



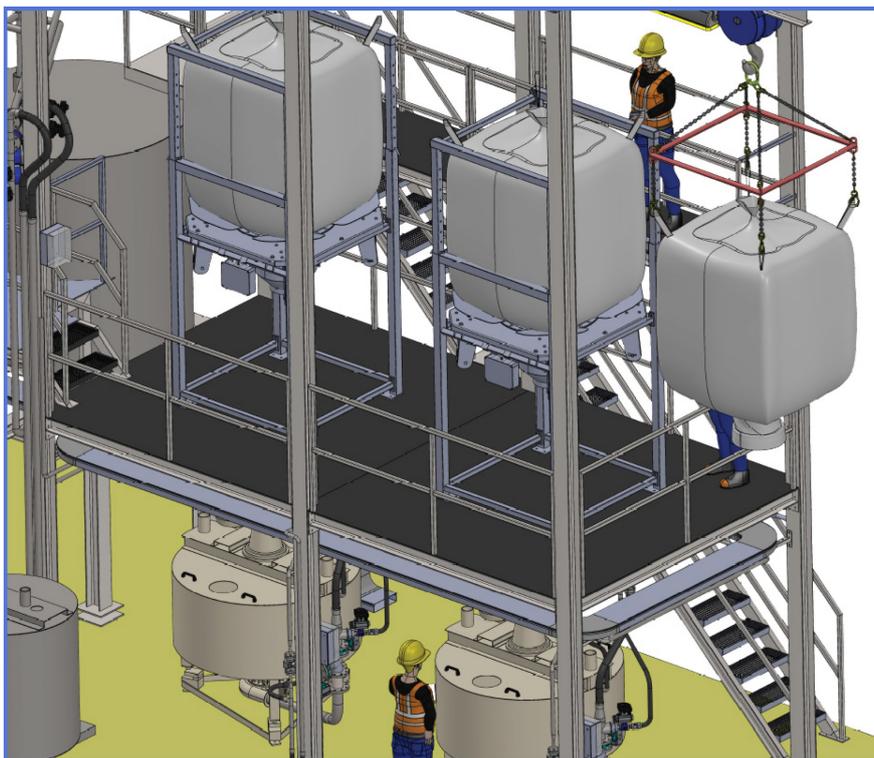
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PRESENTS:

**“JIT SYSTEM”**

**PIGMENTS DISSOLVING FOR WET COLORING  
SYSTEM**

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## 1.1 TECHNICAL DESCRIPTION

The JIT system allows to dissolve dry pigments for the preparation of colored solution destined for the slip wet coloring Skid.

An extraction system from big bag send pigments to two turbo dissolving machines dedicated to the preparation of the colors (one for light pigments and one for dark pigments).

The pigments have to possess granulometry and properties compatible with dispersion in water and they will be mixed with base slip and water (used only for the final correction of the density).

