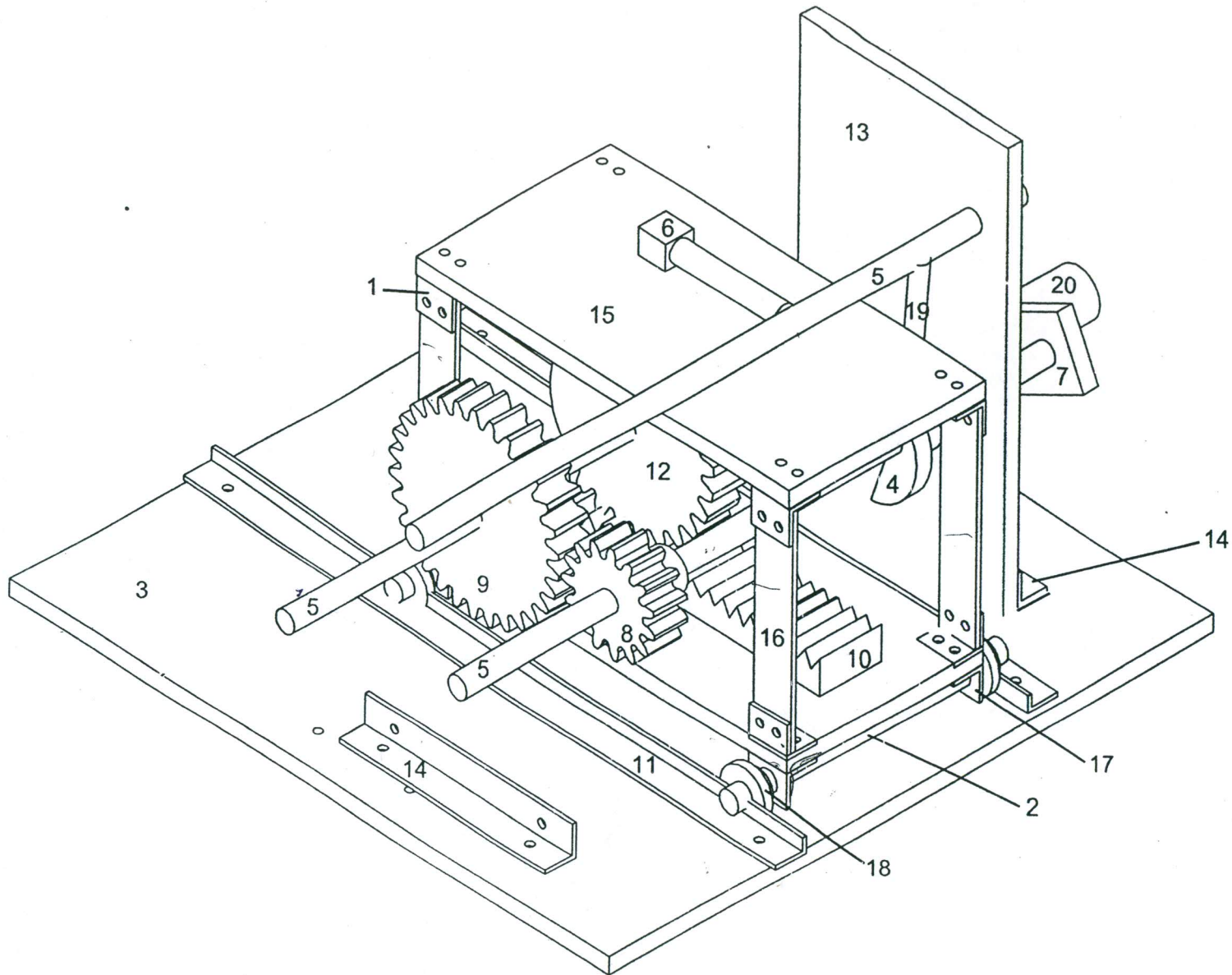


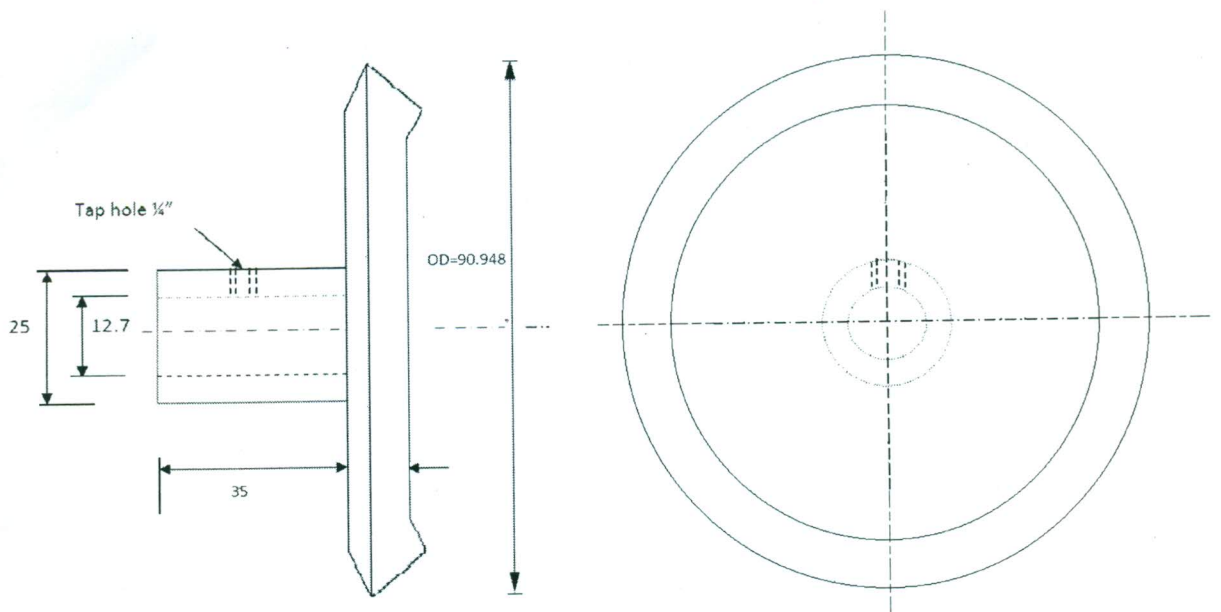
