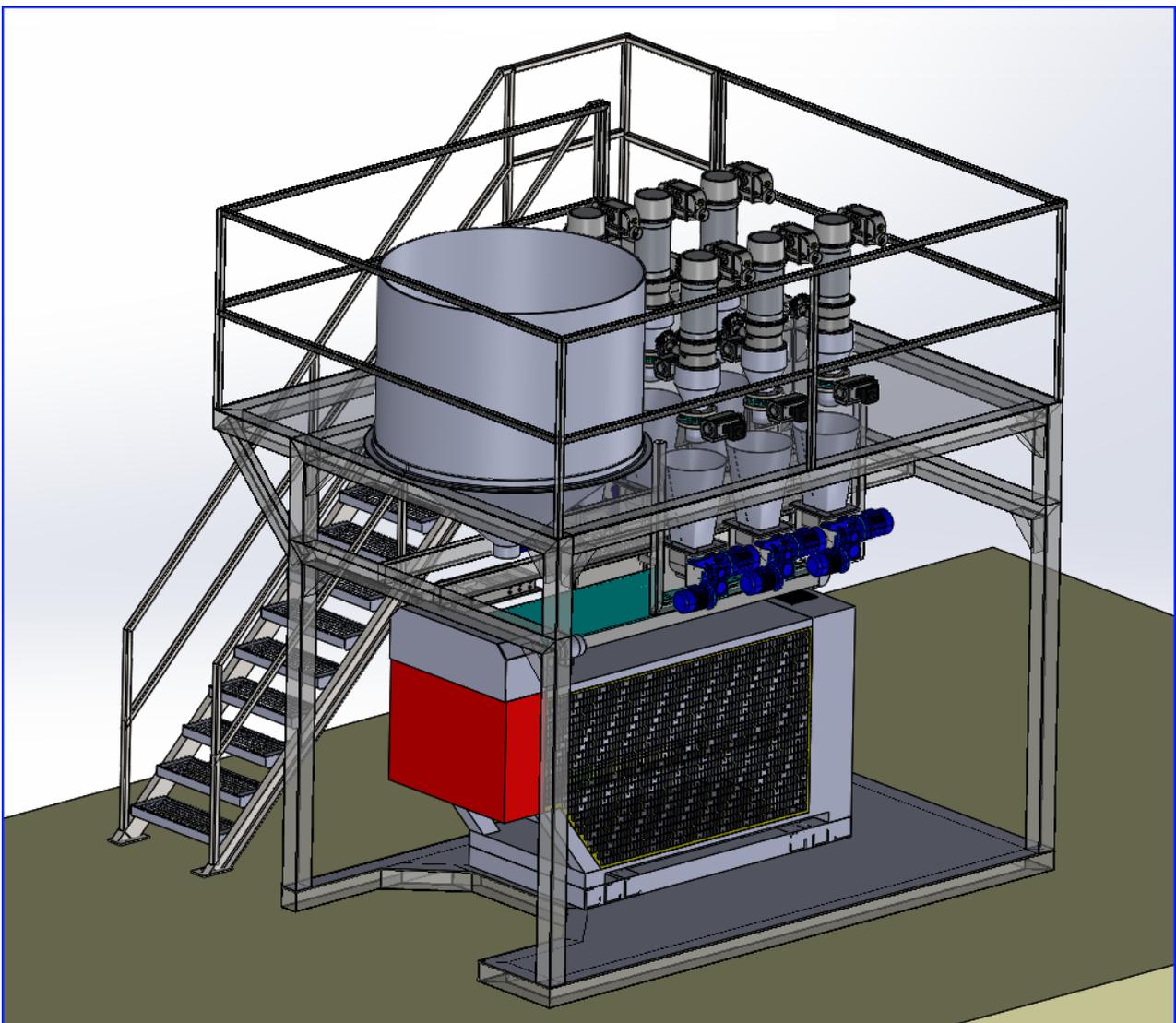




**DRY COLORING SYSTEM**  
**COMPACT**



## 1.1 TECHNICAL DESCRIPTION

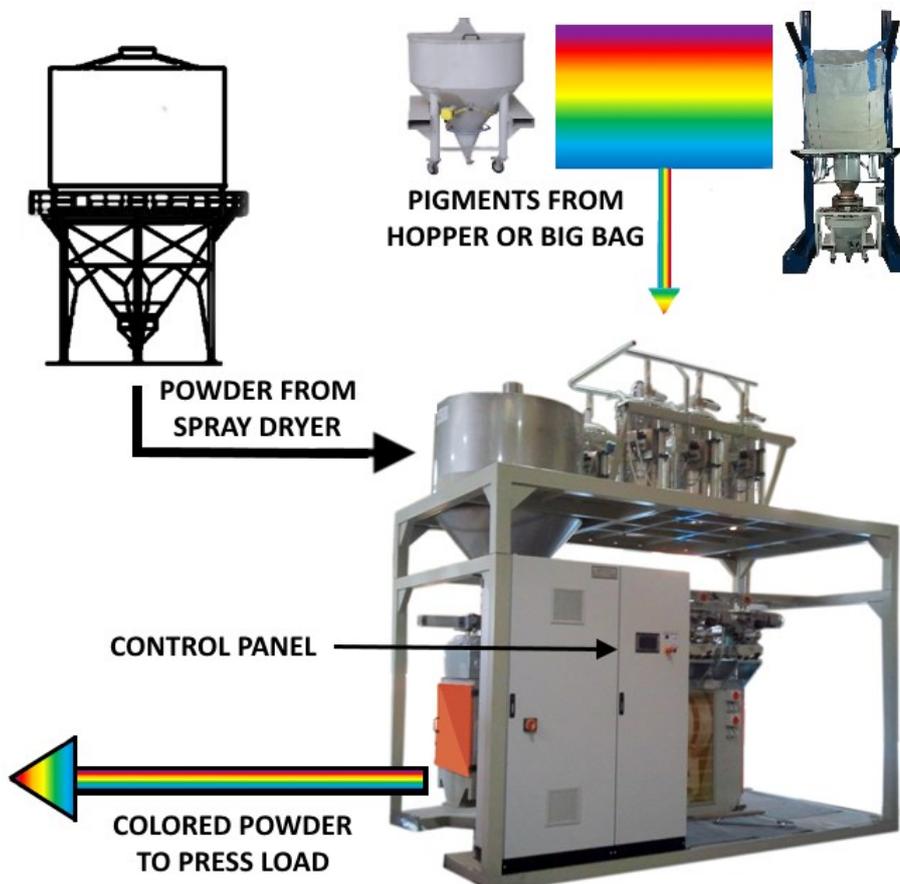
The Compact dry coloring system allows to coat granules of powder coming from the spray dryer with a layer of conveniently dosed micronized coloring pigment.

This system permits to destine the spray dryer for the production of one single base powder, avoiding frequent washings, reducing costs and consequently increasing the productivity.

The machine is completely autonomous: depending on the selected recipe, it loads itself - it doses - it mixes - it cleans itself totally - it keeps records of the production - it stops at the end of the production lot. Unlike other systems, it does not need settings or calibrations if the ranges of base powder and colors change; waste is minimized.

It is possible both to modify timings and quantity of the requested product and to control continuously the quantity of the product during the mixing process. Compact has been imagined as an inertial system free of vibrations, to guarantee accuracy and repeatability of the product.

<i>Technical data</i>	<i>Values</i>
Color dosing stations	From 1 to 6 stations
Color dosage percentage	From 0,3 % to 1,5 %
Total installed power	10 Kw
Continuous time range	14.000 Kg/h

