

smart

INDIGO

TECHNOLOGY FOR DENIM

SMART-INDIGO™

BECAUSE IT MAKES A DIFFERENCE

➤ Smart-Indigo™

Smart-Indigo™ stands for an industrially proven technology, which will make a difference by bringing a revolutionary change to the global denim dyeing industry. Combining benefits for the environment, the people and the producers of denim items.

green
technology



➤ Makes more from less

This revolutionary leuco-indigo process opens up a whole new range of opportunities.

- Electricity instead of chemicals
- High sustainability
- More ecological and economical
- Reduced health hazards
- Better colour consistency and performance
- Savings in wastewater treatment and energy
- Easy to handle and more efficient

bluesign®

SYSTEM
PARTNER

BECAUSE IT MAKES A DIFFERENCE

ELECTRICITY INSTEAD OF CHEMICALS

➤ Smart leuco-indigo production on-site

“Smart Leuco-Indigo” is produced by electrochemical process consuming considerably fewer resources than existing methods. Using only indigo pigment, caustic soda, water and electricity. In a fully automated process, the clean Leuco-Indigo is produced, metered and fed directly to the dye bath. The Smart-Indigo™ solution is the most sustainable way to dye denim.

Without

- Chemicals
- Environmental burdens
- Health hazards
- Long transportation ways

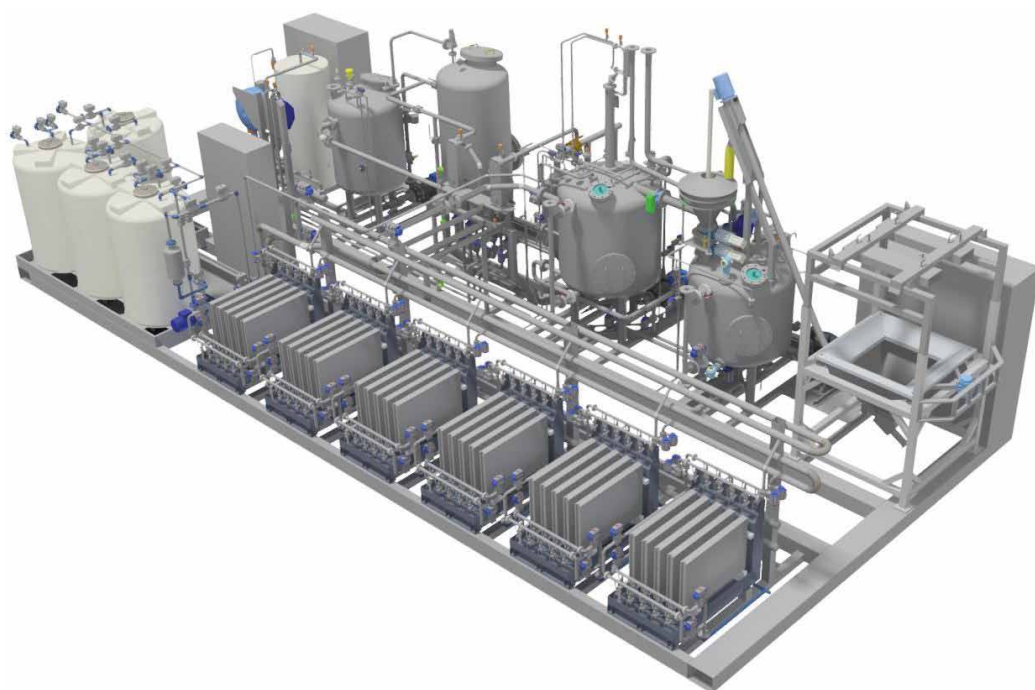
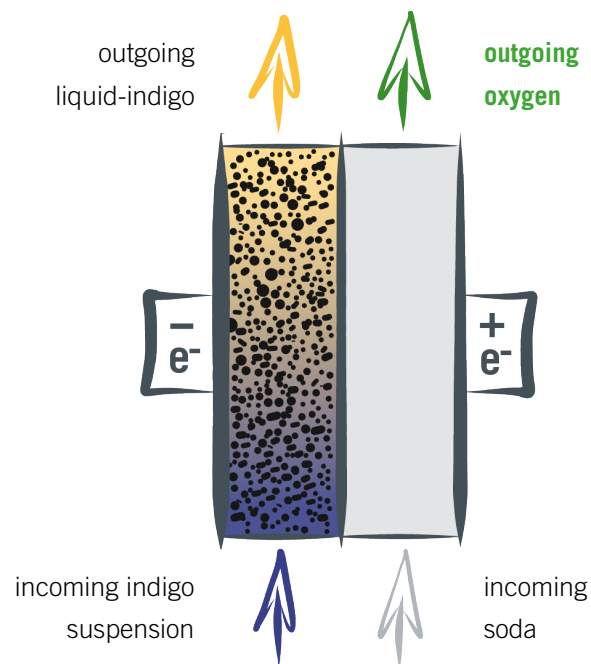
Using

- Indigo pigment
- Water
- Caustic soda
- Electricity

Discharging only

- Oxygen

➤ 3-dimensional carbon electrode technology



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INDIGO

PLANET PEOPLE PROFIT

➤ Planet – massively reduced pollution

- Less chemically contaminated wastewater
- 6 times reduced energy consumption*
- 10 times less carbon footprint*
- No transportation ways

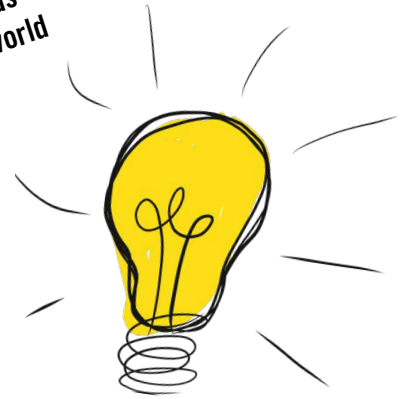
➤ People – healthier and safer work places

