



## ***PRESS RELEASE***

# **NCG CAM v13 is Officially Released Download a Demonstration Version Now**

NCG CAM Solutions Ltd, UK officially released NCG CAM v13 on 7<sup>th</sup> February 2013. This major release includes a number of new features including helical machining, the ability to cap holes, shaft profile export, optional origins, the ability to save values in the edit transform dialogue, the ability to pick a surfaces' colour and make other surfaces the same colour, tapping with chip break, the ability to use lollipop and dovetail cutters for 5-axis surface machining, as well as many enhancements including improvements to the rest machining and waterline linking strategies.

A demonstration version of NCG CAM v13 is now available to download:

<http://www.ncgcam.com/demorequest.html>.

In **NCG CAM v13**, **helical machining passes** are a new feature. These passes are generated from a set of horizontal slices, which cut through the surface geometry. The profiles that are created are then joined in a continuously descending ramp, which follows the surface data between the profiles.

Helical passes are expected to be used for semi-finishing and finishing routines. They will reduce the witness lines between Z-level passes, when using waterline passes. The load on the cutter will also be more consistent compared to waterline passes during the linking move down to the next level.

A new feature has been added so that **circular holes in the triangulated model data can now be capped, including holes that span across different surfaces.**

. There are two options available with this new feature:

- Either a circular planar patch can be created at the upper limit of the hole
- Or for holes that pierce a 3D form, a patch that follows the surface edge can be generated.

Both methods use a detected holes plan and allow for either, the top, the bottom or both ends of the hole to be capped. Often a surface on a part will have holes in it (screw holes, ejector / core-pin holes). Capping the hole

will allow the user to just machine over the top of them, without dropping down the hole. This will give a smooth machine motion, compared to trying to machine around the hole.

A new feature has been added that allows the results of enabling the **'Shaft Profile' to now be exported** as a .csv file format. This data can then be used as a template to turn a custom tool holder that allows clearance with the part to be kept to a minimum, providing a more robust tool-holder.

Having **optional origins** is a new feature that allows single points to be converted to datum points. These may then be passed as inputs to machining plans, when required for post-processing.

The **ability to save values in the edit transform dialogue** now allows the user to save either a single or a combined set of transformations to re-use in another plan or even another database. Selecting 'Save' in the transform dialogue saves the current set of transformations into a pull-down menu; the user can then accept the default name or supply a name that is more suitable. Selecting a saved transformation from the pull-down menu and then selecting 'Load', restores the saved transformations and adds them to the current transformations list.

The **ability to pick a surfaces' colour and make other surfaces the same colour** now allows it to be possible to select other surfaces and apply the remembered colour to them. This makes it easier for the user to change the colour of numerous different surfaces to be the same as an existing colour.

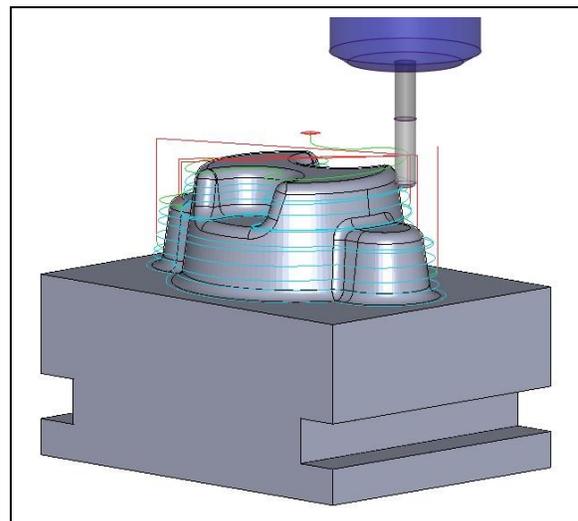
**Tapping with chip break** will allow users with suitable machine tool controllers that support this feature (Heidenhain Cycle 209 and others) to implement a 'Chip Break' within the 'Tapping Cycle'.

5-axis machining operations are now able to use **Lollipop and Dovetail cutters**. Both of these cutter types, will allow the machining of undercut surfaces.

Many other enhancements have also been added in **NCG CAM v13**, including significant improvements to the **rest finishing** and **waterline linking strategies**.

## Picture – NCG CAM V13

*Right – Helical Machining*



## About NCG CAM Standalone 3D HSM CAM Software

**NCG CAM** is stand-alone CAM system offering an easy to use HSM CAM solution that integrates with existing CAD and CAM systems.

