SNIC
SOCIETE NAHAS POUR L'INDUSTRIE ET LE COMMERCE

CNC Stone Center

SNM-SC1200

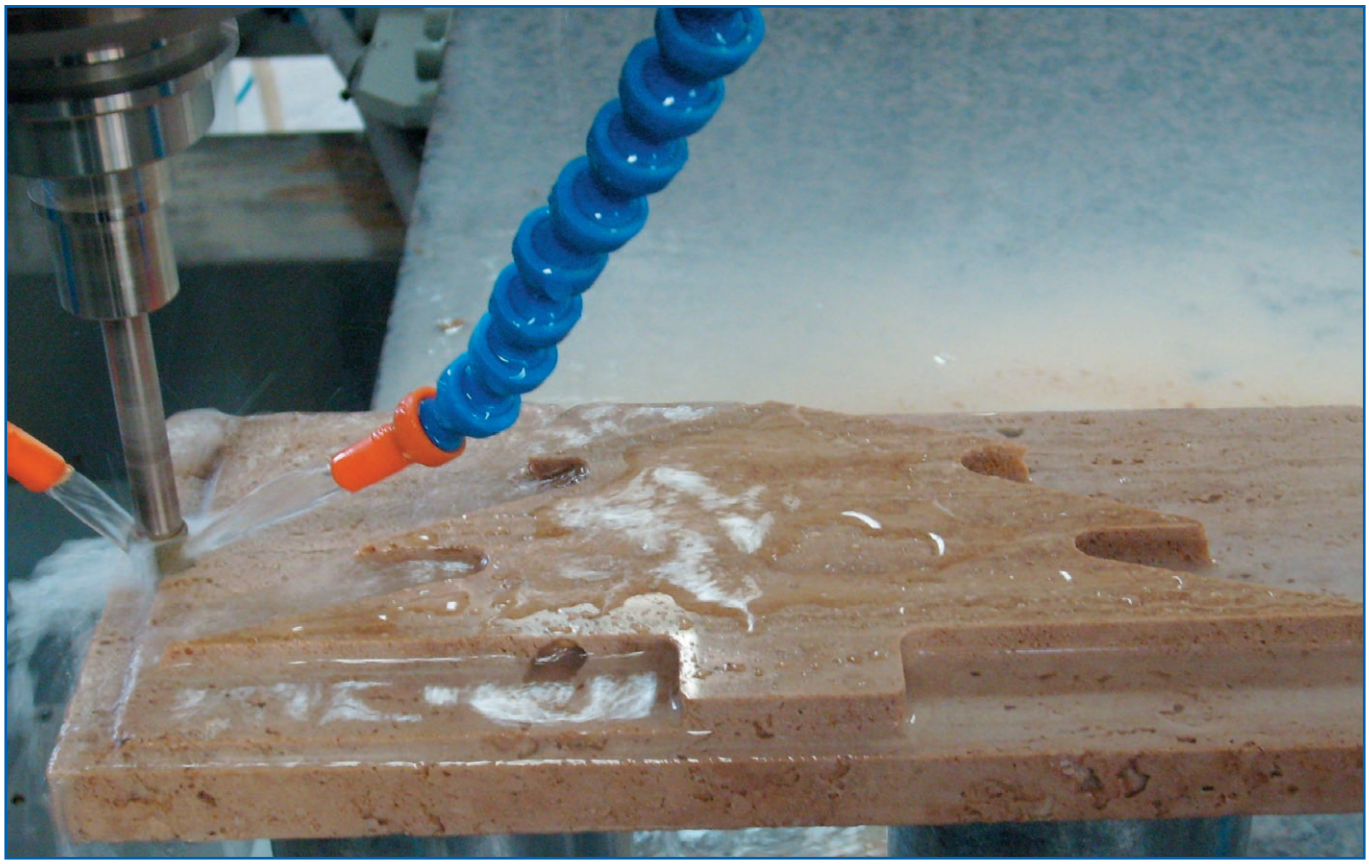
Machine characteristics

The SNM-SC1200 is a technically advanced 3 axis CNC machine.
It has a fixed bridge structure, with a mobile carriage and table, made as a single strong and solid unit with no need for special foundation structure when installed.

