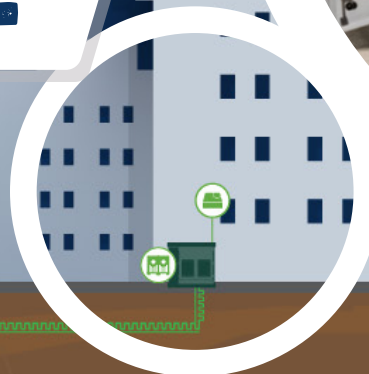




CONSTANT
GROUP

CABINETS AND ENCLOSURES

THE LAST MILE



ABOUT US

We provide advanced manufacturing solutions right from design all the way to volume delivery fully serviced from our manufacturing site in Oldham, Greater Manchester based in the North West of England. Established in 1970 our British family run company operates from a purpose built factory with considerable in-house capabilities and best in class technology. We specialise in providing manufacturing support to industry including telecommunications, EV charging, renewable energy, food processing, pharmaceutical, aerospace and automotive.

We offer a single source solution with specific emphasis on sheet metal fabricated products including electromechanical assembly.

TEAM

- Business development team
- Project managers
- Design engineers working in Solidworks, Creo and Radan
- Production managers
- Fully skilled sheet metal workers
- Fully skilled TIG/MIG welders working in multi metals
- Full assembly department both mechanical and electromechanical
- In-house apprentice scheme
- Machine operators
- Logistics department

PRODUCTION

- CAD design
- Prototyping
- Laser cutting
- Bending and metal forming
- Fabrication
- Metal finishing
- Product assembly
- Delivery





Full design, manufacture, integration and logistics service



Modification and customisation of existing cabinets



Advanced in-house design of next generation cabinets



Composite pole integration



Rapid prototyping and small 'concept' batch runs



Custom colours and finishes available



Fully programmable forced air cooling



Full environmental monitoring with data collection



Digital locking with traceability



Zero, part or full assembly options



3rd party / confidential / ancillary part installation service



Zero weld design with flat packing capability



Design and manufacture to customer specific IP rating



Water resistant design and manufacture to IP54 rating



Pressurised water and dust tight design to IP65 available

SOLUTIONS

We have the experience, the team and the machines to manufacture and tailor a cabinet to the needs of the intended use, contained electronics or deployment area.

You don't need to fit a square peg in a circle hole anymore.



PARTNERSHIPS

We've become the partner of choice for many UK and European telecom, utility and transport organisations.



openreach

NOKIA

COMMSCOPE®



VOLTSERVER
DIGITAL ELECTRICITY™

MBNL



MinebeaMitsumi



Cabinets and enclosures

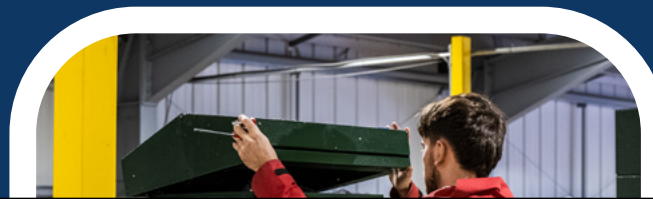
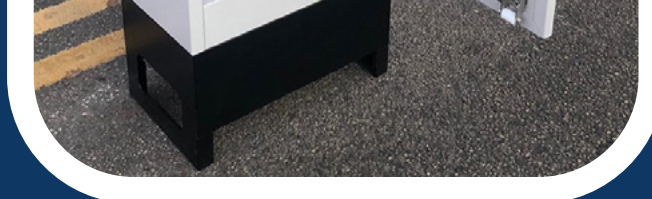
showcase **CABINETS AND ENCLOSURES**

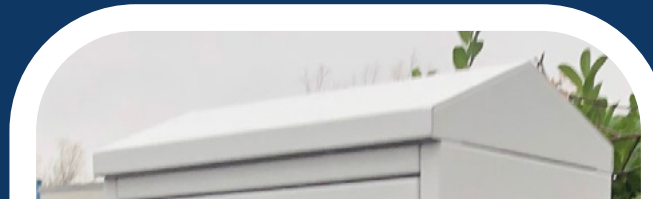
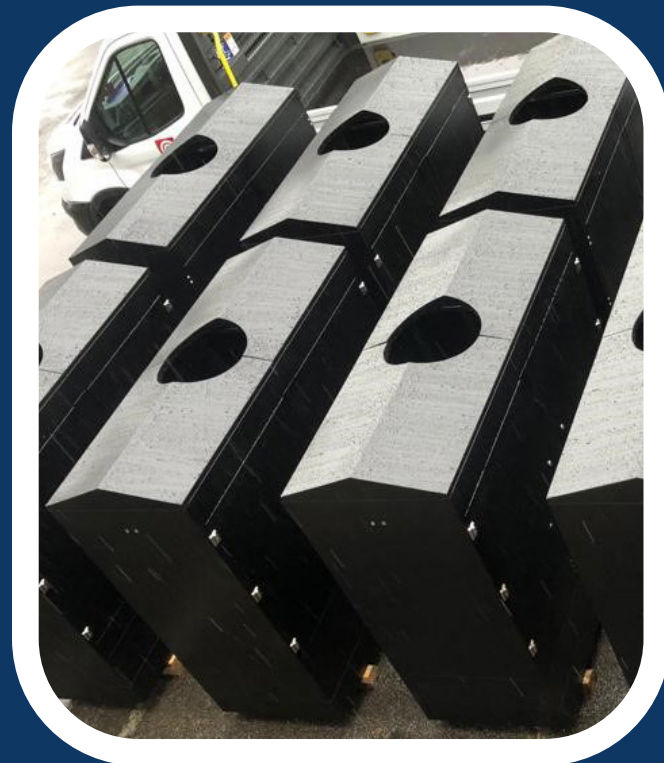
There isn't a style of cabinet or enclosure we haven't manufactured at Constant! We are the manufacturers of choice for telecoms, utility companies and various industrial applications. We can assist with complete ground up design to full production including electrical integration and guide you through approval process for IP and fire testing.

