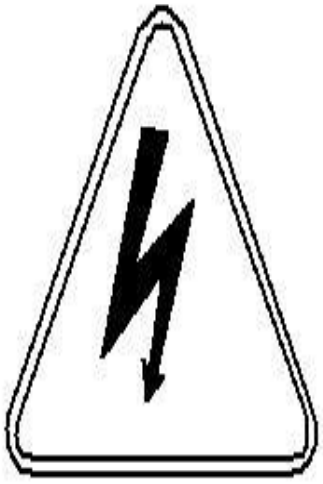
1 : What is the safety sign?



A : Flammable
B : Poison
C : Risk of electric shock
D : Radio active

---

2 : Which switch is used to stop the machine suddenly?
A : Cycle stop
B : Emergency stop
C : Toggle switch
D : Spindle stop

---

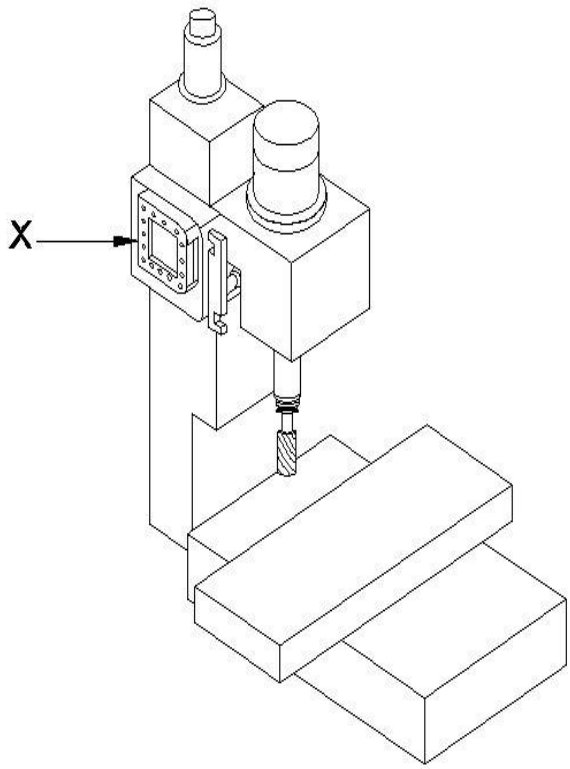
3 : How CNC machine is controlled?
A : By operator
B : By program
C : Control system
D : Electrical unit

---

4 : What is part program?
A : Instruction to machine
B : Instruction to supervisor
C : Instruction to manager
D : Instruction to operator

---

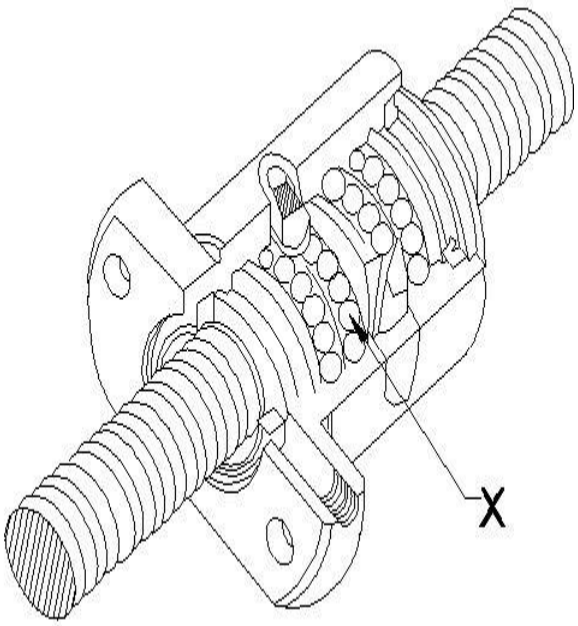
5 : What is marked as 'x'?



A : Tool changing arm
B : Spindle
C : Tool magazine
D : Column

---

6 : What is marked as 'x'?



A : Screw shaft
B : Balls
C : Ball screw nut
D : Seal

---

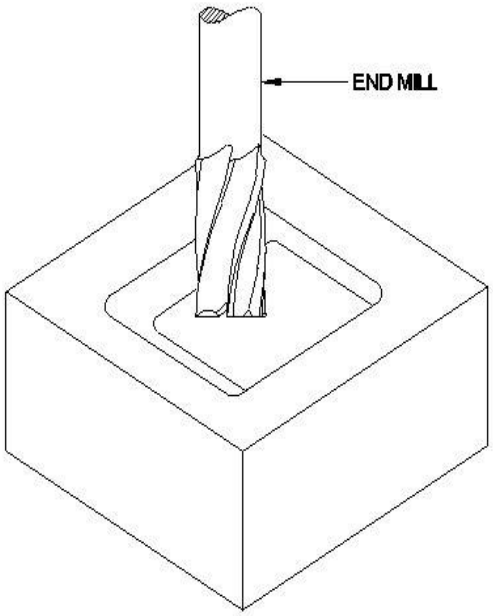
7 : Which code is used for "Circular interpolation clock wise direction"?
A : G01
B : G02
C : G03
D : G00

---

8 : Which device is used for feed back system in CNC?
A : Control unit
B : Axis motor
C : Encoder
D : Spindle motor

---

9 : What is the operation?



A : Face milling
B : Side milling
C : Pocket milling
D : Slot milling

---

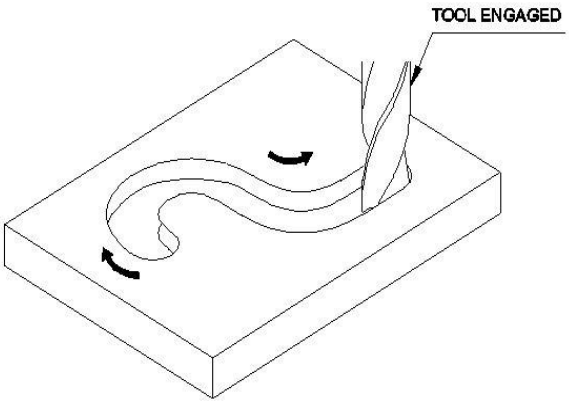
10 : Which machine is used for face milling operation?
A : CNC lathe
B : CNC grinding
C : CNC VMC
D : CNC wire EDM

---

11 : What is the operation to produce internal thread in VMC?
A : Reaming
B : Tapping
C : Drilling
D : Boring

---

12 : What is name of control system?



A : Point to point control
B : Contouring control
C : 2D control
D : Straight cut control

---

13 : Which operation is performed by point- to-point system?
A : Side milling
B : Face milling
C : Drilling
D : Pocket milling

---

14 : What is X-axis movement in VMC?
A : Transverse
B : Longitudinal
C : Up
D : Down

---

15 : What is ATC?
A : Automatic Tool Changer
B : Automatic Pallet Changer
C : Automatic Gauge Changer
D : Automatic Tool Setter

---

16 : Which axis is moving up and down in VMC?
A : X
B : Z
C : Y
D : B

---

17 : Which part is used to prevent access into CNC milling?
A : Door
B : Control panel
C : Machine table
D : Machine spindle

---

18 : Which system uses in punched tape?
A : NC system
B : CNC system
C : DNC system
D : Conventional system

---

19 : Which form a program block in CNC?
A : Cams
B : Levers
C : Gears
D : Alpha numeric codes

---

20 : Which motor is used for table movement on CNC milling?
A : Spindle motor
B : Hydraulic motor
C : Coolant motor
D : Servo motor

---

21 : What type of guide way is used in CNC milling?
A : Flat
B : Dove tail
C : V and flat
D : LM guide way

---

22 : What is G code for "Linear interpolation"?
A : G91
B : G90
C : G00
D : G01

---

23 : Which interpolation is joining two points in straight line?
A : Circular interpolation
B : Linear interpolation
C : Helical interpolation
D : Parabolic interpolation

---

24 : Which system provides feed motion along X or Y axis?
A : Point -to-point control
B : Contouring control
C : Straight cut control
D : 3D contouring control

---

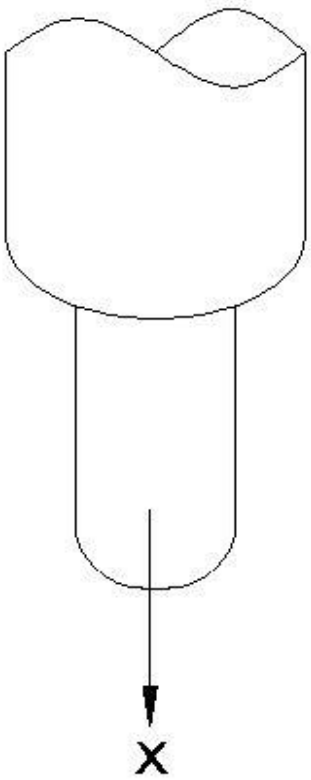
25 : What is the advantage of CNC machine?
A : Less flexible
B : Less investment
C : Less accuracy
D : Complicated jobs machining

---

26 : What is hole finishing operation in VMC?
A : Drilling
B : Milling
C : Fine boring
D : Tapping

---

27 : What is the movement marked as 'x'?



