



## smd DRIVES BRING NEW LIFE INTO OLD PRINTING AND FINISHING MACHINES

An industrial electric engineering specialist is using 7.5kw smd drives as part of a complete electrical refit for older models of Heidelberg embossing and cutting machines. The drives have made the refit possible due to their compact size and high power handling capacity. Other user-focussed features such as the innovative EPM chip have allowed the company to achieve fast programming and low cost service support.

The refurbishment package for Heidelberg printing and finishing machines includes a complete rewire and replacement of the old slip-ring electric motors. The package uses a PLC based control system, a Lenze smd drive and a touch screen HMI.

The control panel is fitted into a cabinet on the machine that was originally designed for storing tools and maintenance spares, so the space available for the drive is severely limited. The Lenze unit is ideal because it is very compact; around half the size of some competitors drives. Drive programming is also flexible without being too complicated so commissioning is also far simpler than with other drives. An smd specific dynamic braking kit is used to reduce speed, working with the drive to inject braking current into the motor and provide the fine speed control needed to ensure the print registration is kept within extremely tight tolerances despite the fast cyclic load and unload sequence caused by the heavy printing drums.

### Benefits:

- Compact size
- Fast EPM programming
- Simple set up
- Low cost support
- Dynamic braking



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