CUTTING-EDGE SGNS BY BARBARA SCHULZ

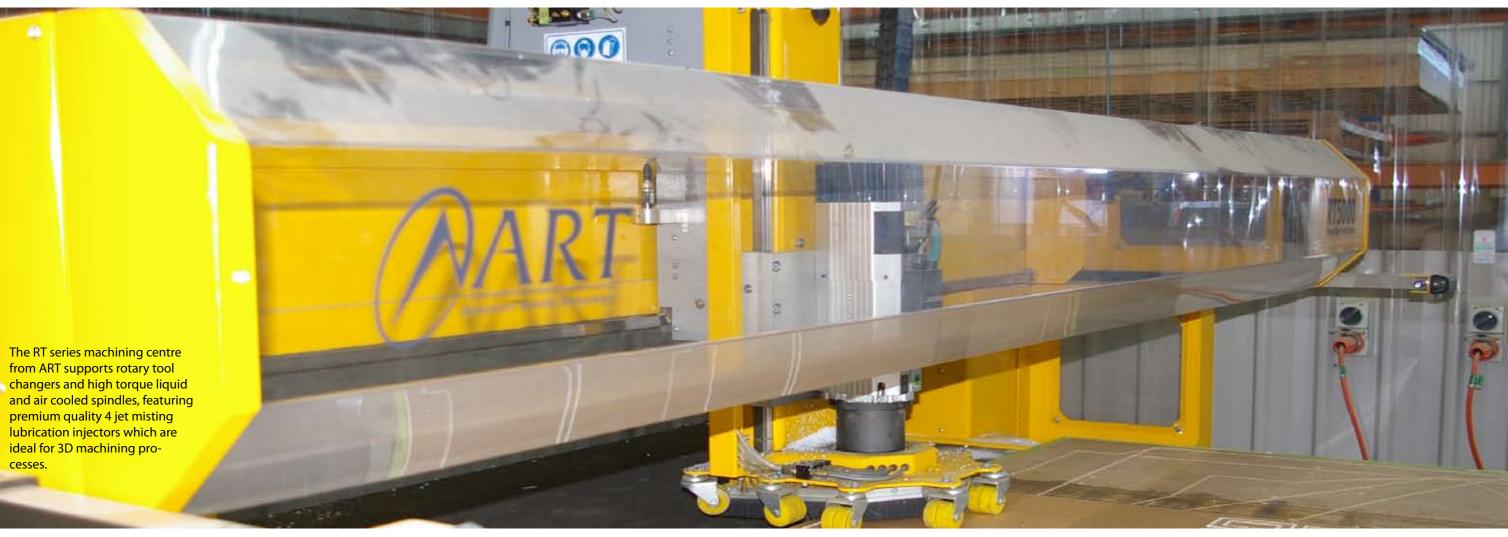
IMAGES BY BARBARA SCHULZ

Signs need to deliver a clear message to avoid confusion, which is why all signs are custom-made to help brands inform, instruct and look good in all the right places. Melbourne-based Signcraft Group designs and manufactures its complete range of signage solutions in-house, and the company's ART CNC routers offer the high-quality cutting capabilities Signcraft needs to be competitive.

Altex Woolworths, Channel 10, Brisbane Airport, solving that it wasn't delivering the service its customers igcupSt Georges Bank, Nissan; the list goes on. At first deserved. At that time, Sam was a trained sign writer sight, these companies have nothing in common. All of with a solid grounding in the industry. He decided to form them, however, need to make people and customers his business based on the philosophy of "performing a aware of their location and products, make their mescommon task uncommonly well." saging prominent, identify ownership or help people get Today, The Signcraft Group continues to strive to deliver from A to B. And because we live in a very visual world, all the greatest value for its clients' investment through a those and many more companies, organisations or road team of dedicated resources and four totally self-suffinetworks have one common need: Signs. cient plants and a complete service offering from design through to preventative maintenance.

Signs need to deliver a clear message to avoid confusion, which is why all signs are custom-made to help brands In-house machining inform, instruct and look good in all the right places. Mel-"Except for some special work like waterjet cutting, we bourne-based Signcraft Group understands people and do all machining in-house," says National Operations the way they respond to information and instructions in Manager Guy Blackman. "Essentially we are a jobbing diverse environments and evolved from a tradition sign shop, the majority of signage is tailored to the building shop to become a signage specialist encompassing difyou are going to hang it on. Even something like a Woolferent trades and services to become Australia's leading worths sign which looks and feels the same to the aversignage organisation. age person looking at it, it's all tailored for the buildings, every sign is individually made, hand constructed."