**NCG CAM** boasts many innovative features. It is suitable for all types of forms, creating an optimised, smooth cutter motion ideal for 3D HSM, which will help to extend tool life, minimise wear on the machine tool and producing parts with an excellent surface finish.

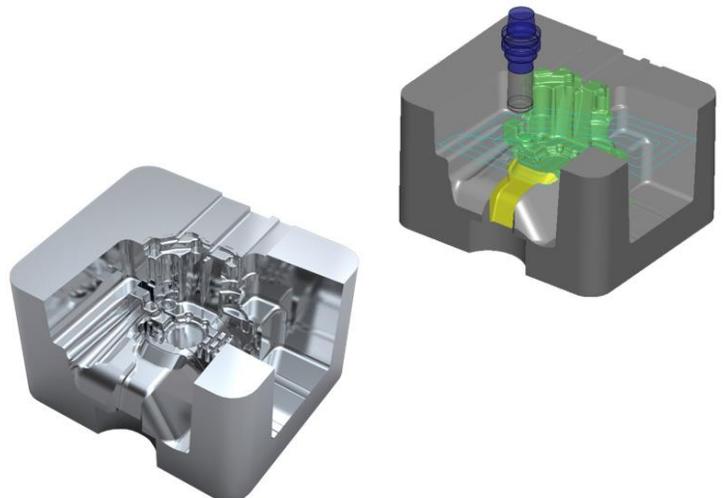
**NCG CAM** has a very user-friendly interface, with a typical learning curve of just 1 day is required to machine a live job. It is perfect for the high-speed machining of moulds, dies, prototypes and precision surface machining.

### Features:

- Very user friendly interface – making it suitable for even occasional users
- **NCG CAM** offers many advanced 3D machining routines, rest roughing & 3 + 2 capabilities for all tool-paths, a simultaneous 5-axis add-on module is available
- Fast and efficient roughing strategies, including core roughing and adaptive clearance
- Comprehensive drilling routines – includes automatic hole detection and / or user defined holes
- All machining routines are fully gouge protected for both the cutter and the tool holder
- Rest area option for finishing strategies to minimise any air cutting
- Available as both 32-bit & 64-bit versions (both are multi-threaded)

### Key Benefits:

- Stand-alone CAM software that is compatible with **ANY** other CAD package
- Extremely easy to use with just 1 day's training required to machine a live job
- Ideal for shop-floor programming
- Gouge protection for cutters and holders
- All post-processors are written in-house
- Powerful 3D machining
- Tool-paths optimised for HSM
  - Increased efficiency
  - Reduced wear on machine
  - Extended tooling life
- Saves time and money!



A demonstration version of the **NCG CAM** software, is available to download - <http://www.ncgcam.com/demorequest.html> . The demonstration version of **NCG CAM** has unlimited usage and while there are restrictions to the machining output, it can also be used in its basic form as a **FREE** .iges viewer.

## **About NCG CAM Solutions Ltd**

Established in Cambridge, UK, **NCG CAM Solutions Ltd** provides CAM software solutions, offering all the tools needed to manufacture prototypes, models, moulds, dies, patterns and finished products. Our specialist area is 3D HSM CAM with our product **NCG CAM**.

All our staff have a wealth of CAM experience, having worked in the CAD/CAM and engineering industry for many years. In particular, every member of our support team has worked on the shop-floor using CAM software on live jobs, enabling us to provide an excellent back up and support service for the software.

Established in June 2009, NCG CAM Solutions Ltd has a rapidly growing global reseller base, with resellers for NCG CAM in UK, Germany, Spain, Netherlands, Slovenia, Slovakia, Hungary, Czech Republic, Romania, Bulgaria, Serbia, Croatia, Norway, Turkey, India, Ukraine, Russia, China, Taiwan, Hong Kong, Japan, South Korea, Thailand, Vietnam, Australia, Mexico, Brazil, South Africa and across USA.

To contact a reseller or to download the demonstration version of **NCG CAM**, visit [www.ncgcam.com](http://www.ncgcam.com) . Alternatively contact Estelle Dunsmuir for more information – [estelle@ncgcam.com](mailto:estelle@ncgcam.com) or call +44 (0) 1223 236408 / +44 (0)1353 699840.

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