General characteristics

The SNM-SC1200 has a 14 automatic tool changer. It is fast, and easy to program for marble, granite and stone. It is capable of carrying various types of jobs using either tools or disks.
With the SNM-SC1200 it is possible to engrave, write, carve, shape, cut and drill. It is the ideal machine for making kitchen tops and pocketing.

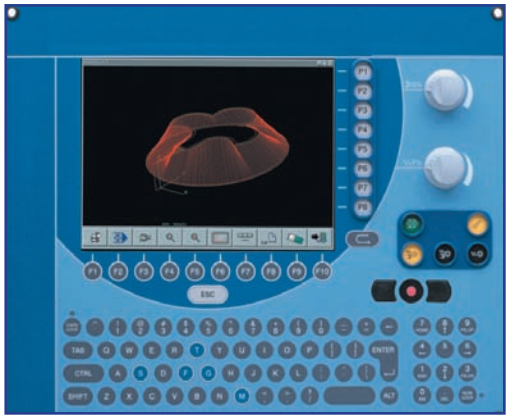
- The 3 interpolated axis motion is done by brushless motors coupled with extremely precise reduced-backlash reduction gears.
- The table sliding device is working in an oil bath to reduce friction and is protected by stainless steel covers.
- The carriage works on hard chrome axes coupled to low friction Teflon slides protected by bellows.
- The machine X, Y and Z axes move with a high precision rectified ball screw.



The CNC

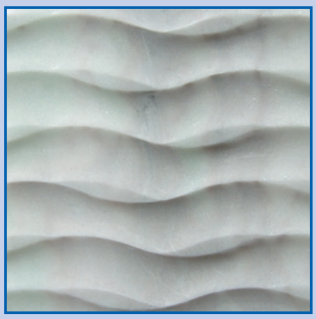
The SNM–SC1200 CNC stone center is equipped with the latest CNC with the following features:

