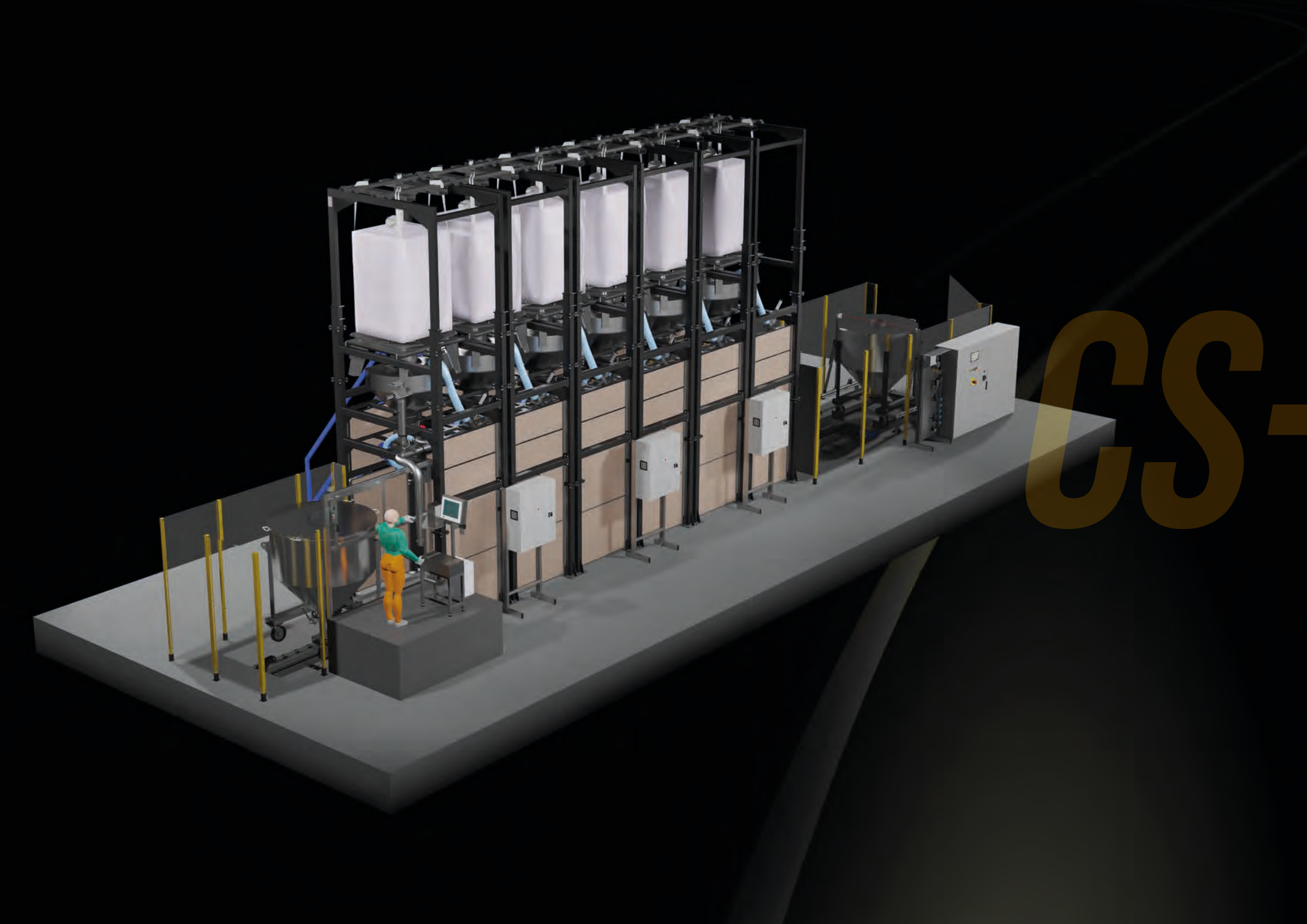
A dedicated unit **DSMS (Dynamic Silo Management System)** can be integrated to be modular and easily attached and detached. This would allow for flexible adjustments to the storage space based on the changing needs.



4 The whole cycle end with **final bag sealing**, weigh check and drop to customer container box for an intermediate parking or eventually delivered to destination.

5 Designing **aspiration hoods and dedusting systems** for dosing applications requires a deep understanding of the materials being handled, the dosing process, and the specific requirements of the operation. Designing dust collectors to meet relevant regulatory standards and industry guidelines is essential for ensuring workplace safety and environmental compliance. Compliance considerations may include emissions limits, ventilation requirements, and hazardous material handling protocols.


