

# 5 AXIS CNC

## SCM 5-Axis CNC Installed at Cavendish Joinery

CAVENDISH JOINERY, ALONG WITH THEIR SISTER COMPANY, LIFT CARS & CO LTD., ARE BASED IN HODDES DON, HERTFORDSHIRE, CURRENTLY EMPLOYING APPROXIMATELY 22 PERSONNEL INCLUDING THREE APPRENTICES. THEY HAVE RECENTLY INSTALLED AN SCM 5-AXIS CNC MACHINING CENTRE, MODEL RECORD 110 NT TVN PRISMA, WITHIN THE 10,000 SQUARE FOOT FLOOR SPACE AVAILABLE, AND ARE ALREADY TAKING ADVANTAGE OF THE MANY BENEFITS THE MACHINE PROVIDES.

The CNC machine has been installed within the recently acquired commercial unit housing Cavendish Joinery, together with the construction and fit out of new office space looking directly on to the shop floor and the impressive new SCM machine. The joiner's shop and machine shop are located separately in the two adjacent units, the latter having standard classical woodworking machines, including a planer moulder, a wide belt sander and a morticer installed.



The SCM 5-axis cnc machining centre installed at Cavendish Joinery

Cavendish Joinery are specialists in the

manufacture of custom made bespoke joinery, including special size items such as doors, frames, screens, casement and vertical slide box sash windows, wall panelling and staircases having built up an excellent reputation with their wide range of customers for quality, flexibility, and reliability at competitive prices.

In order to continue to expand the company, and to offer existing and new customers a greater range of products, Managing Director, Mike Cascarina decided to investigate the market for CNC machining centres, aware of today's technology being the way forward in today's market.

Mike Cascarina comments "We visited various installations with a number of potential suppliers and then invited them to our premises to see which one gave us the best package to suit all of our requirements, and also provide us with full training and



The PRISMA 5-axis machining head on the SCM cnc at Cavendish Joinery

service back up."

SCM's Area Sales Manager, Roger Gabb, offered the Record 110 NT TVN Prisma, a 5-axis machine with X/Y axes of 4700/1850mm. A Rapid 24 Automatic Tool Changer feeds the powerful SCM Router Head. The table consists of 10 aluminium bars with various dimensioned vacuum cups for component hold-down, plus 4 lifting supports to assist loading and unloading of large and heavy items such as fire check doors. A belt conveyor below the table removes dust and off-cuts to the end of the machine. A kit for machining window components is located on the left hand side of the table.

Mike Cascarina continues "This being our very first CNC machine, we wanted a package to encompass all aspects of the CNC installation, including commissioning, training, software, tooling and even finance. Roger Gabb came up with a complete package to suit our needs, confirming our purchase of the SCM machine."

To complement the installation of the SCM 5-axis Router and to realise the full potential and benefits of the machine, Cavendish Joinery decided to use TopSolid'Wood, the totally integrated 3D design to manufacturing software supplied by Router Solutions. Steve Holbrook the company's draughtsman is primarily responsible for downloading information to the CNC, and believes the software package and continuous back up of information and guidance when required, is excellent.

With TopSolid'Wood, the CAD draughtsman can design windows, doors, cabinets, furniture, stair components, complete room and shop layouts, what is important is that the design features he applies to the model will be automatically associated to the tooling and so the machining is created within the program.

The days of passing files from the design office to the machinist, and waiting for them to generate the programs are at an end, even if something changes in design, because of its true integration, TopSolid'Wood software is aware when the design has been changed, so will automatically recalculate the machining



The SCM RAPID 24 tool changer on Cavendish Joinery's cnc machining centre

and update detailed drawings and documents associated with the parts. Unlike so many CAD systems, TopSolid'Wood has been developed for use in a manufacturing environment and not purely for design.

Tooling for the SCM was supplied by Oertli with their Mark Smith identifying the tools required to commence production of standard joinery components. Additional tooling can and will be purchased as the range of products increases, however having the 5-axis capability, there are considerable savings to be made due to the reduced quantity of tools required.

Mike Cascarina concludes "We like to think we are a forward thinking company and if investment in plant and machinery is required, we will consider it and proceed accordingly, emphasised by the recent purchase of a wood burning system to be installed at the end of September, which will offer full heating within the factory, together with 100% re-cycling of all our wood waste (approx 37 tons per annum), therefore reducing our carbon footprint and helping the environment".

The SCM CNC will enable us to offer our customers a service second to none with the

supply of any items of joinery required for manufacture in materials approved and sustainable with improved delivery times backed up by our expertise, ISO 9001/2008 quality approved company registration, and a firm commitment to all our customers".

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