PRODUCTION LATHE MODULE SYLLABUS

This one day class of lecture & hands-on exercises will take you through GibbsCAM Production Lathe

DOCUMENT BOX

Setting up a filing structure Creating and naming new folders

Creating and naming new files

Selecting Machine type

Selecting material to be used

Selecting alloys

Selecting harness

Programming using inch or millimeter

Programming using Radius or Diameter

Opening and closing existing folders

Saving files

Saving as older versions

Describing Part Stock and Origin

Tool Change Position Auto Clearance

Setting a clearance Plane

Insert Comments at the beginning of prog.

DRAWING

Point

Center Point

Mid Point

Point on an arc

Mouse point

Lines

Between two points

Point angle

Parallel

Angle and tangent circle

Parallel

Perpendicular

Axis line-horizontal or vertical

Mouse line

Circles

Radius and center point

Point and center point

Radius and two points

Three features

Shapes

Offset

Splines

Chamfer $Fillet \setminus Radius$

Side Chamfer

Depth Chamfer

Length Chamfer

Connect

Connecting and disconnecting

Geometry Expert

Drawing square

Drawing using fillets and Chamfers

Drawing angles and radius

Short cut keys

Reloading

Modify Dimensions

TOOLS

Selecting tools

Describing tools

Selecting tool material

Selecting spindle direction

Setting tool offsets

Using multiple tool offsets Inserting Tool comments

Finding and moving tools

HOLES

FI-RO Feed in Rapid out

FI-FO Feed in Feed out

Tap

Rigid tap

Peck, Full out

Peck, Chip Breaker

Canned Cycles

Clearances

Retracts Peck amount

Dwell

CONTOUR

For OD-ID and Front Face

For roughing and finishing

Cut-Off \ Part-Off

Breaking Corners

Using Cutter Comp

Entry and exit moves

CSS vs. RPM

Material only cutting

Constraining an axis

Selecting Machining Markers

Direction of cut

Side of line

Starting feature

Ending feature

Starting point

Ending point

ROUGHING

For OD, ID and front faces

For roughing and finishing

Turning Plunging

Pattern shift

Breaking corners

Using cutter comp Entry and exit moves

CSS vs. RPM

Material only cutting

Using Canned cycles

Auto Finish

Constraints an axis

Setting Machining markers

Direction of cut

Side of line

Starting feature

Ending feature

Starting point

Ending point

TREADING

Internal threads External threads

Tapered threads Left and right hand

 $Higby \lq s \setminus Blunt \ starts$

Canned cycles

Spring passes Multiple lead threads

Thread angle

DIMENSIONING

Checking dimensions by:

Annotation palette

Mouse position

Workgroup summary

Show \ hide dimensions Printing Dimensions

MATERIALS

Creating new family of materials

Creating new alloys & materials

Entering SFM vs. RPM

Entering IPT vs. IPM Modifying existing material data base

Communications Setup & selecting Machine

Sending VNC, TXT files

Receiving VNC< TXT files

FILE MENU

Preferences

Communication ser-up

Changing file extensions

Setting up AutoSave

Changing graphics settings

Changing interface level & machine pref.

Post processor settings

Printing Importing or Exporting DXF or IGES

Undo, cut, copy, paste, select all, selecting

by, points, lines, circles, curves

VIEWS

View palette Drop down menu

Short cut keys

Trackball Dynamic rotation

MODIFY

Duplicate Duplicate And

Force Depth

Mirror

2D Rotate

Scale

Translate Segment Spline

Sort & Shrinkage Reverse Arc

Toggle feed status Move Part Origin

PROCESSES

Saving & Loading processes Setting up folders & Directory

PLUG INS

Cleanup Setup pose editor

Reporter 97 & 2000

Show Position Transform toolpath

Balloons, Prompting, Tool tips, shortcuts

About Virtual Gibbs

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