5
2
1
4
3
2

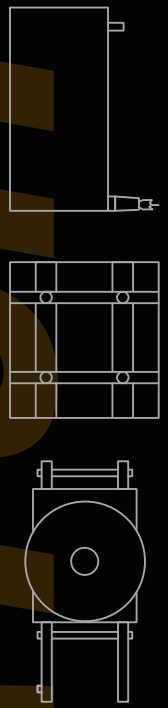

CS-

CS-BATCHTRAIN

BULK AND FAST

This dosing system unit has been created not only to be **fast** and **precise**, but also takes measures to **prevent the spreading of dust** and ensures **traceability** by reading customer containers.
CS-BATCHTRAIN machine is the most advanced solution for fully automatic recipe composition in scenarios where multiple components need to be precisely dosed within a closed system that requires strict line separation and contamination avoidance.

CS-BATCHTRAIN CYCLE PRODUCTION ADVANTEGES



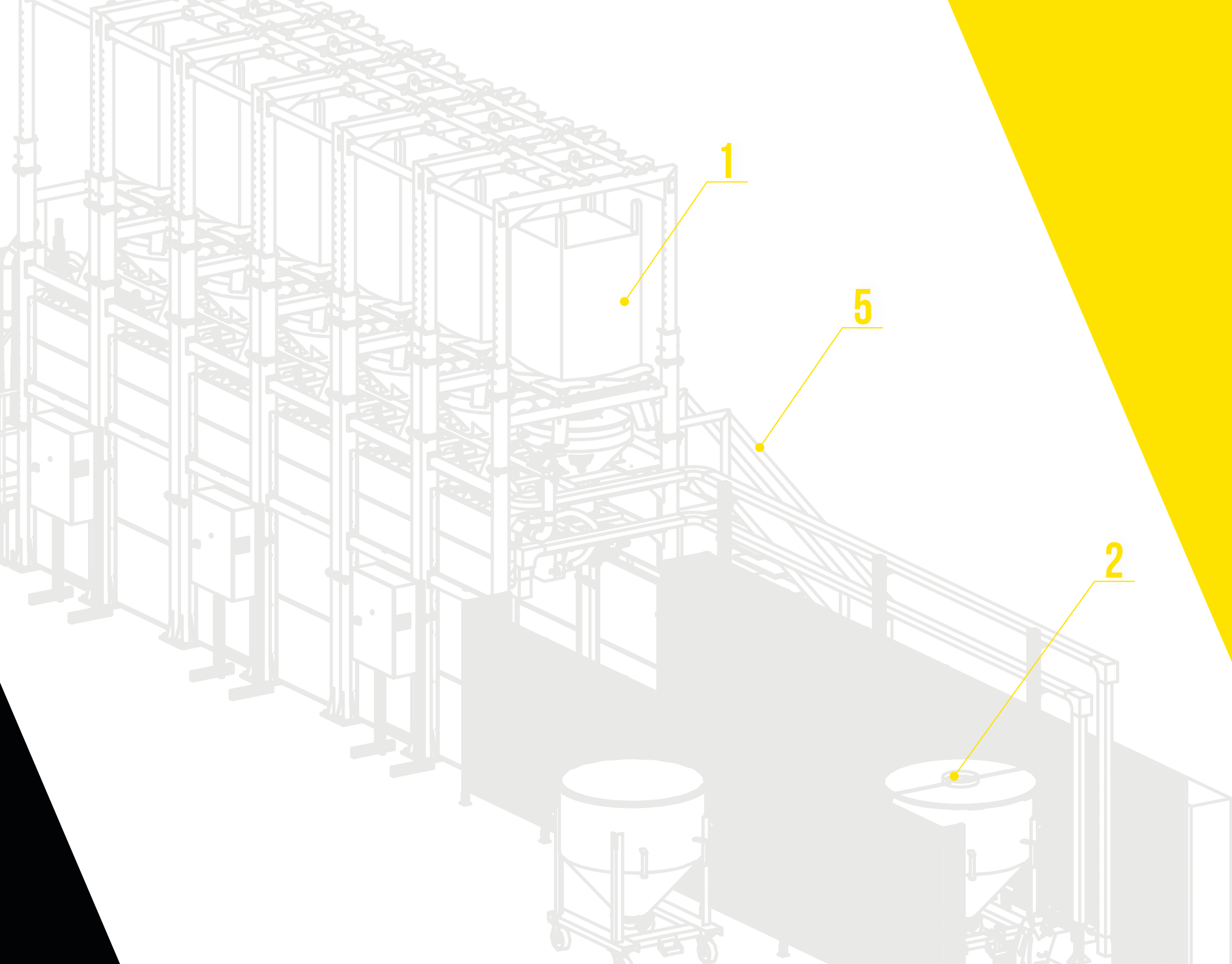
1 Raw **materials** can be **stored** in silos, supplied in **Big-Bags**, **containers**, or introduced as bulk material via feeding **hoppers**. This versatility accommodates different types of ingredients.

