

## INDUSTRIAL EQUIPMENT **SINGLE MACHINING SOURCE**

Accelerate Machining Programming

### **INCREASE SPEED AND PRECISION DURING MACHINE PROGRAMMING**

*Single Machining Source for the Industrial Equipment industry delivers a global manufacturing solution specifically designed to support high-end machining needs.*



*Single Machining Source* accelerates and helps optimize machining operations through the use of integrated digital simulation capabilities. Through early virtual visualization, companies can more easily generate the optimal tool paths for all their milling and lathe operations. This improves machining quality and reduces waste, costs and delays. With higher part quality and on-time delivery, they secure customer satisfaction and loyalty.

*Single Machining Source* is available on premise and on cloud.



## INDUSTRY CHALLENGES

- How can we reduce scrap and waste during machining operations?
- How can we improve the quality of the machined product?
- How can we be sure machining is updated when design changes are made to the part?

## SOLUTION HIGHLIGHTS

- Creates and helps validate milling and lathe operations.
- Automatic generation of drilling and milling features through feature recognition.
- Easy programming of complex, multi-cavity parts from roughing to finishing.
- Automatic generation of tool changes with multiple spindles and turrets.
- Integrated machine simulation capabilities with material removal and NC code generation.
- Automatic generation of machine rotations for balance turning.
- Consistently apply and enforce quality processes, with real-time visibility delivered to users from the plant floor to the executive office

## SOLUTION VALUES

- Easy visualization and simulation of tool changes and machine rotations improves machining quality and helps minimize scrap.
- Accelerates machine programming from roughing to finishing.
- Direct link to 3D data and feature recognition allows automatic generation of drilling and milling features thereby reducing tool path programming cycles.
- Easy access to unique referential of design and manufacturing data enables users to efficiently create, improve and validate 2.5, 3 or 5 axis and turning programs.

## SINGLE SOURCE FOR SPEED

*Single Machining Source* is part of *Single Source For Speed*, a Dassault Systèmes Industry Solution Experience based on the 3DEXPERIENCE® platform that manages the end-to-end multi-disciplinary product development process by delivering a unified design experience to industrial equipment companies that need to address their complex manufacturing challenges. With *Single Source For Speed*, project stakeholders have social networking, design and business applications that facilitate decision-making, reduce costs and accelerate time to market.



## Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 190,000 customers of all sizes in all industries in more than 140 countries. For more information, visit [www.3ds.com](http://www.3ds.com).



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