



When Thwaite Holme, manufacturer and installer of quality fitted kitchens and bedrooms, expanded their premises, they contacted Nordfab's distributor, Exactly for help. Exactly used Nordfab ducting throughout the new building and enabled the factory layout to be reorganized to optimise workflow, giving Thwaite Holme a 35% energy consumption reduction.

#### Challenges: update of ductwork arrangement

Located in Dalston, UK, Thwaite Holme specialize in high-end, luxury kitchen and bedroom furniture; designing and manufacturing quality, bespoke fitted furniture to suit individual tastes and styles. Working in traditional hardwoods such as oak, walnut, maple and ash, the craftsmanship and attention to detail is obvious in every piece of furniture. Details of this nature are not produced on high-speed CNC machines, but crafted on a vast range of individual machines, in fact more than 40 different machines.

#### Solution: 35% energy consumption reduction

Exactly were contacted and quickly realized after been shown the newly extended factory that the task was going to involve much more than an update of the ductwork arrangement. After a brief inspection of the factory, Exactly carried out a comprehensive evaluation of the extraction requirements, including a full energy-saving survey. With around 40 machines requiring extraction, and yet only a small number of them ever in use at any given time, the potential savings were substantial.



#### Result: 66,000 kWh in yearly savings

Nordfab is proud to have partners such as Exactly, who are extremely knowledgeable in LEV and can provide smart ductwork design, supply and install products. Exactly managed to let Thwaite Holme reduce their energy consumption with 66,000 kWh a year, saving thousands of pounds every year on electricity costs by using:

1. Smart technology.
2. Good factory floor design.
3. Efficient duct design system. Using Nordfab Quick-Fit ductwork throughout the factory, connecting equipment to the main ductwork via four separate branches. A 37 kW direct drive fan provides the capacity to extract in excess of 20,000 m<sup>3</sup> of air per hour, delivering sawdust, shavings and wood chips to be filtered through the externally-sited filter unit.