2 The heart of the system is its **mobile shuttles** equipped with sized weighing scale. While one dosing process is ongoing, other customer's container to their respective dosing stations. This dynamic arrangement significantly **increases production cycle** rates.

3 Special unit able to manage loading and control of different volume and type of customer container at same time guarantees the **full traceability** along the process.

4 All dosing activities and container movements are recorded in the system.
This information creates a **detailed record of each batch's dosing process**, enabling thorough track back.

5 This unit is **tailor-made** for industries and processes that demand **high precision**, **strict contamination control**, and **efficient production** cycles. The system is closed design, dedicated scales, mobile shuttles, contribute to its ability to handle complex dosing challenges and enable streamlined and unmanned production operations.


1
5
2


ColorService
ColorService

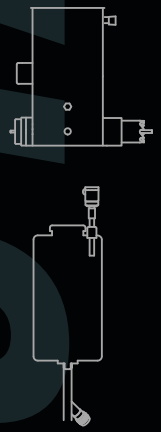
CS-INSTANT

SMALL IS BETTER

Dosing system tailored for accurately **weighing** and **dosing small or mini-ingredients** in **powder** and **liquid** form. Such systems are commonly used in various industries where precise measurements of small quantities are essential, such as in laboratories, food production, pharmaceuticals, and more.

When working with mini-ingredients, accuracy and consistency are crucial. Systems like the **CS-INSTANT** are likely equipped with specialized technologies to ensure precise dosing. These technologies include precise scale with 0.01 gr readability and mechanism for fine control over the dosing process to avoid over-pouring or under-pouring of small quantities.