A : X axis Positive
B : Y axis Positive
C : Z axis Negative
D : Y axis Negative

---

28 : What is "G" code for peck drilling?
A : G86
B : G82
C : G83
D : G84

---

29 : What is the code for "absolute programming"?
A : G91
B : G28
C : G90
D : G00

---

30 : What is "G91" in VMC?
A : Absolute co-ordinate
B : Cartiriyan co-ordinate
C : Polar co-ordinate
D : Incremental co-ordinate

---

31 : What is "G90" in VMC?
A : Incremental co-ordinate
B : Polar co-ordinate
C : Absolute co-ordinate
D : Cartiriyan co-ordinate

---

32 : How many axes are in basic VMC?
A : 1
B : 2
C : 3
D : 4

---

33 : What is "G" code for incremental system?
A : G91
B : G00
C : G01
D : G90

---

34 : What is smallest unit in program?
A : Word
B : Address
C : End of block
D : Character

---

35 : What is 'H' in part programs?
A : Tool length offset
B : Work offset
C : Wear offset
D : Geometry offset

---

36 : What is "N" in the part program?
A : Program number
B : Block number
C : Tool offset number
D : Work offset number

---

37 : What is a "Word" in a program?
A : Address
B : Line
C : Combination of characters
D : End of block

---

38 : What is a "Block" in a program?
A : Line
B : Word
C : Address
D : Character

---

39 : Which code to call sub-program?
A : M98
B : M99
C : M06
D : M08

---

40 : What is "G40" in program?
A : Cutter radius compensation lift
B : Cutter compensation cancel
C : Cutter radius compensation right
D : Cutter offset outside complex

---

41 : What is "G04" command?
A : Dwell time
B : Rapit motion
C : Linear motion
D : Canned cycle cancel

---

42 : What is "M" in program?
A : Sub-program
B : Sub-routine
C : Miscellaneous function
D : Preparatory function

---

43 : What is "G" in program?
A : Sub-routine
B : Preparatory function
C : Sub-program
D : Miscellaneous function

---

44 : What is "G76" code for system?
A : Drilling
B : Fine boring
C : Boring
D : Tapping

---

45 : What is 'Z' value represents in G84 cycle?
A : Feed rate
B : Hole position
C : Reference plane
D : Depth

---

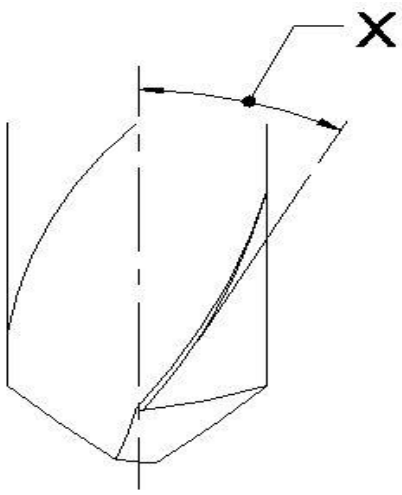
46 : What is "R" represents in G81 cycle?
A : Hole position X-axis
B : Hole position Y-axis
C : Position of reference level
D : Feed rate

---

47 : What is canned cycle?
A : Lengthy program
B : Start program
C : Sub-program
D : Main program

---

48 : What is marked as 'x'?



A : Cutting edge angle
B : Helix angle
C : Clearance angle
D : Web angle

---

49 : What is the point angle of twist drill for mild steel?
A : 140°
B : 130°
C : 118°
D : 120°

---

50 : How tool life is expressed?
A : Minutes
B : Seconds
C : Hours
D : Days

---

51 : What is the unit of cutting speed in VMC?
A : Meter/sec
B : Meter/min
C : MM/min
D : Revolution/min

---

52 : What is unit of feed in VMC?
A : mm/min
B : mm/rev
C : mm/sec
D : metre/min

---

53 : What is the use of "G01" code?
A : Radius milling
B : Concave milling
C : Straight line milling
D : Index milling

---

54 : Which method is used to avoid machine collision in VMC during initial practice?

A : Simulation
B : Auto cycle
C : Manual method
D : Jog method

55 : Which mode is adopted for block by block execution of a CNC programme?
A : Auto mode
B : MD mode
C : Jog mode
D : Single block mode

---

56 : What is "T01" in M06T01; in FANUC program?
A : Tool offset no:1
B : Tool no:6
C : Tool no:1
D : Tool wear offset no:01

---

57 : Which 'M' code is used to stop in between different operations?
A : M01
B : M00
C : M30
D : M20

---

58 : Which record is provided with operation sequence of a component?
A : Job card
B : Process planning
C : Maintenance sheet
D : Estimation sheet

---

59 : Which offset is used to adjust the dimension of the component due to tool wear involve?
A : Work offset
B : Geometry offset
C : Wear offset
D : Zero offset

---

60 : Which axis do homing first in VMC?
A : X - axis
B : Z - axis
C : Y - axis
D : B - axis

---

61 : What do you check mainly in VMC before starting?
A : Work piece
B : Tool available
C : Proper voltage
D : Gauges

---

62 : Which mode is used for fine slide movement manually for work offset setting?
A : JOG
B : MPG
C : MDI
D : Edit

---

63 : Which mode is used to copy the part program in VMC?
A : MDI
B : JOG
C : AUTO
D : Edit

---

64 : Which mode is used to enter part program?
A : Auto mode
B : MDI mode
C : Edit mode
D : JOG mode

---

65 : What is "M04S500" in CNC program?
A : Spindle rotation CW 500 rpm
B : Spindle rotation CCW 500 rpm
C : Spindle stop
D : Spindle orientation

---

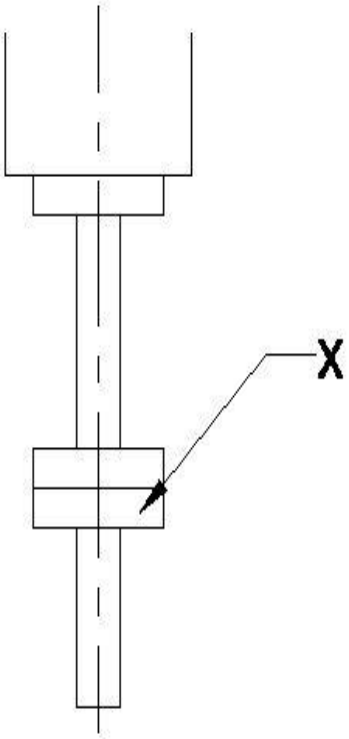
66 : What is "G54" in FANUC VMC?
A : Tool offset
B : Work co-ordinate system
C : Tool radius offset
D : Tool wear offset

---

67 : Where to enter the tool length value in VMC?
A : Work offset
B : Geometrical offset
C : Wear offset
D : Zero offset

---

68 : What is marked as 'x'?



