

# Fabrication Studio for CNC Laser Cutting

## Taller de Fabricación con Corte Láser CNC

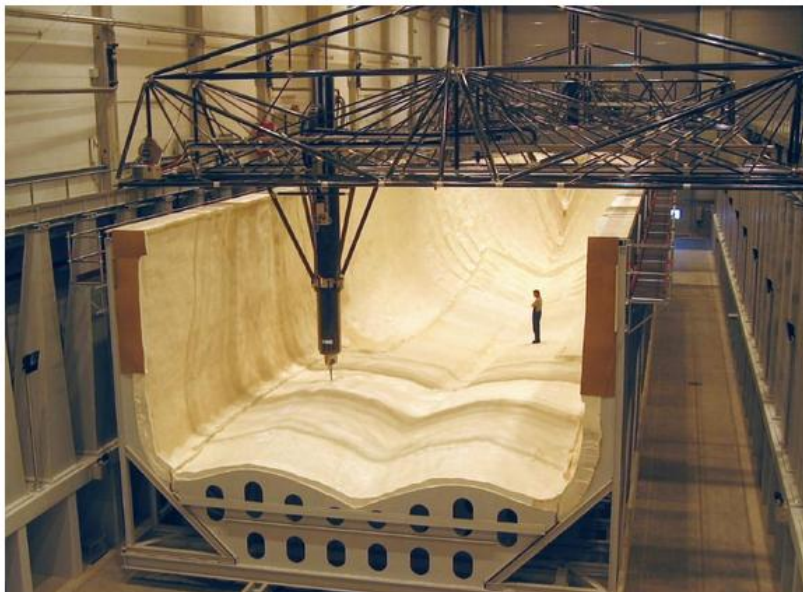
Calendar Tutors

### CNC Machines

#### Over 100 metres reach lets CNC machine

Posted by Roberto Gonzalez May 8, 2012

A large and precise 5-axis CNC machine is available for cutting positive and negative molds for large turbine blades. The robot or gantry, called HSM-Modal, comes from EEW Maschinenbau in Germany. It can mill 1:1 scale negative and positive molds for rotor blades that are 50 m and more, and in one single piece. The X-axis the on machine can span 151 metres. The machine also trims blades, and soon, it will lay glass-fiber mates into negative molds.



The HSM-Modal can be equipped with various tools: milling, sawing, drilling, grinding, polishing, digitising, extruding, laminating, jet cutting, plasma cutting, ultra sonic cutting.

A few other features include:

- A feed rate of up to 150 m/min. This milling speed is faster than common large 5-axis machines.
- The axes are available in ranges of 3 to 151 m for the X, 3 to 9 m for the Y, and 1.75 to 4.25 m for the Z axis. Hence, a right-sized machine is available for the blades being considered.
- Accuracies are  $\pm 0.2$  mm in X and Y axes, and  $\pm 0.17$  mm/m in the Z.
- The machine's light weight calls only a 200-mm thick reinforced concrete floor.
- Various CAD and CAM programs are compatible with the machine. Thus, new and more software is usually unnecessary. A post processor for the gantry can be supplied on request.
- Employee training can be carried out in a short period and at reasonable cost.

#### FABRICATION STUDIO for CNC LASER CUTTING



Universidad Europea de Madrid – Escuela de Arquitectura – Departamento de Proyectos y Representación de la Arquitectura

A workshop with 5 complementary modules to learn how to fabricate your own design objects using a CNC Laser Cutting machine. The modules are of free choice. The workshop will take place in UEM Villaviciosa de Odón from March 16th till June 1st 2012, during 10 Fridays and 2 Saturdays. It is possible to validate this course for a total of 6 ECTS.

Taller compuesto de 5 módulos complementarios, donde aprenderás a fabricar tus propios diseños usando una cortadora láser CNC. Los módulos son de libre elección. El taller tendrá lugar en el campus UEM Villaviciosa de Odón, entre el 16 Marzo y 1 Junio 2012, en total 10 viernes y 2 sábados. Es posible convalidar este curso por un total de 6 ECTS.

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#### Applications

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#### Fabrication

RhinoFablab.com



Technical information about machine HSN-Modal here



## One Response

Prof Psul Vanherck  
2012/06/03

Gentlemen  
Could I receive some more information?  
Paul

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<http://uemfab.blog.com/2012/05/08/over-100-metres-reach-lets-cnc-machine/>