Cabinets and enclosures

- › Telecoms cabinets
- › IP rated cabinets/enclosures
- › Fire rated enclosures
- › 12U-42U server cabinets
- › 19 inch network cabinets, data racks
- › Telecoms pole wraparound enclosures
- › Electrical switch cabinets
- › Feeder pillars
- › Medical/dental cabinets
- › Media cabinets
- › COSHH cabinets
- › Security safes
- › Key cabinets
- › Van boxes
- › Cash boxes







case study

MOBILE PHONE MAST ENCLOSURE

Cabinet designed in a wrap around style to fit perfectly around a mobile mast. Manufactured from 1.4003 stainless steel fully welded and powder coated to customer specification.



design

Our client, let's call them Client A for this case study, provided all the drawings and instructions for the enclosure. Constant's team of [CAD engineers](#) imported the CAD files and aligned them for our machines and procedures, to give the most efficient manufacturing process for the enclosure.

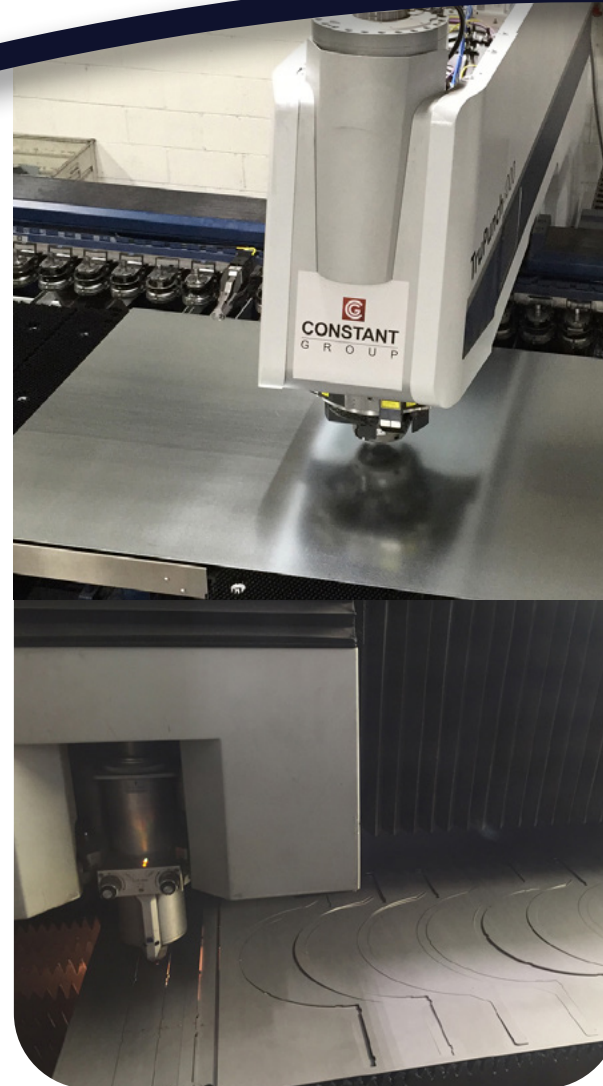
The enclosures are constructed from several sheets of special grade stainless steel at 1.5mm thick.



cutting

The phone mast's enclosure main body was cut on our Trumpf TruPunch 3000, and the secondary parts such as internal pieces and the top hood were cut on our [Laser machine](#).

Having a range of machines at Constant allows us the flexibility to use different machines for different parts, producing the best and most cost effective method of manufacturing for the project at hand.



bending

Up next is the bending phase on the press brakes. The metal enclosure is large so front arm rests are used on the press brake as a bending aid.

 **Customer**

Mobile telecoms

 **Industry**

Telecommunications

 **Destination**

Streetside





fabrication

First process is tack welding the roof of the cabinet together, mating the bent parts together to fabricate the complete roof section. The next stage is to tack weld the roof to the main cabinet body. The preferred welding method on this project is TIG welding using high quality stainless steel wire. The precise and neat nature of TIG welding means that the next stage of weld clean up is minimal.