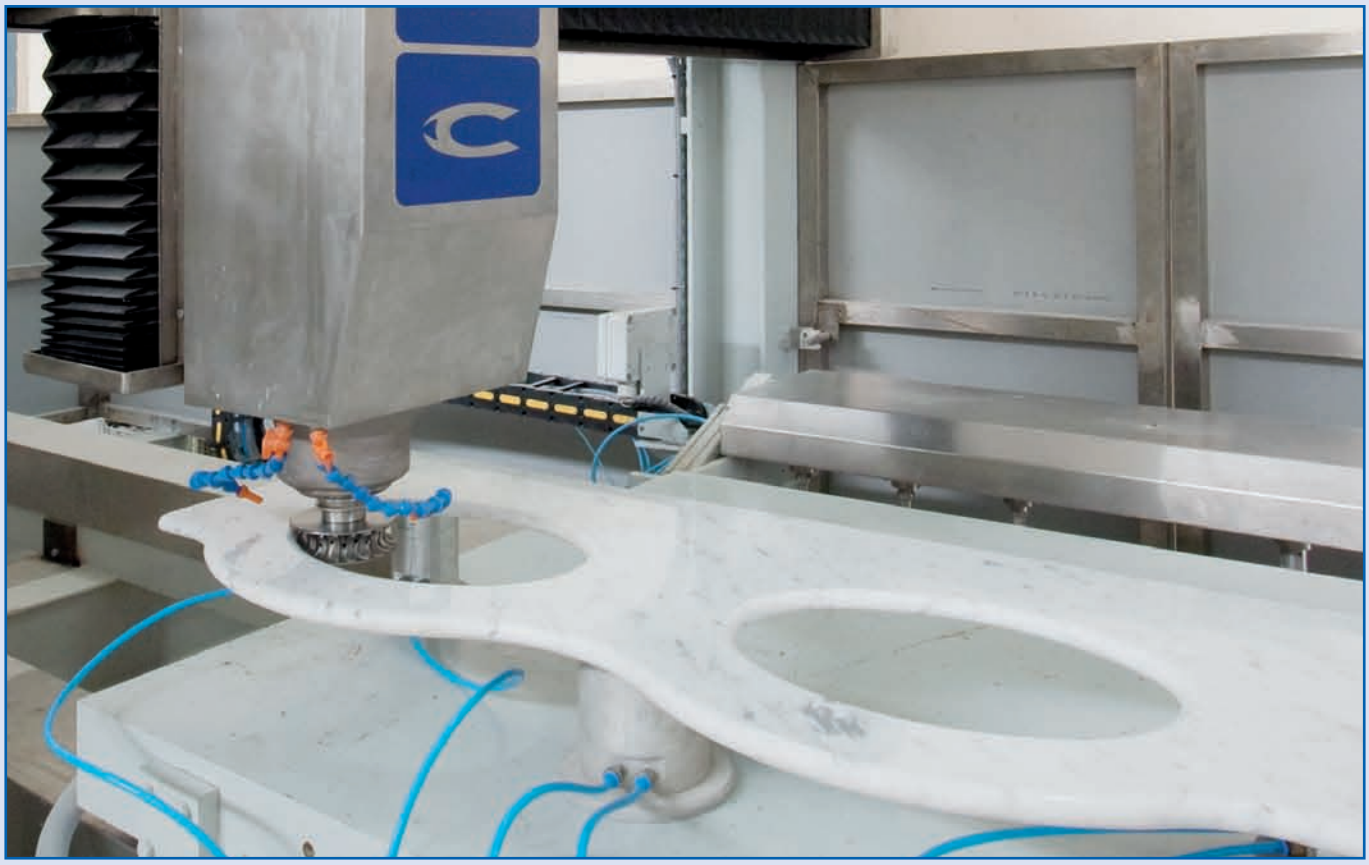
- 3 interpolated axis control + 1 controlled spindle.
- 1 Hand-wheel directly connectable to the operator panel.
- 2 overrides (feed and spindle rotation).
- Man / Machine interface, which has been developed in a Microsoft Windows environment, is extremely user-friendly and intuitive. The different functions available can be selected by using soft keys that are associated with toolbar icons depending on the operational context.

