

# Productive SolidCAM

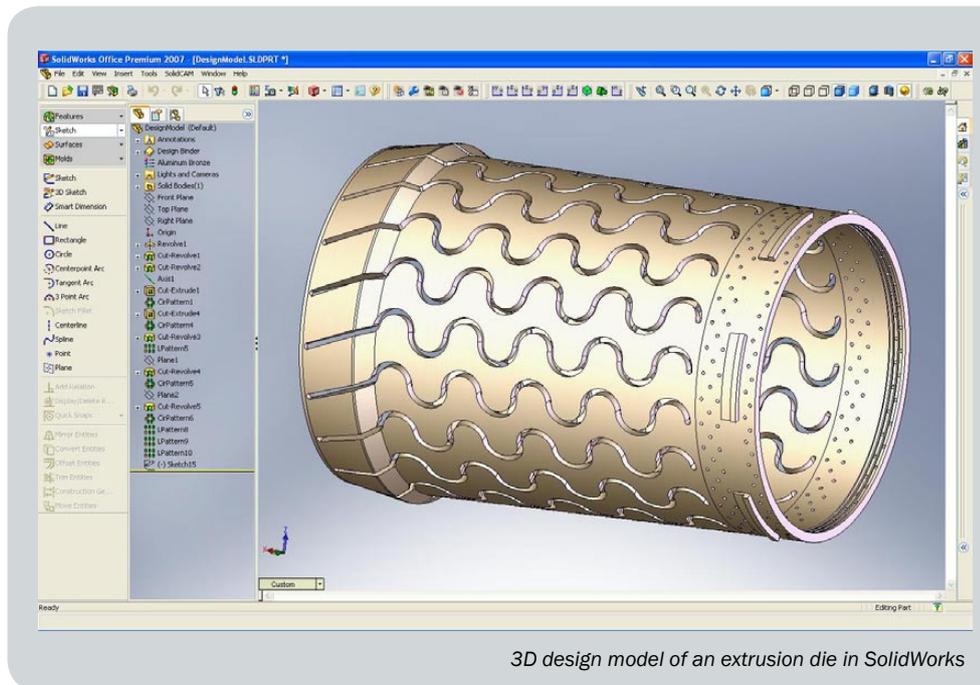
## RACING AGAINST TIME

The Turkish company BASAR MAKINA has been founded in the year 1961 in Beylikduzu, Istanbul (Turkey) by Yasar Basar. The company started with the manufacturing of machine equipment for the food and textile industry. Later this business has been extended to the manufacturing of complete production lines. BASAR MAKINA has built many of the tea factories at the Black sea side of Turkey.

Due to the increasing demands of the plastic industry in Turkey, the company started to supply also equipment for plastic pipe production lines. These pipes, made of Polyethylene, are used for example for waste water conduits. BASAR MAKINA, which is now managed by Yasar Basar's son Cemal, not only became a well-known supplier of extrusion dies for plastic pipe manufacturing, but meanwhile also manufactures complete production lines for specialized plastic pipes.

In the first years, design work had been done manually, which needed often weeks and months to finish. With the introduction of the CAD technology, BASAR MAKINA speeded up the process by utilizing the 2D CAD system AutoCAD, which became a well accepted solution for a couple of years.

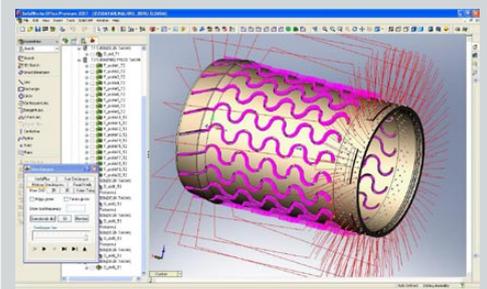
However with the increasing complexity of the products, BASAR MAKINA took the next step by migrating from the 2D CAD system to an integrated 3D CAD/CAM system. After evaluating several systems, the design and manufacturing team finally decided for the combined solution SolidWorks+SolidCAM. The ease-of-use, power and seamless single-window integration of CAD and CAM convinced the whole team: "With SolidWorks, we have a mainstream CAD platform that enables us to design complex extrusion dies efficiently. SolidCAM is seamlessly integrated in SolidWorks so that our programmers can operate in the same window. In case we have to modify the design, we can update our CNC programs automatically".



