

NX Postprocessor Development

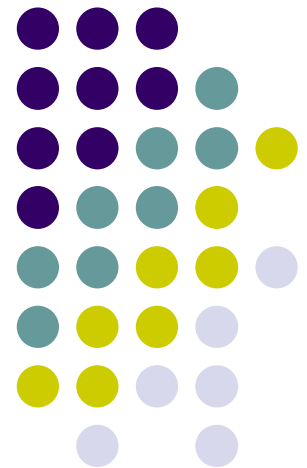
Presented

By

James

NX CAD CAM Automation Service (NCCAS)

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About **NCCAS**



NCCAS (NX CAD CAM Automation Service) is a group of Unigraphics CAD/CAM experts, who have many years' experience in NX CAD/CAM software customization/Implementation/Support, as well as hands-on engineering background in Aerospace, Oil & Gas, Medical equipment and Semiconductor industries. We provide complete CAD/CAM solutions for our customers all over the world with excellent customer service.

Our mission is to provide our customers with the world-class CAD/CAM Services, and help them to speed up the design process, reduce the time to market, reduce the cost and keep the competitive advantages.

NX Postprocessor Development



NCCAS has many years' experience on NX postprocessor development, our customers include aerospace manufacturing companies, Oil & Gas companies, precision machining companies, etc. We are specialize in postprocessor development for Multi-axis CNC machines, Mill-Turn machines, and special function attachment, such as U-Center, L-head, etc.

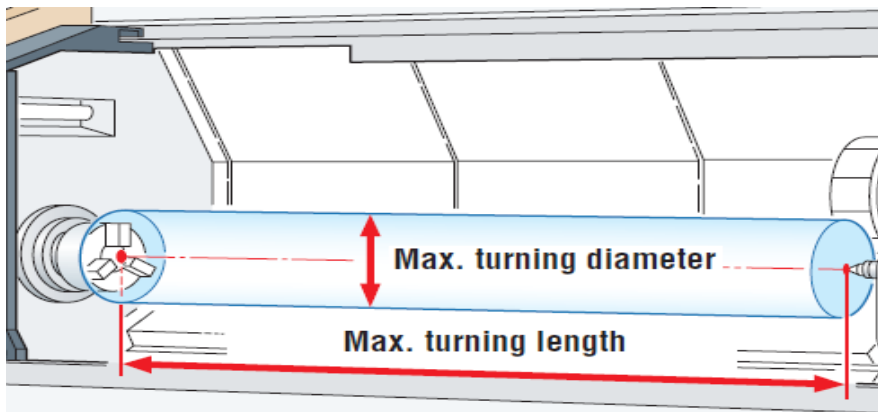
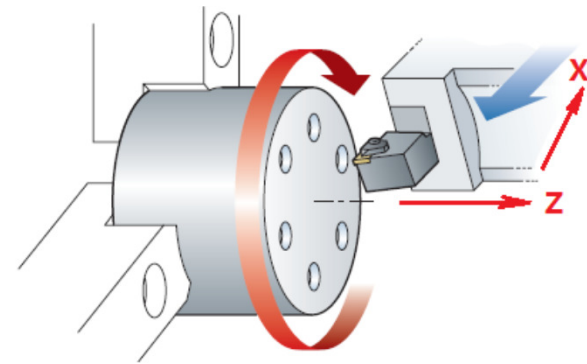
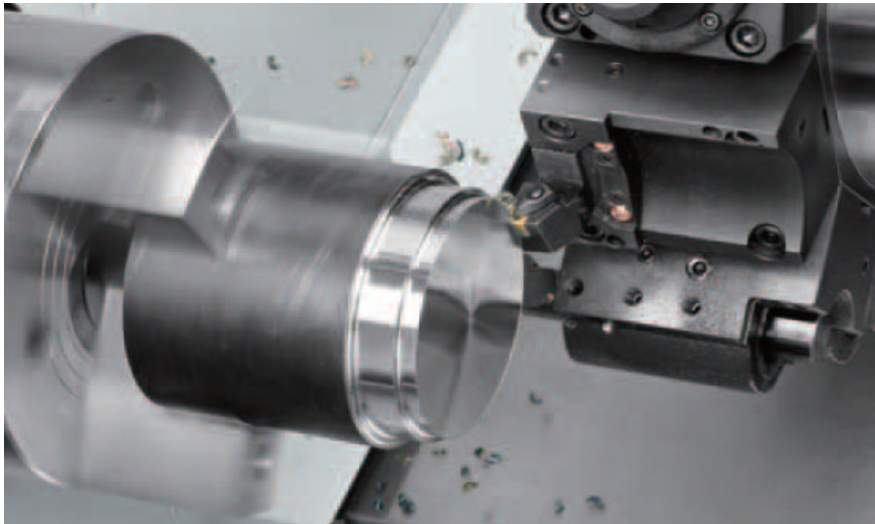
Our Postprocessor development engineers have more than 10 years' hands-on experience on all kinds of CNC machines, as well as in-depth knowledge on Machine mechanics, NX CAM Programing and Software development.