The Signcraft Group story began in the 1960's with Sam King taking a hard look at the signage industry and re-



The company runs a vast range of fabrication machines,

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guillotines, presses, welders, vacuum forming machines for 3D moulds, as well as two ART routers. New technologies and new materials are transforming the way signs are designed and manufactured. CNC routers are designed to keep up with these developments and excel at cutting composite prototyping boards, plastics, carbon fibre and even non-ferrous metals with the proper accessories.

In the past, CNC routers have primarily been used to cut contours and 3D shapes in wood, plastic and foam for signs, plaques and more. Over the years, however, routers have become more accurate and capable and are used more and more to machine parts that were once machined on CNC milling machines. The larger machine table sizes of today's routers, coupled with the highspeed spindles, makes them an ideal choice for machining thin and small parts from sheet or plate material.

Size mattered for The Signcraft Group when they were looking to invest in a second ART CNC router for their Melbourne factory, and the RT5000 Heavy Duty Profile Centre was ideal to cut the company's most commonsized sheets of 4m x 2m. "We installed our first ART 5000SX router back in 2007 and the machine has been reliable ever since and ART as an Australian company offers the service support we need," Mr Blackman says.

The company processes many different types of material, from acrylics, aluminium, aluminium composites,



steel, stainless steel to wood. ART's RT series machining centre is specifically tailored to these needs and even supports rigid tapping.

"Recently there have been great increases in the performance of CNC routers, which has meant that the gap between machining centres and routers has closed considerably," David White, Director Advanced Robotic Technology (ART) says. "All of our CNC routers are capable of prismatic machining as well as full 3- and 4 axis free-form machining depending on the machine options." He goes on to say, "Our large format CNC router machines are now capable of heavy duty machining in solid aluminium as well as plastics, composites and timbers, which is why our newest machine, the RT model as installed at The Signcraft Group in Melbourne, is no longer marketed as a router. Instead we class it as a machining centre."

Router handles 3D machining tasks

The RT series machining centre from ART supports rotary tool changers and high torque liquid and air cooled spindles, featuring premium quality 4 jet misting lubrication injectors which are ideal for 3D machining processes, because the coolant needs to get right to the cutter especially in deep pockets. The z-axis has often been a limiting factor on CNC routers but ART's RT series machines have a huge standard clearance of 350mm under the gantry. The z-axis has a stroke of over 700mm,

capable of handling many moulds and other 3D machining tasks.

It is those features and the built-quality which attracts The Signcraft Group to ART's routers, but as an Australianowned and operated company it is also very conscious of supporting Australian manufacturing and local companies.

"The beauty about an Australian manufacturer is that if something goes wrong, the support is there and even if the supplier doesn't have a spare they can make it or source it locally," he explains. "Many companies source from China or the US. That's not the same."

The Signcraft Group's XXXXXX and Operations Manager Guy Blackman in front of their new ART RT series machining centre.



Mr White agrees but admits it is a challenge to compete our mechanical and electronics engineers, as well as our against cheap imported products. "Many customers that own in-house CNC operators, we have an extremely short are new to our type of product are unaware of the many development cycle time. This also allows ART to respond pitfalls of buying inferior products from overseas, with little to the needs of customers by developing processes to or no support," he says. "The challenge is to help our posuit their needs." tential clients to identify the vast differences that can be The Signcraft Group's Machine Shop Operator XXXX, who found between quality engineered machinery from a repuhas been with the company for six year, agrees. "Compare table manufacturer, and the copy-cat imports that often fail to the machinery we've once had the ART machines are to deliver on their promises." fantastic," he says. "Programming is easy and the touch Research and development screen is full-on. Especially the size of the machine is good The Brisbane-based manufacturer invests a lot of resourcand just what we need. I had good experience with ART and am very happy with their technology and service. "

es into developing new features and functionality into its products. "Many of the functions that we have on our ma-Asked whether he'd buy an ART machine again the anchines are simply unavailable on other machines," Mr White swer is clear; For sure. says. "For example, we develop our software from front to back. Because our software developers work closely with www.advancedrobotic.com