A : Test arbor
B : Edge finder
C : Cutter arbor
D : Boring bar

---

69 : Which knob is used to stop the machine suddenly?
A : Feed rate over ride
B : Spindle stop
C : Cycle stop
D : Emergency stop

---

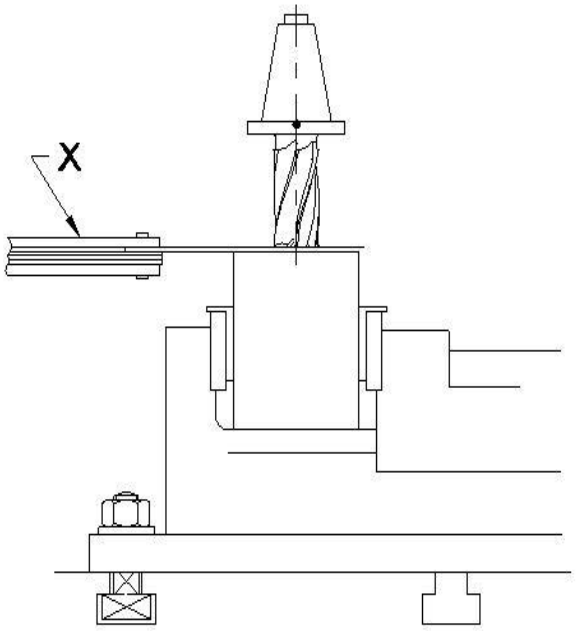
70 : Which knob is used to control rapid motion in VMC?
A : Mode selection
B : Rapid traverse
C : Feed rate over ride
D : Spindle speed over ride

---

71 : Where the program numbers stored in VMC?
A : Directory
B : File
C : Folder
D : Parameter

---

72 : What is the part marked as 'x' ?



A : Plug gauge
B : Ring gauge
C : Feeler gauge
D : Screw pitch gauge

---

73 : Which function is used for movement command in part program?
A : Preparatory function
B : Miscellaneous function
C : Speed function
D : Feed function

---

74 : What is 'S' in CNC part program?
A : Feed
B : Sub program
C : Spindle speed
D : Depth of cut

---

75 : Which button is pressed to select program number from directory?
A : OSRH
B : Reset
C : Measure
D : Alter

---

76 : What is "M02" command?
A : End of program
B : Optional stop
C : Program stop
D : Spindle stop

---

77 : What is pressed to remove the "word" in program?
A : Delete
B : Insert
C : Reset
D : Offset

---

78 : Which mode is used to enter part program in VMC?
A : Edit
B : Jog
C : MDI
D : Auto

---

79 : What is pressed to recover axis over travel?
A : Reset
B : Delete
C : Enter
D : Insert

---

80 : What is the distance from X0, Y0, Z0 of machine zero to work zero in x,y,z direction?
A : Tool length offset
B : Zero offset
C : Tool wear offset
D : Wear offset

---

81 : Which is the offset from nose of the holder to overhanging length of cutter?
A : Work offset
B : Wear offset
C : Tool offset
D : Geometry offset

---

82 : Which is an advantage of CNC machine?
A : High accuracy
B : Initial cost is high
C : More expensive
D : Productivity depends on the programmer

---

83 : What is "G03" in part program?
A : Circular inter polation clockwise
B : Circular inter polation counter clock wise
C : Helical inter polation
D : Linear inter polation

---

84 : Which code is used for "Program end and reset?
A : M06
B : M30
C : M10
D : M04

---

85 : What is "N" in N100 G00X150.0 Z200.0;?
A : Program number
B : Sequence number
C : Tool number
D : Tool offset number

---

86 : What is the address to specify "y" axis co-ordinate arc center?
A : H
B : J
C : K
D : Auto

---

87 : Which is pressed to stop temporarily during auto mode operation?
A : Cycle stop
B : Feed hold
C : Dry run
D : Machine lock

---

88 : Which button is used to remove "word" during program editing?
A : Shift
B : Insert
C : Reset
D : Delete

---

89 : Which button is pressed to cancel an alarm in VMC?
A : Alter
B : Reset
C : Insert
D : Delete

---

90 : Which mode is to check the movement of tool without work piece?
A : Jog
B : Machine lock
C : Dry run
D : Auto mode

---

91 : Which mode is to check the program block one by one?
A : Jog mode
B : Edit mode
C : Auto mode
D : Single block

---

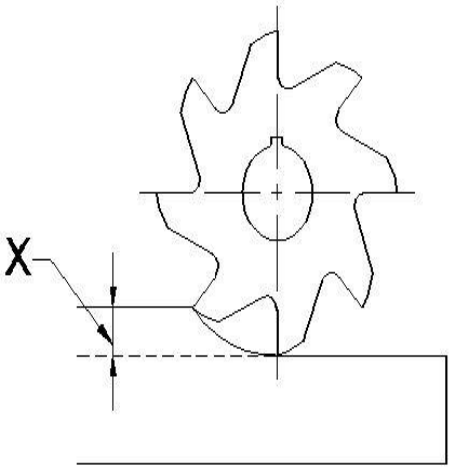
92 : Which function is used to check the program without making any axis movement?
A : Dry run
B : Machine lock
C : Optional stop
D : Jog

---

93 : What is pressed to restart the machine from power shutdown?
A : CNC ON
B : CNC OFF
C : Auto cycle
D : Zero return

---

94 : What is marked as 'x'?



A : Depth of cut
B : Feed
C : Cutting speed
D : rpm

---

95 : What is expressed as
A : Cutting speed
B : Feed
C : Depth of cut
D : Cycle time

---

96 : What is 'D' in
A : rpm of the cutter
B : Diameter of the cutter
C : Cutting speed of the cutter
D : Feed of the cutter

---

97 : What is expressed as meter/minute?
A : Feed
B : Cutting speed
C : Depth of cut
D : Cycle time

---

98 : What indicates number of repetitions in sub program?
A : L
B : X
C : P
D : %

---

99 : What is the G-code for tapping cycle in FANUC system?
A : G84
B : G81
C : G82
D : G83

---

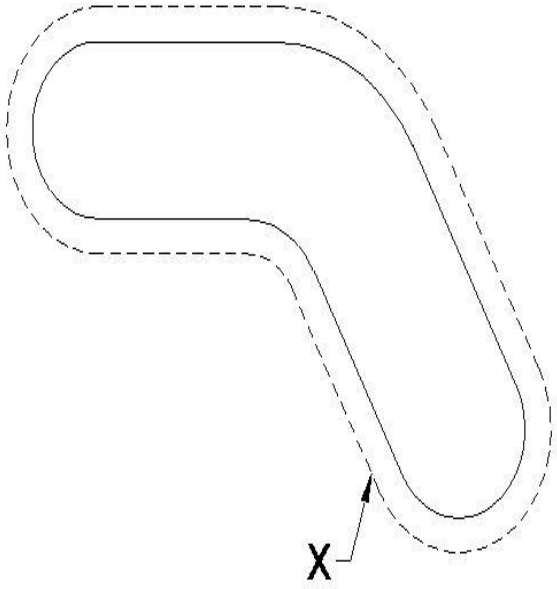
100 : What is CRC?
A : Cutter Diameter Compensation
B : Cutter Length Compensation
C : Cutter Radius Compensation
D : Cutter Wear Compensation

---

101 : What is G41?
A : Cutter radius compensation cancel
B : Cutter radius Compensation Left
C : Cutter radius Compensation Right
D : Cutter Height Compensation

---

102 : What is marked as 'x'?



