



CASE STUDY



Roofbolter Design

DIGITAL DESIGN AND REMANUFACTURING



Process: 3D Scanning 3D Modelling

CHALLENGE:

A roof bolter is a specialised machine design for drilling holes and installation of safety bolts in roof and walls of mines, power plants, tunnels and storage facilities.

Our client needed a digital twin of the existing machine so that new attachment pieces could be designed in Cad and later manufactured.

SOLUTION:

Wysiwyg 3D engineers captured the roof bolter with three different scanners in over 32 positions and two configurations to ensure complete coverage, detail and accuracy.

Each component was remodelled included all bolt positions so the new attachment could easily be designed and built to ensure it fit exactly. The cad model was supplied in an assembly as separate part to make the file easier to work with. Files delivered as a STEP model for importing.

KEY ADVANTAGES

- Portable Scanning technologies for onsite scanning
- Accurate Scan Data
- 3D Modelling fit for purpose
- Experienced and skilled team