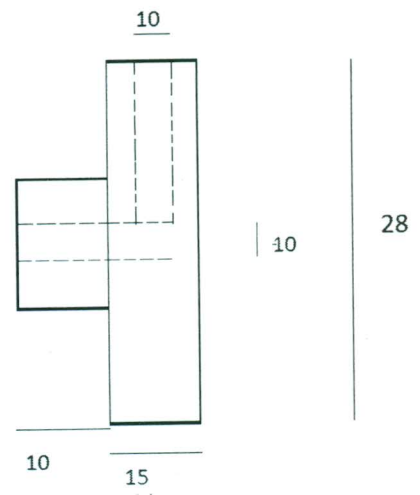
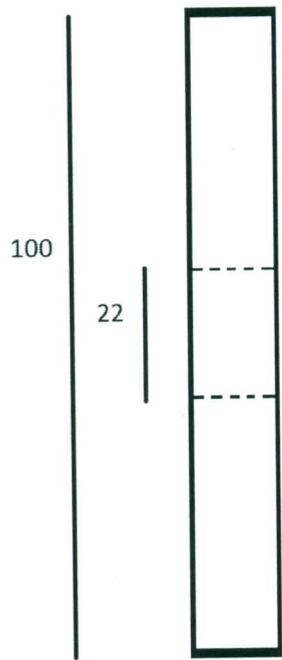
INDEX