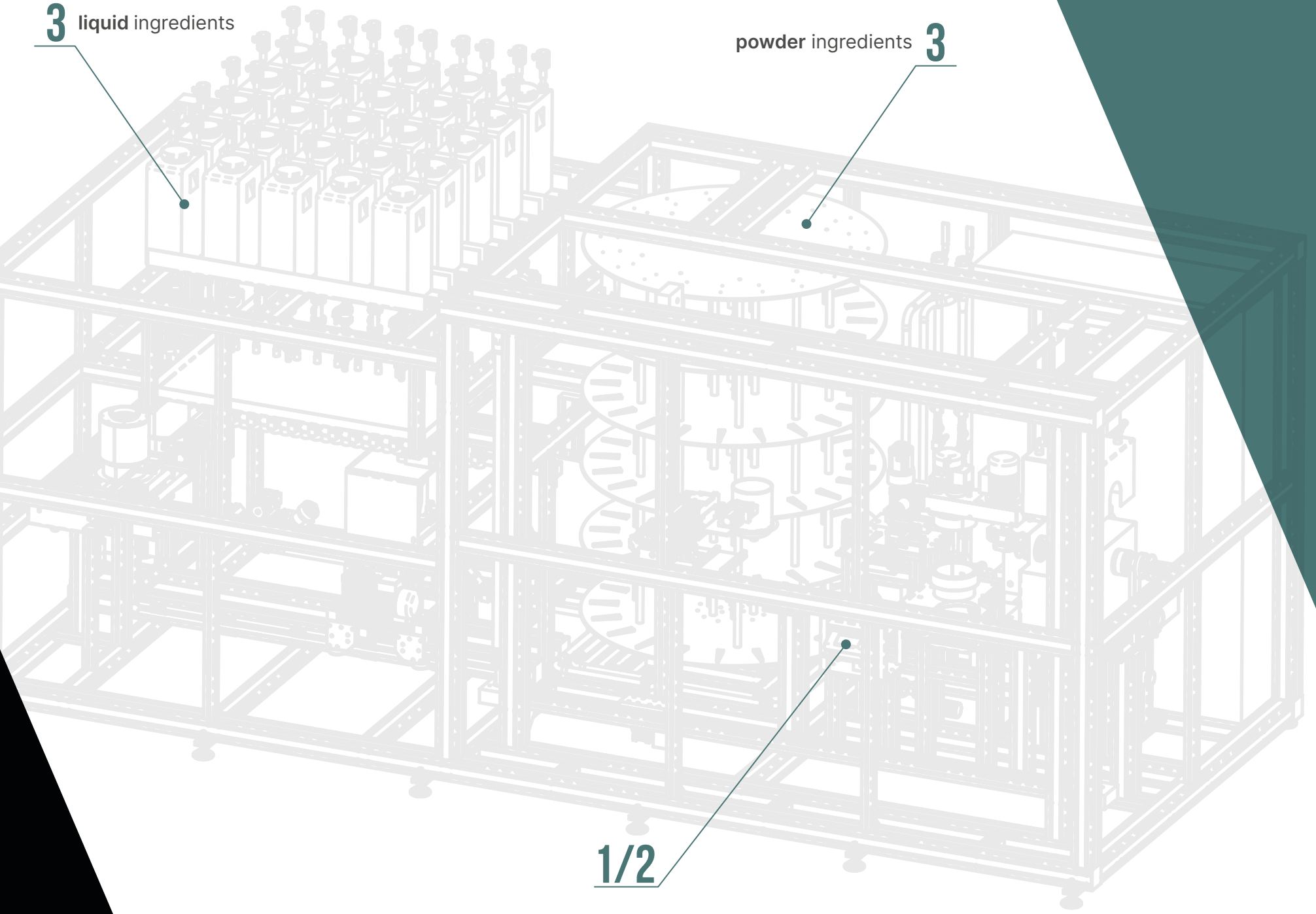
CS-INSTANT CYCLE PRODUCTION ADVANTAGES



1. For applications like food or pharmaceuticals, easy-to-clean components and surfaces are essential to maintain hygiene and particular focus on **dosing feeder** design made it possible to **prevent ingredient spillage** or **cross-contamination**.

2. System is not limited to **weighing** only but offers extended functionality for environments such as cosmetics or textiles. Furthermore, the operating cycle could be extended to include processes such as **dissolving ingredients**, **direct delivery** to destination and **automatic washing**.

3. In small production area or laboratory not only **powder** ingredients are part of recipe, but also **liquids** are easily **manage by CS-INSTANT**, take in consideration application area, viscosity and easy to maintain.


3 liquid ingredients
powder ingredients 3
1/2


ColorService
ColorService
ColorService

CS-CALIBRO

CS-CALIBRO

SMALL BATCH SOLUTION

Smartest solution for powder and liquid weighing oriented to satisfy idea on laboratory area. Overall, the small batch solution approach can be effective in various contexts, whether in manufacturing, problem-solving, software development, or even in everyday decision-making.
It emphasizes **adaptability**, **quality**, and the ability to respond **quickly** to changes, which can be valuable in today's dynamic and fast-paced environments.

CALIBRO

CS-CALIBRO SEVERAL BENEFITS

1 **Flexibility**

Working in small batches allows for more flexibility in adapting to changes and unforeseen circumstances. If something needs to be adjusted or corrected, it can be done more easily in a small batch setting.

2 **Quality Control**

With smaller quantities, it's often easier to maintain quality control. Each batch can be closely monitored and inspected for defects or issues, leading to better overall quality.

3 **Reduced Waste**

Small batch production can help reduce waste, as there's less likelihood of producing excess items that might become obsolete or unsellable.

4 **Customization**

Small batch solutions are well-suited for producing customized or niche products that may not have a high demand but are valued by a specific audience.

5 **Innovation**

Working in smaller batches can encourage innovation and experimentation. It's easier to test new ideas, make improvements, and refine processes in smaller increments.

6 **Faster Feedback**

Smaller batches allow for faster feedback loops. This is particularly important in problem-solving, as you can identify issues and adjust more quickly.

7 **Lower Initial Investment**

Small batch solutions can require less upfront investment in terms of resources and capital. This can be advantageous for startups or businesses with limited budgets.

