



SOVEMA GROUP

Member of the SCHULER GROUP

Sovema Group EHS Solutions for the Lead Acid Market

SCHULER GROUP IS PART OF ANDRITZ GROUP

ANDRITZ is an international technology group providing plants, systems, equipment, and services for various industries.

The listed Group is headquartered in Graz, Austria. Since its foundation 170 years ago, ANDRITZ has developed into a Group with approximately 29,700 employees, and more than 280 locations in over 40 countries worldwide.

ANDRITZ considers research and development, acquisition of companies with a complementary product portfolio, technological and cost leadership, expansion of the company's market position, and global presence to be the cornerstones in achieving this goal.



DECARBONIZATION: WE ENABLE GREEN TRANSITION

- Developing economically feasible key technologies for the green transition
- Providing full life cycle services from Project Development to Operation and Maintenance
- Examples of available solutions
 - Carbon Capture
 - Green Hydrogen
 - Renewable fuels
 - Battery Plants for e-Mobility
 - Textile Recycling



We aim at **energy efficiency** to reduce waste and environmental damage, meeting European standards and keeping the product quality high.

Two examples of products aiming at these goals:

- **Cold Lead Cubing Machine**
- **HD Chargers**



COLD LEAD CUBING MACHINE



COLD LEAD CUBING MACHINE



CYLINDER CASTING MACHINE

OXIDE
PRODUCTION

GRID
MAKING

MIXING &
PASTING

CURING

ASSEMBLY

FORMATION

FINISHING

KEY ADVANTAGES



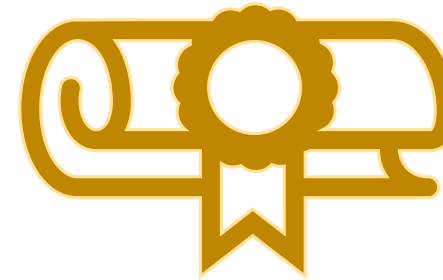
Performance	COLD LEAD CUBING	CYLINDER CASTING
Dross production	👍	👎
Energy consumption	👍	👎
Manpower	👍	👎
Oxide quality	=	=
Environmental impact	👍	👎
Ease of installation	👍	👎

SOVEMA COLD LEAD CUBING MACHINE AWARDED BY THE U.S. DEPARTMENT OF ENERGY



EnerSys Wins 2024 U.S. Department of Energy Better Project Award

April 4, 2024



READING, Pa.--(BUSINESS WIRE)--Apr. 4, 2024-- [EnerSys](#) (NYSE: ENS), the global leader in stored energy solutions for industrial applications, has been awarded the Better Project Award from the U.S. Department of Energy (DOE) Better Plants Program for implementation of the [Sovema Cold Cube](#) cutting system. This award is the [second](#) award that EnerSys has received in two years from the DOE, underscoring the company's commitment to sustainability, energy efficiency, and innovation within the manufacturing industry.



**LEAD-ACID
FORMATION**

**LI-ION
FORMATION**

**E-MOBILITY
CHARGING
SOLUTION**

Features	Benefits	Value for Customer
- 90-94 Efficiency both during charge & discharge	- Less heat load for HVAC system	- Long life - Money savings
- 99% Power Factor Efficiency both during charge & discharge	- No need for power factor correction	- Money savings
- Very new Spurious Harmonics (Total Harmonic Distortion less than 5%)	- No need for harmonic distortion correction - No harmonic resonance in the power grid	- Money Savings

Features	Benefits	Value for Customer
<ul style="list-style-type: none">- Modular design allowed by galvanic insulation among circuits and w.r.t. AC input stage	<ul style="list-style-type: none">- No electric shocks → fewer risks- Containment of electric failures at the circuit level- Fewer converters for the same number of tanks in Water Bath or Acid Circulation Systems- Hot swap → lower downtime	<ul style="list-style-type: none">- High safety standards- Money savings- Keeping productivity high
<ul style="list-style-type: none">- Fast Service System (our exclusive feature) allowed:- Autodiagnostics with safety check sensors- Internal debug system- Remote service capability	<ul style="list-style-type: none">- Fast response & intervention time- Low downtime- Easy maintenance	<ul style="list-style-type: none">- Money savings



Money
Savings



High
Productivity

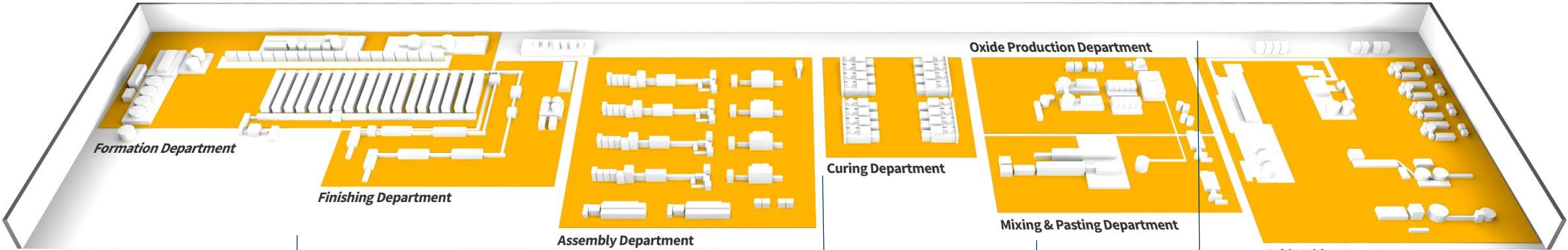


Long Life



High
Safety

ENERGY EFFICIENCY ON EVERY PROCESS STEP





Thanks.

SOVEMA GROUP

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