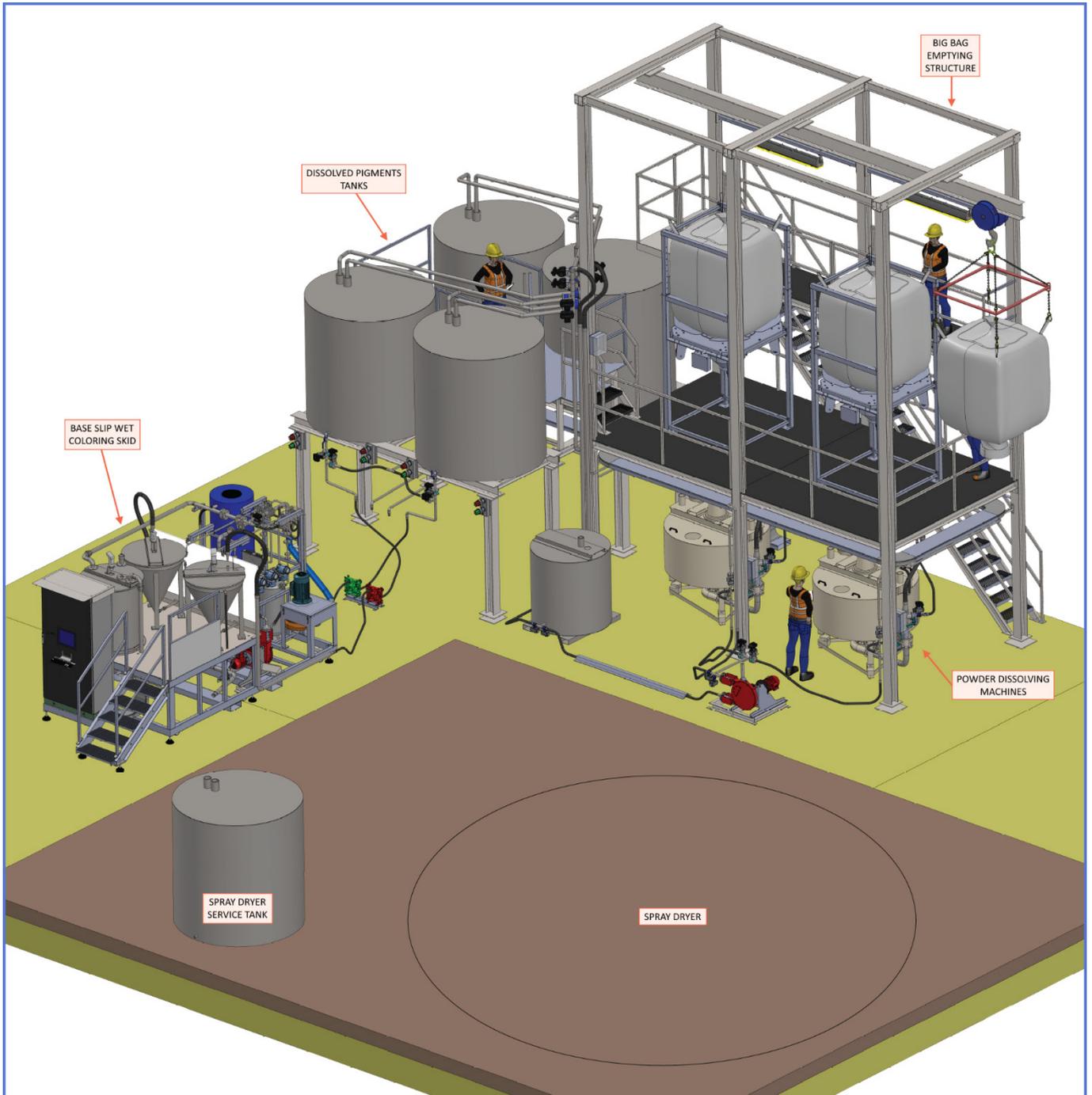
It is possible to set the exact quantity of pigments to extract, with the result of a flexible and tailor-made dosing system. In fact, a dedicated supervisor software program manages the dosing system that can measure out, according to recipes, the necessary quantity of pigment needed for the realization of the production batch in a safe, automated and reported way.

The system combines itself perfectly with the activities downstream: the colors prepared through the dissolving machines will be sent to dedicated storage tanks, then picked up from them and used to feed the slip wet coloring Skid; finally colored slip is dispatched to the spray dryer service tank.