PART NO.	PART NAME	DIAMENSION (in mm)	PAGE NO.	QUANTITY
1.	Isometric view		1	1
2.	Base Plate	300 X 300 X 6	2	1
3.	Axle of worm wheel	$\Phi 16 \times 180$	3	1
4.	Worm wheel	$\Phi 59.87$	4	1
5.	Bevel Gear 1	$\Phi 90.948$	5	1
6.	Bevel Gear 2	$\Phi 32.84$	6	1
7.	Axle of Bevel Gear 1	$\Phi 16 \times 180$	3	1
8.	Axle of Bevel Gear 2	$\Phi 12.7 \times 120$	3	1
9.	Pipe Containing Spring	$\Phi 49 \times 180$	7	1
10.	Hinged half pipe	$\Phi 49 \times 40$	15	1
11.	Support 1	50 X 100 X 5	8	6
12.	Support 2	50 X 134.5 X 5	9	1
13.	Support 3	70 X 180 X 5	10	2
14.	Pipe holder	70 X 70 X 5	11	
15.	Handle	80 X 80 X 25	12	1
16.	Angle	50 X 50 X 5	13	10
17.	Base of worm Axle	50 X 50 X 35	14	1
18.	Rod	$\Phi 3 \times 116$	3	2
19.	Feed pipe	$\Phi 49 \times 60$	7	2

STAMP MACHINE (ISOMETRIC)



Bevel Gear 1



(All dimensions are in MM)

Gear Ratio, if = 1 : 3

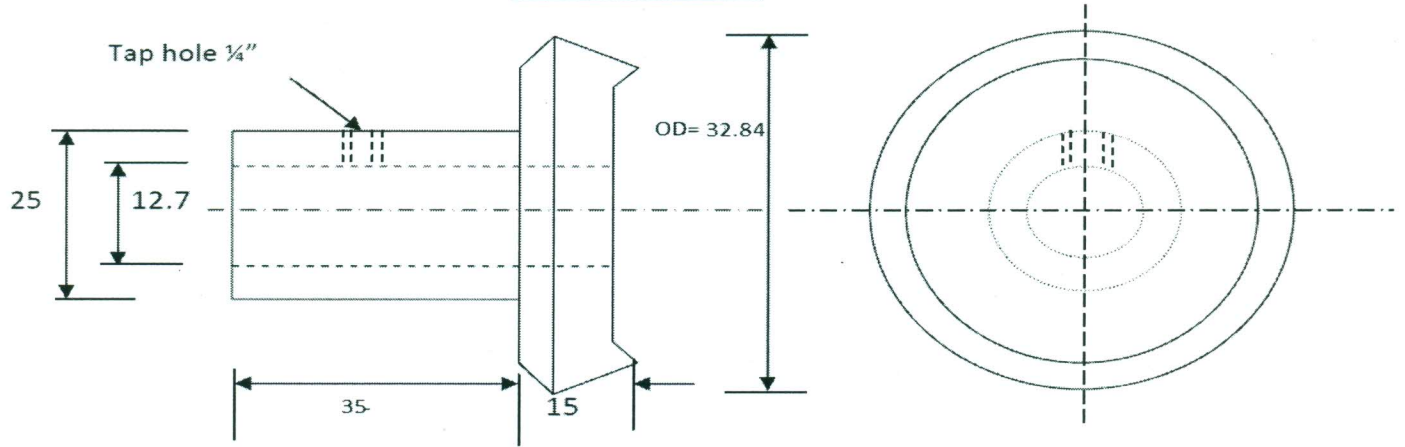
Quantity	= 1
Nos. of Teeth (N)	= 60
Module (M)	= 1.5
Outer diameter (OD)	= 90.948
Face Angle ($\Theta_G + \alpha$)	= 73°22' (for Lathe Machine)
Cutting Angle (ϕ_G)	= 69°32' (for milling Machine)
Rod diameter (ID)	= 16
Depth of cut	= 2.157 X M = 3.2335
Tap hole size	= 5.2 mm drill & 1/4" tapping
Indexing calculation	= 60 / 40 = 1.5

Required materials (Mild Steel)

Size: ϕ 100 X 12 & ϕ 30 X 27

Qty: 1

Bevel Gear 2



(All dimensions are in MM)