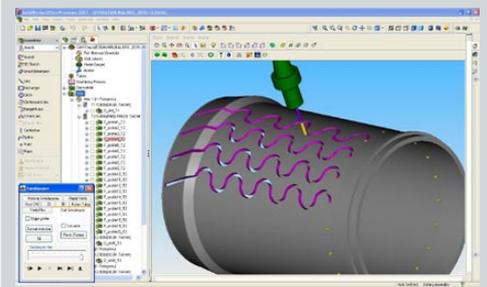
3D design model of an extrusion die in SolidWorks

In the year 2005, the first seats of SolidWorks+SolidCAM have been installed. Very soon, the CNC operators could generate the G-Code for the JOHNFORD SC-41 CNC Milling center. Serhat Altintas from BASAR MAKINA states: "The most important point of SolidCAM is the ease-of-use: due to the single-window integration, a CAD user with no previous CAM experience can generate the G-Code in a very short time. We had no experience in CAM software before, but after 3 days training, we were able to manufacture all our parts without any problem using SolidCAM."

For BASAR MAKINA, the associativity between the 3D design model and the corresponding toolpaths is a key element. When the geometry of the 3D design is modified, SolidCAM enables the user to automatically synchronize all machining operations with the updated geometry. Safak Kodaman, CNC Operator at BASAR MAKINA, concludes: "The associativity is an important time saving factor, as we modify our parts relatively often. The time we save is our most relevant competitive advantage. Due to the power of SolidWorks in 3D design and short



NC-Programming of an extrusion die with SolidCAM



SolidVerify simulation with SolidCAM



Finished extrusion die out of brass material

## SolidCAM

Founded in 1984 by its Managing director Dr. Emil Somekh, SolidCAM provides manufacturing customers with a full suite of CAM software modules for 2.5D and 3D Milling, High-Speed Machining, Multi-sided Indexial 4/5 axes Milling, Simultaneous 5 axes Milling, Turning, Turn-Mill up to 5-axes and WireEDM. SolidCAM has the Certified Gold-product status from SolidWorks and provides seamless, single-window integration and full associativity to the SolidWorks design model including parts, assemblies and configurations. SolidCAM has today more than 12,000 seats installed. The company has been on a very rapid growth path since it implemented the SolidWorks integration strategy with annual growth rates over 30%. SolidCAM is sold by a worldwide reseller network in 46 countries.

[www.solidcam.com](http://www.solidcam.com)

programming time of SolidCAM, most of the manufacturing work, which took weeks in the past can now be finished in 3-4 days... We really love SolidCAM and our decision to select SolidWorks+SolidCAM has been the right choice."

The SolidWorks+SolidCAM solution has been supplied to BASAR MAKINA by the Turkish reseller Tekyaz, located in Istanbul. Ahmet B.KULDASLI, SolidCAM product Manager of Tekyaz, summarizes: "The manufacturing industry in Turkey today is booming. This

generates demand for leading-edge, integrated CAD/CAM solutions like SolidWorks+SolidCAM, provided by Tekyaz. However we not only provide manufacturing software but also support our customers by providing training, post processor customization and other professional services. BASAR MAKINA's success is also the result of the excellent cooperation between the customer and the solution provider."



Ahmet B.KULDASLI, SolidCAM Product manager of Tekyaz

## TEKYAZ (Teknolojik Yazilimlar ve Makine Tic. A.S.)

Teknolojik Yazilimlar ("TEKYAZ") is authorized reseller of SolidWorks, SolidCAM and Moldflow software in Turkey. TEKYAZ is the leader in manufacturing software with nearly 30 employees and more than 15 years experience in the industry. The company's main office is located in Istanbul and it has 4 additional branch offices in Ankara, Izmir, Bursa and Konya. In addition, Tekyaz has sales partners in Izmir, Adana and Kayseri. TEKYAZ provides different levels of training and support for its industrial and educational customers in the Istanbul headquarters.

"Teknolojik Yazilimlar ve Makine Tic. A.S." has been founded in 2007 as a dedicated CAD/CAM/CAE solution provider as a spin-off UMTAS A.S.. In the years before (1996 – 2006), the team of TEKYAZ formed the CAD/CAM/CAE department of UMTAS, supplying design and manufacturing software and related services to the Turkish industry. By offering training in state-of-the-art equipped classrooms, TEKYAZ contributes directly to shorter lead times and increased efficiency in production.

[www.tekyaz.com](http://www.tekyaz.com)



The final products: Polyethylene pipes