The process of cleaning up the weld is done by our skilled fettling department.



finishing

The cabinets are hung on the [powder coating](#) line and go through the pre-treatment line to remove any dust or grease on the metal, and then make their way through the drying ovens to be spot on for the paint process.



assembly

This contract is classed as a 'full assembly contract and packing' job. This means we have been provided with, or sourced, parts to add into the cabinet when assembling.

Hinges: The metal enclosure has branded tamper proof hinges which the client provided for us to attach during assembly.

Labels & Cables: The customer requires two labels to be affixed to the enclosure. The first is their company branding label with technical information and contact details (blurred for contractual reasons) and another to indicate the earthing point.

end result

This unit is designed to fit around a telephone mast/mobile phone mast and reduce the amount of ground space used up by metal cabinets on pavements and path ways.



CONTACT US

Please use the contact information below to get in touch with us. You can also pop in anytime, we're open 8am – 5pm, Monday to Thursday.

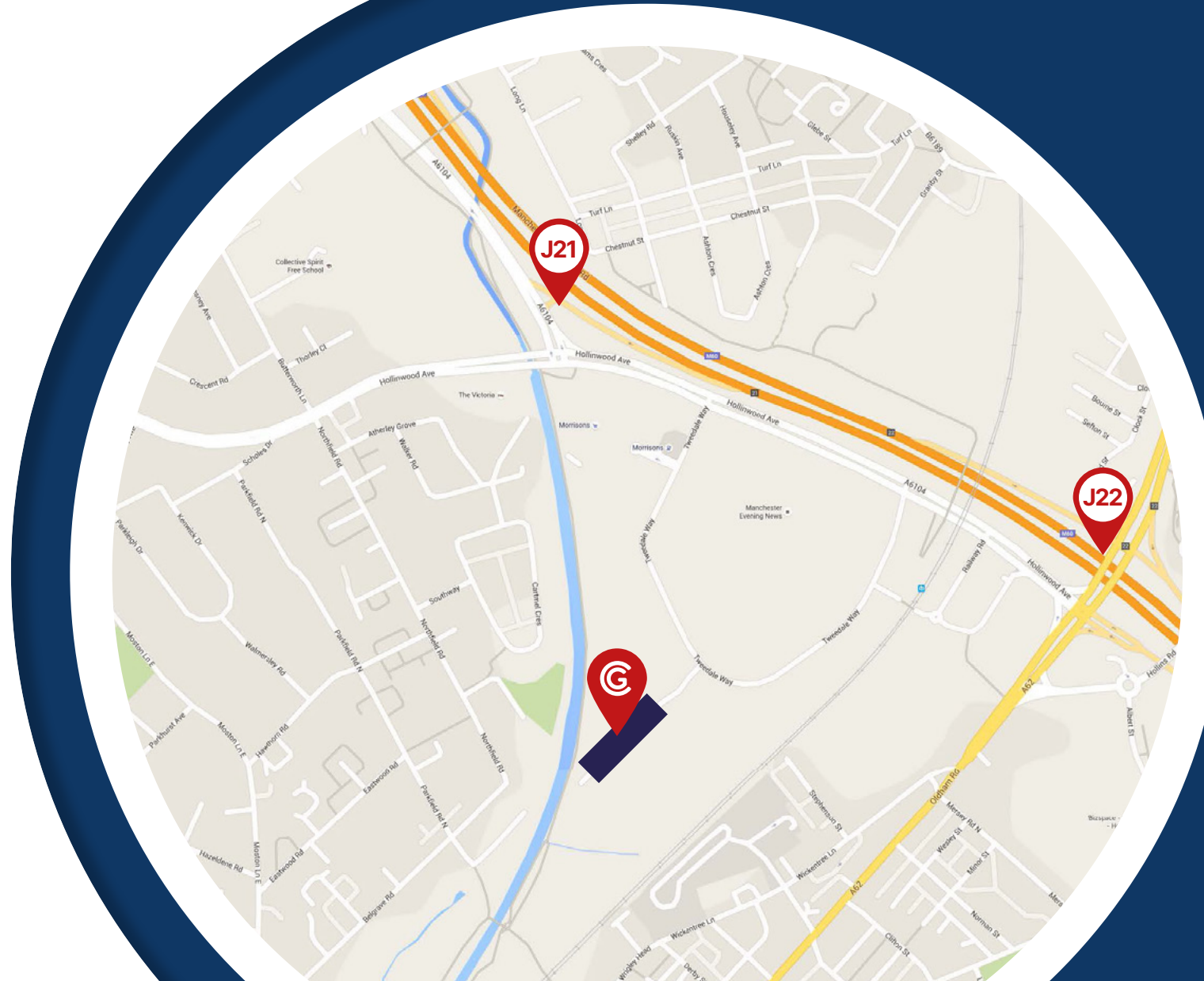
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ADVANCED MANUFACTURING SOLUTIONS



CONSTANT
G R O U P

CAD design
Prototyping
Laser cutting
Metal folding
Fabrication
Metal finishing
Product assembly
Delivery

CAD design
Prototyping
Laser cutting
Metal folding
Fabrication
Metal finishing
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