computer controlled routing technology

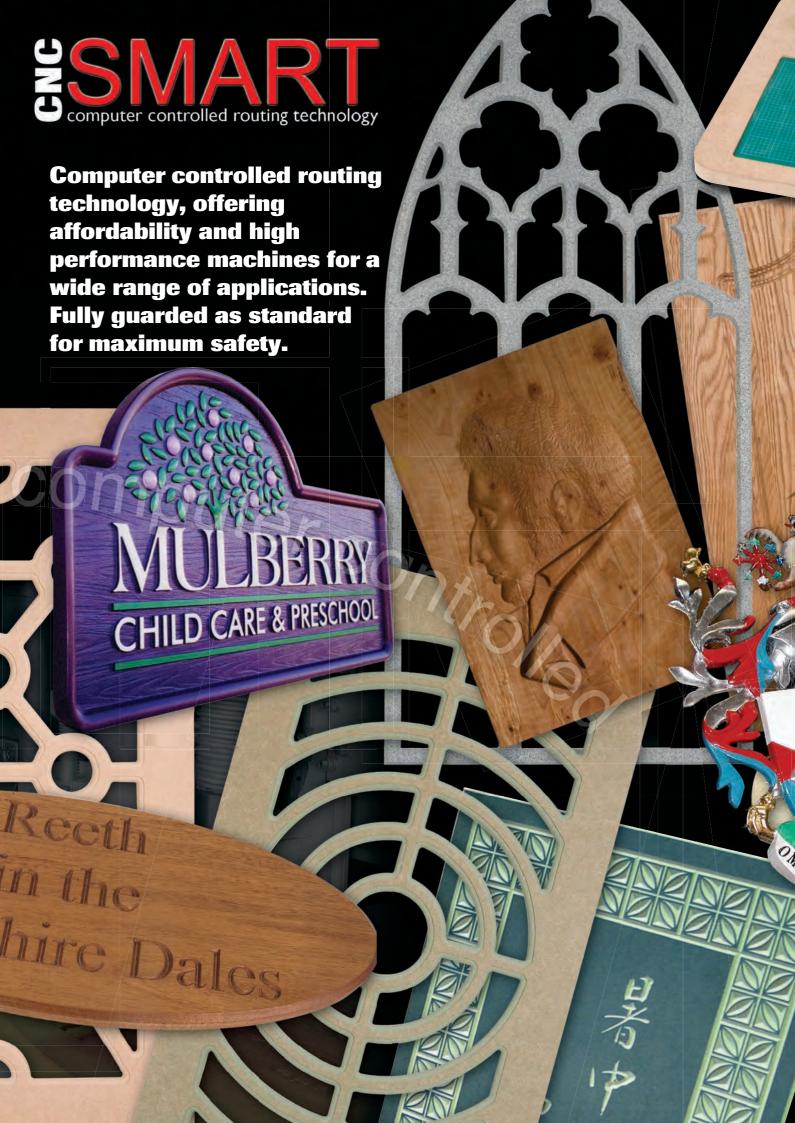














The CNC SMART, SMART PLUS and SMART FAST are all high performance floor mounted machines for improved routing productivity. SMART FAST now has 15 metres per minute feed rate and the SMART FAST Y1300 has a



CNC Smart Plus and Fast Machines

- Available with two motor head options and two maximum feed speed options.
- CNC Smart Plus T10 has a medium duty head using a 2000 watt single phase head.
- CNC Smart Plus has a high frequency head fitted and a maximum feed speed of 3 metres per minute.
- CNC Smart Fast comes with a high frequency head and a maximum feed speed of 15 metres a minute.
- Solid construction with enclosed steel cabinet and floor stand meeting the requirements of EN 848 Part 3.
- CNC Smart Plus machines have stepper motors and lead screws.
- CNC Smart Fast machine has stepper motors and ball screws.
- Onboard Goya console enables the machine to be controlled without being connected to a computer.
- Single phase power supply required for all options.
- 3-axis control giving continuous movement.
- All machines use industry standard drivers suitable for the maximum feed speeds required.
- Supplied with Bach control software as standard.
- CNC Smart Fast Y1300 has opening doors at both ends of Y axis.

The bench mounted CNC SMART LITE is the smallest CNC Machining Centre offering all of the advanced electronic control features and component structure of the larger Smart machines.



CNC Lite Machines

- Available with two motor head options:-
 - Medium duty 2000 watt single phase.
 - Heavy duty high frequency.
- Bench mounted (optional bench available).
- Single phase power supply for all Lite machines.
- Solid aluminium axis construction.
- Bach operating software to control machine movements and running of programs.
- Stepper motor drives.
- Will work with most educational software through a suitable post processing interface.
- Feed speeds up to 3 metres per minute.
- 3-axis control giving continuous movement.
- Interlocked doorway meets requirements of EN848 Part 3.
- Large viewing area suitable for the school workshop environment.
- Ideal solution to fulfil the requirements of Keystage 3, 4, AS and A2 resistant materials.
- Will fit through any standard doorway.