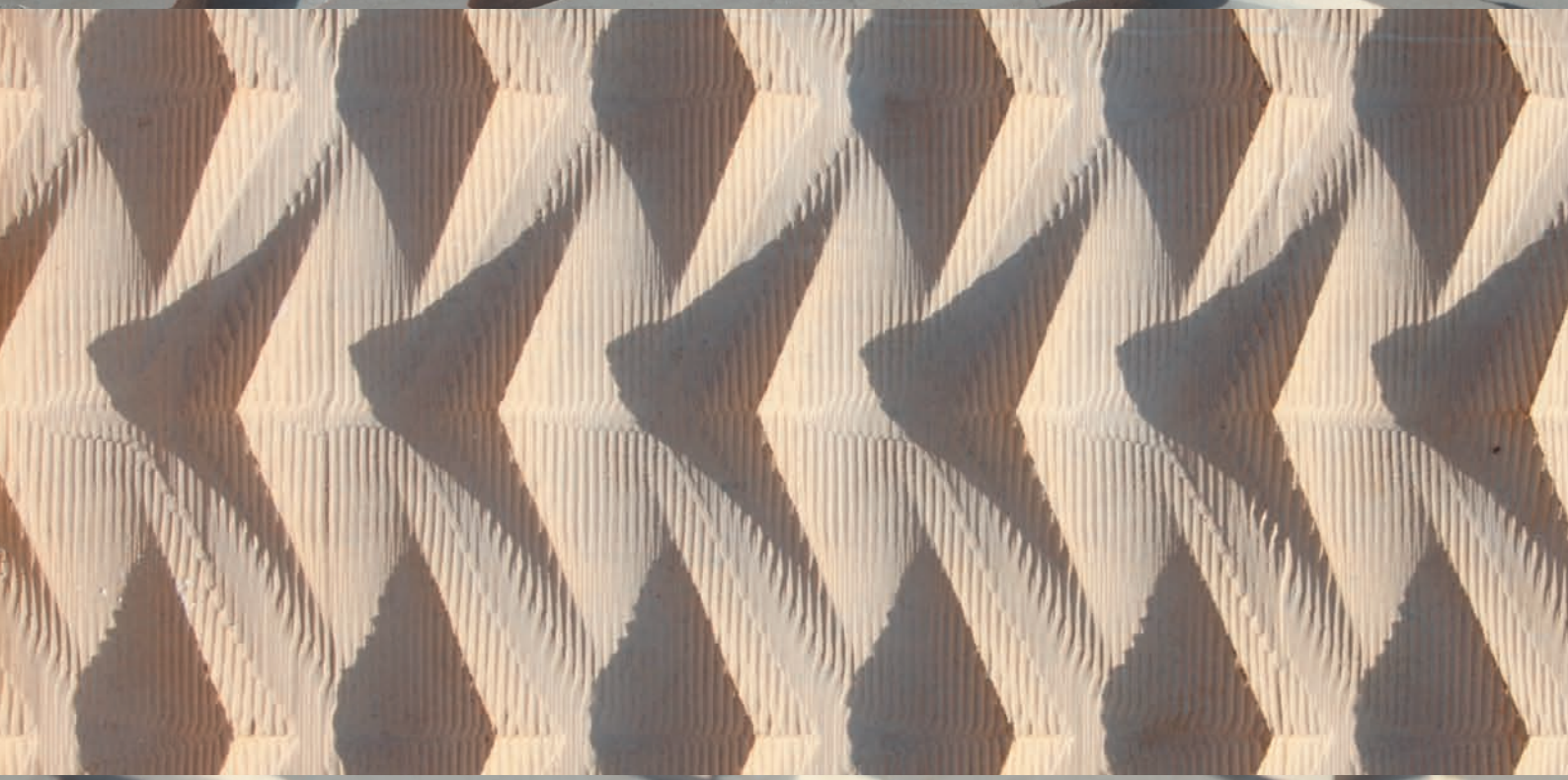


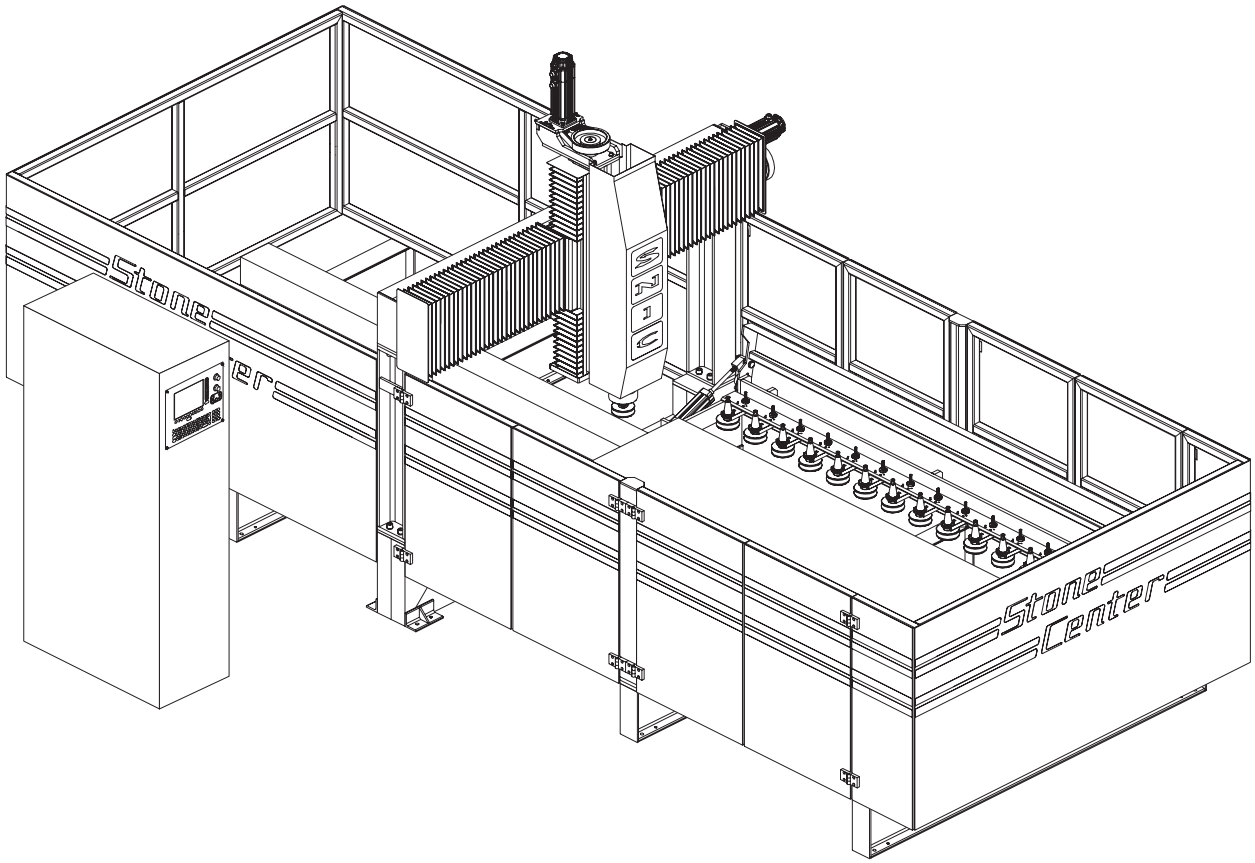
The Software

- Alphacam is one of the leading and most established suppliers of CAD/CAM software for the stone industry. The Alphastone modules have been specifically developed to address the unique challenges encountered when machining marble and stone.
- AlphaStone gives the user the ability to define any type of cutting tool, from disk cutters with programmable guards to ball end and user defined form tools. Alphacam automatically calculates the programming point of each tool from the material contact point.
- 2.5D and 3D profiles can be quickly and efficiently roughed using disk cutters, taking into account any stock material. This is particularly useful when roughing wash basin and bath tub shaped features.
- The marble module has the ability to import bitmap format art work and convert these images into 3 dimensional machining moves.
- STL files can also be imported and machined, making links to 3 dimensional laser scanners easy.
- There is full core drill support for both 2 and 3 dimensional material removal and depths of cut are automatically detected as well as tool path depth limitations.