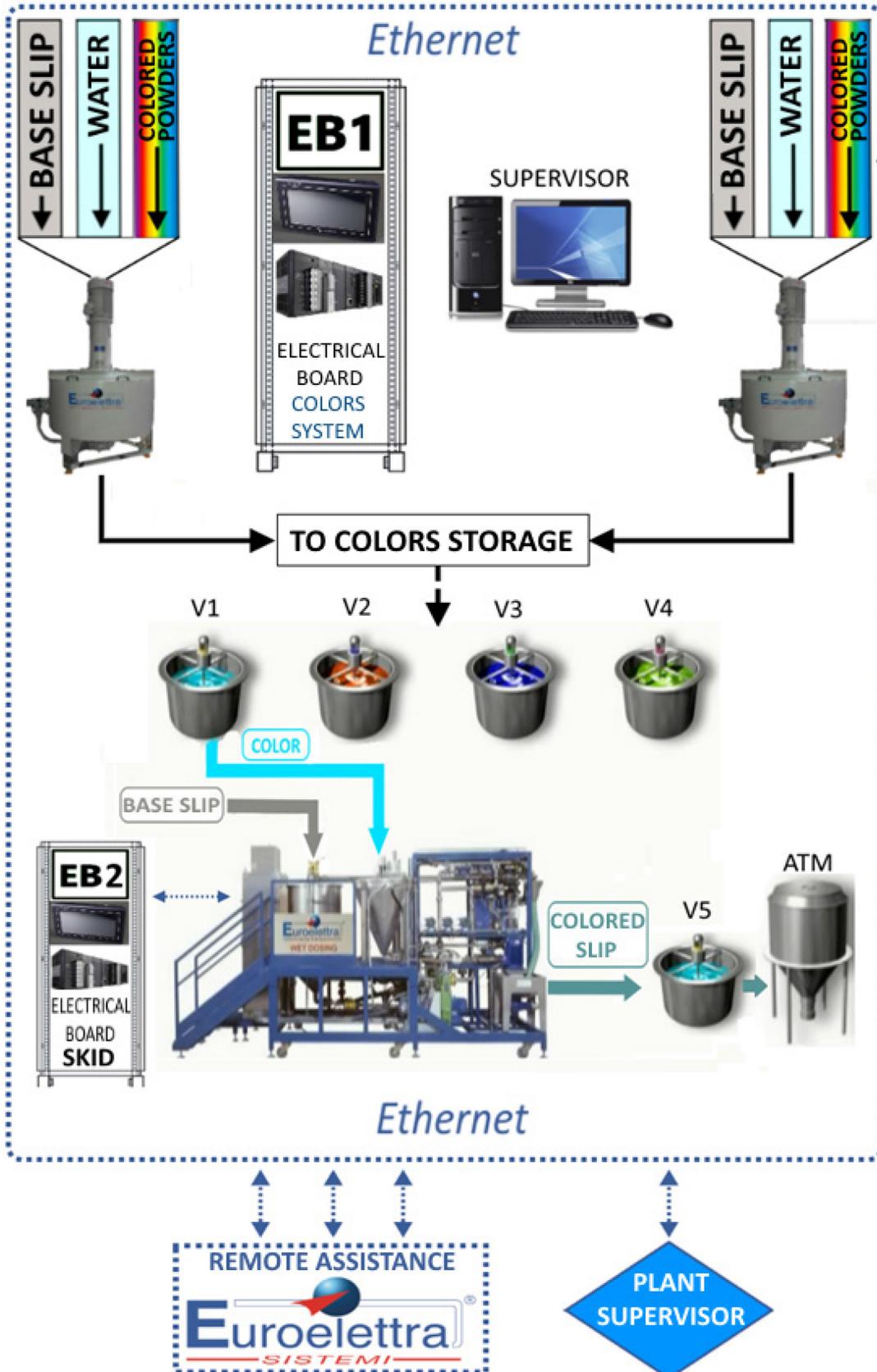
The whole system is integrated into the supervision PC software that manages and controls the production process from the dry pigment to the atomized colored powder.

	<i>Mills preparation</i>	<i>JIT system preparation</i>	<i>Resulting Savings/Advantages</i>
<b>PREPARATION TIME</b>	3 <--> 5 HOURS	1 HOUR	EXCEEDING PRODUCTION COSTS ENERGY COSTS
<b>RAW MATERIALS LOAD</b>	MANUAL SYSTEM WITH EMPLOYEES	SAFE AND MEASURED AUTOMATED SYSTEM	STAFF COSTS STAFF REQUALIFICATION PRODUCTIVE EFFICIENCY
<b>PRODUCTION STORAGE</b>	REMAINS STORAGE	MISSING	LOGISTIC COSTS ENERGY COSTS STAFF COSTS
<b>WASHING AND RECIPE CHANGE</b>	MANUAL SYSTEM WITH EMPLOYEES	MANUAL SYSTEM WITH EMPLOYEES	EXCEEDING PRODUCTION COSTS ENERGY COSTS STAFF COSTS ENVIRONMENTAL COSTS
<b>ADDITIVE USE</b>	YES	NO	MATERIALS COSTS
<b>PRODUCTIVE EFFICIENCY</b>	NOT MEASURABLE	YES	PRODUCT REPEATABILITY PRODUCT QUALITY PRODUCT TRACKABILITY

## 1.2 JIT SYSTEM AND SLIP WET COLORATION SKID 3D MODEL



### 1.3 SYSTEM GRAPHIC REPRESENTATION



### 1.4 JIT SYSTEM INSTEAD OF MILLS SYSTEM PHOTO EXAMPLE

