



DIGITAL INDUSTRIES SOFTWARE

# Digital Part Production

Master the precision of the perfect part with Highly Automated CAM

[siemens.com/plm/dpp](https://siemens.com/plm/dpp)

**SIEMENS**

#### Trend #1

**Consumer-driven demand for highly customized, high precision parts increases product complexity.**



#### Trend #2

**Smart manufacturing, explosive growth in the number of industrial machines connected via the Internet of Things (IoT).**



#### Trend #3

**Hyperautomation, ability to leverage the possibilities of machine learning and reuse key data.**



#### Trend #4

**Global competition, flexible, agile start ups increase pressure on OEMs and squeeze profit margins.**



To stay on top in today's highly competitive industrial machinery industry, manufacturers need new, cloud-based solutions to deliver record-breaking **innovations** at any time, from anywhere.

The increasing demand for **highly customized, highly complex products** that are designed to meet customer's specific needs means OEMs must embrace advanced technologies and the benefits they can offer **to increase efficiencies**.

Thanks to **IoT** and the rise of **smart manufacturing**, they now have access to more data than ever before. The key to this success lies in knowing how to integrate and reuse cloud-based data, to improve products and processes and incur significant cost-savings.

New, low-cost providers have entered the market, such agile start-ups are able to develop innovative products that **leverage new technologies, increasing global competition and pushing down prices**.

Faced with such challenges, how can you adapt and continue to thrive?

Siemens offers **comprehensive, cloud-based solutions** designed to help manufacturers deliver the **high-precision parts** needed today. They enable you to **optimize machining processes to deliver consistent results, improve quality and reduce time-to-market**, so you can **thrive** in even the most competitive of markets.

#### Key drivers



Customization and smaller lot sizes drive costs up.



Need for high precision parts to ensure throughput, reliability and quality.



Machines must be smart, connected and make use of advanced technologies.



Global competition and low-cost providers are squeezing profit margins and lead times.

# Drive efficient end-to-end manufacturing with innovative technologies

## Fully merge your digital and physical processes with Highly Automated CAM

To efficiently manufacture today's increasingly complex parts, manufacturers require Computer-Aided Manufacturing (CAM) software. With Digital Part Production's Highly Automated CAM you gain feature recognition so that you no longer have to manually select features when programming CNC machining tools, dramatically reducing your programming time.

### Automate to accelerate production.

With rising customization, you have to produce more configurations than ever, **automating NC programming** makes you more agile so you can **get your products to market faster**.

### Automate to differentiate.

To produce high-precision, **high quality parts** and **achieve a new level of part manufacturing** that will allow you to **stand out from the competition**, it is necessary to take advantage of **innovative, advanced machining technologies**. Highly Automated CAM creates the complete machining process, for even the most complex parts, **to deliver consistent results and improve quality**.

### Automate to reduce waste.

With **Highly Automated CAM** you gain a powerful digital thread that seamlessly connects the **entire production operation from end-to-end**. Do away with data transfers between multiple software programmes that can lead to **costly errors and waste**.

### Automate to improve communication.

With **cloud-based systems** from engineering to production, you **increase design flexibility and improve collaboration** across the organization; all teams have access to the same information in real-time.

### Automate to optimize processes.

Highly Automated CAM facilitates the capture and reuse of data, helping to creating a continuous feedback loop that enables you to gain insights into manufacturing processes. **Leverage machine learning to optimize machining, enabling you to shorten cycle times and improve part quality**.



Reduction of NC programming time



Part quality improvement



Production efficiency gains

Siemens Digital Part Production solution leverages superior Highly Automated CAM technology allowing machine builders to easily re-use proven data to automate programming and optimize machining processes to deliver consistent results which improve quality and reduce time to market.



# It's time to master the precision of the perfect part!

In today's highly competitive market manufacturers need more than just CAM software to streamline their design and manufacturing processes and produce highly finished goods faster than ever. They need a comprehensive end-to-end manufacturing solution to optimize machining processes and deliver consistent results. Digital Part Production's Highly Automated CAM technology allows you to produce high-precision parts while benefiting from innovative technologies.

## Now its your turn to...

Gain operational efficiency and accelerate part manufacturing with automated NC programming.

Deliver consistent results, improve part quality and reduce errors leveraging advanced machining technologies.

Shorten cycle times with automated transitions and single pass material removal.

Improve cross-team collaboration, cut data transfers and avoid data loss or duplication.

Improve design flexibility, connect the entire production operation and reduce time to market.

Store and re-use data, gain insights to improve future processes with a continuous feedback loop.



## About Siemens Digital Industries Software

Siemens Digital Industries Software is driving transformation to enable a digital enterprise where engineering, manufacturing and electronics design meet tomorrow. Xcelerator, the comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software, helps companies of all sizes create and leverage a comprehensive digital twin that provides organizations with new insights, opportunities and levels of automation to drive innovation. For more information on Siemens Digital Industries Software products and services, visit [siemens.com/software](https://siemens.com/software) or follow us on [LinkedIn](#), [Twitter](#), [Facebook](#) and [Instagram](#). Siemens Digital Industries Software – Where today meets tomorrow.

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