We provide our customer with not only the postprocessor, but also the best NX CAM support. 3 months' free NX CAD/CAM support will be included after the delivery of the postprocessor.

NX Postprocessor Development



Standard Lathe Postprocessor (2-Axis)



Machine Specifications

Model

Control

X-Limit

Z-Limit

NX Postprocessor Development



Standard Mill Postprocessor (3/4-Axis)



- Standard mill
- X/Y/Z Axis
- C-Axis (Rotary table or attachment)
- Vertical or Horizontal
- Different Control System



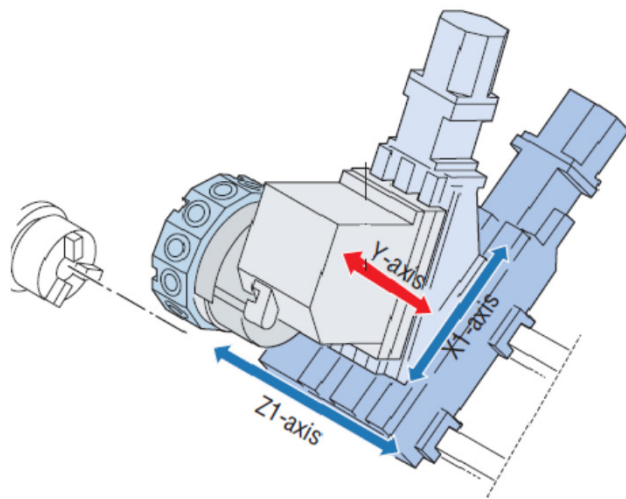
Machine Specifications

Model		
Control		
X-Limit		
Y-Limit		
Z-Limit		
C-Limit		

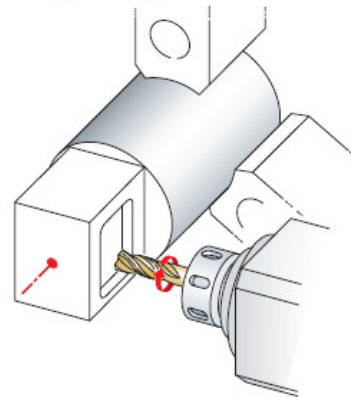
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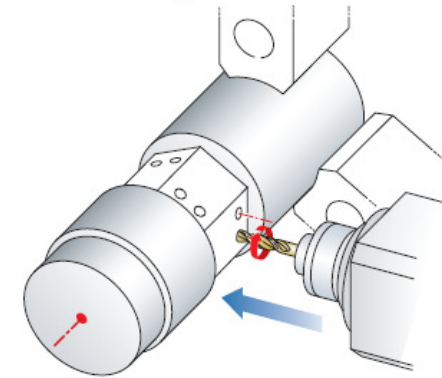
Lathe with Mill Postprocessor (MillTurn)



Off-center grooving



Off-center drilling



- Standard Turning Functions
- 4-Axis mill with C-Axis
- Polar coordinate system
- Sub-Spindle
- Part transfer between Spindles