A : Programmed path
B : Compensated path
C : Roughing path
D : Finishing path

---

103 : What is 'D' command in tool offset?
A : Wear of cutter
B : Tool material
C : Length of cutter
D : Radius tool

---

104 : Which is two dimensional co-ordinate system?
A : Absolute
B : Incremental
C : Polar co-ordinate
D : Cartesiar coordinate

---

105 : What is wear offset?
A : Tool length setting
B : Geometry setting
C : Tool wear adjustments
D : Work offset setting

---

106 : What is perpendicular distance between original and final surface of the work piece?
A : Feed
B : Cutting speed
C : Depth of cut
D : rpm

---

107 : What is
A : Milling time
B : Driving time
C : Turning time
D : Shaping time

---

108 : What is used to avoid repetition of programme blocks?
A : Main program
B : Absolute program
C : Incremental program
D : Sub program

---

109 : What is the ”M” code for sub program end in FANUC system?
A : M98
B : M18
C : M19
D : M99

---

110 : How sub program is identified in numeric system?
A : X
B : L
C : P
D : U

---

111 : What is used to produce identical parts in VMC?
A : Main program
B : Sub program
C : Canned cycle
D : Roughing cycle

---

112 : What is ‘F’ in ”G84 X_Y_Z_R_F_?
A : Hole position
B : Cutting feed rate
C : Hole depth
D : Position of R-plane

---

113 : What is ‘Q’ in G87 X_Y_R_Z_Q_F_ in FANUC system?
A : Feed
B : Depth
C : Hole position
D : Shift value

---

114 : What is G code for back boring cycle in FANUC system?
A : G83
B : G85
C : G87
D : G89

---

115 : What is G73 in FANUC system?
A : High speed peck drilling cycle
B : Boring cycle
C : Back boring cycle
D : Tapping

---

116 : Where is tool reference point lies in the cutter in VMC?
A : Outer
B : Inner
C : Center
D : Bottom

---

117 : Which code makes the compensated path to the right side of programmed path?
A : G40
B : G41
C : G42
D : G43

---

118 : Which code makes the compensated path to the left side of programmed path?
A : G40
B : G41
C : G42
D : G43

---

119 : What is radius vector in polar co-ordinate system?
A : Point to arc center
B : Angle from origin
C : Point to point
D : Point to the origin

---

120 : Which co-ordinate system is used to program hole positions on a bolt circle?
A : Cartesian
B : Polar co-ordinate
C : Point to point
D : Continuous path

---

121 : Which co-ordinate system, a point is defined by the distance from a reference point and an angle from a reference direction?
A : Point to point
B : Cartesian
C : Polar
D : Continuous

---

122 : What is pressed to stop all motions of machines immediately?
A : Close feed rate knob
B : Emergency stop
C : Close speed knob
D : Main OFF

---

123 : What is E-switch?
A : Emergency
B : Edit
C : Enter
D : Reset

---

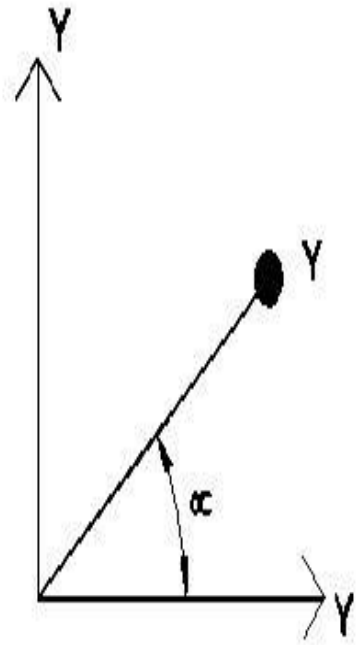
124 : What is 'z' in G81 X-Y-Z-R-K-F-?
A : Hole position
B : Hole depth
C : Feed
D : Number of repeats

---

125 : What is radial co-ordinate in polar co-ordinate system?
A : Angle from the pole
B : Distance from the pole
C : Point to point
D : Point to arc center

---

126 : What is the type of co-ordinate system?



A : Continuous
B : Point to point
C : Cartesian
D : Polar

---

127 : What is "G16" command in part program?
A : Parabolic interpolation
B : Polar co-ordinates ON
C : Corresion co-ordinate ON
D : Inch programming

---

128 : What is the symbol 'O' in process chart documentation?
A : Transport
B : Inspection
C : Operation
D : Delay

---

129 : What is the symbol for "Storage" used in process chart documentation?
A :

B : I
C :

D : D

---

130 : Which substance is having oily property available in the form of fluid, semifluid or solid?
A : Coolant
B : Cutting oil
C : Lubricant
D : Water

---

131 : What is the purpose of using lubricant?
A : Increase wear
B : Increase adhesion
C : Reduce friction
D : Increase corrosion rate

---

132 : What is the program of TPM?
A : Quality program
B : Maintenance program
C : Production program
D : Marketing program

---

133 : What is OEE in maintenance?
A : = Availability x Profit x Quality
B : = Availability x Planning x Quality
C : = Availability x Process x Quality
D : = Availability x Productivity x Quality

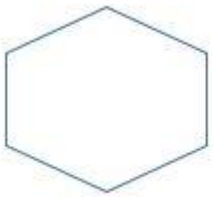
---

134 : What is the symbol indicated to apply monthly lubrication to machine tools?
A :

B :

C :

D :



---

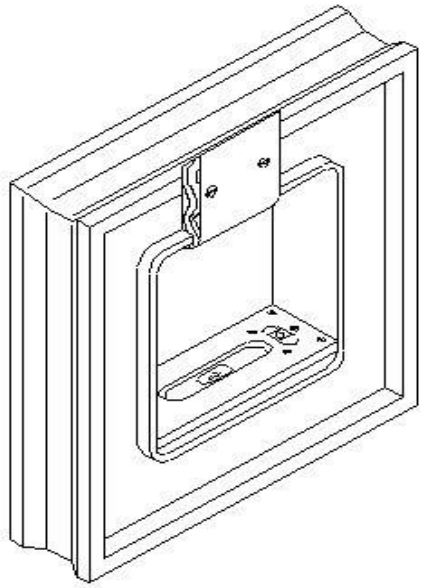
135 : What is the symbol "□" indicated in machine tool lubrication?
A : Daily
B : Weekly
C : Monthly
D : As per manufacturer

---

136 : What is the remedy to reduce excessive wear on toothed wheel?
A : Use of no filter
B : Sufficient oil supply
C : Reduce lubricating film thickness
D : Increase lubricating film thickness

---

137 : What is the of name instrument?



A : Spirit level
B : Block sprit level
C : Straight edge
D : Mandrel

---

138 : What is graphical representation of activities from raw material to the finished product?
A : Productivity report
B : Bill of material
C : Production cycle time
D : Process chart

---

139 : What is measured from start time taken to end of machining a job?
A : Machine cycle time
B : Overall cycle time
C : Cycle time
D : Production cycle time

---

140 : Which document instructs the work team to take up the production work?
A : Maintenance card
B : Job card
C : Bill of material
D : Work activity log

---

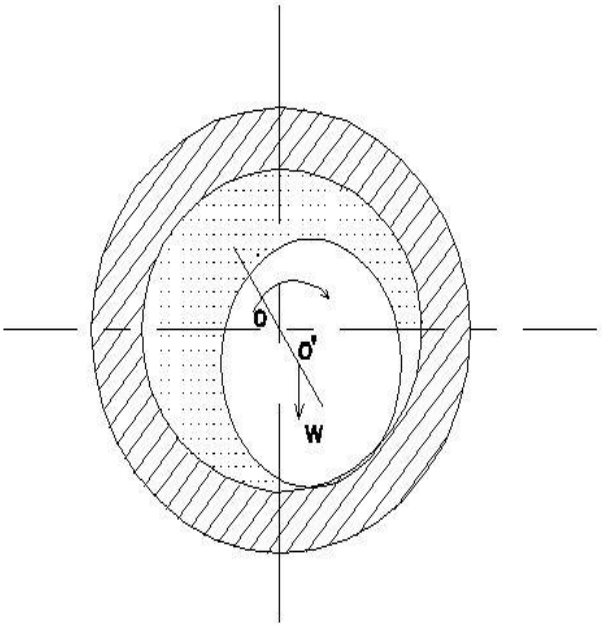
141 : Which property refers to a combination of wettability, surface tension and slipperiness?
A : Viscosity
B : Oiliness
C : Flash point
D : Fire point

---

142 : What is the property of lubricant to withstand pressure and remain on bearing surface?
A : Flash point
B : Fire point
C : Viscosity
D : Oilness

---

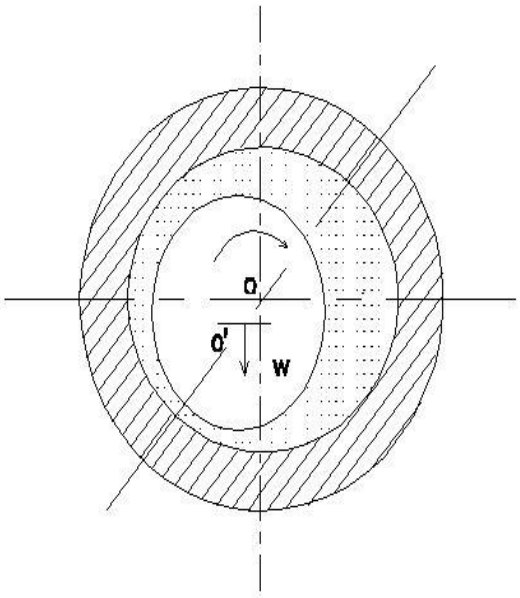
143 : What is the status of journal in hydro dynamic lubrication?



