

PRODUCTS INTRODUCTION

# Battery Manufacturing & Packaging Solutions

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DATE

06-02-2026

# Wire Bonding Consumables and Precision Tooling for Battery and Power Electronics Manufacturing

**BALGANESH  
ENTERPRISES**

## Battery Pack



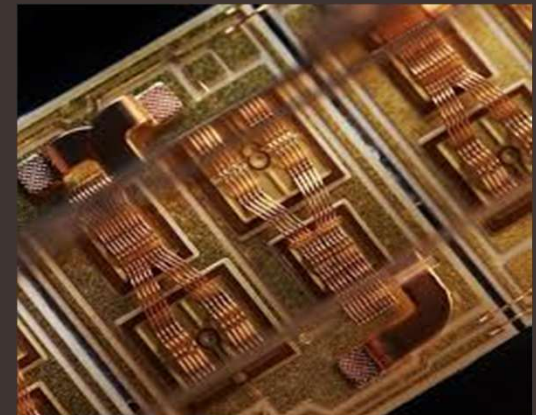
Cell Interconnection • Voltage Sensing  
• Fuse Structures

## BMS



MCU • AFE • Driver IC • Isolators Converter

## Power Module



EV Inverter • OBC • DC/DC Converter

## Application 1: Battery Cell / Module / Pack Interconnection

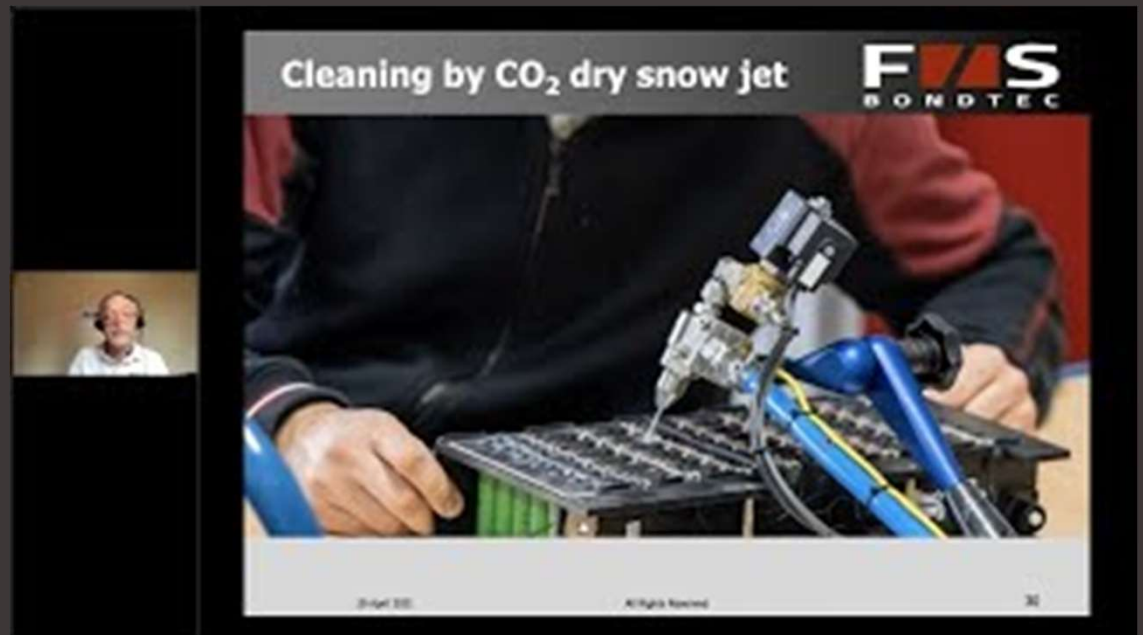
### Industry Overview

Wire bonding is increasingly used in cylindrical battery module manufacturing for:

- Cell interconnection
- Voltage sensing
- Fuse wire structures
- Flexible module architectures

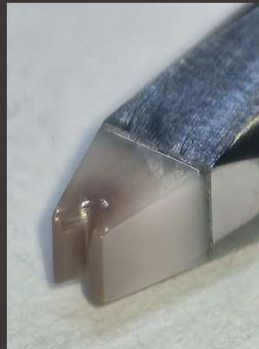
Compared with welding technologies, **wire bonding** offers high flexibility, low thermal impact and easy automation.

