

# CAD Design Services

3D design and layouts using Solidworks from £49+VAT per hour

## Transform your ideas into reality with Northwick

Our expertise in servicing and maintaining machines gives us a unique insight into how products perform in the field and how their design can be improved. We use this knowledge for bespoke designs for clients wishing to convert their ideas into reality.

Our expertise comes from years of experience gained through our involvement in wide array of projects since 2003. We have designed and built machines, tools and products for clients all over the world including Saipem and BAE Systems. Some of our our designs have been for one off specials such as the pipe cut-off machine shown left (CAD model) and below (actual machine), whilst others have been used for mass production. Our expertise encompasses:-

- 3D mechanical design using Solidworks
- Manufacturing layout and detailed drawings
- Electrical circuit design
- Control software (PLC's, logic controllers and microprocessors)
- Hydraulic and pneumatic system integration
- Safety systems
- Product manuals and standards
- CE marking

## Custom made parts, modifications or upgrades

Our design team are able to produce three dimensional models and designs for all kinds of purposes. Many designs that we do are relatively simple in complexity. These may be for brand new parts to adapt or improve an existing machine, or to re-produce an existing part which is no longer available. One client engaged us to design and manufacture a small assembly of parts with fitting instructions which could be retro-fitted to existing machines in the field so as to strengthen the frame and prevent future breakdowns. Another client used our services to produce a special bracket which was used to repair a small batch of machines in order to repair them and thus avoid replacement costs.

**To discuss your idea or individual requirements,  
please call us on 01386 555630 or  
email [justask@northwick.eu](mailto:justask@northwick.eu).**

Our expertise includes:-

- Drives, axles, pulleys and pivots
- Bearings, belts, bushes, and keyways
- Alternators and generators
- Mains and battery power systems
- Chokes, filters and noise suppression
- PWM, Inverter, Pneumatic and Hydraulic drive technology
- AC and DC motors
- Surface finish and heat treatment
- User Instructions & specifications
- Bills of materials
- STEP files for manufacture
- Specifications for spare parts and maintenance
- CE compliance