Motor Heads

Heavy Duty High Frequency

Enables 24/7 machining capability to the range of CNC Smart machines. Collet size up to 1/2" (12.7mm). Available in 18000 rpm or 24000 rpm. Please state speed when ordering.



Medium Duty

The 2000 watt T10 power unit opens up machining possibilities with a range of collet sizes up to 1/2" (12.7mm).



CNC Lite Bench

Mechanical

Clamps

Purpose built bench for CNC Lite machines. Made from aluminium extrusion with adjustable feet for levelling.



The mechanical clamps are of solid

aluminium construction with jaws of MDF.

Three steel spring-loaded eccentric cam

the jaws. Measuring tapes fitted in line

A sliding stop enables positioning

on the X-axis plane. The

mechanical clamp may

be mounted in either plane enabling the

jaws to be parallel

with either the X

or Y-axis.

with each axis aid workpiece positioning.

clamps hold the material effectively between

BECKER Vacuum Pumps

The pump is a single phase side channel high efficiency pump, which has a high build quality and low running cost. The pump comes complete with a relief valve and a 0.5 micron filter.



	Voltage	_220/240 volts 50 Hz
•	Airflow	180 m³h
•	Negative pressure _	210 mbar
•	Sound pressure leve	el 62dB(A)
•	Weight with stand ar	nd filter 32kgs
	Dimensions	375x305x430mm

The pump is a three phase side channel high efficiency pump, which has a high build quality and low running cost. The pump comes complete with a relief valve and a 0.5 micron filter.



Product Ref. __ CNC/VAC/PP/3P

Mechanical clamp for CNC/SMARTPLUS, CNC/PLUS/

Product Ref. _ CNC/PLUS/MCLA

Mechanical clamp for CNC/SMART/LITE range of

T10 and CNC/SMARTFAST machines.

Product Ref. CNC/LITE/MCLA

Product Ref. CNC/VAC/PP

Switch gear is supplied when fitted to a machine

Vacuum Table the Plus Foot foot



The three sizes of vacuum table are suitable for all of the machines. They are made from an aluminium box section assembled, capped and inter-linked with 32mm diameter pipe work. This in turn is connected to the vacuum pump. The aluminium box section is surfaced with cells constructed from Foamex strips. The larger vacuum table has 98 cells and the smaller one has 55 cells. When cutting all the way through a component, the bed can be covered with a sacrificial board of 6mm MDF which prevents damage to the main bed. The tables are supplied with a CNC program for cutting the cells, holes and sacrificial bed.





Vacuum table for CNC/PLUS/T10 and CNC/SMARTFAST machines.

Product Ref. ___ CNC/VAC/TABP Product Ref. CNC/VAC/Y1300

Vacuum table for CNC/SMART/LITE, CNC/LITE/T10 and CNC/LITE/HF machines.

Product Ref. ___ CNC/VAC/TABL

Special Build Machines

In addition to the standard range of machines, special builds are also available. Larger machines with bed sizes of 1300 x 1300mm and 2500 x 1300mm require 3 phase 440v. Servo motors and vacuum table are supplied as standard with these machines. All machines within the CNC SMART range are EN848 Part 3 compliant.

Training Packages

A full range of training packages are available.









Creative CNC Software For Artistic Design & Manufacturing | ArtCAM 2012

The ArtCAM software range provides a unique CAD modelling and CNC machining software solution to a wide variety of industries. Created for artisans over engineers, our easy-to-use and customizable cnc software range has allowed sign makers, woodworkers, engravers the freedom to design and manufacture high-quality 2D or 3D products from their artwork faster than they ever thought possible...



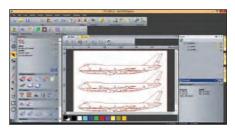
With Delcam's ArtCAM Express you can design 2D and manufacture 2D and 3D models quickly and easily. This affordable entry level CADCAM software requires little or no machining knowledge, making it the perfect option for any new router owner. Unique software tools guide you through the entire process, from conceptual sketch to the finished piece or mould. Whether you are a new or small independent company, ArtCAM Express enables you to do things such as: Engraving, Woodworking, Sign Making & many more...

What's more, ArtCAM Express lets you purchase additional features to create a fully bespoke cadcam solution for your business needs.

Product Ref. _ CNC/ARTCAM/EXP



ArtCAM Express new model screen.



Toolpath menu with tool paths added.

ArtCAM Insignia demo DVD available, please enquire.

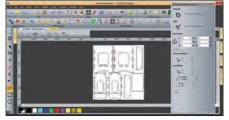






With ArtCAM Insignia you can create your own vector artwork, use ArtCAM's free vector art or import pre-created vector designs. You can then use the 3D modelling and sculpting tools within ArtCAM to make a 3D design or simply laser or CNC machine your 2D/ 2.5D design quickly and easily, all within the same CNC software.