8 **Reduced Risk**

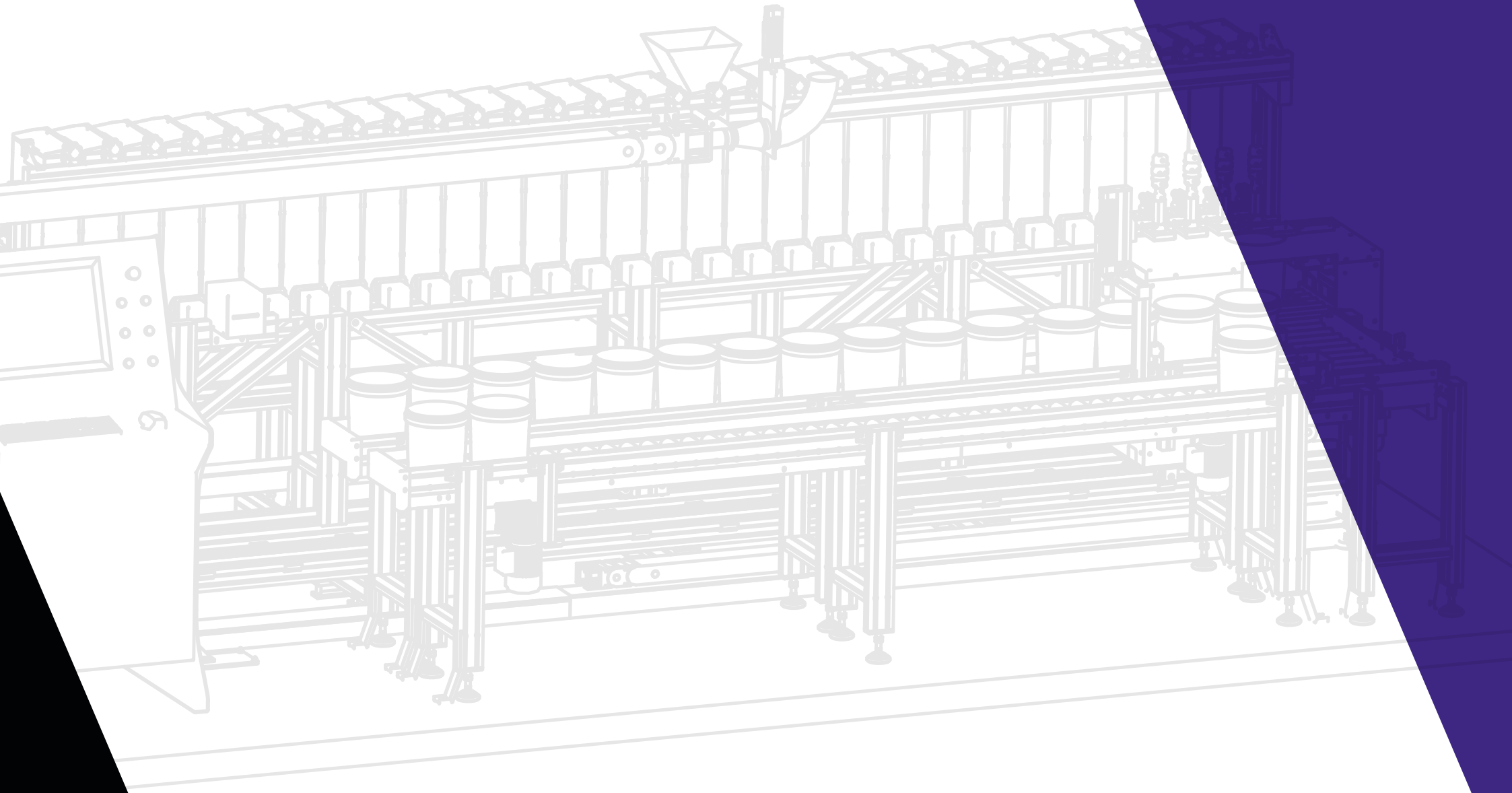
By producing or solving problems in smaller batches, you mitigate the risk of committing to a large-scale approach that might not yield the expected results.

9 **Agility**

Small batch solutions are more agile and can adapt to changing market demands or circumstances more effectively than larger, more rigid systems.

10 **Personalized Attention**

When solving problems with a small batch approach, you can give more personalized attention to each case or situation, leading to more tailored solutions.