Example: Mori-Seiki NL3000SY

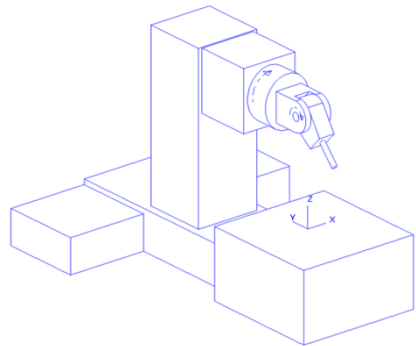
Machine Specifications

Model		
Control		
X-Limit		
Y-Limit		
Z-Limit		
C-Limit		

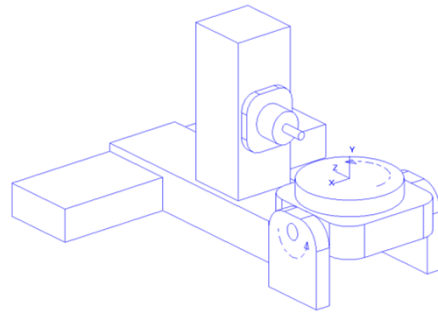
NX Postprocessor Development



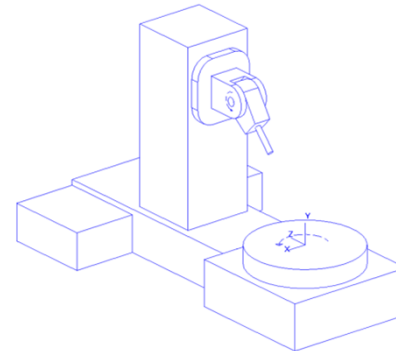
5-Axis Mill Postprocessor



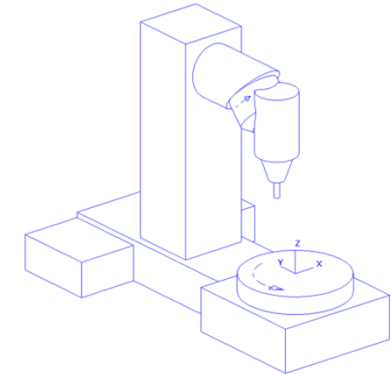
Dual-Head



Dual-Table



Head-Table



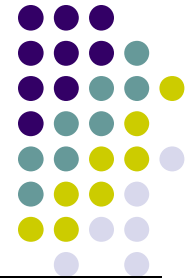
Non-Standard-Head



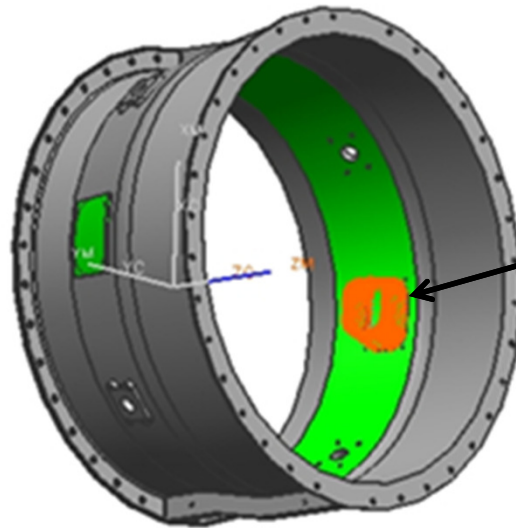
Machine Specifications

Model		
Control		
X-Limit		
Y-Limit		
Z-Limit		
A-Limit		
B-Limit		
C-Limit		

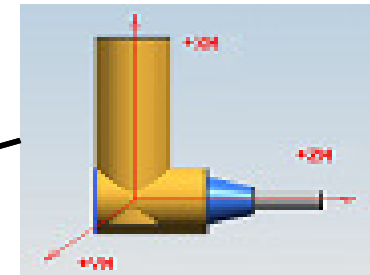
NX Postprocessor Development



Special Attachment (5-Axis with Angular Head)