Gear Ratio, if = 1 : 3

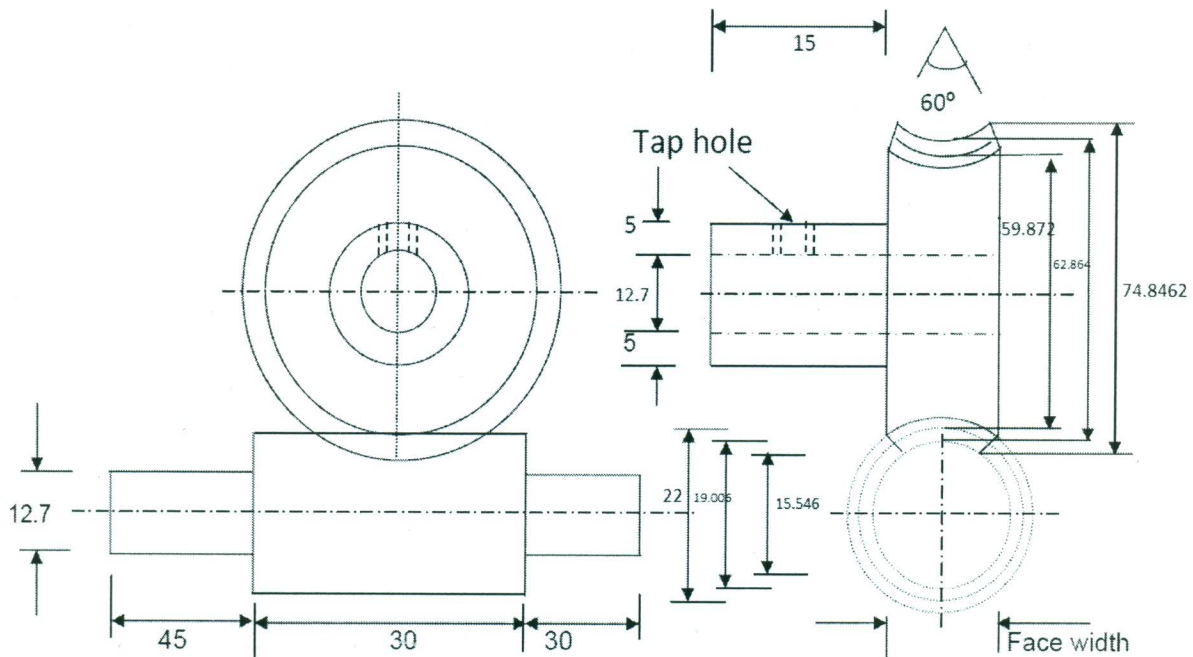
Quantity	= 1
Nos. of Teeth (N)	= 20
Module (M)	= 1.5
Outer diameter (OD)	= 32.84
Face Angle ($\Theta_G + \alpha$)	= $20^{\circ}16'$ (for Lathe Machine)
Cutting Angle (ϕ_G)	= $24^{\circ}26'$ (for milling Machine)
Rod diameter (ID)	= 12.7
Depth of cut	= $2.157 \times M = 3.2335$
Tap hole size	= 5.2 mm drill & $\frac{1}{4}$ " tapping
Indexing calculation	= $20 / 40 = 0.5$

Required materials (Mild Steel)

Size: ϕ 35X 55

Qty:1

Worm & Worm wheel (gear)