A : Journal at full speed
B : Journal at rest
C : Journal starts to rotate
D : Journal at middle speed

---

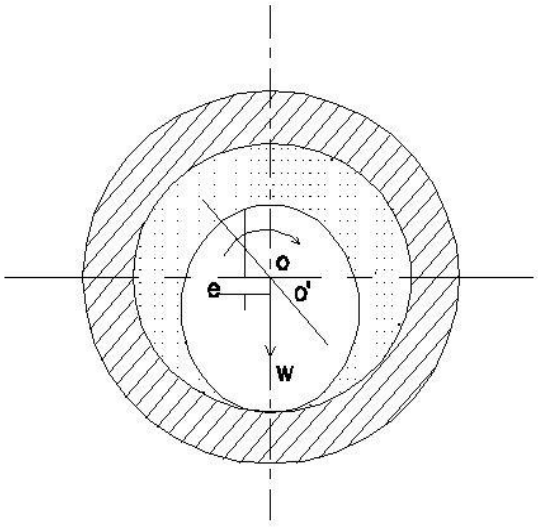
144 : What is the status of journal in hydro dynamic lubrication?



A : Journal at rest
B : Journal at full speed
C : Journal starts to rotate
D : Journal at middle speed

---

145 : What is the status of journal in hydro dynamic lubrication?



A : Journal at full speed
B : Journal at rest
C : Journal starts to rotate
D : Journal at middle speed

---

146 : What keeps the vital parts in condition to increase the life of machine?
A : Lubrication
B : Coolant
C : Dry
D : Water

---

147 : What is the substance having an oily property?
A : Lubricant
B : Coolant
C : Water
D : Air

---

148 : What is the full form of TPM?
A : Total Productive Management
B : Total Process Planning Management
C : Total Productive Maintenance
D : Total Planned Maintenance

---

149 : What is the system of finding the faults in any machine and also removal of faults?
A : Inspection
B : Production
C : Maintenance
D : Marketing

---

150 : Which type of maintenance involves daily cleaning inspection, oiling and re-tightening?
A : Breakdown
B : Preventive
C : Predictive
D : Periodic

---

151 : Which type of maintenance having advantage of reduced equipment failure?
A : Breakdown maintenance
B : Predictive maintenance
C : Preventive maintenance
D : Corrective maintenance

---

152 : Which type of maintenance involves, if a machine until it completely breaks down?
A : Preventive maintenance
B : Predictive maintenance
C : Corrective maintenance
D : Breakdown maintenance

---

153 : Which department keeps the machines and equipments in good operating condition?
A : Production
B : Quality
C : Maintenance
D : Tool room

---

154 : What is the symbol "Δ" indicate in machine tool lubrication?
A : Daily
B : Monthly
C : As per manufacturer
D : Weekly

---

155 : What is used to level the machine tools accurately?
A : Straight edge
B : Plumb bob
C : Test mandrel
D : Sprit level

---

156 : Which instrument tests the run-out of wheel spindle nose in surface grinding?
A : Dial test indicator
B : Straight edge
C : Mandrel
D : Sprit level

---

157 : Which is the property of lubricant that gives off vapour at lowest temperature on heating?
A : Viscosity
B : Fire point
C : Flash point
D : Pour point

---

158 : Which type of maintenance should not interface with production schedules?
A : Breakdown maintenance
B : Routine
C : Preventive
D : Predictive

---

159 : What is the symbol used to apply daily lubrication in machine tools?
A :

Δ

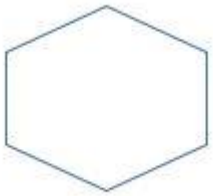
B :

□

C :

O

D :



---

160 : Why failure occurs in bearing?
A : Proper bearing selection
B : Improper lubrication
C : Proper mounting
D : Sufficient lubricant quantity

---

161 : What is used for testing straightness of bed in machine tool?
A : Mandrel
B : Feeler gauge
C : Straight edge
D : Plumb bob

---

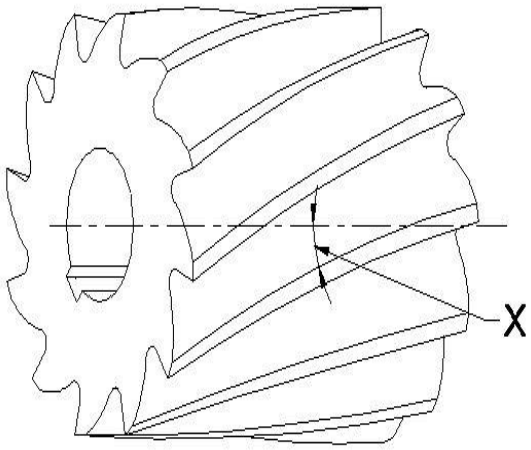
162 : What is used to test the flatness of lathe bed?
A : Straight edge and gauge blocks
B : Test mandrel
C : Sprit level
D : Plumb bob

---

163 : What is the use of slab milling cutter?
A : To produce gear
B : To produce dovetail
C : To produce slot
D : To produce plain surface

---

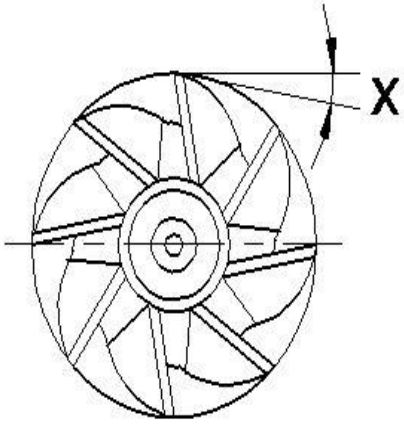
164 : What is the angle marked as 'X'?



A : Right land helix
B : Left hand helix
C : Left spiral
D : Right spiral

---

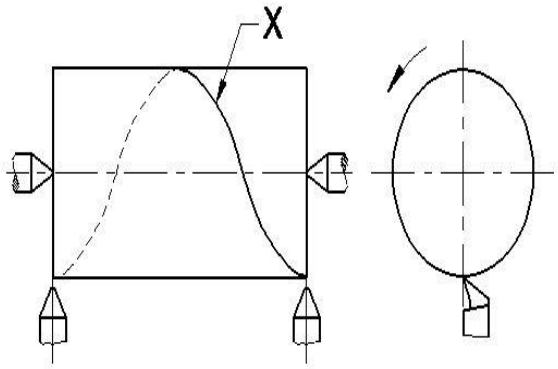
165 : What is the angle marked as 'X'?



A : Radial rake
B : Primary clearance
C : Axial rake
D : Secondary clearance

---

166 : What is the curve marked as 'X'?



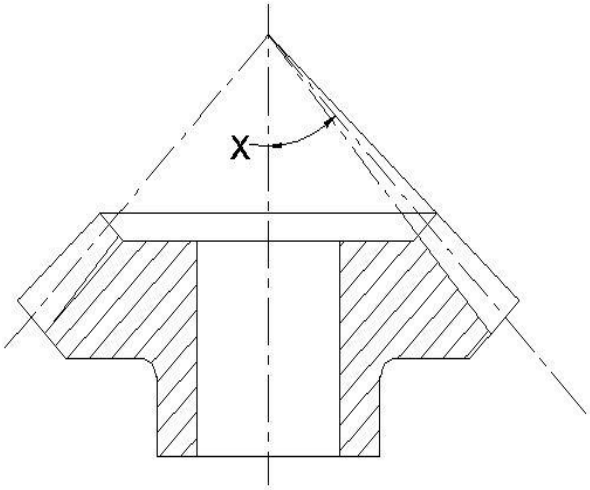
A : Cycloidal
B : Spiral
C : Helix
D : Involute

---

167 : Which type of gear the teeth are cut on conical surface of the job?
A : Spur gear
B : Helical gear
C : Worm wheel
D : Bevel gear

---

168 : What is marked as 'X' ?



