



Ref: Procurement of CAD/CAM software NX latest version with Total machining, Machine tool kits with postprocessors.

**Compliance Statement (to be filled by supplier)**

Module	Compliance Yes/No as applicable	Remarks / Feature description
<b><u>NX CAD / CAM Total Machining - No. of Licenses -1</u></b>		
<b>NX Advanced CAD module</b>		
Generic motion control		
Wizard builder		
Shop Documentation		
Work Instruction Authoring		
Solid Modelling and Drafting		
Synchronous modelling		
Drafting		
Visual Reporting		
Surface and edge extraction		
Surface extensions and patches		
Feature Modelling		
Advanced Freeform		
User Defined Features		
Sheet Metal design		
Quick Check, Web Express, and Xpress Review		
Geometric tolerancing		
Studio visualization		
Check-Mate Runtime		
Product manufacturing information		
Assembly modelling		
Standard model editing functions		
Associative geometry		
3D wireframe construction for boundaries		
Probing cycle support		
<b>NX Advanced CAM module</b>		
<b>2D Turning</b>		
Turn Roughing		
Turn Finishing		
Groove turning		
Thread cutting		
Centering		
Simple Drilling		
Drilling with chip break		
Drilling with pecking		
Reaming		

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Tapping		
Thread Milling		
Boring		
<b>Drilling cycles</b>		
Helical Drilling		
Boss thread milling		
Radial Groove milling		
Hole milling		
Centre drilling		
Drilling (with chip breaks)		
Deep hole drilling		
Thread drilling		
Sequential Drilling		
Hole chamfer milling		
Boss milling		
Back Countersinking		
<b>3D Milling</b>		
Generalized roughing		
High speed machining (HSM)		
Contour Milling		
Planar milling		
Cavity Milling		
Adaptive Milling		
Plunge Milling		
Z-Level Milling		
Face Milling		
Floor and wall milling		
Groove Milling operation		
Sequential Milling		
Surface Contouring		
3 Axis surface machining		
Interpolated patterns		
Adaptive Milling with a Bottom-Up Addition		
Pillar Cutting		
Guiding Curves strategies		
Raster and offset patterns		
Tool path editor		
NURBS Output		
G-code drive machine simulation		
Multi-channel program synchronization		
Feature Based Machining Author		
Online post processor library for free post		
Tool path replay and material verification		
<b>Mill Turn Cycles</b>		
<b>5 Axis Milling</b>		
Tube Milling		
Automatic valley rest milling		
5 axis surface machining		

*Full*



5 axis manual machining (sequential milling)		
5-axis surface milling with lead/lag		
5-axis swarfing		
5-axis cutting with user control over drive, part and Check geometries.		
G-code driven machine simulation		
Feed rate optimization		
Automatic 3-axis tilt for prevention of collision in deep cavities		
Shop documentation		
Post Builder		
Post Configurator		
NC machine tool builder		
<b>New features</b>		
Automated deburring operation		
Rotary roughing		
5 axis guiding curves		
Prime turning		
Automatic Holder creation		
Multistep IPW		
Z Level undercut		
AI Powered NC Programming		
Flow milling		
Planar deburring		
Thread turning operations		
U-Axis turning support		
3 Axis guiding curves		
Turning Reversal spindle direction		
Tool creation and turning tool usage		
Any other Recent New features		
<b>Postprocessor and ISV for all the machines listed below</b>		
• <i>HARDINGE – Hard Turning machine</i>		
• <b>Kinematic model of the machine for simulation is under the scope of vendor</b>		
• <b>The prove out of the post processors and ISV are to be done by machining of components as per the CAD Model /drawings of CMTI. The necessary CAD model and sample program pertaining to the particular machine will be provided by CMTI.</b>		
<b>CAD Translators</b>		
CAD interfaces for smooth data exchange processes		
Import standard		
IGES		
STEP		
STL		

*Table*





DXF/DWG		
Parasolid		
HyperCAD		
Pointcloud		
<b>Import Direct</b>		
SOLIDWORKS		
Autodesk inventor		
<b>Export</b>		
IGES		
STEP		
STL		
DXF/DWG		
Direct solid modeling and A Class surface creation		

<b>Training:</b>		
<b>Minimum 15 days 3 phase training (5 days X 3 phases)</b> for CMTI personnel, covering all features. Training licences to facilitate training of 5 CMTI personnel during the training session to be arranged. Additional training as and when required by CMTI on mutually agreeable dates to be provided.		
<b>Other conditions:</b>		
Software installation to be done at CMTI site prior to training.		
The supplied licence is perpetual		
The supplied licence to be a floating licence		
<b>Vendor</b> to issue training licences to CMTI during training programs conducted at CMTI. These additional licences should be valid for the complete training period at CMTI.		
<b>Vendor</b> should extend support to CMTI in new product developments/metal cutting projects for program generation and prove out if needed.		
<b>Vendor</b> to offer One-year AMC to CMTI from the date of installation at CMTI free of cost.		
Post processors prove out to be done at CMTI site.		

*Feb 14*