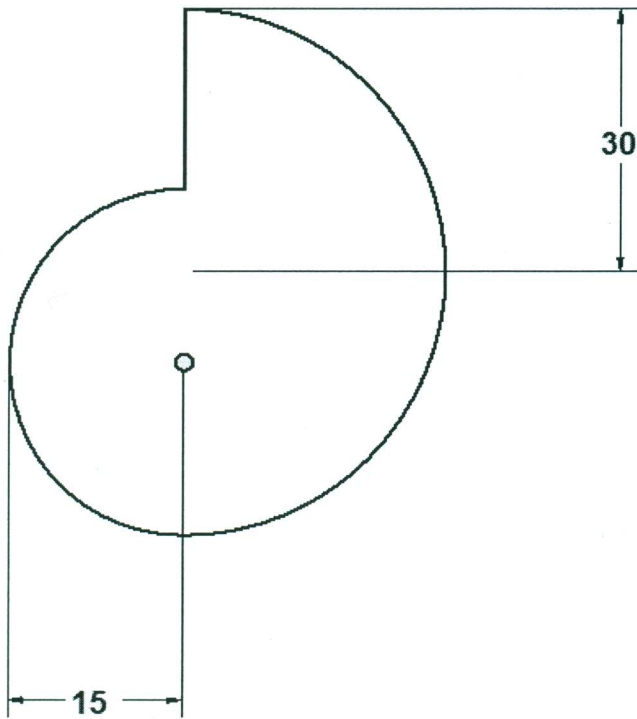


Ratio of Worm & worm wheel	= 1:40
Outer diameter of worm (d_o)	= 22
Pitch of the worm	= 4.7
Depth of the worm	= 3.27mm
Diameter over sharp corner (worm wheel) (D_o')	= 74.8462
Throat Diameter of worm wheel (D_o)	= 62.8342
Depth of cut of the worm wheel	= 3.227
Nos. of teeth of worm wheel	= 40
Gashing Angle (for milling m/c)	= 4.5 degrees
Face width of worm wheel	= 17.536
Rod diameter (ID)	= 12.7 or 16
Tap hole size	= 5.2 mm drill & 1/4" tapping
Indexing for teeth cutting	= 40/N

(All dimensions are in MM)

Required materials (Mild Steel)	
For worm, size: ϕ 25 (diameter) X 32(length)	Qty. =1
For worm wheel, size: ϕ 77 (diameter) X 20(length)	Qty. =1