ColorService
ColorService
Designed & Manufactured in Italy

CS-GRAVITAS

ONE DROP AHEAD

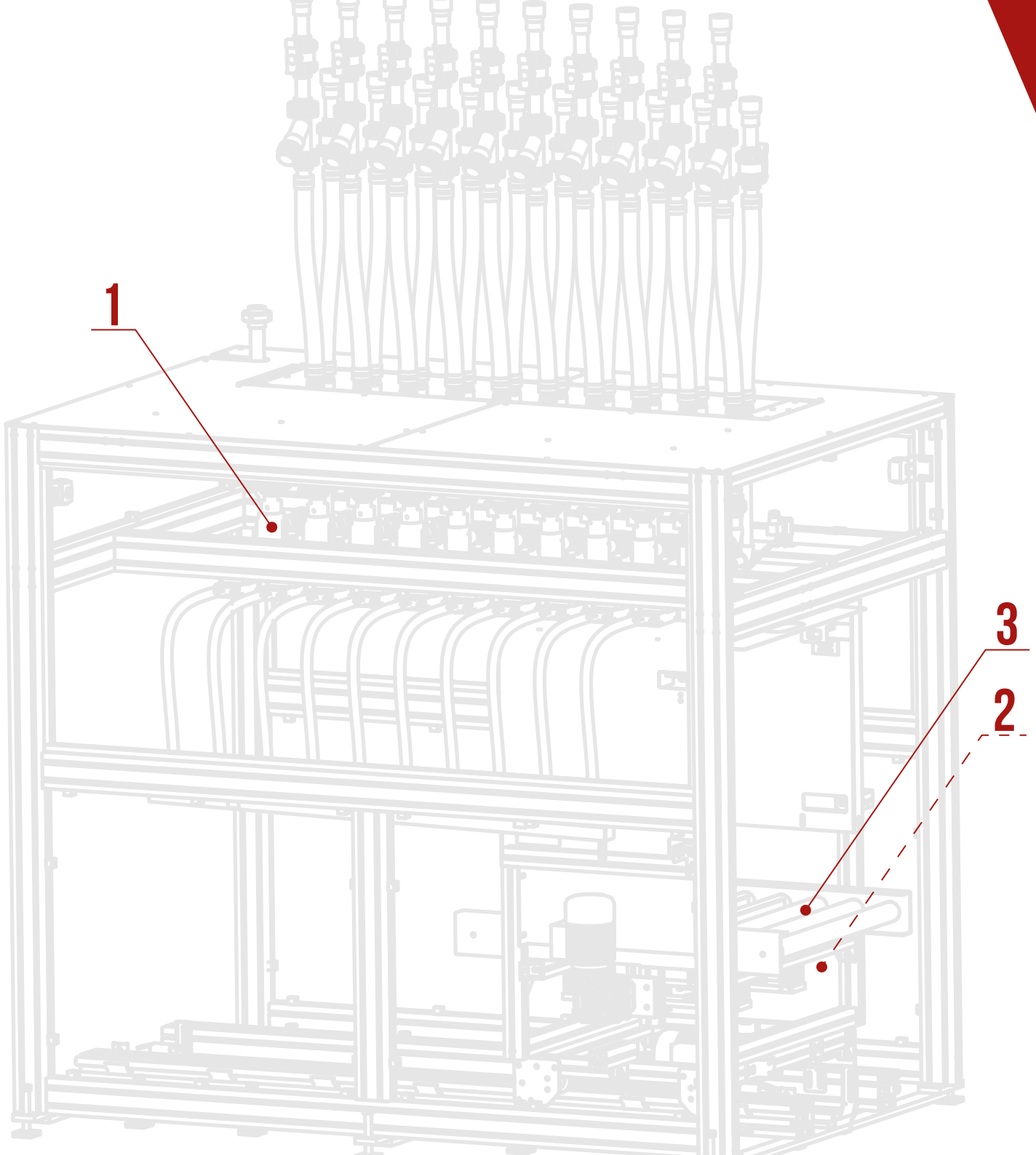
CS-GRAVITAS is the cutting-edge solution tailored to the needs of the different industries where dosing of **liquid ingredients** is required. Its emphasis on **modularity**, **easy of use**, **low maintenance**, and integration with **advanced software** make this system the most efficient liquid solution in the market.

CS-GRAVITAS CYCLE PRODUCTION

1 The exact amount of oil, chemicals, dyes, or thickening agents needs to be **accurately dispensed** for consistent results, the direct dosing feature becomes highly valuable. The ability of this unit to handle viscous liquids directly onto a single or multiple scale aligns well with the demands of these industries, ensuring **precise result**.

2 By allowing **direct dispensing** onto a **trolley scale**, the CS-GRAVITAS eliminates the need for additional equipment or intermediate steps. This streamlined approach simplifies the dosing process, **reduces the risk of contamination** or errors during transfer, and minimizes the chances of spillage. As a result, the direct dispensing feature enhances both accuracy and efficiency, crucial factors in industries where precise measurements are essentials.