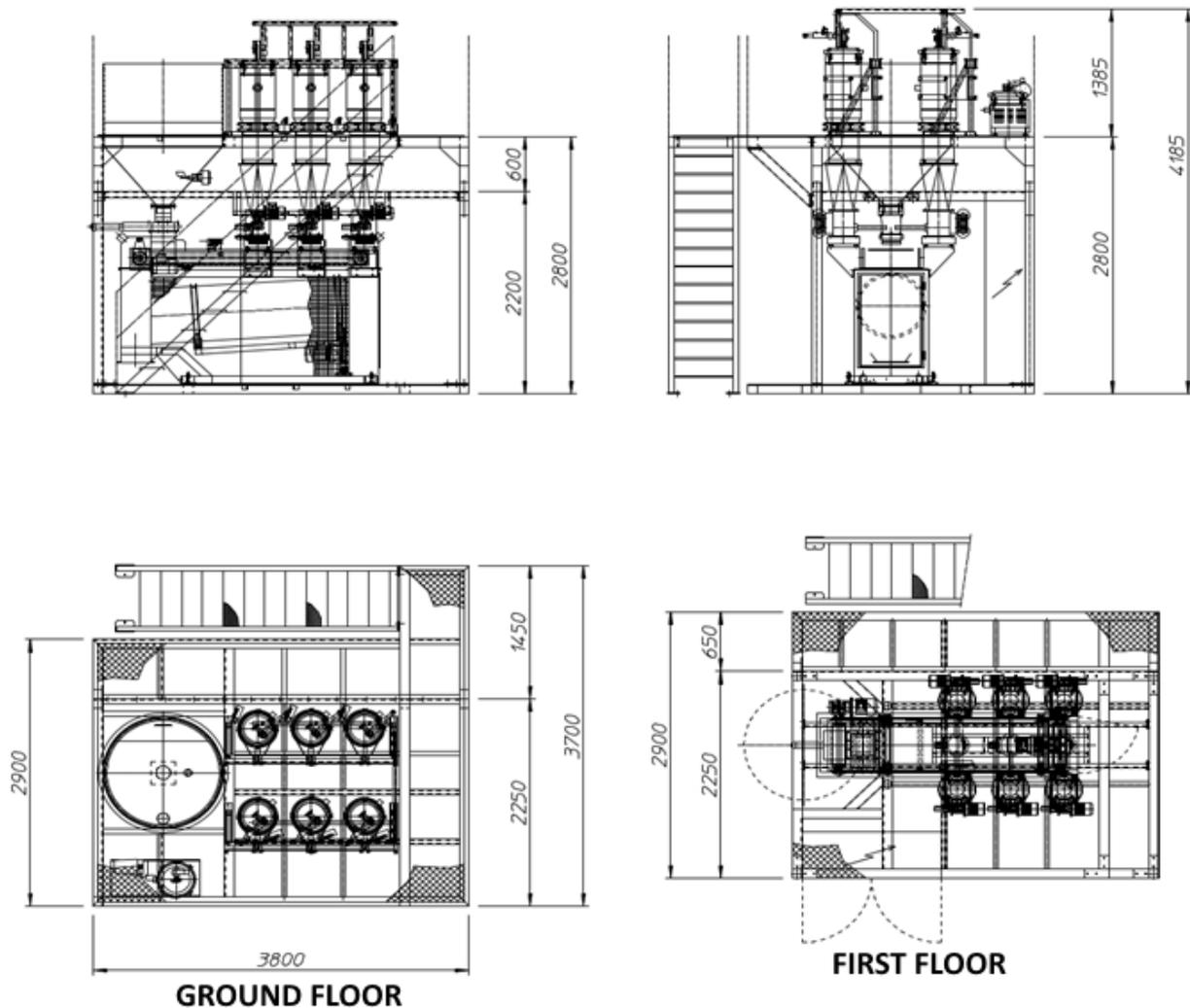


The Compact coloring system can be installed at the service of one single press or line of presses. It is a trustable, functional and compact system, which resolves space problem and permits its installation in almost each area of the plant.

We can offer a turnkey standard package equipped with all the components of the coloration system, electrical board and PC for the supervision of the process.

The components are prewired, preinstalled and tested at our factory, in order to simplify the transportation and the final installation.

Our skilled programmer will start-up the system at the customer plant.



The system is customizable: starting from an evaluation of the types of production, Compact can be equipped with a different numbers of color dosing station (from 1 to 6). It can be integrated with the existing production lines, upstream the presses, that will be directly loaded with colored powder, and it guarantees an interconnection with the existing electrical boards.

Moreover, it considerably eases the possibility of a repositioning to a different location or the passage to another typology of production. The small size facilitates installation both at heights and on the ground, taking advantages of the available spaces at best.

## 1.2 PIGMENTS SUPPLY

Upstream the coloring system we propose two solutions for pigments supply: a hopper on wheels with manual pigments loading from sacks or an integrated system composed by big bag emptying framework with four-leaf clover shaking system and underlying hopper.

Anyway, each micro-dosing color station needs one dedicated hopper to get the pigments.

*Pigments supply stations:* →



If each micro-dosing color station needs one dedicated hopper for pigments supply, each hopper can serve more than one coloring system with the same pigment: according to the necessities of the customer, we can plan and provide a tailor made pigments distribution system through the insertion of diverter valves, with consequential investments savings.

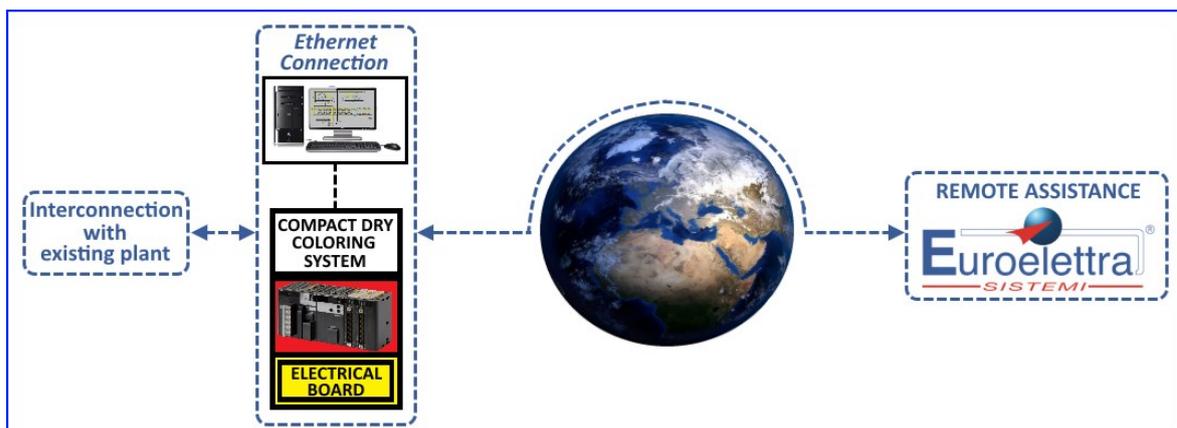
Pigments' transportation thorough aspirators covers a distance of 30 meters maximum. With bigger distances, it will be necessary to supply and install a dedicated pump.