- No health hazards
- No toxic chemicals to handle
- No fire hazards

➤ Profit – favorable production

- Independency from pre-reduces leuco-indigo suppliers and their pricing and delivery conditions
- On-demand production on-site
- No costs for chemicals
- Massively lower costs for energy, water & wastewater treatment*
- Higher reproducibility through better color consistency*

smart ideas
move the world



➤ Machine specification

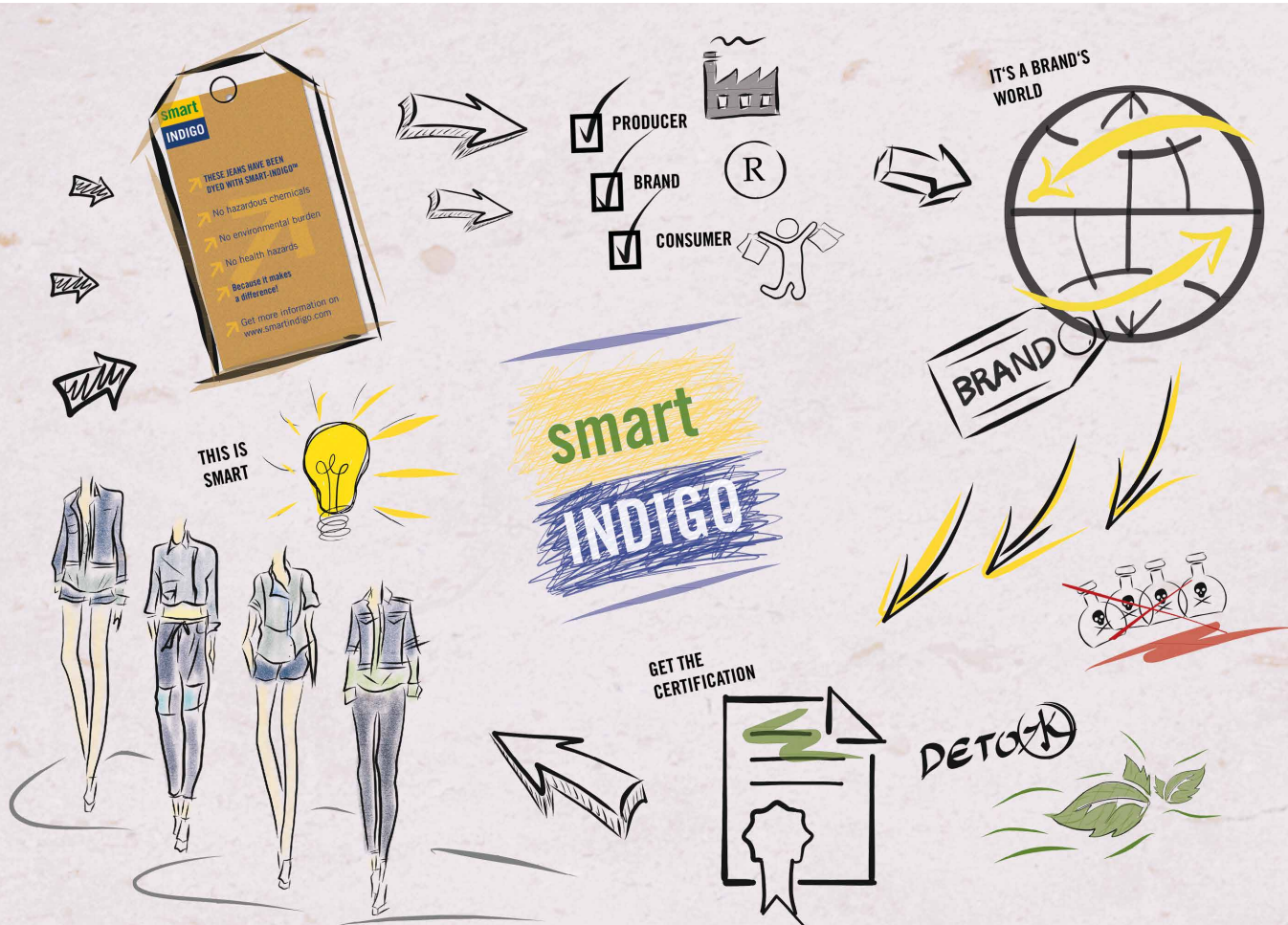
- Dimensions approx.: 12 × 5.5 × 4.0 m (l × w × h)
- Capacity: up to 1,5 ton Smart-Indigo™ (30%) per day
Transformation of approx. 120 tons of indigo powder (grain) per year
- Electricity consumption approx. 400 KWh to produce 1,3 ton Smart-Indigo™ (30%)

smart
fashion



*Measured under real production conditions by several denim producers

WHO WE ARE



➤ VANDEWIELE

Sedo Engineering is part of VANDEWIELE. VANDEWIELE, with head office at Kortrijk (Marke), is a market leader in designing and manufacturing high-tech machines and solutions for the textile industry. With 4500 employees worldwide, Vandewiele develops machines for the whole production process: from yarn production to the final finishing of textile products. Cutting-edge technology and excellent solutions for the textile industry in spinning, weaving and dyeing/finishing.

➤ Sedo Engineering SA

Being experienced specialists in the dyeing industry, we guarantee Swiss quality standards and highest reliability. Industrial enterprises utilising our groundbreaking and proven technology will be at the forefront of denim dyeing industry. On top of that, you will protect the environment and create a safer workplace. Because it makes a difference!

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