3 This system probably facilitates the movement of containers, such as buckets, drums, or tanks, allowing for seamless integration with the dispensing process. This could enhance **operational efficiency** by eliminating manual handling.

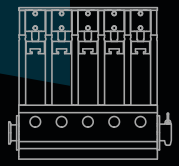

1
3
2

CS-DLV

FAST FLOW SYSTEM

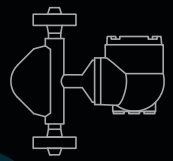
CS-DLV offers the automating and optimizing the liquid dispensing process in many processes. The system's features and benefits address various aspects from **accuracy** and **efficiency to safety** and **cost reduction**. Thanks to dedicate pump driven by frequency drive the system is designed to accurately weigh and dispense oil, chemicals or pigments ensuring that the right amounts are delivered to the required destination. This precision minimizes errors and defective orders resulting from manual measurements.

CS-DLV CYCLE PRODUCTION ADVANTAGES

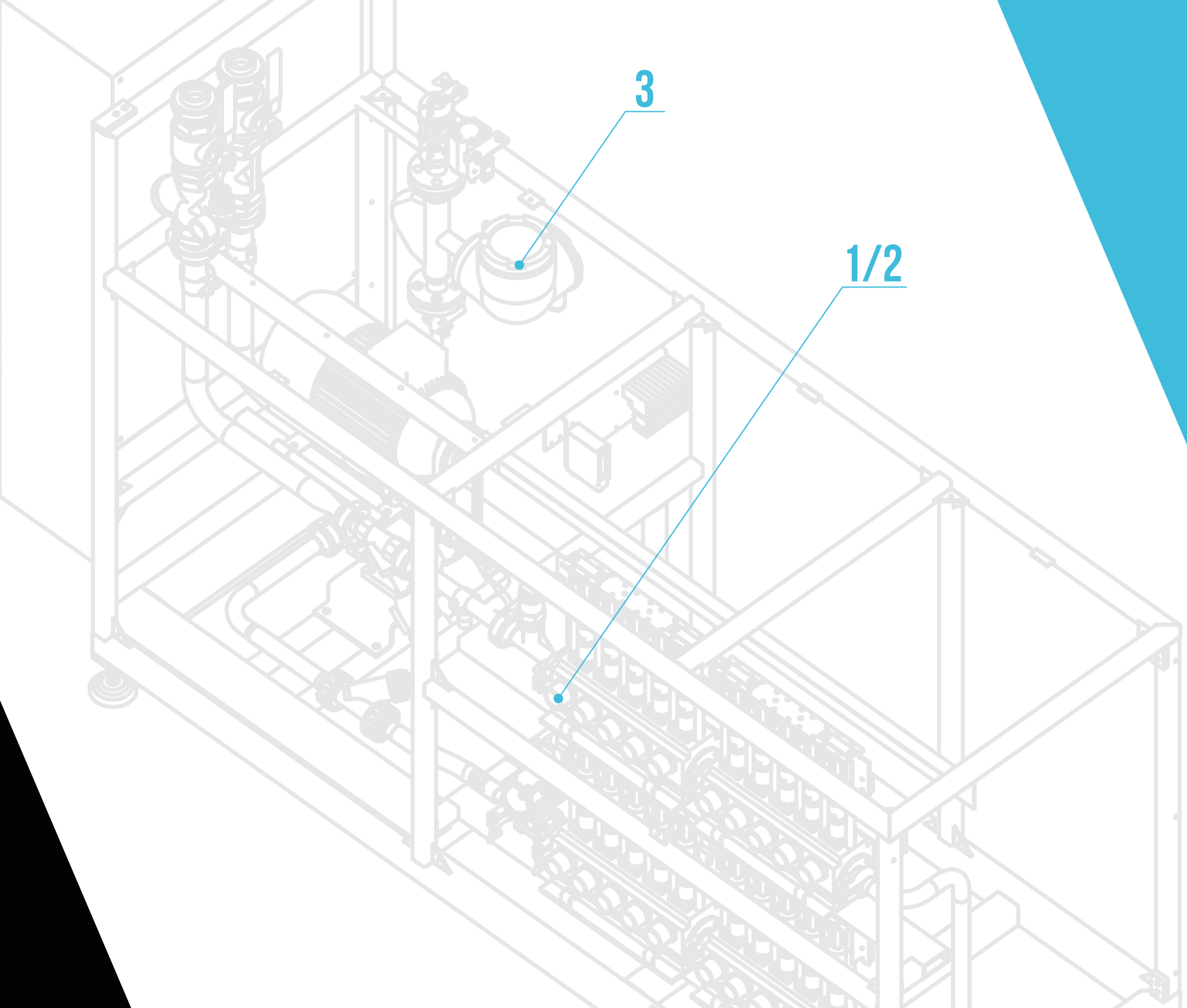


1 By minimizing human involvement in the chemical **dispensing process**, CS-DLV helps **to prevent hazardous accidents**. Chemical handling can be risky, and reducing human input reduces the potential for accidents.