### Battery Module Wire Bonding (F&S Bondtec)



# Our Support

- Heavy Wire/Ribbon Wedge Tools
- Heavy Copper Wire/Ribbon Tools
- Aluminum Wire Bonding Tools
- Cutter Blades
- Wire Guides
- Bonding Wires/Ribbons
- Related Production Consumables



WG-360A-XX	WG-360B-XX	WG-7200A-XX	WG-7200B-XX
WG-ASM512-XX	WG-FNK-XX	WG-RIBBON-XXXX	WG-URB-XX

## Application 2: BMS Electronics Manufacturing

### Battery Management System Overview

#### Industry Overview

Battery Management Systems rely on semiconductor devices such as:

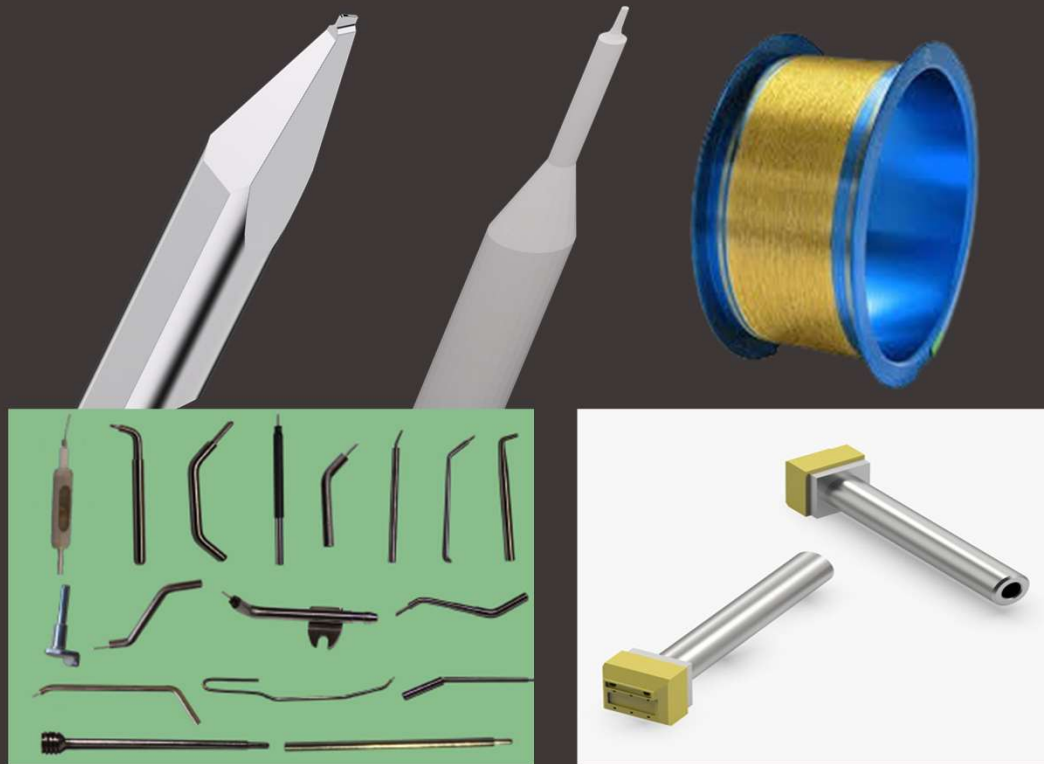
- MCU
- AFE
- Driver IC
- Isolators

These devices are commonly assembled using ***fine wire and ball bonding*** technologies.