## 1.3 ELECTRICAL BOARD

The electrical board is equipped with Touch Screen panel, which allows both to implement calibrations and eventually to program the production; for system supervision and recipes insertion, we supply a PC with industrial carpentry that can be remoted in the plant according to customer demand.

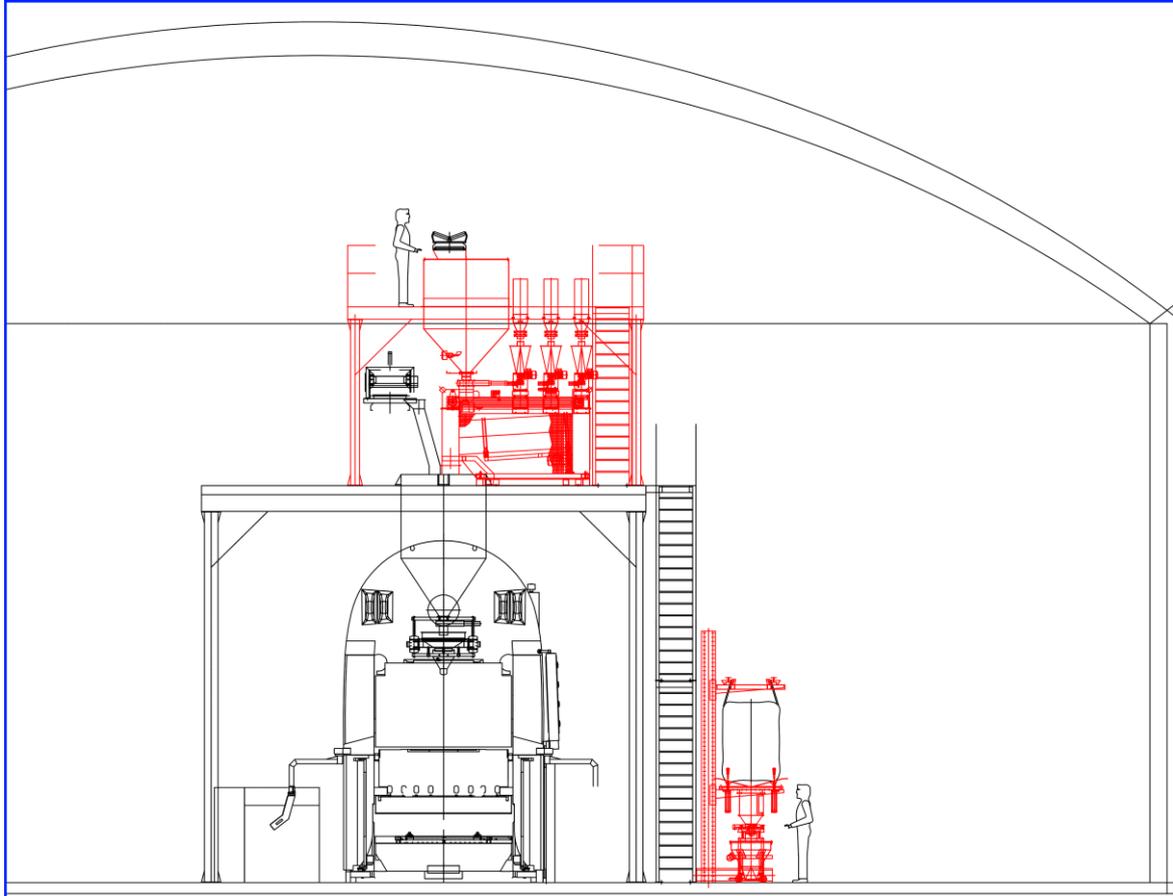
New PLC and PC software will be developed for the managing and the supervision of the process that, thanks to the Ethernet connection, can also take advantage from the remote assistance service.

*System architecture:*



#### 1.4 APPLICATION EXAMPLES:

*Above-press positioning in reduced height plant with pigments supply from big bag emptying system:*



*Ground positioning with pigments manual loading hopper:*