2 By minimizing spills and accurately dispensing chemicals, CS-DLV contributes to **cost reduction**, estimated at 15-25%. This reduction in wastage can have a significant impact on the overall expenses of the whole process.



3 The heart of the Chemical Dispensing Module is the **Mass Coriolis flowmeter**, which measures the mass going through the flowmeter accurately, completely unaffected by issues of elder technologies of volume metering such as density variations, thermal expansion and high speed related inaccuracies. Chemicals are measured accurately via electromagnetic or mass flow meters.


3
1/2

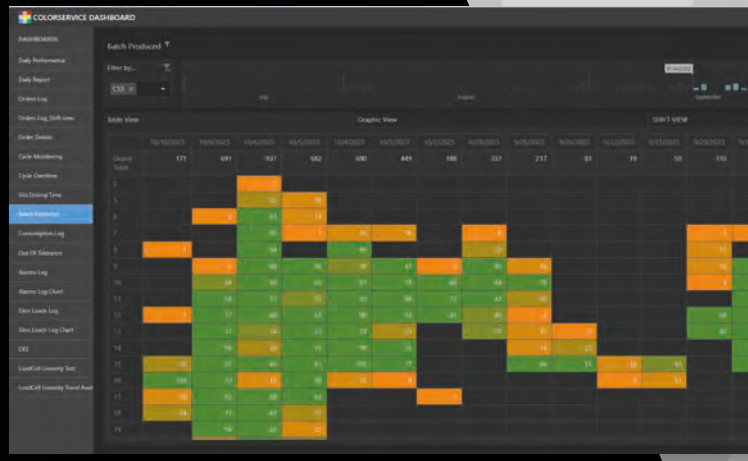
MES SOFTWARE PACKAGE

1. **Color Service MES** is a software package which allows to connect management and control program systems, to import production orders, assign them to the most suitable machines of the plant and follow the whole production line.

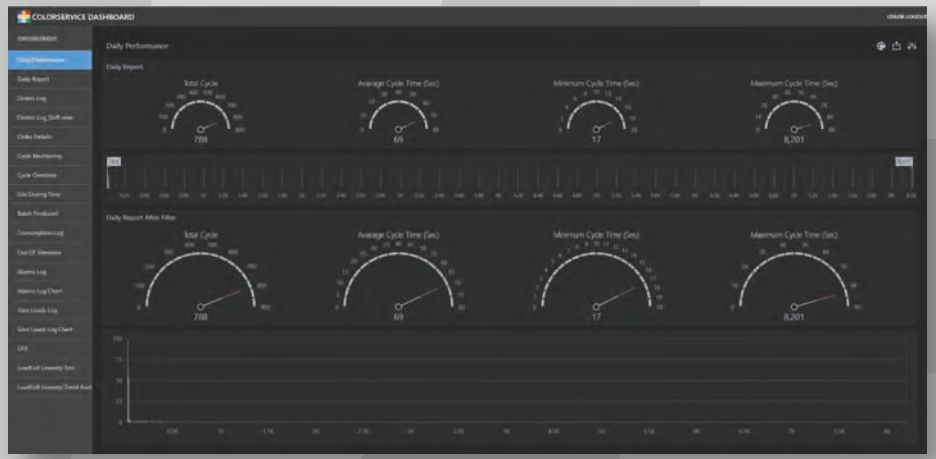
2. Designed for intelligent factory 4.0 is very **flexible** and able to be interfaced with any customer's ERP.

3. The system integrates functions of operation, monitoring and management. It provides **real time monitoring**, **operation efficiency**, **automatic report and alarm**.

4. **Virtualization**: tool to run the entire system on a dedicated **virtual netwok** without the problem of corporate domains. It guarantees continuity even in case of physical failure.



BATCH PRODUCED



DAILY PERFORMANCE

SILOS LOADS LOG CHART

Color Service srl
36031 Dueville (VI) Italy
Via Divisione Julia, 15

Tel. +39 0444 366.000
sales@colorservice.net
www.colorservice.net