Product Ref. _ CNC/ARTCAM/INS



Vector creation.



Create a profile toolpath.



Foam tray layout showing toolpaths for cleancut operation.



3D visual of toolpaths and menu.



With ArtCAM Pro you can design and manufacture 3D models or 3D sculpted reliefs quickly and easily. You can create highly intricate personalized or custom 3D models from 2D sketches or photographs. Unique software tools guide you through the entire process, from conceptual sketch to the finished piece or mold. Whether you are using ArtCAM Pro for woodworking, signmaking or engraving.

Product Ref. CNC/ARTCAM/PRO





Feature machining.



3D visual as full screen.



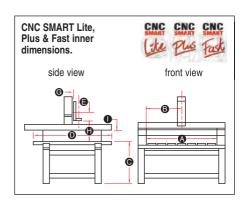


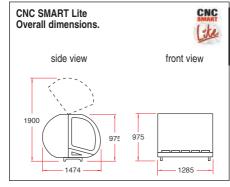






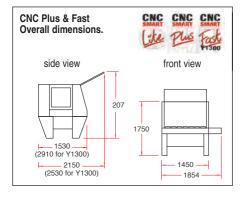
	La Sal					¥1300
Dimensions:	Product Ref. CNC/LITE/T10	Product Ref. CNC/LITE/HF	Product Ref. CNC/PLUS/T10	Product Ref. CNC/SMARTPLUS	Product Ref. CNC/SMARTFAST	Product Ref. CNC/SMART1300
Width 1285mm	1285mm	• 1854mm	1854mm	• 1854mm	854mm	• 1854mm
Depth 1474mm	1474mm	1530mm	1530mm	1530mm	2000mm	2910mm
Height door shut	975mm	975mm	1750mm	1750mm	1750mm	1750mm
Height door open	1900mm	1900mm	2075mm	2075mm	2075mm	2075mm
Specifications:		•	•			
Max. movement X-axis	600mm	600mm	860mm	860mm	860mm	860mm
Max. movement Y-axis	600mm	600mm	920mm	920mm	920mm	1420mm
Max. movement Z-axis	90mm	90mm	90mm	90mm	90mm	90mm
Max. cut feed rate X-axis	3-50mm/sec	3-50mm/sec	3-50mm/sec	3-50mm/sec	3-250mm/sec	3-250mm/sec
Max. cut feed rate Y-axis	3-50mm/sec	3-50mm/sec	3-50mm/sec	3-50mm/sec	3-250mm/sec	3-250mm/sec
Max. cut feed rate Z-axis	3-50mm/sec	3-50mm/sec	3-50mm/sec	3-50mm/sec	3-250mm/sec	3-250mm/sec
Max. non cut feed rate	50mm/sec	50mm/sec	50mm/sec	50mm/sec	250mm/sec	250mm/sec
Positional accuracy	<0.1mm	<0.1mm	<0.1mm	<0.1mm	<0.2mm	• <0.2mm
Power supply	220-230v	220-230v	220-230v	220-230v	220-230v	220-230v **
Maximum wattage	2000W	2000W	2000W	2000W	2000W	2000W
Maximum noise	85dB	80dB	85dB	80dB	80dB	• 80dB
Weight 200kg	200kg	350kg	350kg	350kg	500kg	:
Min. size doorway*	1790 x 760mm	1790 x 760mm	1790 x 760mm	1790 x 760mm	1790 x 760mm	1790 x 700mm
Spindle speed	8000-20000	3000-18000	8000-20000	3000-18000	3000-18000	3000-18000
For installation purposes. ** 440 Dimensions of P		ump.	•			•
A Maximum width of the workpiece 760mm			1070mm		1070mm	1070m
Distance from centre of head to left internal wall 105/670mm			105/965mm		105/965mm	105/965mm
Height of the table from the floor -			815mm		815mm	815mm
D Length of the table 700mm			1000mm		1000mm	1400mm
Movement of motor support b	oracket on Z-axis 1	70/245mm	170/245mm		170/245mm	170/245mm
Distance between centre of head and front of table -30/+560mm			-30/+890mm		-30/+890mm	-30/+1270mm
G Distance between centre of head and Z-axis 105mm			105mm		105mm	105mm
Distance between motor support and table 114/278mm			114/278mm		114/278mm	114/278mm
_						•





225mm

225mm



225mm

225mm

Distance between X-axis and table



CNC MACHINING

For our full range of CNC Cutting Tools, please see our Industrial Tooling Catalogue or visit our website:

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Demonstrations

Contact your CNC supplier for a full demonstration.

A full range of financial packages are available including lease purchase and hire purchase. Details on request.