

# INTRODUCING TBS'S NEW ACTIVMAT® LINE OF ELECTRODE MAKING EQUIPMENT

**ELBC SEPTEMBER 2024**



 **INTRODUCES...**

**ActivMat** 

Excellence in High Performing Active Material

**...OUR NEW LINE OF ELECTRODE MAKING EQUIPMENT BASED UPON...**

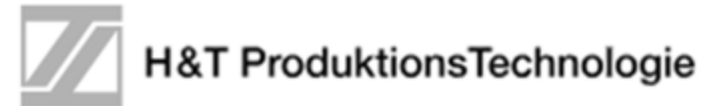
- **Innovative Technology** ensuring precise parameter and process control, reducing variability and enhancing product performance and quality.
- **Optimized** for manufacturing efficiency and output.
- **Reduced** production costs and waste without compromising battery performance or quality.
- **Sustainability** engineered to significantly reduce overall environmental footprint.
- TBS has prided itself on a legacy of innovation, from its market leading Cast-on-Strap automation to its highly efficient Expander technology. Our ActivMat line is the next step in providing the lead acid battery industry with new, disruptive innovation based upon leading-edge technology.

# / THE **ActivMat** DIFFERENCE

Excellence in High Performing Active Material

## ...CONTINUOUS TECHNOLOGICAL INNOVATION VIA...

- TBS ADVANCED ENERGY EQUIPMENT ALLIANCE



- Alliance Philosophy:

- Collaboration leads to breakthrough technologies critical for long-term energy storage performance gains.
- The Strength and power of the Alliance is created from years of developing technical and manufacturing expertise which can be Combined for true innovative disruption.