## Our Support

- Ball Bonding Capillaries
- Small Au/Al Wire Wedge Tools
- Au / Al / Cu Wire
- EFO Components
- Pick-up Tools
- Ejector Pins



## Application 3 : IGBT / SiC Power Module Manufacturing

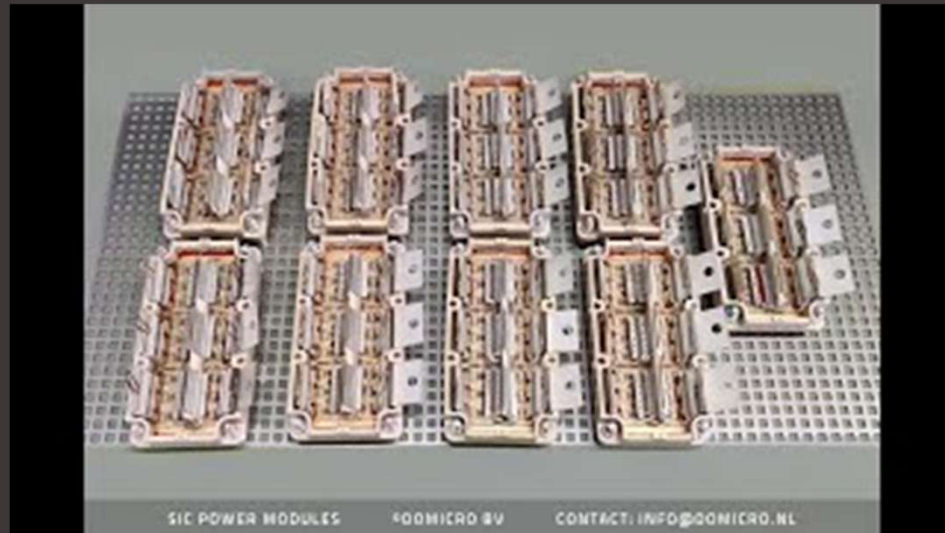
### SiC-based Power Module Micro Assembly

#### Industry Overview

Power modules are key components in:

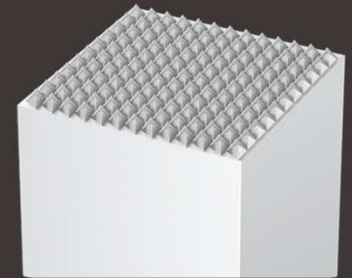
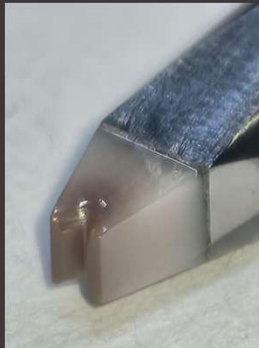
- EV Inverters
- On-board Chargers (OBC)
- DC/DC Converters
- Industrial Drives

**Heavy wire bonding** remains one of the most widely used interconnection technologies.



## Our Support

- Heavy Aluminum Wire Tools
- Heavy Copper Wire Tools
- Ribbon Bonding Tools
- Cutter Blades
- Wire Guides
- Bonding Wires
- Custom Precision Components



WG-360A-XX	WG-360B-XX	WG-7200A-XX	WG-7200B-XX
WG-ASM512-XX	WG-FNK-XX	WG-RIBBON-XXXX	WG-URB-XX

# Integrated Supply Chain Support

**We can support customers with:**

## — Battery Pack Assembly

- Heavy Wire Wedge Tools
- Ribbon Bonding Tools
- Cutter Blades
- Wire Guides
- Aluminum Wire
- Copper Wire

## — BMS Electronics

- Ball Bonding Capillaries
- Small Wire Wedge Tools
- Gold Wire
- Copper Wire
- Ejector Pins

## — Power Module Manufacturing

- Heavy Wire Wedge Tools
- Ribbon Bonding Tools
- Aluminum Wire
- Copper Wire
- Ribbon Materials
- Precision Components

# How Can We Support Your Project?

Which area is most relevant to your project?

- Battery Cell / Module Assembly
- BMS Electronics
- IGBT / SiC Power Modules
- Other Applications

We look forward to discussing  
how we can support your production ramp-up.