

CASE STUDY



MACHINES UTILISED

- Amada EMZ Punch
- Amada Fibre Laser
- Amada Press Brake
- LVD Ultimate Bending Machine
- Salvagnini P4X Sheet Metal Panel Bender
- Migatronc Robotic MIG Welding
- ITW Gema Powder Coating System



PRODUCT: ICE STATION 2

APPROACH

- After Reverse Engineering, manufacturing drawings were prepared.
- A sample was created to the exact specifications of the client.
- An engineering evaluation revealed that cost and time savings could be achieved.
- Many design tweaks were made in the Value Engineering sample, which were then approved by the client.

RESULTS

- Concealed welds led to enhanced finishing.
- Fewer welds reduced the need for finishing and increased production efficiency.
- A reduced number of parts.
- A stronger, more stable, and durable product was achieved.

BACKGROUND

The client was outsourcing their metalwork from outside the UK which was becoming a challenge due to various factors involved in the supply chain. As they were growing phenomenally, they sought a UK metalwork sub-contractor for ongoing consistent and reliable supply. Our client had researched about our capabilities and capacity, and choosing JC Metalworks ensured them consistency, improved lead times and a high-quality cost-effective metal product. Right from the start there was great synergy between our businesses, and just after the first meeting, we received the PO (This was one of our quickest first orders based on our rapid response).



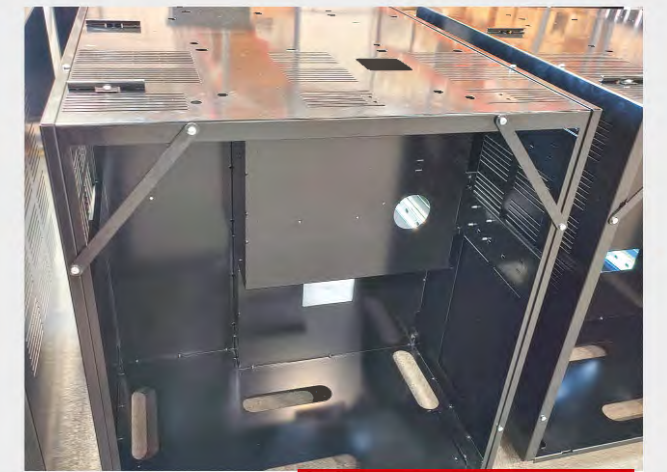
Extended tabs for concealed welds



Minimised part count



Welded cutout replaced by Punch form



Brace Bracket for stability

OUTCOME ———
5500+ UNITS
 ——— SINCE

“At Frozen Brothers we love working with JC Metalworks. They are always on hand to give technical advice, communication is responsive and they consistently deliver quality products on time.”
HARRIET LALLY,
 OPERATIONS MANAGER