A : Face angle
B : Root angle
C : Pitch cone angle
D : Addendum angle

---

169 : What is the formula to find pitch diameter of bevel gear in module?
A : 2.25m
B : (mz+2 cos δ')
C : 1.25m
D : zm

---

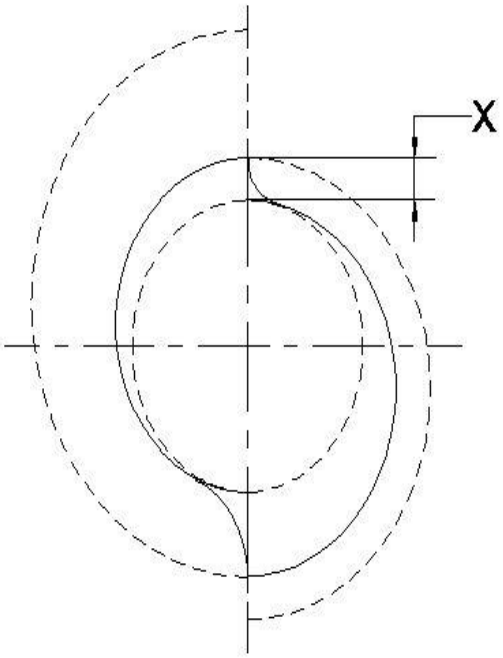
170 : What is the formula to find total depth of bevel gear in module?
A : 1.25m
B : 2.25m
C : 2m
D : 0.25m

---

171 : What is the formula to find back cone distance in bevel gear?
A : m(z+2cos δ')
B : zm
C : R tan δ'
D : z/cos δ'

---

172 : What is marked as 'X'?



A : Lobe
B : Lead
C : Rise
D : Uniform rise

---

173 : What is the formula to find gear ratio to cut a plate cam in milling machine?
A :

$$\frac{DR}{DN} = \frac{\text{Lead of machine}}{\text{rise per revolution of cam}}$$

B :

$$\frac{DN}{DR} = \frac{\text{Lead of machine}}{\text{rise per revolution of cam}}$$

C :

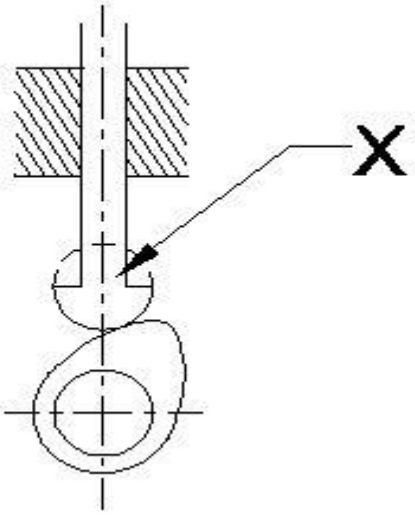
$$\frac{DR}{DN} = \frac{\text{rise per revolution of cam}}{\text{Lead of machine}}$$

D :

$$\frac{DN}{DR} = \frac{\text{rise per revolution of cam}}{\text{Lead of machine}}$$

---

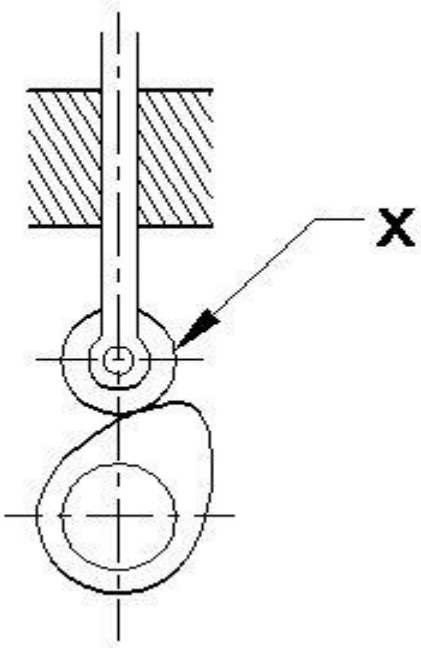
174 : What is marked as 'X'?



A : Knife edge follower
B : Roller follower
C : Mush room follower
D : Flat faced follower

---

175 : What is marked as 'X'?



A : Knife edge follower
B : Mush room follower
C : Flat faced follower
D : Roller follower

---

176 : Which curve line is generated by the progressive rotation of a point around a cylinder?
A : Spiral
B : Cycloidal
C : Helix
D : Involute

---

177 : Which formula is used to determine the angle of swivel of the table to cut helical grooves on workpiece?
A :

$$\text{Cos } \theta = \frac{\pi D}{\text{Lead of helix}}$$

B :

$$\text{Cos } \theta = \frac{\text{Lead of helix}}{\pi D}$$

C :

$$\text{Tan } \theta = \frac{\pi D}{\text{Lead of helix}}$$

D :

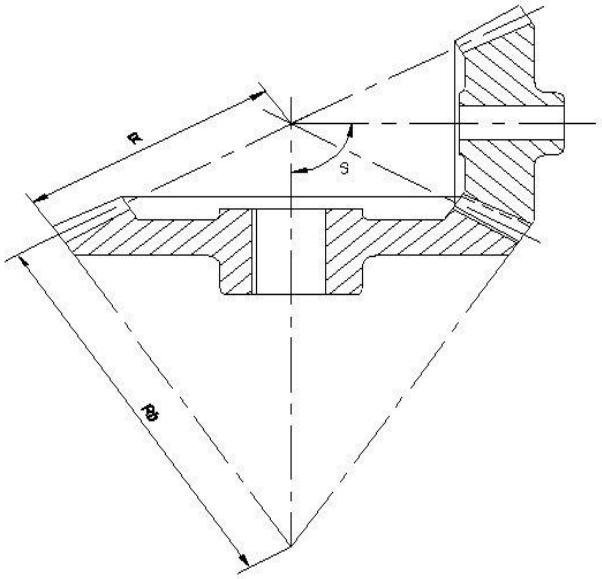
$$\text{Tan } \theta = \frac{\text{Lead of helix}}{\pi D}$$

---

178 : What is the indexing ratio of dividing head used in milling machine?
A : 1:40
B : 40:1
C : 80:1
D : 1.8

---

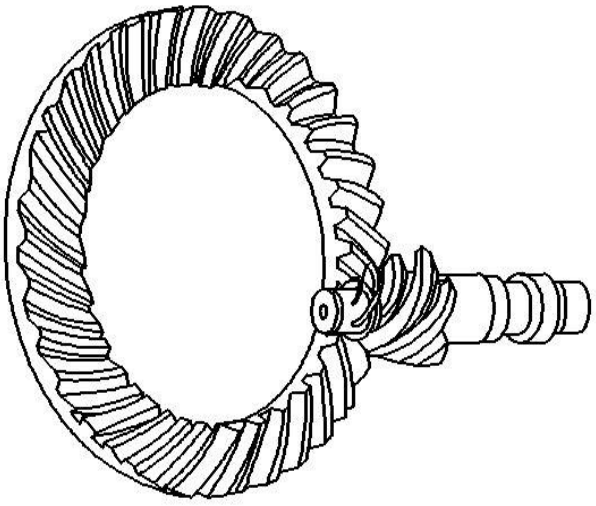
179 : Which angle is denoted as 'S' in mating bevel gear?



A : Root angle
B : Shaft angle
C : Pitch cone angle
D : Dedendum angle

---

180 : What is name of gear?



