



**Heinrich Georg  
Maschinenfabrik GmbH—  
SINUMERIK ONE VC  
Consulting & Training**

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# Heinrich Georg GmbH – SINUMERIK ONE Virtual Commissioning Services allows fast qualification on the project




<b>Customer information</b>	<ul style="list-style-type: none"> <li>• Heinrich Georg GmbH Maschinenfabrik</li> <li>• Machine builder</li> <li>• Germany, Kreuztal</li> <li>• Engineer to order machines for milling, turning, grinding and drilling</li> </ul>
<b>Customer objectives</b>	<ul style="list-style-type: none"> <li>• First commissioning with SINUMERIK ONE before the real hardware existed</li> <li>• Avoid risks of damage on the real machine during the commissioning</li> <li>• Testing completely new SINUEMERIK Configuration</li> <li>• Qualification for the further self-reliant usage of the Software-in-the Loop solution for SINUMERIK ONE</li> </ul>
<b>Siemens' solution</b>	<b>SINUMERIK ONE Virtual Commissioning Consulting &amp; Training</b> <ul style="list-style-type: none"> <li>• Analysis of customers project requirements</li> <li>• Development of solution concept</li> <li>• Training of Virtual Commissioning solutions tailored to the customer project</li> </ul>
<b>Customer value</b>	<ul style="list-style-type: none"> <li>• Prototype implementation of the digital twin already within the training</li> <li>• Testing environment for new automation and technologies for the new SINUMERIK ONE without any risks inside the digital twin</li> <li>• Consistency of products and services for SINUMERIK Virtual Commissioning</li> </ul>




**Customer's drivers and goals**



Qualification



Sustainability



Reduce costs

# Heinrich Georg Maschinenfabrik GmbH – SINUMERIK ONE Virtual Commissioning Services Customer Values

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*Ingenuity for life*



## Customer's driver

- 1 Upgrade the controller for future machine tools from SIMUMERIK 840Dsl to the new SINUMERIK ONE and improve the machine development
- 2 Overview about the opportunities with SINUMERIK ONE Virtual Commissioning and the best way for the project realization
- 3 Qualification on the new SINUMERIK ONE Virtual Commissioning solution



## Siemens Solutions

- 1 **SINUMERIK ONE Virtual Commissioning Software-in-the-Loop**



- 2 **SINUMERIK ONE Virtual Commissioning Consulting**



- 3 **SINUMERIK ONE Virtual Commissioning Training**



## Customer value

Development and validation of new controller configuration (PLC, NC, HMI) using the risk-free Virtual Commissioning environment before the machine and hardware was available

Preparation of solution concept based on best practice examples and the analysis of the customers project.

Fast prototype development and qualification for Virtual Commissioning within a tailored workshop for the customer specific project

# SINUMERIK ONE Virtual Commissioning Services

## The fast & flexible way to the digital twin of the machine

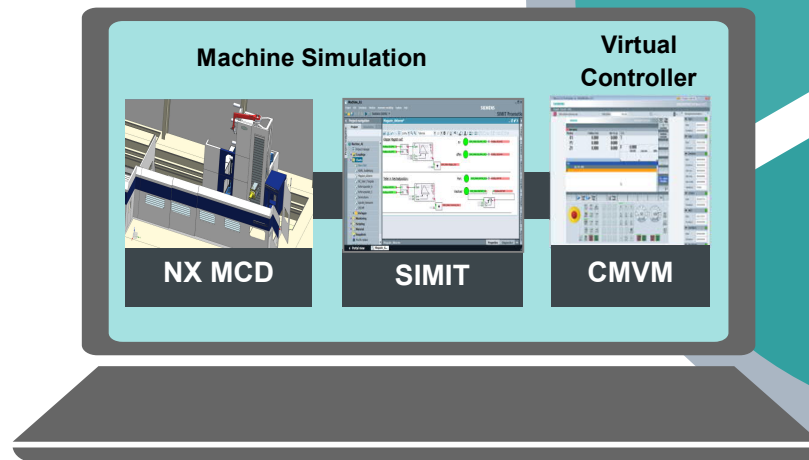
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Analysis of project-specific commissioning requirements regarding the applicability of virtual commissioning

SINUMERIK ONE  
Virtual Commissioning  
**Consulting**

Establishment of competencies in virtual commissioning at customers' premises

SINUMERIK ONE  
Virtual Commissioning  
**Training**



SINUMERIK ONE  
Virtual Commissioning  
**Implementation**

Implementation of virtual commissioning to identify and rectify potential errors at an early stage

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