# ActivMat

Excellence in High Performing Active Material

## ELECTRODE MAKING EQUIPMENT PORTFOLIO:

- CONTINUOUS PASTE MIXER
- FLASH DRYER
- CURING CHAMBER
- SERVO SPINDLE PUNCH PRESS



■ **Uniform Paste Mixture**

- continuous mixing

■ **Precise Temperature Control**

- 6 temperature monitoring zones

■ **Effective Moisture Control**

- immediate paste application

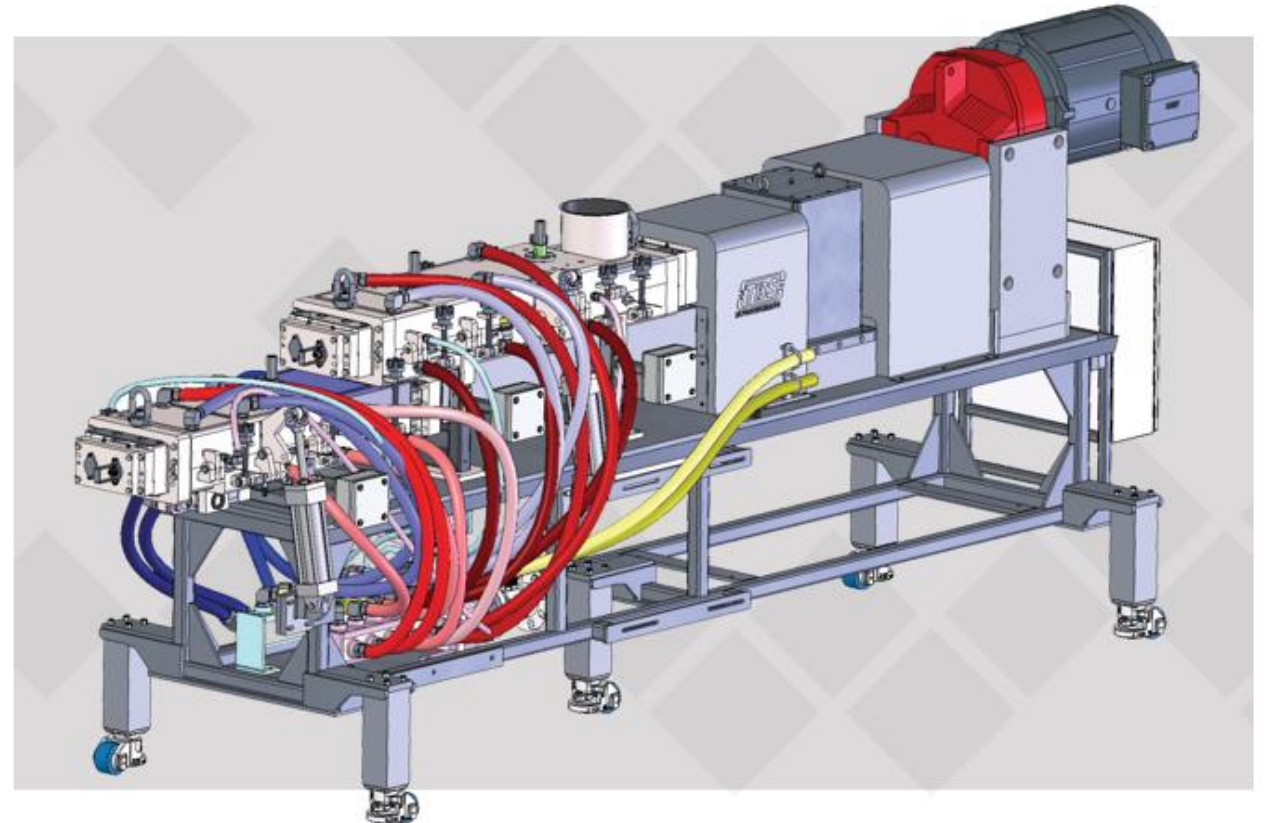
■ **Reduced Lead Emissions**

- encapsulated mixing reactor

■ **Eco-Friendly and Cost-Effective**

- automatic cleanse cycle
- sustainable energy management

## Unmatched Mixing Precision and Efficiency



# FLASH DRYER

/ WITH PINCO FIREFLY TECHNOLOGY

## ■ Precision Moisture Control

- only removes surface moisture

## ■ Customizable Processing

- 6 adjustable temperature + airflow zones

## ■ Energy Efficiency

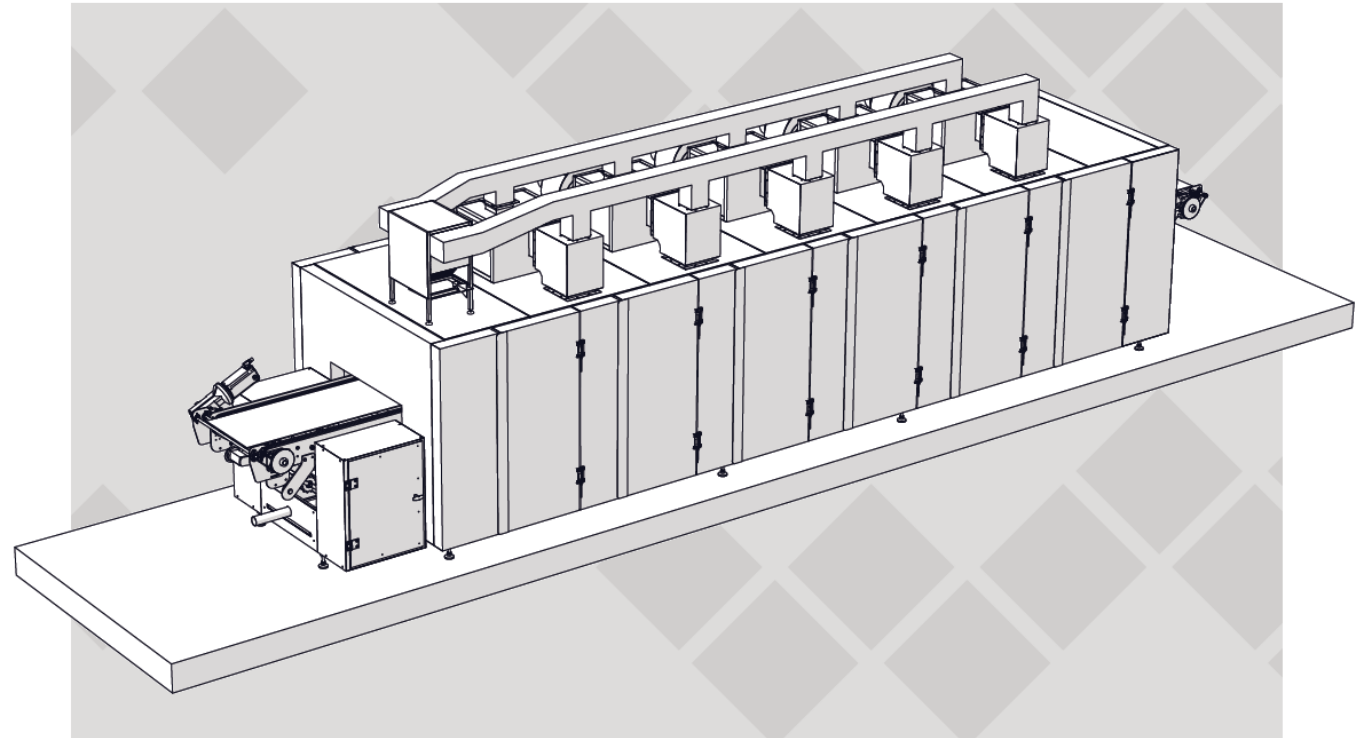
- reduced energy use

## ■ Easy Maintenance

- modular design with easy access

## ■ Eco-Friendly

- IR heating, no gas emissions

