



LEFT HAND
ENGINEERING

Copper Bus Bar Machine

Strategic Facility Planning and Integration
to Maximize a New Machine Investment

FACILITY PLANNING | EQUIPMENT INTEGRATION | MANUFACTURING ENGINEERING



**2 FACILITIES
EVALUATED**

TO FIND THE BEST LOCATION



5 MACHINES

INTEGRATED
(INCL. BUS BAR MACHINE)



**SUCCESSFUL
COMMISSIONING**

NOW A KEY ASSET



THE SITUATION

The company purchased a copper bus bar machine and needed to determine the best location for installation, then reoptimize the facility flow to support the new equipment.



THE CHALLENGE

We needed to understand the machine's footprint, potential output against existing and forecasted demand, and whether it should be located in one of two different facilities.



OUR APPROACH

- Analyzed facility layouts and square footage for both locations.
- Conducted point of consumption studies to identify the optimal location.
- Designed a new layout to ensure raw material entered the cell efficiently and was processed close to the next assembly step.
- Coordinated with electric contractors to set power for the new bus bar machine, 3 CNC machines, and 2 turret punches.
- Worked with riggers to move equipment.
- Partnered with internal maintenance to prepare areas with air and other utilities.



WHY IT WORKED

- We took a data-driven approach, combining facility layout analysis with real production needs.
- The new layout improved material flow and positioned the machine close to the next assembly step.
- We coordinated early with key partners (electrical, rigging, and maintenance) to ensure a smooth installation.
- This integrated approach minimized disruption and set the machine up for long-term success.



THE RESULTS

Successful Implementation

The copper bus bar machine was commissioned successfully and has been a key asset since startup.

Improved Production Flow

Optimized location and layout support efficient material flow and downstream assembly.

Supports Current & Future Demand

The machine's output aligns with current demand and positions the team for future growth.



PROJECT DURATION
6 MONTHS



CUSTOMER ENGAGEMENT
4 YEARS



SERVICES DELIVERED
Manufacturing Engineering | Industrial Engineering
Facility Planning | Equipment Integration