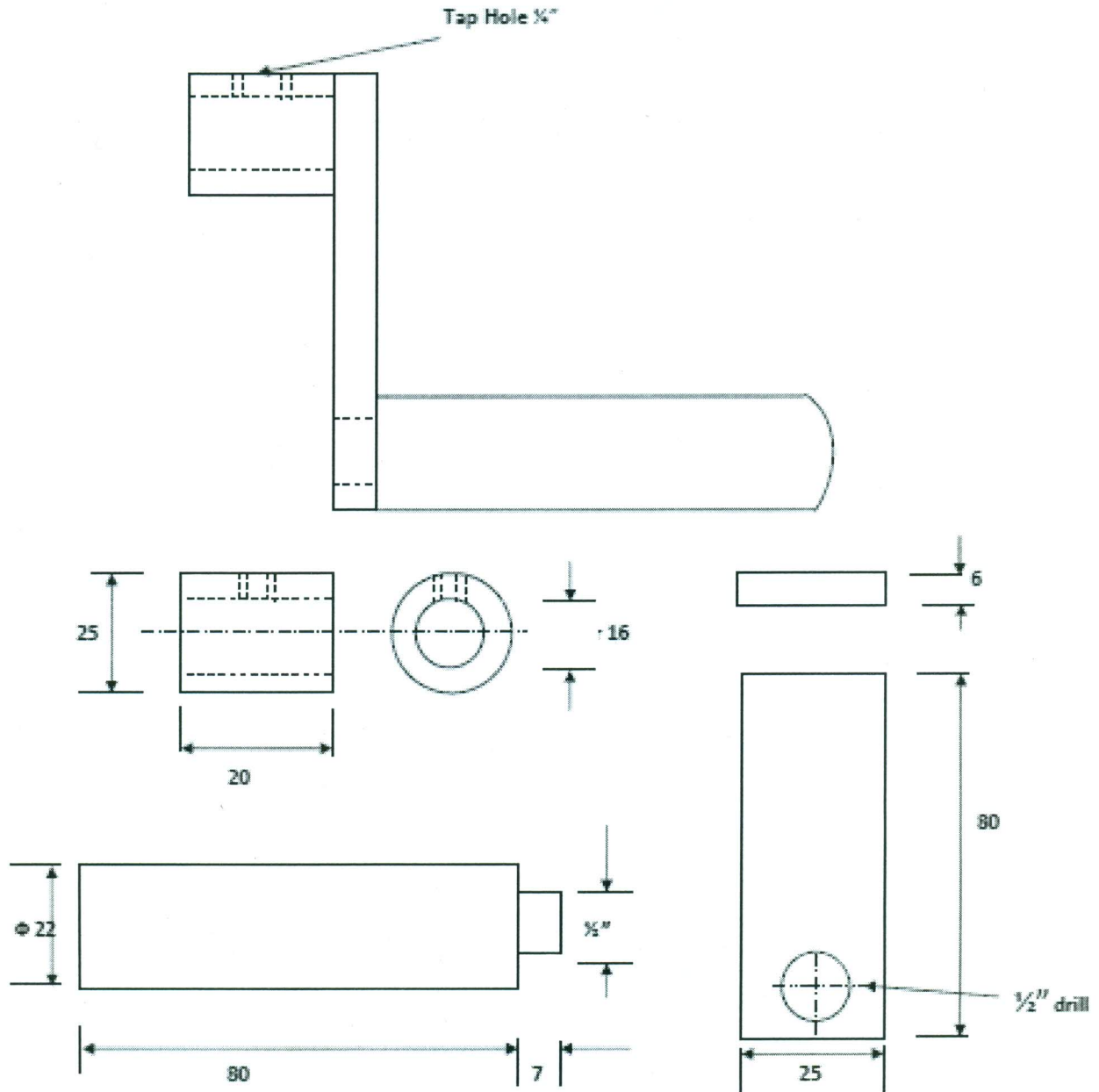
CAM



(All dimensions are in MM)

Required materials (Mild Steel)
Size: (Φ 60) X 3
Qty: 1

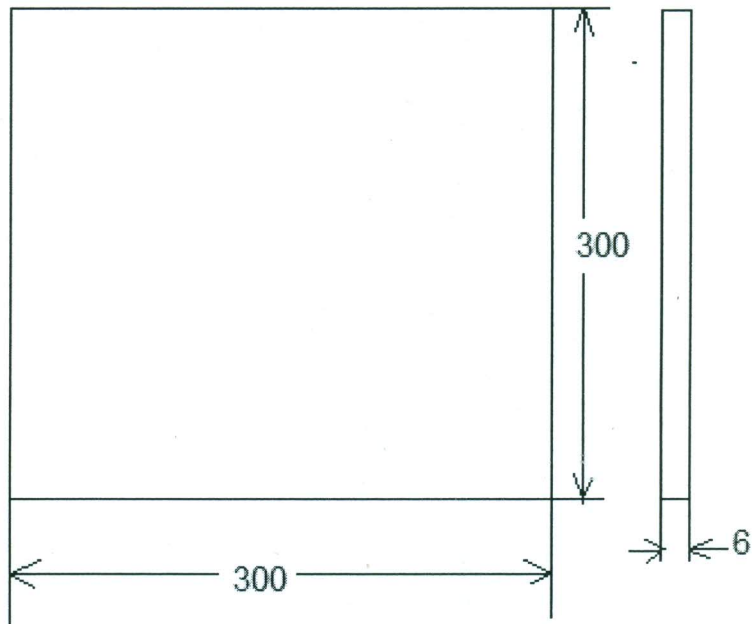
Handle



(All dimensions are in MM)

Required materials (Mild Steel)
Rod Size: (Φ 22 X 90) & (Φ 25 X 20)
Flat size : (25 X 6) X 80
Qty: 1 each