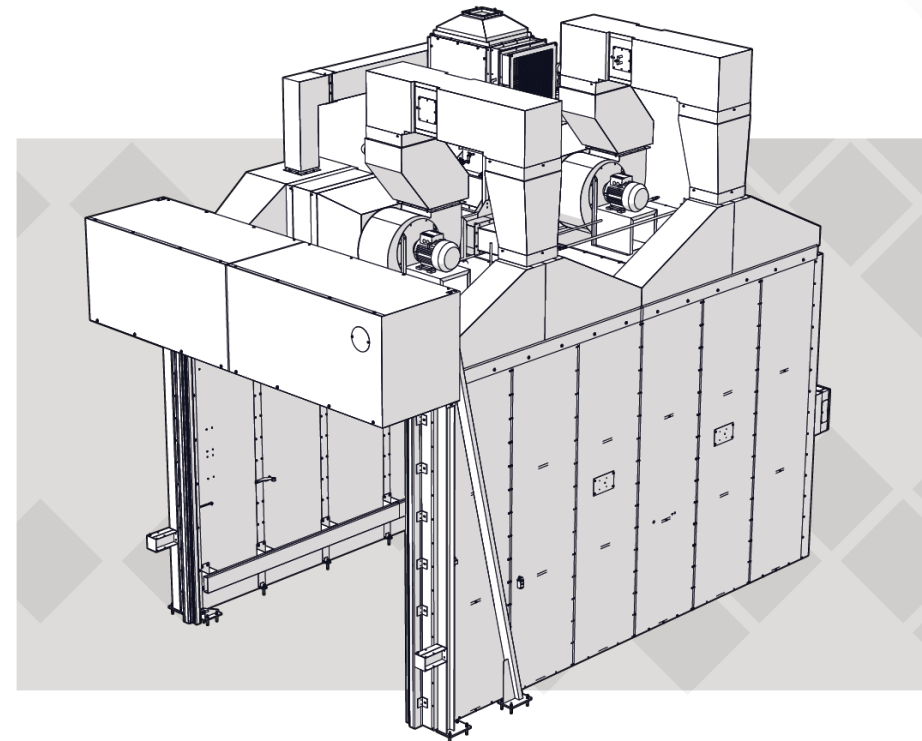


**Ultimate Moisture Control**

## **CURING CHAMBERS**

**/ WITH PINCO ECOCURING TECHNOLOGY**

- **Enhanced Precision and Accuracy**
  - exact temp and humidity control in every stack position
- **Faster Curing**
  - improved heat and moisture removal
- **Energy Efficiency**
  - reduced power consumption
- **Eco-Friendly Operation**
  - eliminates burner and gas emissions
- **Flexible and Durable Design**
  - modular, stainless steel construction



**Enhanced Eco Curing System**

## SERVO SPINDLE PUNCH PRESS

/ WITH H&T SSP TECHNOLOGY

- **Accurate Grid Geometry**
  - servomotor controlled positioning
- **Cleaner Grids**
  - no oil or emulsion required
- **Versatile Processing**
  - pure lead to lead alloys
- **Energy Efficiency**
  - reduced energy consumption
- **Quick and Durable**
  - 30 minute tool changes and longer lasting tooling due to reduced wear

**Precision Punching  
and Efficiency**

