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Solutions for CNC CAD/CAM & DNC

Mastercam X5 Wire Training

Course Outline, Duration 3 Days

Day 1: Design

Function/Command	Description
Interface Layout	Explaining the Graphic User Interface and how you can Navigate through Mastercam and setting the toolbar state.
Create Point	Learn to create points using the AutoCursor feature or by entering coordinates.
Create Rectangle	Learn to create rectangles knowing the width, the height and the anchor location.
Create Rectangular Shapes	Learn to create rectangular shapes knowing the width, the height and the anchor location.
Create Lines	Learn to create lines using some of the 6 available commands.
Create Arcs	Learn to create arcs using some of the 7 available commands.
Create Fillet/Fillet chains	Learn to create fillets using both fillet entity and fillet chain commands.
Edit Trim/Break/Extend	Learn to trim, extend 1, 2 or 3 intersecting entities, to trim, break or extend an entity to a specified length and how to divide/delete entities at the nearest intersection
Edit Break at Intersection/Join	Learn to break entities at intersections and how to join collinear entities or entities that are parts of the same circle.
Xform Mirror	Learn to create mirror images of existing geometry with respect to a defined axis or points.
Xform Rotate	Learn to move or copy selected geometry around a center point.
Xform Offset/Offset contour	Learn to move or copy one entity or a chain of entities at a given distance, creating multiple copies on either side of the selected geometry.
Xform Translate	Learn to move, copy or join entities within the same view without altering their orientation, size, or shape.
Xform Scale	Learn to increase or decrease the size of entities by a factor relative to a defined point.





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Day 2: Design/Wirepaths

Function/Command	Description
Analyze commands	Learn to view entity properties and edit some or all of the data. Learn to measure the distance between two entities, determine the position of a point, and analyze an entire chain or contour.
Levels	Learn to work with levels and how you can manage them.
Attributes	Learn to set the level, color, line style and width and how you can modify them using attributes.
Importing files	Learn how to convert a drawing from a different CAD package.
Customization	Keyboard shortcuts, toolbars and right click menu.
System Configuration	Learn how to set Mastercam start up defaults.
Chaining geometry	Learn the different options from the chaining dialog box.
Fixing chaining problems	Learn to clean up the chain by: removing duplicate or overlapping entities, projecting existing geometry in one plane, trimming entities.
Chaining geometry	Learn the different options from the chaining dialog box.
Fixing chaining problems	Learn to clean up the chain by: removing duplicate or overlapping entities, projecting existing geometry in one plane, trimming entities.
Machine definition, Control definition and Post processor	Learn the role of Machine definition, Control definition and Post processor.
Toolpaths Operations Manager	Learn the role of the Toolpath Manager to generate, sort, edit, regenerate, backplot, and post any operation.
Set up the Wire Power Library.	Learn how to set the passes for rough cuts, for tab cut and for finish cuts (skim cuts).
2D Contour Wirepath	Learn how to machine shapes that have the same general shape in both the XY plane (the lower contour) and the UV plane (the upper contour).
2D Contour with taper options	Learn how to taper the contour wirepath inward or outward and specify the location of the land (the point at which the taper begins).
Backplot the wirepath	Learn how to check the path the wire takes to cut your part.





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Day 3: Wirepaths

Function/Command	Description
No core wirepath	Learn how No core wirepaths pocket out areas of material without producing a slug.
Construction planes and construction z depth	Create the 3D wireframe for 4 axis wirepaths
Synchronizing chains	Learn about the synchronization and how to create the geometry required to synchronize the XY plane (the lower contour) and the UV plane (the upper contour).
4 Axis Wirepath	Learn to set the level, color, line style and width and how you can modify them using attributes.
Setup Stock	Learn how to set the stock to be able to verify the toolpath.
Verify	Learn how to simulate the machining of a part from a stock model display.
Certification test	