A : Miter bend gear
B : Straight bevel gear
C : Spiral bevel gear
D : Hypoid gear

---

181 : Which type of bevel gear used in machines to transmit power to 90°?
A : Spur
B : Straight tooth bevel gear
C : Hypoid gear
D : Helical

---

182 : Which gear has the advantage of smooth operation high speed range and more torque transmission?
A : Hypoid gear
B : Straight tooth bevel gear
C : Spiral bevel gear
D : Screw bevel gear

---

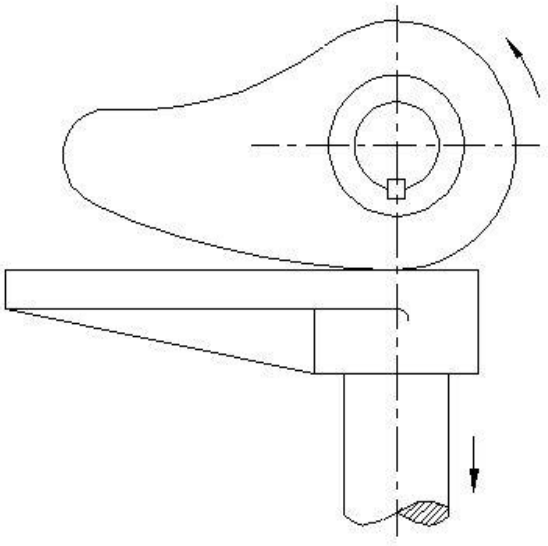
183 : Calculate pitch diameter for milling a bevel gear if module =3 mm and no of teeth = 24.
A : 76.24
B : 3
C : 72
D : 3.75

---

184 : Calculate the dedendum of bevel gear if module is 3mm.
A : 6.75 mm
B : 6 mm
C : 3 mm
D : 3.75 mm

---

185 : What is the type of cam?



A : Plate cam
B : Grooved plate cam
C : Toe and wiper cam
D : Drum cam

---

186 : Which type of follower not often used in cam drive?
A : Roller
B : Knife edge
C : Mush room
D : Flat faced

---

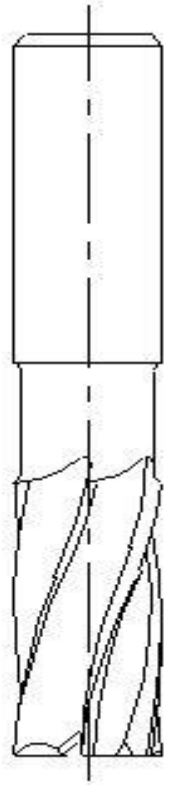
187 : Which follower produces considerable side thrust between the follower and the guide?
A : Flat faced follower
B : Mush room follower
C : Knife edge follower
D : Roller follower

---

188 : How followers are classified in cam?
A : Shape
B : Size
C : Weight
D : Material

---

189 : What is the name of cutter?



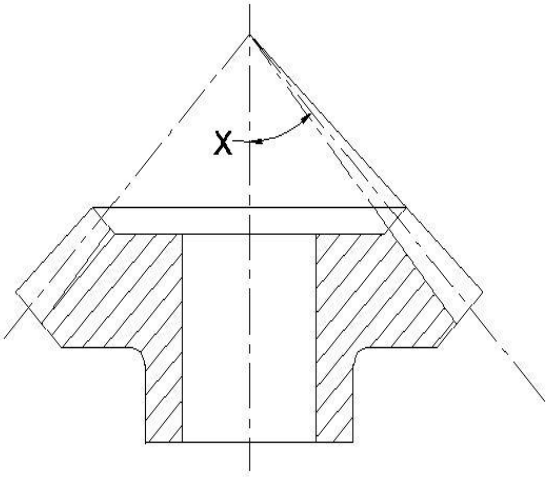
A : Reamers
B : Core drill
C : Slot drill
D : End mill cutter

---

190 : Which machine is used to cut helical groove on a workpiece?
A : Vertical milling
B : Horizontal milling
C : Turret head milling
D : Universal milling

---

191 : What is marked as 'X' ?



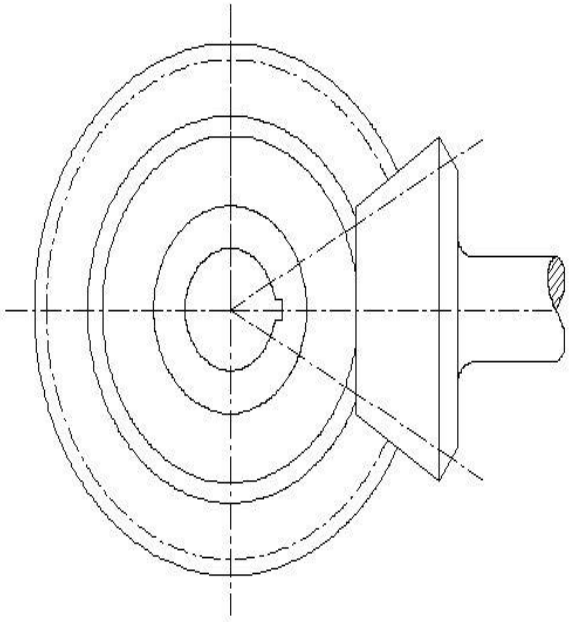
A : Pitch cone angle
B : Root angle
C : Face angle
D : Shaft angle

---

192 : Which gear is classified according to the tooth surface and use?
A : Spur
B : Helical
C : Worm
D : Bevel

---

193 : What is the name of gear?



A : Spur
B : Helical
C : Bevel
D : Worm wheel

---

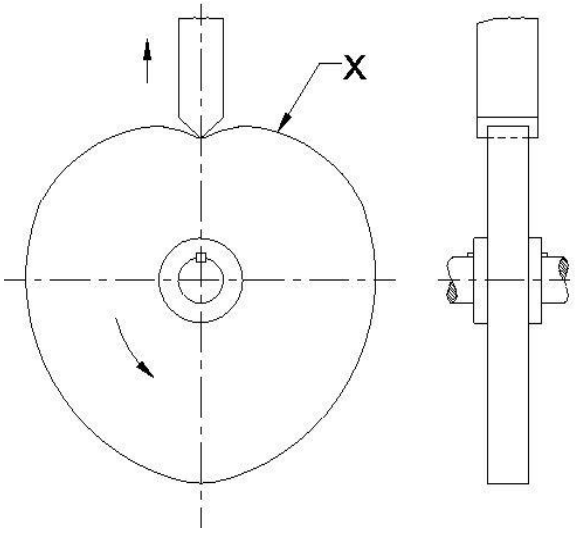
194 : Which type of bevel gear is used to connect shafts that are at an angle but not intersecting?
A : Spiral bevel
B : Hypoid gears
C : Straight bevel gear
D : Mitre gear

---

195 : What is the machine element with a surface or groove formed to produce a motion to another part follower?
A : Roller
B : Gear
C : Shaft
D : Cam

---

196 : What is marked as 'X' ?



A : Grooved plate cam
B : Driven cam
C : Toe and wiper cam
D : Plate cam

---

197 : Which element having a projecting part of the cam imparts a reciprocating motion to the follower?
A : Lead
B : Rise
C : Uniform rise
D : Lobe

---

198 : Which element of a cam is the distance one lobe will raise or lower the follower as the cam revolves?
A : Lobe
B : Lead
C : Rise
D : Uniform rise

---

199 : Which is used to impart a reciprocating motion to the followers in a machine?
A : Gear
B : Shaft
C : Cam
D : Clutch

---

200 : Calculate the lift of the plate cam that has a rise of 15 mm in 90° rotation if the table lead screw has a pitch of 6mm.
A : 3.75 mm
B : 0.266 mm
C : 60 mm
D : 0.0166 mm

---

201 : What is the formula to find angle of inclination of the spindle to mill plate cam?
A :

$$\text{Cos } \theta = \frac{\text{Lead of table}}{\text{Rise of the cam}}$$

B :

$$\text{Cos } \theta = \frac{\text{Rise of the cam}}{\text{Lead of table}}$$

C :

$$\text{Sin } \theta = \frac{\text{Lead of table}}{\text{Rise of the cam}}$$

D :

$$\text{Sin } \theta = \frac{\text{Rise of the cam}}{\text{Lead of table}}$$

---

202 : What is the formula to calculate pitch diameter of worm wheel?
A : $0.8\ d_1$
B : ha_2
C :

$$\frac{d_1}{2}$$

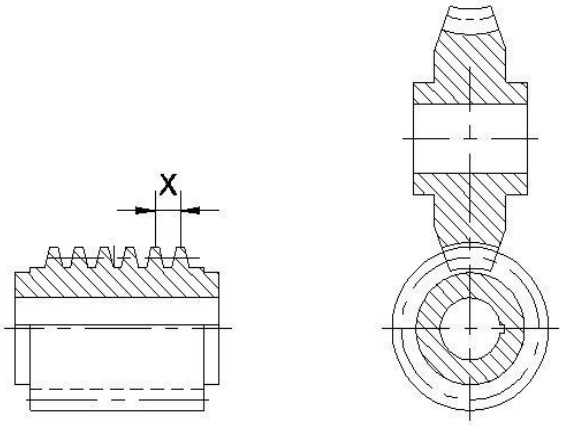
D : mz_2

---

203 : Which gear drive is used for "Large speed reduction and torque transmission"?
A : Helical
B : Worm and worm wheel
C : Bevel
D : Spur

---

204 : What is "πmz1", in worm calculation?



