



## smd DRIVES CLEAR THE AIR FOR LASER CUTTING MACHINES

Lenze smd drives are being used to clear air from the cutting bed on a range of fine laser cutting machines. The smd provides a cost effective and reliable method of accurate manual speed control for the extraction fans that have to be finely adjusted for each type of material.

The laser cutting machines are frequently used to cut delicate materials such as the 3D effect lettering on basketball vests; the effect is created using several layers of coloured material and bonding sheets. The laser is used to cut through the different layers without harming the one underneath, producing a stepped graphic affect.

The smd inverters allow the air extraction volume to be finely judged, removing fumes and keeping the laser field clear without disturbing the material on the cutting bed. The 0.55kW smd drive is wired to a potentiometer on the front panel of the machine to achieve this delicate manual control simply and easily.

Other materials such as PVC produce large amounts of fumes and lightweight debris when laser cut which, requires high extraction rates to maintain operator safety and protect machine components. The smd's high power capacity, available from a diminutive 146x93x92mm size and its ability to drive 3phase motors from a 240V single phase supply ensures that the high extraction rates are possible even when machines are plugged into domestic 240V AC power supplies, as is often the case with garment related applications.

### Benefits:

- Cost Effective
- Reliable Operation
- Simple Integration
- High Power Capacity
- Easy to Use



**Lenze**  
**AC Tech**

[www.Lenze-ACTech.eu](http://www.Lenze-ACTech.eu)