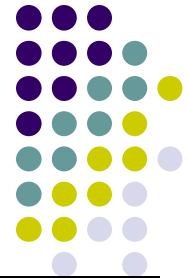
Mill Internal Pockets



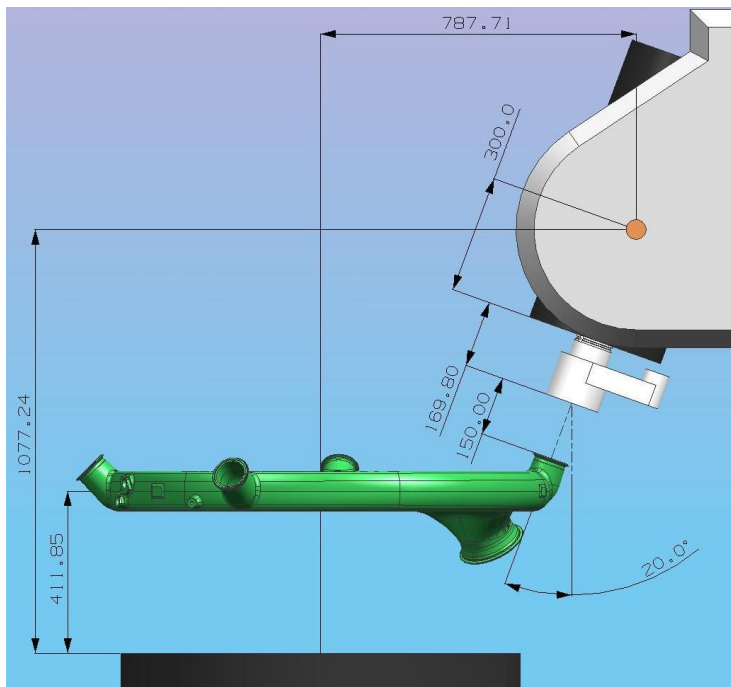
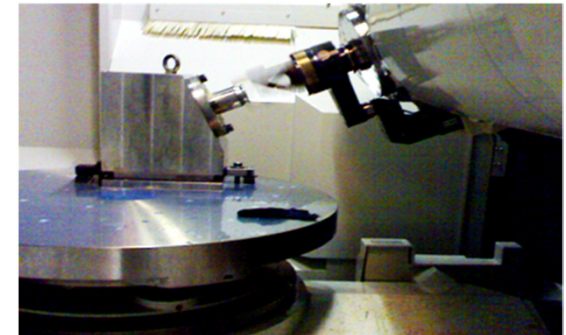
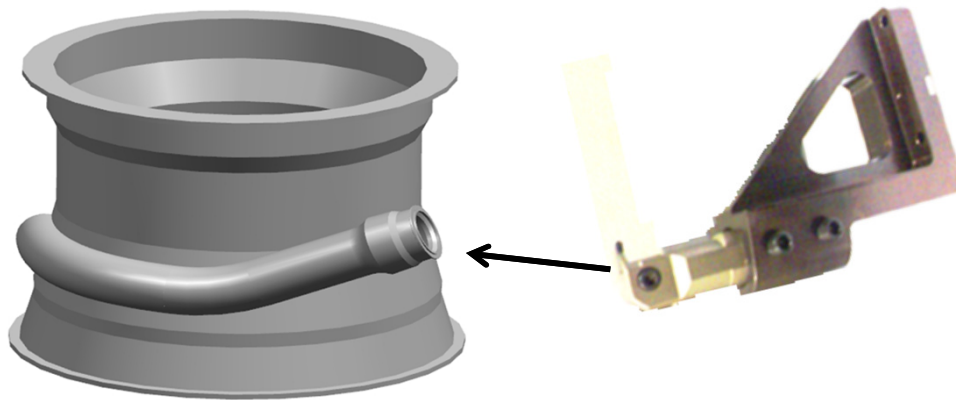
Machine Specifications

Model		
Control		
X-Limit		
Y-Limit		
Z-Limit		
A-Limit		
B-Limit		
C-Limit		

NX Postprocessor Development



Special Attachment (5-Axis with U-Center)



Special Application with 5-Axis plus U-center attachment.

Machine Specifications

Model		
Control		
X-Limit		
Y-Limit		
Z-Limit		
A-Limit		
B-Limit		
C-Limit		

NX Postprocessor Development



Postprocessor Request Checklist

	Builder		
Machine Information	Model		
	Control		
Linear Axis Limits	X		
	Y		
	Z		
	U		
Rotation Axis Limits	A		
	B		
	C		
Documentations Required (Digital Format)	• Programming Manual		
	• Machine Specification		
	• Sample test Part		
	• Sample NC Files		
	• Output format requirement		