A : Lead angle of worm
B : Length of worm
C : Lead of worm
D : Tooth thickness

---

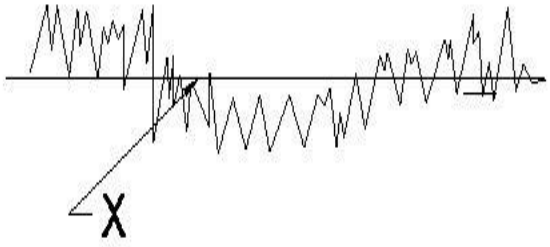
205 : What is the element marked as 'X'?
A : Root dia
B : Pitch dia
C : Axial pitch
D : Pressure angle

---

206 : What is the use of splines on a shaft?
A : To slide along longitudinally
B : Change the direction of rotation
C : As idler
D : Spline hub fixed stationary

---

207 : What is the arrangement number of keys and key ways formed over the cylindrical shaft?



A : Leather key
B : Spline
C : Wood ruff
D : Round

---

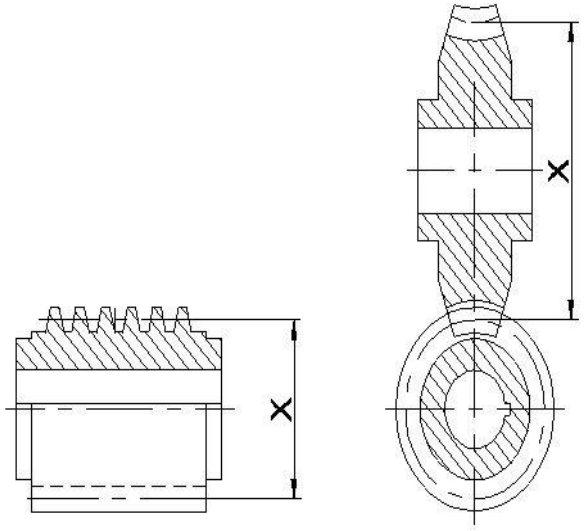
208 : What is marked as 'X'?
A : Total composite error
B : Tooth to tooth composite error
C : Radial run-out
D : Profile error

---

209 : Which method is suitable for worm wheel machining?
A : Shaping
B : Hobbing
C : Grinding
D : Turning

---

210 : What is marked as 'X'?



A : Throat dia
B : Pitch dia
C : Over dia
D : Root dia

---

211 : Which surface of a worm gear is termed as throat?
A : Cylindrical
B : Flat
C : Concave
D : Convex

---

212 : What is "Normal pitch" in worm wheel?
A : Axial pitch x sine of helix angle
B : Axial pitch x cosine of helix angle
C : Axial pitch x tan of helix angle
D : Axial pitch x cosec of helix angle

---

213 : What is the formula to calculate outside diameter of worm wheel?
A : Throat radius - module
B : Throat radius + module
C : Throat diameter + module
D : Throat dia meter -module

---

214 : Which gear drive is used to connect "two non-parallel, not intersecting shafts" right angles to each other?
A : Helical
B : Bevel
C : Spur
D : Worm and worm wheel

---

215 : Calculate the "Lead of worm" its module is 2 mm and single start.
A : 6.28
B : 2
C : 3.14
D : 1

---

216 : What is "Lead of worm/πd" in worm calculations?
A : Lead of worm
B : Lead angle of worm
C : Length of worm
D : Tooth thickness

---

217 : What is 6 in spline designation "6 x 28 x 34", IS:2327?
A : Inner diameter
B : Number of keys
C : Outer diameter
D : Diametral pitch

---

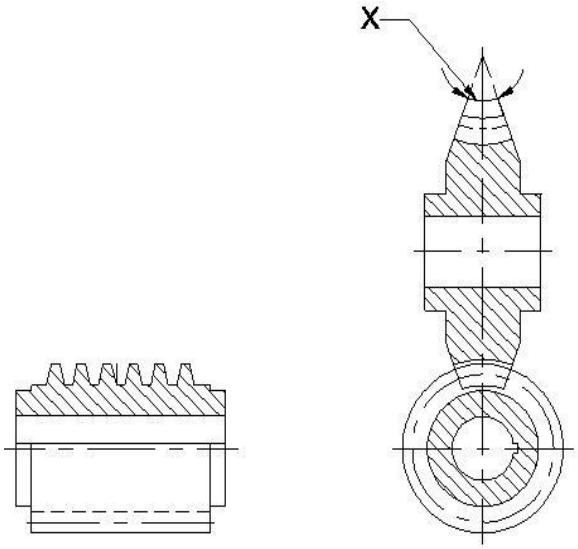
218 : Which is used to measure chordal thickness of the gear teeth?
A : Outside micrometer
B : Inside micrometer
C : Depth micrometer
D : Flange micrometer

---

219 : Calculate the pitch diameter of worm wheel having module 2 mm and number of teeth is 40.
A : 20
B : 80
C : 40
D : 160

---

220 : What is marked as 'x' in worm wheel?



A : Throat
B : Face
C : Face angle
D : Throat radius

ANSWERS :

1:C; 2:B; 3:B; 4:A; 5:C; 6:B; 7:B; 8:C; 9:C; 10:C; 11:B;
12:B; 13:C; 14:B; 15:A; 16:B; 17:A; 18:A; 19:D; 20:D;
21:D; 22:D; 23:B; 24:C; 25:D; 26:C; 27:C; 28:C; 29:C;
30:D; 31:C; 32:C; 33:A; 34:D; 35:A; 36:B; 37:C; 38:A;
39:A; 40:B; 41:A; 42:C; 43:B; 44:B; 45:D; 46:C; 47:B;
48:B; 49:C; 50:A; 51:B; 52:A; 53:C; 54:A; 55:D; 56:A;
57:B; 58:B; 59:C; 60:B; 61:C; 62:B; 63:D; 64:C; 65:B;
66:B; 67:B; 68:B; 69:D; 70:B; 71:A; 72:C; 73:A; 74:C;
75:A; 76:A; 77:A; 78:A; 79:A; 80:B; 81:C; 82:A; 83:B;
84:B; 85:B; 86:B; 87:B; 88:D; 89:B; 90:C; 91:D; 92:B;
93:A; 94:A; 95:A; 96:B; 97:B; 98:A; 99:A; 100:C;
101:B; 102:B; 103:D; 104:C; 105:C; 106:C; 107:A;
108:D; 109:D; 110:B; 111:B; 112:B; 113:D; 114:C;
115:A; 116:C; 117:C; 118:B; 119:D; 120:B; 121:C;
122:B; 123:A; 124:B; 125:B; 126:D; 127:B; 128:C;
129:C; 130:C; 131:C; 132:B; 133:D; 134:B ; 135:C;
136:D; 137:B; 138:D; 139:C; 140:B; 141:B; 142:C;
143:C; 144:B; 145:B; 146:A; 147:A; 148:C; 149:C;
150:B; 151:C; 152:D; 153:C; 154:D; 155:D; 156:A;
157:C; 158:B; 159:C; 160:B; 161:C; 162:A; 163:D;
164:B; 165:B; 166:C; 167:D; 168:C; 169:D; 170:B;
171:C; 172:C; 173:A; 174:D; 175:D; 176:C; 177:C;
178:B; 179:B; 180:C; 181:B; 182:C; 183:C; 184:D;
185:C; 186:B; 187:C; 188:A; 189:D; 190:D; 191:C;
192:D; 193:C; 194:B; 195:D; 196:D; 197:D; 198:C;
199:C; 200:C; 201:D; 202:D; 203:B; 204:C; 205:C;
206:A; 207:B; 208:C; 209:B; 210:B; 211:C; 212:B;
213:C; 214:D; 215:A; 216:B; 217:B; 218:D; 219:B;
220:C;