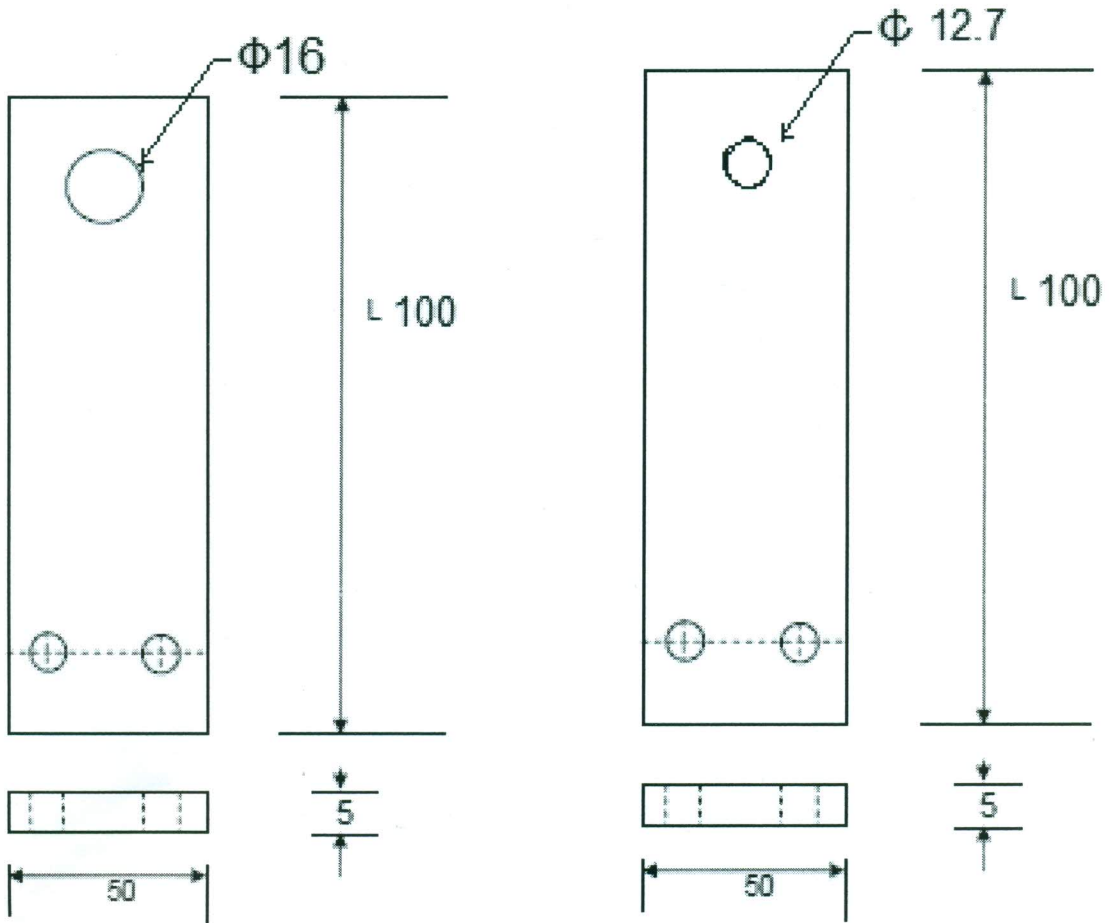
Base plate



(All dimensions are in MM)

Required materials (Mild Steel)
Size: (300 X 300 X 6) mm
Qty: 1

Support 1



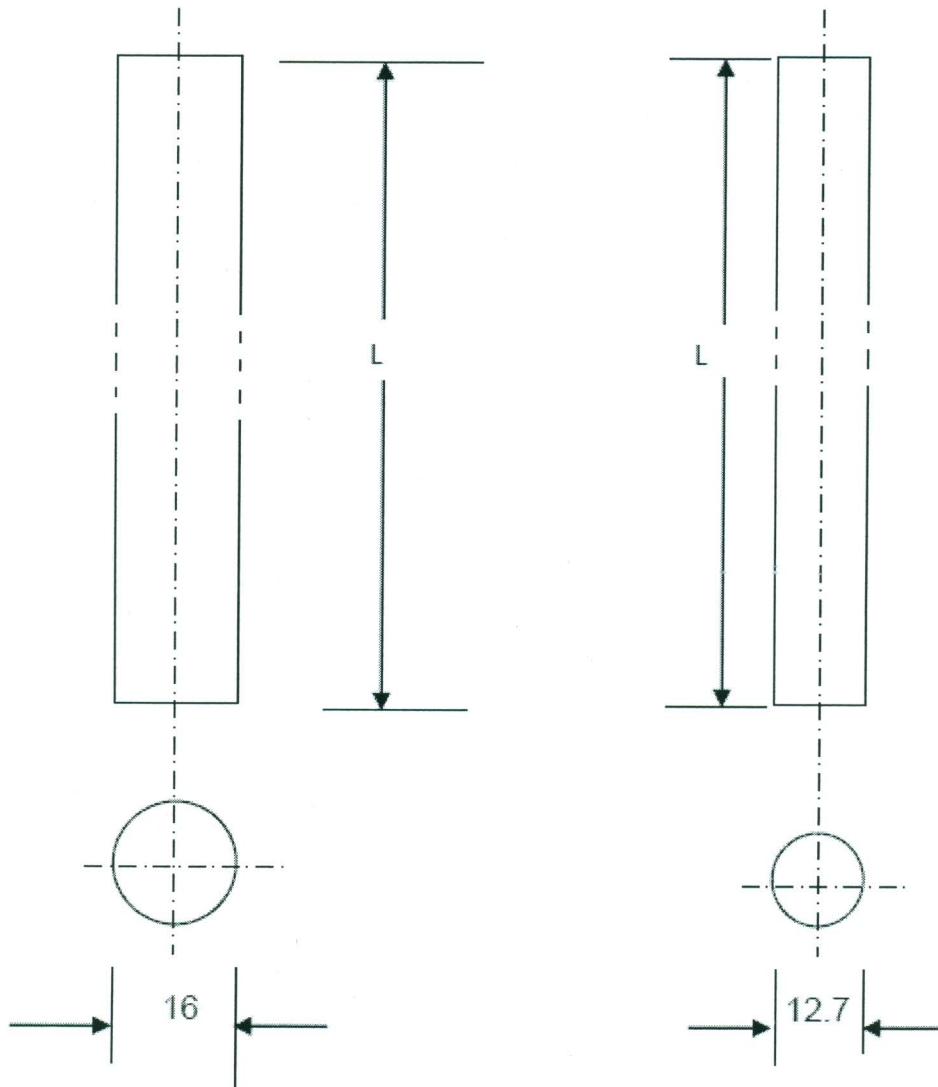
(All dimensions are in MM)

