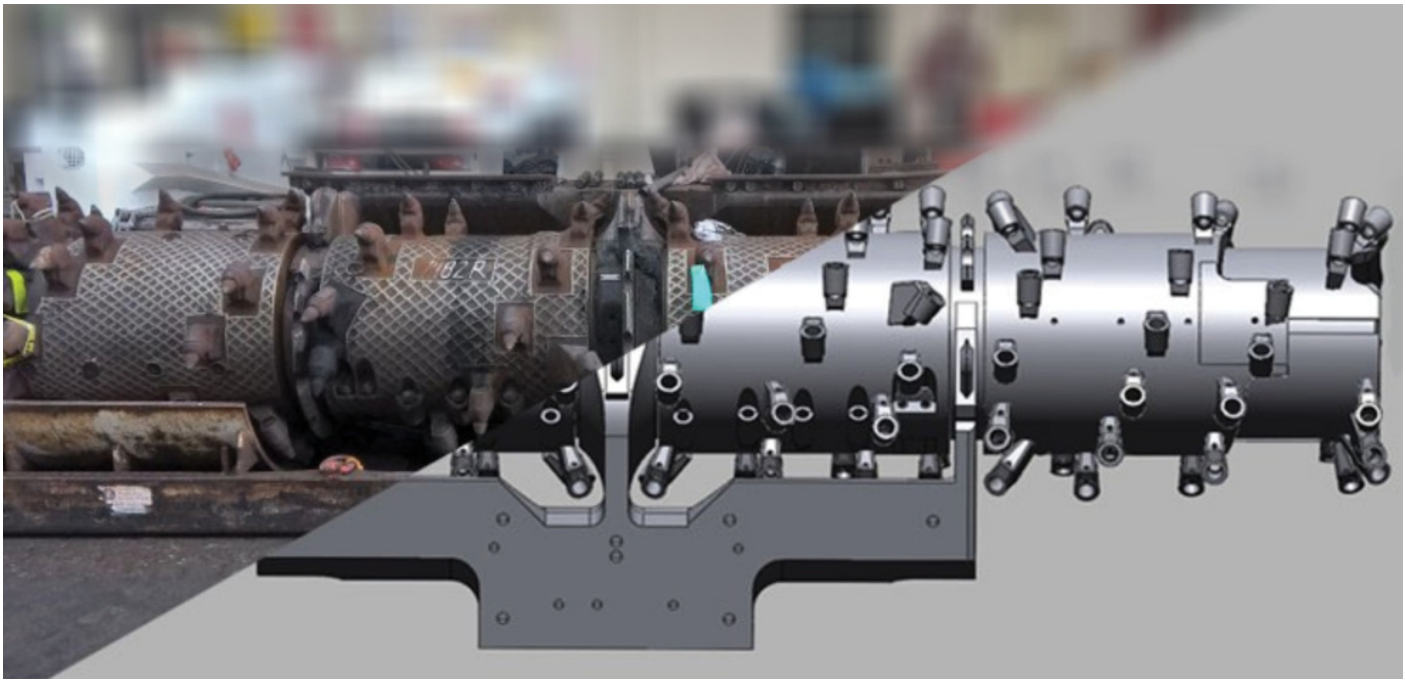
CASE STUDY



Mining Cutter Head

DESIGN FOR REMANUFACTURING

Process: 3D Scanning, 3D Modelling

CHALLENGE:

3D Laser scanning of the mining cutter head with the purpose of re-lace the cutting picks, changing the spacing from 70mm to 40mm. Mining client had used other 3D Laser scanning service providers in the past with no success, but this time they could not afford to put $300,000 on the line.

SOLUTION:

Client contacted WYSIWYG 3D to do the capturing and remodelling of the existing cutter head. With the information they had, the helicoidal pattern of the picks (a process called re-lacing) was going to change from 70mm to 40mm.

WYSIWYG 3D scanned the cutter head in its entirety capturing every single one of the 140+ picks. The picks had a slightly incremental angle that had to be kept, so accuracy was crucial. All the components of the machinery were 3D modelled individually and exported so they could be manipulated independently, saving client significant time and costs.

KEY ADVANTAGES

- Portable scanning technologies for onsite scanning
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- Accurate scan data
- 3D modelling fit for purpose
- Experienced and skilled team

Australia Wide Ph: 1300 14 00 55 Email: sales@goproto.com.au Web: GoProto.com.au
Sydney NSW +61 2 9153 9974 I Melbourne VIC +613 8899 7280