Technical characteristics

X axis stroke (table)	2800 mm
Y axis stroke (carriage unit)	1500 mm
Z axis stroke (carriage unit)	480 mm
Table dimensions	2.8 meters x 1.2 meters
Tool-holder spindle motor power	10 Hp
Rotation speed of the tool-holder motor	8000 rpm
Spindle motor cone size	ISO 40
Automatic centralized lubrication for the ball screws and carriage slides	Oil
Electronic hand-wheel	Yes
Water requirement	20 liters / min
Compressed air pressure	6 bars
Max. total absorbed power	15 Kw
Overall dimensions: Length x Width x Height	6.6 meters x 3 meters x 3 meters
Approximate total machine weight	5.5 tons
Maximum weight on table	2 tons
Vacuum pump	Optional
Laser device	Optional
Automatic tool changer	14 tools

SNIC reserves the right to improve the product specifications and designs at any time without prior notice. Therefore, data provided in catalogues is indicative and approximate.

SNIC
SOCIETE NAHAS POUR L'INDUSTRIE ET LE COMMERCE

P. O. Box 90-1159
Beirut
Lebanon

Phone (961-1) 890 696 / 878 800
Mobile (961-3) 652 781 / 2 / 3
Fax (961-1) 878 801

Website www.snic.net
Email snic@dm.net.lb