Required materials (Mild Steel)

Flat Size: (50 X 5) X 100

Qty: 3+3

Rod



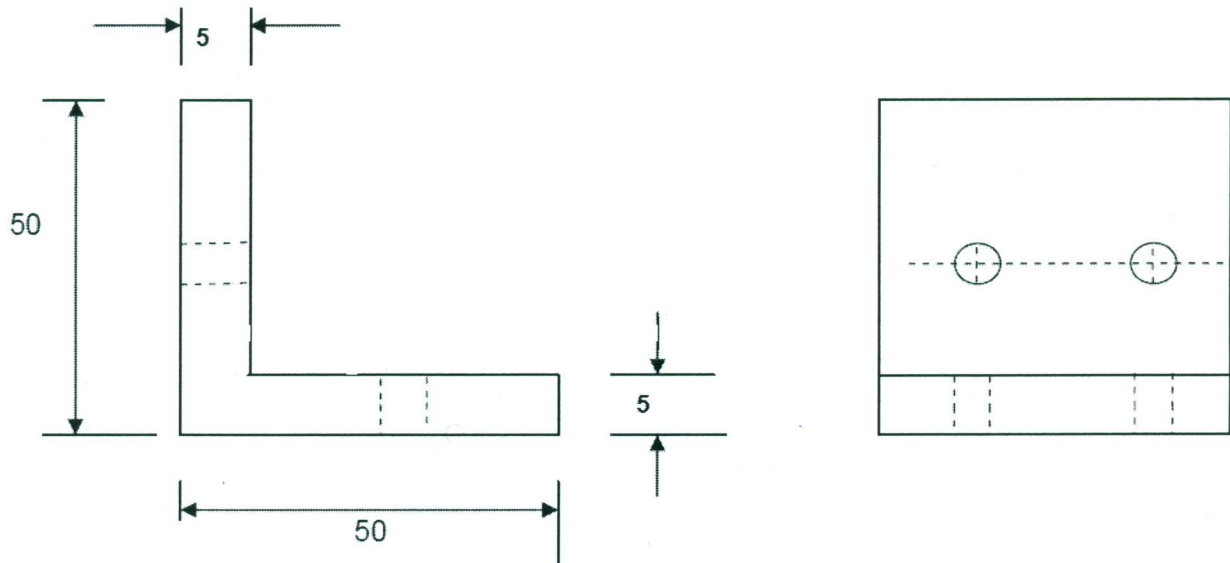
(All dimensions are in MM)

Required materials (Mild Steel)

Rod Size: (ϕ 16 X 360) & (ϕ 12.7 X 120)

Qty:1

Angle



(All dimensions are in MM)

Required materials (Mild Steel)

Angle Size: (50 X 50 X 10) X L & (25 x 25 X 3) X L

Qty: 10